CPDD 80th Annual Scientific Meeting Program

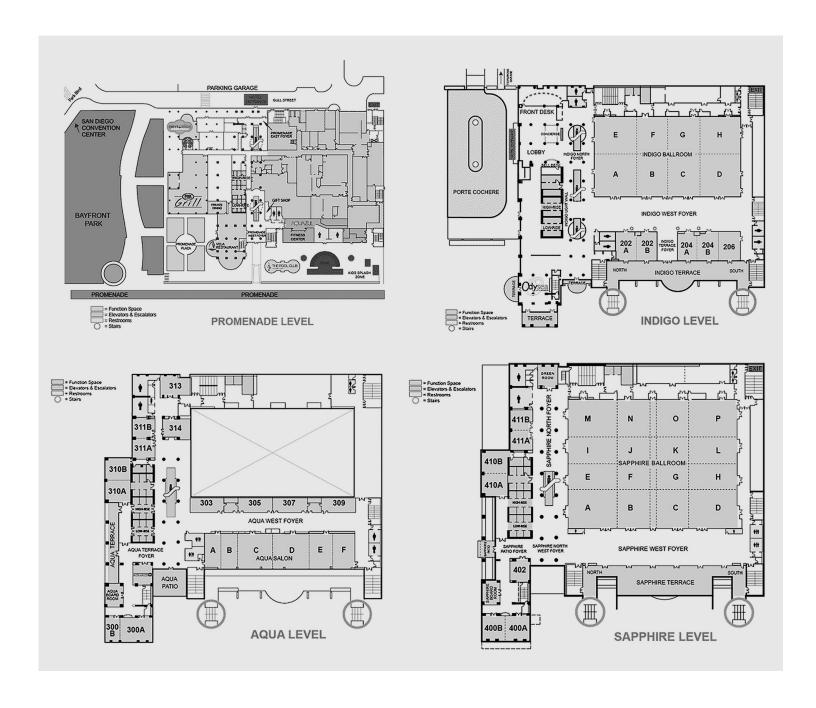
2018



June 9 - 14, 2018
Hilton San Diego Bayfront
San Diego, CA
#CPDD18



Hilton San Diego Bayfront Hotel Map



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Saturday, June 9, 2018

ISGIDAR Sapphire LP

8:00 - 5:00 PM

NIDA INTERNATIONAL FORUM

Sapphire DH

8:30 - 5:00 PM

(PRE-REGISTRANTS ONLY)
NIDA CRANT WRITING
Aqua C

NIDA GRANT-WRITING
1:00 - 5:00 PM

REGISTRATION Sapphire NW Foyer

1:30 - 5:30 PM

OPENING RECEPTION Promenade Plaza

7:00 - 9:00 PM

Sunday, June 10, 2018

PLENARY PROGRAM Indigo BCFG 8:30 - 11:00 AM

8:30 Welcome

CPDD President Alan J. Budney

- 8:45 Celebrating the 80th Annual Scientific Meeting of the Committee/College on Problems of Drug Dependence Loretta P. Finnegan, CPDD Executive Officer
- 9:15 Presentation of the Stephen G. Holtzman Travel Award for Preclinical Investigators to Laís F. Berro Introduction by Alan J. Budney
- 9:20 Presentation of the CPDD/NIDA Media Award to Maia Szalavitz Introduction by Meg Chisolm

- 9:35 Presentation of the Martin & Toby Adler Distinguished Service Award Introduction by Loretta Finnegan
- 9:40 Presentation of the J. Michael Morrison Award to Ivan D. Montoya Introduction by Francis Levin
- 9:45 Presentation of the Joseph Cochin Young Investigator Award to Kelly Dunn Introduction by Maxine Stitzer
- 9:50 Presentation of the Mentorship Award to Leonard Howell Introduction by Laís F. Berro
- 9:55 Presentation of the Innovator Award to Thomas Prisinzano Introduction by Christopher Cunningham
- 10:05 Presentation of the Nathan B. Eddy Award to Alex Makriyannis Introduction by Thomas Prisinzano
- 10:15 Nathan B. Eddy Lecture

 Cannabinoid Receptors, Their Structures and Functions
 Alex Makriyannis, Northeastern University, Boston, MA

POSTER SESSION I GENETICS

LUNCH

Sapphire ABC/EFG 11:00 - 1:00 PM

Odd numbered posters manned first hour; Even numbered, second hour

- 1 Greater oxycodone self-administration by male and female A112G mice than wild type A112A mice Yong Zhang, Devon Collins, Mary Jeanne Kreek, The Rockefeller University, New York, NY
- Oprm1 A112G, a single nucleotide polymorphism, alters expression of stress-responsive genes in multiple brain regions in male and female mice
 Devon Collins, Yong Zhang, Matthew Randesi, Joel Correa da Rosa, Mary Jeanne Kreek, The Rockefeller University, New York, NY
- Associations between the orexin (hypocretin) receptor 2 gene polymorphism Val308Ile and nicotine dependence found in genome-wide and subsequent association studies

 Daisuke Nishizawa¹, Shinya Kasai¹, Junko Hasegawa¹, Naomi Sato², Hidetaka Yamada², Fumihiko Tanioka³, Makoto Nagashima⁴, Hiroshi Ujike⁵, Ryota Hashimoto⁶, Tomio Arai⁷, Seijiro Mori⁷, Motoji Sawabe⁸, Makiko Naka-Mieno⁹, Yoshiji Yamada⁸, Miki Yamada⁸, Noriko Sato⁸, Masaaki Muramatsu⁸, Masashi Tanaka¹⁰, Masakazu Hayashida¹¹, Haruhiko Sugimura², Kazutaka Ikeda¹, ¹Tokyo Metropolitan Institute of Medical Science, Setagaya-ku, Japan, ²Hamamatsu University School of Medicine, Hamamatsu, Japan, ³Iwata City Hospital, Iwata, Japan, ⁴Toho University Sakura Medical Center, Sakura, Japan, ⁵Ujike Nishiguchi Clinic, Okayama, ⁶Osaka University Graduate School of Medicine, Osaka, Japan, ⁷Tokyo Metropolitan Geriatric Hospital, Tokyo, ⁸Tokyo Medical and Dental University, Tokyo, Japan, ⁹Jichi Medical University, Shimotsuke, Japan, ¹⁰Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan, ¹¹Juntendo University School of Medicine, Tokyo, Japan
- 4 Gender-specific association of functional PDYN 68-base pair repeats with cannabis exposure in an African-American cohort Vadim Yuferov, The Rockefeller University, New York, NY
- Gene-environment correlation in affiliating with substance using friends from childhood to young adulthood Cristina Bares¹, Berenice Castillo¹, Kenneth Kendler², ¹University of Michigan, Ann Arbor, MI, ²Virginia Commonwealth University, Richmond, VA

POSTER I STIMULANTS PRECLINICAL I

- 6 The Cocaine Biobank: A repository of biological samples from genetically characterized outbred rats that exhibit compulsive-like escalation of cocaine self-administration
 Olivier George¹, Lisa Maturin¹, Giordano De Guglielmo¹, Molly Brennan¹, Leah Solberg-Woods², Dana Conlisk¹, Abraham Palmer¹, ¹The Scripps Research Institute, La Jolla, CA, ²Wake Forest University School of Medicine, Winston-Salem, NC
- 7 The effect of a recombinant humanized anti-cocaine monoclonal antibody on the urinary clearance of cocaine and metabolites in rats
 Jordan Marckel¹, Hanna Wetzel², Andrew Norman¹, Hassane Amlal², ¹University of Cincinnati, College of Medicine, Cincinnati, OH, ²University of Cincinnati, Cincinnati, OH
- Repeated cocaine and novel environmental exposures have divergent effects on locus coeruleus cFOS expression and forebrain region monoamine concentrations

 Michael Lisieski, Klevis Karavidha¹, Ali Gheidi², Rafael Garibyan¹, Alana Conti³, Jonathan Morrow⁴, Shane Perrine³, ¹Wayne State University School of Medicine, Detroit, MI, ²University of Michigan Medical School, Ann Arbor, MI, ³Wayne State University, Detroit, MI, ⁴University of Michigan, Ann Arbor, MI
- Expression of DeltaFosB in taurine-cocaine treated rat brains

 Tianna Irving¹, Ayana Cole², Temitayo Adebowale³, Cladimar Vasquez², Ugochukwu Akpara⁴, Rina Liang³,

 Kaliris Salas-Ramirez⁵, Avery Villa-Gonzalez³, ¹TRACC Training Grant, Elmont, NY, ²CUNY School of

 Medicine, New York, NY, ³The City College of New York, New York, NY, ⁴TRACC Training Grant,

 Brooklyn, NY, ⁵The Sophie Davis School of Biomedical Education, New York, NY
- Role of ventral tegmental area serum- and glucocorticoid-inducible kinase 1 (SGK1) catalytic activity and phosphorylation in drug-related behaviors
 Marie Doyle¹, Vedrana Bali¹, Sarah Cooper¹, Sophia Kaska¹, Michelle Mazei-Robison¹, Shane Perrine²,
 ¹Michigan State University, East Lansing, MI, ²Wayne State University, Detroit, MI
- Hypocretin/orexin innervation within ventral midbrain: Afferent topography and function in psychostimulant use disorders
 Steven Simmons, Rose Martorana, Taylor Gentile, Helene Philogene, Scott Rawls, John Muschamp, Lewis Katz School of Medicine at Temple University, Philadelphia, PA
- Opposing action of dynorphin and orexin in the posterior paraventricular nucleus of the thalamus: Cellular and behavioral evidence.
 Remi Martin-Fardon, Marsida Kallupi, Olivier George, Paul Schweitzer, Alessandra Matzeu, The Scripps Research Institute, La Jolla, CA
- Orexin A in the posterior paraventricular nucleus of the thalamus promotes cocaine-seeking behavior:
 Differential hypothalamic activation during abstinence.
 Alessandra Matzeu, Remi Martin-Fardon, The Scripps Research Institute, La Jolla, CA
- 14 Reconsolidation of cocaine reward memory requires NMDA-GSK3 signaling
 Xiangdang Shi¹, Eva Von Weltin², Ellen Unterwald¹, ¹Lewis Katz School of Medicine at Temple University,
 Philadelphia, PA, ²Temple University, Philadelphia, PA
- Remembering addictive behaviours: Effect of cocaine-associated stimuli on memory formation Francesco Leri, Michael Wolter, Boyer Winters, Ethan Huff, University of Guelph, Guelph, ON, Canada
- SNC80, a delta opioid receptor agonist, reduces cocaine-induced increases in CRF mRNA in female rats Krista Connelly, Ellen Unterwald, Lewis Katz School of Medicine at Temple University, Philadelphia, PA
- Comparison of the reinstatement of cocaine-seeking in remission induced by cues, drug or a drug/cue combination an IVSA study in rats

 Elaine Keogh¹, Sharon Smith², David Heal², ¹RenaSci Ltd, Nottingham, United Kingdom, ²RenaSci Ltd, Nottingham
- 18 The wrong crowd: Social influences on cue-induced cocaine seeking.
 Lindsey Hammerslag, Joshua Beckmann, Michael Bardo, University of Kentucky, Lexington, KY

A data analysis strategy for rodent self-administration studies
Sharon Rowton¹, Kelly Ashcroft-Hawley¹, Beatriz Rocha², ¹Covance Laboratories, Harrogate, United Kingdom, ²Covance, Princeton, NJ

POSTER I PERINATAL

Sapphire ABC/EFG 11:00 - 1:00 PM

- 20 Perceived stressors reported by mothers with Opioid Use Disorder: Qualitative findings from an inpatient substance use program
 Angela Moreland, Aimee McRae-Clark, Medical University of South Carolina, Charleston, SC
- 21 Post-birth treatment outcomes in pregnant, methadone-maintained women

 Jennifer Ellis¹, Meagan Carr², Molly Cairncross³, Cara Struble¹, Leslie Lundahl¹, ¹Wayne State University,

 Detroit, MI, ²Eastern Michigan University, Detroit, MI, ³University of Windsor, Windsor, ON, Canada
- 22 A pilot randomized clinical trial of Bupropion Sustained Release as an aid for smoking cessation during pregnancy: Challenges of recruitment and retention of subjects
 Valentina Fokina¹, Cheryl Oncken², Richard Feinn³, Holly West¹, Shannon Clark¹, Gary Hankins¹, Mahmoud Ahmed¹, Tatiana Nanovskaya¹, ¹University of Texas Medical Branch, Galveston, TX, ²University of Connecticut Health Center, Farmington, CT, ³Frank H Netter, MD, School of Medicine, Medical Sciences, Quinnipiac University, North Haven, CT
- Anticipated vs. actual postpartum contraceptive use among pregnant cigarette smokers

 Sarah Heil¹, Ivori Zvorsky², Allison Kurti¹, Ira Bernstein¹, Stephen Higgins¹, ¹University of Vermont,
 Burlington, VT, ²Vermont Center on Behavior and Health, Burlington, VT
- Examining interrelationships between delay discounting and simulated demand for cigarettes among pregnant women
 Tyler Nighbor¹, Ivori Zvorsky², Allison Kurti¹, Warren Bickel³, Derek Reed⁴, Stephen Higgins¹, ¹University of Vermont, Burlington, VT, ²Vermont Center on Behavior and Health, Burlington, VT, ³Virginia Tech
 Carilion Research Institute, Roanoke, VA, ⁴University of Kansas, Lawrence, KS
- A new method with improved sensitivity of the detection of marijuana metabolite in human umbilical cord tissue using 2-D GC/MSMS

 Jason Hulen, Joseph Jones, Mary Jones, Andre Sukta, United States Drug Testing Laboratories, Des Plaines, IL
- Trends in self-reported and biochemically tested marijuana use among pregnant adolescents and adults in California from 2009-2016
 Kelly Young-Wolff, Lue-Yen Tucker, Stacey Alexeeff, Mary Anne Armstrong, Amy Conway, Constance Weisner, Nancy Goler, Kaiser Permanente Northern California, Oakland, CA

POSTER I ADOLESCENT DRUG ABUSE I

Sapphire ABC/EFG 11:00 - 1:00 PM

27 Contributions of sexual violence perpetration and victimization to drug and alcohol abuse risk in adolescence: A four-year longitudinal study

Sara Stein¹, Philip Veliz¹, Yasamin Kusunoki², Carol Boyd¹, Quyen Ngo³, ¹University of Michigan, Ann Arbor, MI, ²University of Michigan, School of Nursing, Ann Arbor, MI, ³University of Michigan Injury Prevention Center, Ann Arbor, MI

- 28 Association between youth recall of alcohol marketing across venues and underage drinking
 - Joy Gabrielli¹, Mike Stoolmiller², Zoe Brennan³, Susanne Tanski⁴, Auden McClure⁴, ¹Geisel School of Medicine at Dartmouth, Enfield, NH, ²Michigan State University, Lansing, MI, ³Department of Biomedical Data Science at Dartmouth, Hanover, NH, ⁴Geisel School of Medicine at Dartmouth, Lebanon, NH
- 29 Tobacco incidence in school-attending Brazilian adolescents: Contextual factors and comorbid patterns Marcos Ribeiro¹, Silvia Martins², Thiago Fidalgo¹, Zila M. Sanchez¹, Sheila C. Caetano¹, ¹Universidade Federal de Sao Paulo, São Paulo, ²Columbia University, New York, NY
- 30 A videogame intervention for tobacco product use prevention in adolescents Lynn Fiellin, Yale University, New Haven, CT
- High school adolescents use several types of e-cigarette devices
 Asti Jackson¹, Grace Kong¹, Deepa Camenga¹, Meghan Morean², Krysten Bold¹, Dana Cavallo¹, Patricia Simon¹, Ran Wu¹, Suchitra Krishnan-Sarin¹, ¹Yale University School of Medicine, New Haven, CT, ²Oberlin College, Oberlin, OH
- Has alternative tobacco product use influenced future cigarette smoking intention differently in male and female adolescents from 2011 to 2015?
 Luis Segura¹, Julian Santaella-Tenorio¹, Shivani Mantha², Pia Mauro¹, Daniel Giovenco¹, Silvia Martins¹,
 ¹Columbia University, New York, NY, ²Columbia University Mailman School of Public Health, New York, NY
- 33 Trends in cannabis and nicotine co-use among adolescent cannabis users

 Ashley Knapp¹, Dustin Lee², Joy Gabrielli³, Jacob Borodovsky¹, Samantha Auty⁴, Alan Budney⁵, ¹Geisel
 School of Medicine at Dartmouth, Hanover, NH, ²Johns Hopkins University School of Medicine, Baltimore,
 MD, ³Geisel School of Medicine at Dartmouth, Enfield, NH, ⁴Geisel School of Medicine at Dartmouth,
 Lebanon, ⁵Geisel School of Medicine at Dartmouth, Lebanon, NH
- 34 Longitudinal brain metabolites changes in young marijuana users
 Christine Cloak¹, Thomas Ernst², Linda Chang³, ¹University of Maryland, School of Medicine, Baltimore,
 MD, ²Department of Medicine, John A. Burns School of Medicine, University of Hawaii and Queen's Medical Center, Baltimore, MD, ³John A. Burns School of Medicine, Honolulu, HI
- Adding working memory training to contingency management for adolescent cannabis misuse: A sequential multiple assignment randomized trial

 Catherine Stanger¹, Emily Scherer¹, Ashley Knapp², Hoa Vo³, Marc Fishman³, Alan Budney⁴, ¹Dartmouth College, Hanover, NH, ²Geisel School of Medicine at Dartmouth, Hanover, NH, ³Mountain Manor Treatment Center, Baltimore, MD, ⁴Geisel School of Medicine at Dartmouth, Lebanon, NH
- 36 Is heavy cannabis use associated with reduced motivation among adolescents? Ileana Pacheco-Colon, Raul Gonzalez, Florida International University, Miami, FL
- 37 Investigating the relationship between perceived availability of marijuana and marijuana use among adolescents in Chile, Argentina, and Uruguay over time

 Julia Schleimer¹, Ariadne Rivera-Aguirre², Alvaro Castillo-Carniglia², Hannah Sybil Laqueur², Silvia Martins¹, Magdalena Cerda², ¹Columbia University, New York, NY, ²University of California Davis, Sacramento, CA
- Medical marijuana laws, dispensary status and design, and past 30-day youth marijuana and heavy marijuana use: A 46 state analysis, 1991-2015
 Julie Johnson¹, Renee Johnson², Abenaa Jones¹, ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD
- 39 Perceptions of primary care services among Veterans with opioid use disorder in the Veterans Health Administration
 Audrey Jones¹, Ying Suo², Adam Gordon², ¹VA Salt Lake City Health Care System, Salt Lake City, UT,

- ²University of Utah, Salt Lake City, UT
- 40 Predictors of nonmedical prescription opioid use in adolescents

 Junhan Cho¹, Lorraine Kelley-Quon², Afton Kechter¹, Adam Leventhal¹, ¹University of Southern California,
 Los Angeles, CA, ²Children's Hospital Los Angeles, Los Angeles, CA
- Peer norms and access to prescription drugs in the home are associated with nonmedical prescription opioid use among adolescents
 Kathleen Egan¹, Eric Gregory², Amy Elliott¹, Linda Cottler¹, ¹University of Florida, Gainesville, FL,
 ²Community Survey Solutions, LLC, Bowling Green, KY
- 42 Association of nonmedical prescription opioid use with subsequent heroin use Initiation in adolescents

 Lorraine Kelley-Quon¹, David Stong², Junhan Cho³, Afton Kechter³, Adam Leventhal³, ¹Children's Hospital

 Los Angeles, Los Angeles, CA, ²University of California San Diego, La Jolla, CA, ³University of Southern

 California, Los Angeles, CA
- Receipt of medications for opioid use disorder among youth: Data from 8 health systems

 Sarah Bagley¹, Laura Chavez², Jordan Braciszewski³, Gavin Bart⁴, Bobbi Jo Yarborough⁵, Gwen Lapham⁶,

 Denise Boudreau⁶, Jeffrey Samet¹, Andrew Saxon⁷, Cynthia Campbell⁸, Kathy Bradley⁶, ¹Boston University

 School of Medicine, Boston, MA, ²Ohio State University, Columbus, OH, ³Henry Ford Health System,

 Detroit, MI, ⁴University of Minnesota, Minneapolis, MN, ⁵Kaiser Permanente Northwest Center for Health

 Research, Portland, OR, ⁶Kaiser Permanente Washington Health Research Institute, Seattle, WA, ⁷VA Puget

 Sound Healthcare System, Seattle, WA, ⁸Kaiser Permanente North California Division of Research, Oakland,

 CA
- 44 Injectors v. non-injectors: Baseline sample differences from a study of vivitrol treatment for youth with opioid use disorder
 Shannon Mitchell¹, Laura Monico¹, Robert Schwartz¹, Jan Gryczynski¹, Kevin O'Grady², Marc Fishman³,
 ¹Friends Research Institute, Baltimore, MD, ²University of Maryland, College Park, MD, ³Mountain Manor Treatment Center, Baltimore, MD
- 45 Substance use and mental health trends in the adolescent population in Ontario, Canada
 Bruna Brands¹, Angela Boak², Robert Mann², Hayley Hamilton², ¹Health Canada, Toronto, ON, Canada,
 ²Centre for Addiction and Mental Health, Toronto, ON, Canada
- Association of concern over societal increases in discrimination with substance use and mental health amongst adolescents during 2016-2017

 Adam Leventhal, Junhan Cho, University of Southern California, Los Angeles, CA
- 47 Does a major depression precursor state influence adolescent-onset heroin use? Epidemiologic case-control evidence
 Alyssa Vanderziel¹, James Anthony², ¹Michigan State University, East Lansing, MI, ²Michigan State University, Lansing, MI
- Depression among adolescent newly incident cannabis users from 2012 to 2015

 Natalie Gukasyan¹, Eric Strain², ¹Johns Hopkins Hospital, Baltimore, MD, ²Johns Hopkins University School of Medicine, Baltimore, MD
- 49 Effects of modes of nicotine administration on depression
 Sophia Holmqvist¹, Sandra Brown², Kevin Cummins², ¹University of California San Diego, CA,
 ²University of California San Diego, La Jolla, CA

POSTER I CANNABINOIDS/THC

- Synthetic cannabinoid AM2201 induces epileptic seizures by enhancing glutamatergic transmission in the hippocampus
 Masahiko Funada¹, Mika Takebayashi-Ohsawa², Tomiyama Kenichi³, ¹NIMH, NCNP, Kodaira, ²NIMH, NCNP, Kodaira, Japan, ³National Center of Neurology and Psychiatry, Kodaira, Japan
- 51 Cannabinoid-like effects of five novel MDMB and FUBINACA synthetic cannabinoids
 Michael Forster, Michael Gatch, University of Texas Health Science Center, Fort Worth, TX
- Synthetic and natural cannabinoid use in relation to psychosis: Evaluation of childhood trauma
 Anahita Bassir Nia¹, Claire Mann¹, Sharron Spriggs¹, Charles Perkel¹, Lingyun Li², Daniel DeFransosco¹,
 Samantha Jankowski¹, Nina-Lucia Rodriguez¹, Hadi Estakhri¹, Anna Oprescu¹, Robert Linhardt³, Igor
 Galynker¹, Yasmin Hurd¹, ¹Icahn School of Medicine at Mount Sinai, New York, NY, ²New York State
 Department of Health, New York, NY, ³Rensselaer Polytechnic Institute, Troy, NY
- 53 Effects of smoked cannabidiol on cardiovascular, subjective and reinforcing effects of smoked THC Leslie Lundahl, Mark Greenwald, Wayne State University, Detroit, MI
- 54 Pilot testing a novel signal-detection task of cannabis-cue attentional bias Joseph Alcorn, William Stoops¹, Craig Rush¹, Joshua Lile², ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- Biological correlates of self-reported new and continued abstinence in cannabis cessation treatment clinical trials
 Nathaniel Baker, Kevin Gray, Brian Sherman, Kristen Morella, Gregory Sahlem, Amanda Wagner, Aimee McRae-Clark, Medical University of South Carolina, Charleston, SC
- Predictors of craving and substance use among patients with alcohol, tobacco, cannabis or opiates addictions:
 Commonalities and specificities across substances
 Fuschia Serre¹, Melina Fatseas², Cecile Denis³, Joel Swendsen⁴, Marc Auriacombe¹, ¹Université de Bordeaux,
 Bordeaux, ²Centre Hospitalier Charles Perrens, Bordeaux, France, ³University of Pennsylvania, Philadelphia,
 PA, ⁴Université de Bordeaux, Bordeaux, France
- 57 Real-time assessment of marijuana craving, mood, and anxiety among college student marijuana users Kristina Phillips, Michael Phillips, Kerry Duck, University of Northern Colorado, Greeley, CO
- Demographic and clinical predictors of treatment retention in a randomized, placebo-controlled trial of quetiapine for Cannabis Use Disorder: A preliminary analysis
 Mariely Hernandez¹, John Mariani², C. Jean Choi³, Daniel Brooks², Frances Levin³, ¹The City University of New York, New York, NY, ²New York State Psychiatric Institute, New York, NY, ³Columbia University and NYSPI, New York, NY
- Assessing cannabis use outcomes in a clinical trial for Cannabis Use Disorder: Self-report, qualitative urine toxicology and quantitative urine toxicology approaches
 Nicolas Schlienz¹, Dustin Lee¹, Erin Martin¹, Ryan Vandrey², ¹Johns Hopkins University School of Medicine, Baltimore, MD, ²Behavioral Pharmacology Research Unit, Johns Hopkins Hospital, Baltimore, MD
- Measuring medicinal cannabis outcomes: Inconsistency between symptom outcome measures and patient perception of benefits
 Mallory Loflin¹, Travis Hyke², Marcel Bonn-Miller³, ¹Veterans Affairs San Diego Healthcare System, San Diego, CA, ²Palo Alto University, Los Altos, CA, ³University of Pennsylvania, Southmont, NC
- Associations between abstinence and reduction in marijuana use and changes in mental and physical health well-being among primary care patients in Los Angeles
 Chukwuemeka Okafor¹, Steve Shoptaw¹, Melvin Rico², Lillian Gelberg², ¹University of California Los Angeles, Los Angeles, CA, ²University of California, Department of Family Medicine, Los Angeles, CA
- Factors related to severe substance use and substance use treatment attendance among hospitalized HIV infected patients: A machine learning approach
 Daniel Feaster¹, Yue Pan¹, Raul Mandler², Petra Jacobs³, Carlos del Rio⁴, Lisa Metsch⁵, ¹University of Miami

- Miller School of Medicine, Miami, FL, ²Center for the Clinical Trails Network NIDA, Bethesda, MD, ³National Institutes of Health, National Institute on Drug Abuse, Center for the Clinical Trials Network, Bethesda, MD, ⁴Emory University, Atlanta, GA, ⁵Columbia University, New York, NY
- 63 Substance use and peer use from adolescence to adulthood in the MTA

 Traci Kennedy¹, Andrea Howard², James Swanson³, John Mitchell⁴, Annamarie Stehli³, Brooke Molina¹,

 ¹University of Pittsburgh, Pittsburgh, PA, ²Carleton University, Department of Psychology, Ottawa, ON,

 Canada, ³University of California Irvine, Irvine, CA, ⁴Duke University School of Medicine, Durham, NC
- Patterns of drug use among gay men and their relationship partners: A latent class analysis
 Gabriel Robles¹, Jeffrey Parsons², Mark Pawson³, Tyrel Starks², ¹Hunter College Center for HIV Educational Studies & Training, New York, NY, ²Hunter College, CUNY, New York City, NY, ³Graduate Center and CHEST, New York, NY
- 65 Cannabis in end-of-life care: Examining the attitudes and practices of palliative care providers
 Rachel Luba¹, Mitch Earleywine¹, Melissa Slavin¹, Stacey Farmer², ¹State University of New York at Albany,
 Albany, NY, ²McLean Hospital, Brain Imaging Center, Belmont, MA
- 66 Potential risks of cannabis vaping and edible use Connor Jones, Madeline Meier, Arizona State University, Tempe, AZ
- 67 Changes in driving under the influence of cannabis in the US from 2001-2002 to 2012-2013
 Bradley Kerridge¹, Roger Pickering², June Ruan², Patricia Chou², ¹NIH, NIAAA, Bethesda, MD, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Driving under the influence of cannabis among medical cannabis patients
 Erin Bonar¹, Brooke Arterberry¹, James Cranford¹, Maureen Walton², Kipling Bohnert², Mark IIgen¹,
 ¹University of Michigan, Ann Arbor, MI, ²University of Michigan, Addiction Center, Ann Arbor, MI
- 69 Evaluating perceived risk of driving under the influence of cannabis and driving behavior

 Jacob Borodovsky¹, Lisa Marsch¹, Emily Scherer², Alan Budney³, ¹Geisel School of Medicine at Dartmouth,

 Hanover, NH, ²Dartmouth College, Hanover, NH, ³Geisel School of Medicine at Dartmouth, Lebanon, NH
- Sex differences in the effects of cannabis on simulated driving performance

 Andrew Fares¹, Justin Matheson¹, Robert Mann¹, Bernard LeFoll¹, Christine Wickens¹, Bruna Brands²,

 ¹Centre for Addiction and Mental Health, Toronto, ON, Canada, ²Health Canada, Toronto, ON, Canada

POSTER I HIV

- 71 Art adherence among opiate addicted patients treated with naltrexone: Oral and implantable
 Tatiana Yaroslavtseva¹, Elena Blokhina¹, Evgeny Krupitsky², Elena Vladimirovna Verbitskaya¹, Edwin
 Zvartau¹, Vladimir Palatkin³, Natalia Bushara³, Robert Gross⁴, George Woody⁴, Sabrina Poole⁴, ¹First Pavlov
 State Medical University of St. Petersburg, St. Petersburg, Russian Federation, ²V.M. Bekhterev National
 Medical Research Center for Psychiatry and Neurology, St. Petersburg, Russian Federation, ³First Pavlov State
 Medical University of St. Petersburg, St. Petersburg, ⁴University of Pennsylvania, Philadelphia, PA
- Mixed-methods study estimating the impact and feasibility of providing HIV antiretroviral treatment (ART) and opioid agonist therapy (OAT) in prison and upon release on HIV incidence among people who inject drugs (PWID) in Tijuana, Mexico
 Annick Borquez¹, Daniela Abramovitz¹, Leo Beletsky², Steffanie Strathdee¹, Natasha Martin¹, ¹University of California San Diego, La Jolla, CA, ²Northeastern University, Boston, MA

- HIV clinic-based buprenorphine versus methadone impact on the HIV care continuum in Vietnam: BRAVO study 6-Month outcomes
 Philip Todd Korthuis¹, Gavin Bart², Lynn Kunkel¹, Thuan Nguyen¹, Giang Le³, ¹Oregon Health & Science University, Portland, OR, ²University of Minnesota, Minneapolis, MN, ³Hanoi Medical University, Hanoi, Viet Nam
- Engaging in the HIV care continuum: Do opioid users differ from those who use other substances?

 Lacey Critchley¹, Adam Carrico¹, Raul Mandler², Petra Jacobs³, Allan Rodriguez¹, Carlos del Rio⁴, Lisa Metsch⁵, Daniel Feaster⁶, ¹University of Miami, Miami, FL, ²Center for the Clinical Trails Network NIDA, Bethesda, MD, ³National Institutes of Health, National Institute on Drug Abuse, Center for the Clinical Trials Network, Bethesda, MD, ⁴Emory University, Atlanta, GA, ⁵Columbia University, New York, NY, ⁶University of Miami Miller School of Medicine, Miami, FL
- 75 HIV continuum of care disparities among Latinos with a history of injection drug use Diana Sheehan, Florida International University, Miami, FL
- Structural determinants of community viral load trends in New York City (2009-2013)
 Amar Mandavia¹, Raksha Kandlur¹, Daniel Samost¹, Videesha Bordoloi¹, Gurmeher Juneja¹, Nabila El-Bassel², ¹Columbia University, Teachers College, New York, NY, ²Columbia University, New York, NY
- Reported substance use and HIV testing among emergency department patients who complete a tablet-based intervention
 Ian Aronson¹, Charles Cleland², Lisa Marsch³, Theodore Bania⁴, ¹Digital Health Empowerment / NDRI, Brooklyn, NY, ²NYU Rory Meyers College of Nursing, New York, NY, ³Geisel School of Medicine at Dartmouth, Hanover, NH, ⁴Mount Sinai School of Medicine, New York, NY
- Interest in HIV PrEP and medications to treat opioid use disorder at a drug detoxification center

 Sabrina Assoumou¹, Samantha Paniagua¹, Curt Beckwith², Jianing Wang³, Jeffrey Samet¹, Jonathan Hall³,

 Benjamin Linas¹, ¹Boston University School of Medicine, Boston, MA, ²Brown University, Providence, RI,

 ³Boston Medical Center, Boston, MA
- Length of time injecting and its association with receptive syringe sharing among persons who inject drugs in Philadelphia, PA
 Jennifer Shinefeld¹, Sarah Bass², Robert Whitaker², Kathleen Brady¹, ¹Philadelphia Department of Public Health, Philadelphia, PA, ²Temple University, Philadelphia, PA
- Prediction of viral suppression and HIV treatment adherence among hospitalized HIV infected patients using supervised learning algorithms
 Yue Pan¹, Lisa Metsch², Raul Mandler³, Petra Jacobs⁴, Carlos del Rio⁵, Daniel Feaster¹, ¹University of Miami Miller School of Medicine, Miami, FL, ²Columbia University, New York, NY, ³Center for the Clinical Trails Network NIDA, Bethesda, MD, ⁴National Institutes of Health, National Institute on Drug Abuse, Center for the Clinical Trials Network, Bethesda, MD, ⁵Emory University, Atlanta, GA
- Do persons with opioid use disorder and injection-related infections really need prolonged hospitalizations to complete intravenous antibiotic therapy?
 Laura Fanucchi¹, Sharon Walsh², Alice Thornton¹, Paul Nuzzo², Michelle Lofwall¹, ¹University of Kentucky, College of Medicine, Lexington, KY, ²University of Kentucky, Lexington, KY
- Effects of reduced drug use on HIV outcomes in primary care patients

 Efrat Aharonovich¹, Malka Stohl², Deborah Hasin³, ¹Columbia University Medical Center, New York, NY,

 ²New York State Psychiatric Institute, New York, NY, ³Columbia University, New York, NY
- Effectiveness of an addiction treatment program integrated in an HIV clinic: Results of a 4-year program in Ho Chi Minh, Vietnam

 Cecile Denis¹, Loan Nguyen², Huy Tran², Song Chi Trung Nguyen³, Vincent Trias², Augustin Voisin⁴, Lisa Huang², Son Mai Thi Hoai⁵, Giang Le Truong⁵, Marc Auriacombe⁶, Jean-Pierre Daulouede⁴, David Metzger¹,

- Charles O'Brien⁷, ¹University of Pennsylvania, Philadelphia, PA, ²Expertise France, France, France, ³Expertise France Vietnam, Ho Chi Minh City, Vietnam, ⁴Bizia Addiction Clinic, Bayonne, ⁵HCMC AIDS Committee, Ho Chi Minh City, Vietnam, ⁶Université de Bordeaux, Bordeaux, ⁷University of Pennsylvania, VA Medical Center, Philadelphia, PA
- The role of nominal group technique in scaling up opioid agonist treatment in Ukraine

 Lynn Madden¹, Anna Meteliuk², Scott Farnum¹, Tetiana Fomenko³, Ruthanne Marcus⁴, Iryna Pykalo⁵,

 Katherine LaMonaca⁴, Declan Barry⁴, Frederick Alice⁴, ¹APT Foundation, Inc., New Haven, CT, ²ICF

 Alliance for Public Health, Kyiv, Ukraine, ³ICF Alliance for Public Health, Kiev, Ukraine, ⁴Yale University

 School of Medicine, New Haven, CT, ⁵Ukrainian Institute on Public Health Policy, Kyiv, Ukraine
- Mortality rate among people who Inject drugs (PWID) in Haiphong, Vietnam: High burden of probable infectious causes
 Nicolas Nagot¹, Don Des Jarlais², the DRIVE Study team¹, ¹University of Montpellier, Montpellier, France, ²Icahn School of Medicine at Mount Sinai, New York, NY
- Bouble stigma among HIV-positive PWID in Russia and health care outcomes
 Karsten Lunze¹, Debbie Cheng¹, Maryia Vetrova², Christine Lloyd-Travaglini¹, Elena Blokhina³, Sally Bendiks⁴, Natalia Gnatienko¹, Jason Luoma⁵, Evgeny Krupitsky⁶, Dmitry Lioznov³, Jeffrey Samet¹, ¹Boston University School of Medicine, Boston, MA, ²First Pavlov State Medical University of St. Petersburg, St. Petersburg, ³First Pavlov State Medical University of St. Petersburg, Russian Federation, ⁴Boston Medical Center, Boston, MA, ⁵Portland Psychotherapy Clinic, Research, & Training Center, Portland, OR, ⁶V.M. Bekhterev National Medical Research Center for Psychiatry and Neurology, St. Petersburg, Russian Federation

POSTER I PRESCRIPTION OPIOIDS

- 87 Development of a brief screening tool to assess prescription opioid dependence
 Suzanne Nielsen¹, Briony Larance², Gabrielle Campbell², Louisa Degenhardt³, Nicholas Lintzeris⁴, Fiona Blyth⁵, Michael Farrell³, Richard Mattick¹, Raimondo Bruno⁶, ¹University of New South Wales, Sydney, Australia, ²University of South Wales, Sydney, Australia, ³National Drug and Alcohol Research Centre, Sydney, Australia, ⁴Drug and Alcohol Services, South Eastern Sydney Local Health District, Surry Hills, Australia, ⁵University of Sydney, Sydney, Australia, ⁶University of Tasmania, Sydney, Australia
- The utility of the pain medication questionnaire to predict aberrant urine drug tests: Results from a prospective cohort study

 Ben Morasco¹, Travis Lovejoy¹, Steven Dobscha¹, Richard Deyo², Megan Iacocca¹, Stephanie Hyde², Bobbi Jo Yarborough³, ¹VA Portland Health Care System, Portland, OR, ²Oregon Health & Science University, Portland, OR, ³Kaiser Permanente Northwest Center for Health Research, Portland, OR
- Comparative effectiveness of non-opioid and long-term opioid therapy for pain and health-related outcomes Ainhoa Coloma-Carmona¹, José Carballo¹, Jesús Rodríguez-Marín¹, Ana Pérez-Carbonell², Carlos Van-der Hofstadt Román¹, Roberto Secades Villa³, Sergio Fernandez-Artamendi⁴, ¹Miguel Hernández University, Elche, Spain, ²General University Hospital of Elche, Elche, Spain, ³University of Oviedo, Oviedo, Spain, ⁴Universidad Loyola Andalucía, Sevilla, Spain
- Non-medical use of prescription drugs and health-related quality of life among the general population in Taiwan: Results from the 2014 National Survey of Substance Use
 Shang-Chi Wu¹, Wen-Ing Tsay², Chuan-Yu Chen³, Jui Hsu², Wei-J Chen⁴, ¹National Taiwan University,

- Epidemiology and Preventive Medicine, Taipei City, Taiwan Food and Drug Administration, Taipei, ³National Yang-Ming University, Taipei, Taiwan, ⁴National Taiwan University, Taipei City
- European opioid addiction treatment survey EUROPAD The France experience
 Manon Chevalier¹, Jean-Pierre Daulouede², Fuschia Serre³, Didier Touzeau⁴, Amine Benyamina⁵, Carolina Baran⁵, Pierre Villeger⁶, Melina Fatseas⁷, Marc Auriacombe³, ¹Université de Bordeaux, Bordeaux, France, ²Bizia Addiction Clinic, Bayonne, ³Université de Bordeaux, Bordeaux, ⁴Addiction Clinic, CH Paul Guiraud, Bagneux, France, ⁵Addiction Clinic, Paul Brousse Hospital, Villejuif, France, ⁶Addiction Clinic, CH Esquirol, Limoges, France, ⁷Centre Hospitalier Charles Perrens, Bordeaux, France
- Opioid prescriptions in the year prior to admission to opioid use disorder treatment
 Gillian Leichtling¹, Daniel Hartung², Kirbee Johnston², Christi Hildebran¹, Philip Todd Korthuis³,
 ¹HealthInsight, Portland, OR, ²Oregon State University/ Oregon Health & Science University College of Pharmacy, Portland, OR, ³Oregon Health & Science University, Portland, OR
- Comparing prescription opioids, methadone, and heroin rates from the treatment episode data set to the RADARS® System Treatment Center Programs

 Heather Olsen¹, Stevan Severtson¹, John Schwarz¹, Matthew Ellis², Theodore Cicero², Richard Dart¹, ¹Rocky Mountain Poison & Drug Center, Denver, CO, ²Washington University, St. Louis, MO
- Differences between misusers of buprenorphine and other prescription opioids

 Howard Chilcoat¹, Andrew Joyce², Silvia Martins³, ¹Indivior Inc., Richmond, VA, ²Venebio Group, LLC,
 North Chesterfield, VA, ³Columbia University, New York, NY
- Prescription opioid sources for misuse in older adults
 Ty Schepis¹, Christian Teter², Sean McCabe³, ¹Texas State University, San Marcos, TX,
 ²Psychopharmacology Consultant, Portland, ME, ³University of Michigan, Ann Arbor, MI
- Sources of prescription drug misuse among US emerging adults
 Sean McCabe¹, Carol Boyd¹, Christian Teter², Brady West¹, Philip Veliz¹, Jason Ford³, Corey Pomykacz³, Ty Schepis⁴, ¹University of Michigan, Ann Arbor, MI, ²Psychopharmacology Consultant, Portland, ME, ³University of Central Florida, Orlando, FL, ⁴Texas State University, San Marcos, TX
- How characteristics of nonmedical prescription opioid use in adolescence relates to substance use disorder symptoms in adulthood
 Philip Veliz¹, John Schulenberg¹, Carol Boyd¹, Ty Schepis², Sean McCabe¹, ¹University of Michigan, Ann Arbor, MI, ²Texas State University, San Marcos, TX
- Prevalence and predictors of driving after prescription opioid use in an adult emergency department sample Aaron Dora-Laskey, Jason Goldstick, Brooke Arterberry, Suni Jo Roberts, Amy Bohnert, Patrick Carter, University of Michigan, Ann Arbor, MI
- 99 Behavioral intervention to reduce opioid overdose among high-risk persons with opioid use disorder: A pilot randomized controlled trial
 Emily Behar¹, Glenn-Milo Santos², Christopher Rowe¹, Talia Rubin¹, Janelle Silvis¹, Eric Vittinghoff²,
 Phillip Coffin¹, ¹San Francisco Department of Public Health, San Francisco, CA, ²University of California San Francisco, San Francisco, CA
- 100 County-level overdose deaths and prescription opioid dispensing patterns in Ohio Erin Winstanley¹, Brian Hendricks¹, Yifan Zhang¹, Cameron McNamee², Alexandria Castracane³, Gordon Smith¹, ¹West Virginia University, Morgantown, WV, ²State of Ohio Board of Pharmacy, Columbus, OH, ³West Virginia University School of Pharmacy, Morgantown, WV
- 101 Prescription drug monitoring programs and opioid overdoses: Exploring sources of heterogeneity

 Alvaro Castillo-Carniglia¹, William Ponicki², Andrew Gaidus², Paul Gruenewald², Brandon Marshall³, David

 Fink⁴, Silvia Martins⁵, Ariadne Rivera-Aguirre¹, Garen Wintemute⁶, Magdalena Cerda¹, ¹University of

- California Davis, Sacramento, CA, ²Prevention Research Center, Pacific Institute for Research and Evaluation, Oackland, CA, ³Brown School of Public Health, Providence, RI, ⁴Columbia University Mailman School of Public Health, New York, NY, ⁵Columbia University, New York, NY, ⁶Violence Prevention Research Program, Department of Emergency Medicine, UC Davis School of Medicine, Sacramento, CA
- The relationship between quantity of cannabis use and prescription opioids misuse in medical cannabis patients
 Mark IIgen¹, Kipling Bohnert², ¹University of Michigan, Ann Arbor, MI, ²University of Michigan, Addiction Center, Ann Arbor, MI
- Stimulant prescription drug misuse types, motives and use disorder symptoms among U.S. young adults Christian Teter¹, Ty Schepis², Cody Black³, Sean McCabe⁴, ¹Psychopharmacology Consultant, Portland, ME, ²Texas State University, San Marcos, TX, ³University of New England, Portland, ME, ⁴University of Michigan, Ann Arbor, MI
- Alcohol use disorder and motives for prescription opioid misuse
 Victoria Votaw¹, R. Kathryn McHugh², Katie Witkiewitz¹, ¹University of New Mexico, Albuquerque, NM,
 ²McLean Hospital, Belmont, MA

POSTER I EPIDEMIOLOGY I

- 105 Opioid misuse among Latino primary care patients in Los Angeles
 Melvin Rico¹, Lillian Gelberg¹, Chukwuemeka Okafor², ¹University of California, Department of Family
 Medicine, Los Angeles, CA, ²University of California Los Angeles, Los Angeles, CA
- Trends in engagement in the cascade of care for opioid use disorders, Vancouver, Canada, 2006-2016
 M. Eugenia Socias¹, Evan Wood², Thomas Kerr², Seonaid Nolan¹, Kanna Hayashi³, Ekaterina Nosova³, julio montaner², MJ Milloy², ¹University of British Columbia, Vancouver, BC, Canada, ²University of British Columbia, Vancouver, ³British Columbia Centre for Excellence in HIV/AIDS, Vancouver
- 107 The impact of cannabis use on patients enrolled in opioid agonist therapy in Ontario, Canada Joseph Eibl, David Marsh, Northern Ontario School of Medicine, Sudbury, ON, Canada
- Estimating the proportion of crimes caused by alcohol and other drugs in Canada, 2007-2014 Matthew Young, Canadian Centre on Substance Abuse, Ottawa, ON, Canada
- Trends in illicit drug use among cigarette smokers in the US, 2002-2014

 Scott Moeller¹, David Fink², Misato Gbedemah³, Deborah Hasin⁴, Sandro Galea⁵, Michael Zvolensky⁶, Renee Goodwin⁷, ¹Stony Brook University, Stony Brook, NY, ²Columbia University Mailman School of Public Health, New York, NY, ³CUNY Graduate School of Public Health and Health Policy, New York, NY, ⁴Columbia University, New York, NY, ⁵Boston University School of Public Health, Boston, MA, ⁶University of Houston, Houston, TX, ⁷The City University of New York, New York, NY
- Zero-inflated Poisson growth curve modeling of substance use among young sexual minority men from ages 18 through 21: The P18 Cohort Study
 Danielle Ompad¹, Stephanie Cook², Richard Marino², Sophia Halkitis², Farzana Kapadia², Perry Halkitis³,
 ¹New York University, College of Public Health, New York, NY, ²New York University College of Global Public Health, New York, NY, ³Rutgers University, Piscataway, NJ
- Educational achievement of monthly marijuana, tobacco, and alcohol users

 Charles Whitmore¹, Susan Mikulich-Gilbertson², Shannon McWilliams², Robin Corley³, Michael Stallings¹,

 John Hewitt¹, Christian Hopfer², ¹University of Colorado, Aurora, CO, ²University of Colorado School of

- Medicine, Aurora, CO, Institute for Behavioral Genetics, Boulder, CO
- Cannabis use and changes in body weight studied prospectively: New estimates for the US Omayma Alshaarawy, James Anthony, Michigan State University, Lansing, MI
- 113 Characterizing the preferences and practices of those who use marijuana for medical purposes Andrew Fiore, Dominique Easterling, University of Florida, Gainesville, FL
- Diverging trends in cannabis and cigarette use among youth with depression in the United States, 2002-2016
 Andrea Weinberger¹, Misato Gbedemah², Renee Goodwin³, ¹Yeshiva University, New York, NY, ²CUNY
 Graduate School of Public Health and Health Policy, New York, NY, ³The City University of New York, New York, NY
- Cannabis use disorder among cannabis users by frequency of use in the USA, 2002–2014

 Julian Santaella-Tenorio¹, Shivani Mantha², Emily Boller¹, Luis Segura¹, Pia Mauro¹, Christine Mauro¹, Silvia Martins¹, ¹Columbia University, New York, NY, ²Columbia University Mailman School of Public Health, New York, NY
- Patterns of past 30 day concurrent use of drugs among varying age cohorts: Self-reported data from community members
 Catherine Woodstock Striley¹, Mirsada Serdarevic¹, Bertha Madras², Henry Young¹, Linda Cottler¹,
 ¹University of Florida, Gainesville, FL, ²McLean Hospital, Belmont, MA
- Analyzing the initiation of marijuana use in adulthood
 Shawnta Lloyd¹, Linda Cottler², Catherine Woodstock Striley², ¹University of Florida, College of Public Health and Health Professions, Gainesville, FL, ²University of Florida, Gainesville, FL
- Neuropsychological impairment in older adult cannabis users Madeline Meier, Arizona State University, Tempe, AZ
- Medicaid expansion and treatment for opioid use disorders in Oregon Dennis McCarty, Yifan Gu, Stephanie Renfro, Robin Baker, Bonnie Lind, Oregon Health & Science University, Portland, OR
- Preventing injection initiation: The challenge of high frequency initiators among people who inject drugs Ricky Bluthenthal¹, Lynn Wenger², Kelsey Simpson¹, Carol Strike³, Alex Kral⁴, ¹Keck School of Medicine University of Southern California, Los Angeles, CA, ²RTI International, San Francisco, CA, ³Dalla Lana School of Public Health University of Toronto, Toronto, ON, Canada, ⁴RTI International, Research Triangle Park, NC
- Reasons for assisting with injection initiation: Results from a large survey of people who inject drugs in Los Angeles and San Francisco, California, 2016/17.
 Kelsey Simpson¹, Alex Kral², Lynn Wenger³, Carol Strike⁴, Ricky Bluthenthal¹, ¹Keck School of Medicine University of Southern California, Los Angeles, CA, ²RTI International, Research Triangle Park, NC, ³RTI International, San Francisco, CA, ⁴Dalla Lana School of Public Health University of Toronto, Toronto, ON, Canada
- Enrollment in medication-assisted treatment and its association with injection initiation assistance in Vancouver, Canada
 Maria Luisa Mittal¹, Sonia Jain², Kanna Hayashi³, M-J Milloy⁴, Kora DeBeck³, Shelly Sun², Dan Werb²,
 ¹University of California San Diego, Division of Infectious Diseases and Global Public Health, La Jolla, CA,
 ²University of California San Diego, La Jolla, CA, ³BC Centre for Excellence in HIV/AIDS, Vancouver,
 ⁴British Columbia Centre for Excellence in HIV/AIDS, Vancouver
- Receipt of medications for opioid use disorder after injection drug associated endocarditis or osteomyelitis
 Simeon Kimmel¹, Alexander Walley¹, Dana Bernson², Thomas Land², Benjamin Linas¹, Marc Larochelle¹,

 Boston University School of Medicine, Boston, MA, ²Massachusetts Department of Public Health, Boston,
 MA

- Trends in receptive syringe sharing and correlates of 'ever' sharing among a cohort of people who inject drugs regularly in Melbourne, Australia
 Danielle Horyniak, Daniel O'Keefe, Penny Hill, Jessica Howell, Paul Dietze, Burnet Institute, Melbourne, Australia
- Men who have sex with men and inject drugs in a Canadian setting

 Ayden Scheim¹, Rod Knight², Hennady Shulha², Ekaterina Nosova³, Kanna Hayashi³, M-J Milloy³, Thomas Kerr⁴, Kora DeBeck³, ¹University of California San Diego, La Jolla, CA, ²British Columbia Centre on Substance Use, Vancouver, BC, Canada, ³British Columbia Centre for Excellence in HIV/AIDS, Vancouver, ⁴University of British Columbia, BC Centre on Substance Use, Vancouver, BC, Canada
- Shooting gallery networks and risk: Women's injection venue affiliation networks in Tijuana, Mexico Brooke West¹, Patricia Gonzalez-Zuniga¹, James Fowler¹, Kimberly Brouwer², Steffanie Strathdee¹, ¹University of California San Diego, La Jolla, CA, ²University of California San Diego, San Diego, CA
- 127 Heroin resurgence: Evidence from a national study of harm reduction among people who inject drugs (PWID)

 Usaneya Perngparn¹, Chitlada Areesantichai¹, Linda Cottler², ¹Chulalongkorn University, Bangkok, Thailand,

 ²University of Florida, Gainesville, FL

POSTER I POLYDRUG ABUSE I

- 128 Factors associated with inability to access health clinics among people who inject drugs in a Canadian setting with universal healthcare
 - Rupinder Brar¹, Seonaid Nolan¹, Ekaterina Nosova², M-J Milloy², Kora DeBeck², Evan Wood³, Kanna Hayashi⁴, ¹University of British Columbia, Vancouver, BC, Canada, ²British Columbia Centre for Excellence in HIV/AIDS, Vancouver, ³University of British Columbia, Vancouver, ⁴Simon Fraser University, Vancouver, BC, Canada
- Do incentives and alerts have a modifying effect on the impact of clients' travel time on continuity after discharge?
 - Deborah Garnick¹, Constance Horgan², Margaret Lee³, Andrea Acevedo⁴, Lee Panas³, Grant Ritter³, Kevin campbell⁵, ¹Brandeis University, Waltham, MA, ²Brandeis University, Heller School for Social Policy and Management, Waltham, MA, ³Institute for Behavioral Health, Brandeis University, Waltham, MA, ⁴Tufts University, Medford, MA, ⁵Behavioral Health Administration, Olympia, WA
- A shared parameter pattern-mixture model as a 'missing not at random' sensitivity analysis for substance use disorder randomized clinical trials
 Sterling McPherson¹, Ekaterina Burduli², David Ihle², Michael Orr³, Crystal Smith⁴, John Roll⁴, ¹Washington State University, Elson S. Floyd College of Medicine, Spokane, WA, ²Washington State University, Spokane, WA, ³Washington State University College of Nursing, Spokane, WA, ⁴Washington State University,
- Combining the WLSMV estimator with multiple imputation for categorical outcomes in substance use disorder randomized clinical trials
 - Ekaterina Burduli¹, David Ihle¹, Michael Orr², Crystal Smith³, John Roll³, Sterling McPherson⁴, ¹Washington State University, Spokane, WA, ²Washington State University College of Nursing, Spokane, WA, ³Washington State University, Pullman, WA, ⁴Washington State University, Elson S. Floyd College of Medicine, Spokane, WA

- Understanding the impact and sources of site differences in a multisite clinical trial of a technology-delivered psychosocial intervention for substance use disorders
 Martina Pavlicova¹, Leila Vaezazizi², Aimee Campbell², Mei-Chen Hu³, Edward Nunes², ¹Columbia University Mailman School of Public Health, New York, NY, ²Columbia University and NYSPI, New York, NY, ³Columbia University, New York, NY
- Examining the influence of individualized homophily over neighbor engagement in those with substance use experience using the social interactome

 Derek Pope, Virginia Tech Carilion Research Institute, Roanoke, VA
- Opioid and benzodiazepine co-use among women associated with binge drinking
 Jennifer Lorvick¹, Barrot Lambdin², Megan Comfort², Alex Kral², ¹RTI International, San Francisco, CA,
 ²RTI International, Research Triangle Park, NC
- Substance use and sleep in pre-deployed US Army soldiers

 Alexxa Bessey¹, Alexa Lopez², Maria St. Pierre³, Lillian Skeiky³, Walter Sowden³, ¹Walter Reed Army
 Institute of Research, Washington, DC, ²US Army Medical Research Directorate-West, Tacoma, WA, ³Walter
 Reed Army Institute of Research, Silver Spring, MD
- Prevalence of clinical insomnia in a residential substance use disorder population

 Denis Antoine¹, Traci Speed², Eric Strain¹, ¹Johns Hopkins University School of Medicine, Baltimore, MD,

 ²Johns Hopkins Hospital, Baltimore, MD
- Leveraging the patient-counselor relationship to reduce sexual risk behavior: Results from a multi-site study in substance use disorder treatment programs
 Mary Hatch-Maillette¹, Robin Harwick¹, Tatiana Masters¹, John Baer², Lynette Wright¹, Blair Beadnell¹, Elizabeth Wells¹, ¹University of Washington Alcohol & Drug Abuse Institute, Seattle, WA, ²VA Puget Sound Healthcare System, Seattle, WA
- Substance use and sexual assault perpetration: The role of mindfulness and empathy
 Quyen Ngo¹, Penny Warmanen², Yasamin Kusunoki³, Erin Bonar², Meredith Philyaw-Kotov², Maureen Walton⁴, ¹University of Michigan Injury Prevention Center, Ann Arbor, MI, ²University of Michigan, Ann Arbor, MI, ³University of Michigan, School of Nursing, Ann Arbor, MI, ⁴University of Michigan, Addiction Center, Ann Arbor, MI
- Non-partner violence perpetration among emerging adults: Relationship between poly-substance use and trait mindfullness

 Jessica Ramirez, Sara Stein, University of Michigan, Ann Arbor, MI
- Systematic review and meta-analysis on the dimensions of anger in men using psychoactive substances
 Helen Laitano¹, Felix Kessler², Thiago Hartmann³, Felix Kessler², Flavio Pechansky², ¹Luiz Englert
 Fundação, Porto Alegre, Brazil, ²Center for Drug and Alcohol Research, Federal University of Rio Grande do
 Sul, Porto Alegre, ³Center for Drug and Alcohol Research, Porto Alegre, Brazil
- Patterns of adverse childhood experiences, impulsivity and problematic substance use in young adulthood Sunny Shin, Shelby McDonald, David Conley, Virginia Commonwealth University, Richmond, VA
- Families in crisis: Understanding the needs of homeless families with parental substance use disorders
 Roya Ijadi-Maghsoodi¹, Michelle Quan¹, Kayleen Ports¹, Sheryl Kataoka², Gery Ryan³, Lillian Gelberg⁴,

 ¹University of California Los Angeles, Los Angeles, CA, ²Semel Institute for Neuroscience and Human
 Behavior (UCLA), Los Angeles, CA, ³RAND Corporation, Arlington, VA, ⁴University of California,
 Department of Family Medicine, Los Angeles, CA
- Vulnerability to higher stress levels in people who use drugs linked to maladaptive coping mechanisms

 Divya Seth¹, Ndeah Terry², Landhing Moran³, David Epstein³, Kenzie Preston³, Karran Phillips⁴, ¹National Institute of Drug Abuse, National Institutes of Health, Baltimore, MD, ²NIAAA Intramural Research Program, Bethesda, MD, ³NIDA Intramural Research Program, Baltimore, MD, ⁴National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD

- 144 The impact of abstinence on distress tolerance trajectories from pre- to 1-year post substance use treatment
 - Elizabeth Reese¹, Christopher Conway², Deepika Anand¹, Daniel Bauer¹, Stacey Daughters¹, ¹University of North Carolina at Chapel Hill, Chapel Hill, NC, ²College of William & Mary, Williamsburg, VA
- Distinct measures of distress tolerance predict success for different health behaviours

 Daisy Thompson-Lake¹, Emma O'Byrne¹, Richard De La Garza, II², Peter Hajek¹, ¹Queen Mary University of London, London, United Kingdom, ²Baylor College of Medicine, Houston, TX
- Food addiction is associated with higher neuroticism, lower conscientiousness, higher impulsivity, but lower extraversion in obese patients candidates for bariatric surgery

 Paul Brunault¹, Pierre-Henri Ducluzeau², Robert Courtois², Céline Bourbao-Tournois², Jérôme Bachellier², Servane Barrault², Damien Maugé², Christian Réveillère³, Ballon Nicols², ¹University Hospital of Tours, Tours, France, ²CHRU de Tours, Clinique Psychiatrique Universitaire, Tours, France, ³Université Francois Rabelais de Tours, Tours, France
- 147 Association between obesity and co-occurring heroin- and nicotine-dependence Lian Hu, Paul VanVeldhuisen, The Emmes Corporation, Rockville, MD
- Acceptability and feasibility of the tobacco, alcohol, prescription medication, and other substance use (TAPS) tool in US primary care patients
 Angeline Adam¹, Robert Schwartz², Li-Tzy Wu³, Geetha Subramaniam⁴, Gaurav Sharma⁵, Eugene Laska¹, Jennifer McNeely¹, ¹New York University School of Medicine, New York, NY, ²Friends Research Institute, Baltimore, MD, ³Duke University School of Medicine, Durham, NC, ⁴National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD, ⁵The Emmes Corporation, Rockville, MD
- Impact of SBI training on health professional students' knowledge and confidence in addressing unhealthy substance use
 Katherine Covington, Yunmi Chung, Aaron Johnson, Augusta University, Augusta, GA
- Impact of a multi-year screening, brief intervention, and referral to treatment (SBIRT) curriculum on medical student attitudes toward patients with substance use disorders
 Jeremy Kidd¹, Jennifer Smith¹, Mei-Chen Hu¹, Adam Bisaga², Edward Nunes¹, Frances Levin¹, ¹Columbia University and NYSPI, New York, NY, ²Columbia University College of Physicians and Surgeons, New York, NY
- Mentorship for addiction problems (MAP)
 Kathlene Tracy¹, Leah Wachtel¹, Emily Goldmann², Samuel Ball³, ¹New York University School of Medicine, New York, NY, ²New York University College of Global Public Health, New York, NY, ³Yale University School of Medicine, New Haven, CT

ANIMALS IN RESEARCH FORUM: TRANSLATIONAL Indigo A AND REVERSE-TRANSLATIONAL RESEARCH IN ADDICTION: HOW HUMAN AND ANIMAL STUDIES MUTUALLY INFORM ONE ANOTHER

Chairs: Mark Smith and Ziva Cooper

Utility of preclinical drug-vs.-food choice procedures to translate effective treatments for drug addiction M. Banks, Virginia Commonwealth University, Richmond, VA

Bi-directional translation of monkey and human methods to develop functionally equivalent cocaine self-administration choice procedures

J. Lile, University of Kentucky, College of Medicine, Lexington, KY

Development of translational models of drug self-administration in humans and non-human primates: Challenges and tribulations

S. Evans, Columbia University and NYSPI, New York, NY

CONFIDENTIALITY FORUM

Indigo D 1:00 - 2:45 PM

Chairs: Jonathan Stoltman and John Roll

Ethical implications of social media in clinical trials

E. Winstanley, West Virginia University, Morgantown, WV

EMA and geospatial data in addiction research

B. Heckman, Medical University of South Carolina, Charleston, SC

Navigating research ethics in the digital age

C. Nebeker, University of California San Diego, La Jolla, CA

Ethical issues using social media in health behavior research

S. Young

Ethics, Addiction Research, and Emerging Technologies

T. Cvrkel, University of California Los Angeles, Los Angeles, CA

ORAL COMMUNICATIONS 2 THERE'S SOMETHING IN MY GENES

Indigo H 2:00 - 4:00 PM

Chairs: Wendy Lynch and Tabitha Moses

- 2:00 Heroin delay discounting and impulsivity: Modulation by DRD1 genetic variation

 Tabitha Moses¹, Margit Burmeister², Mark Greenwald¹, ¹Wayne State University, Detroit, MI, ²University of Michigan, Ann Arbor, MI
- 2:15 Validating electronic health record (EHR)-based prescription opioid phenotypes for genetic discovery Christopher Rentsch¹, E. Jennifer Edelman², Amy Justice³, Brandon Marshall⁴, Henry Kranzler⁵, Ke Xu³, Stephen Crystal⁶, Julie Gaither⁷, Adam Gordon⁸, David Fiellin², Janet Tate³, William Becker³, ¹VA Connecticut Healthcare System, West Haven, CT, ²Yale University School of Medicine, New Haven, CT, ³Yale University, New Haven, CT, ⁴Brown School of Public Health, Providence, RI, ⁵University of Pennsylvania, Philadelphia, PA, ⁶Rutgers University, New Brunswick, NJ, ⁷Yale Center for Medical Informatics, New Haven, CT, ⁸University of Utah, Salt Lake City, UT
- 2:30 Variants in stress-signaling genes NR3C1 and FKBP5 modulate opioid abstinence during buprenorphine (BUP) stabilization and dose tapering
 Mark Greenwald¹, Margit Burmeister², ¹Wayne State University, Detroit, MI, ²University of Michigan, Ann Arbor, MI
- 2:45 Moderation of buprenorphine therapy efficacy for cocaine dependence by variation of the preprodynorphin gene
 David Nielsen¹, Robrina Walker², Mark Harding³, Walter Ling⁴, Thomas Kosten⁵, ¹Baylor College of Medicine, Montgomery, TX, ²University of Texas Southwestern Medical Center, Dallas, TX, ³Baylor College of Medicine, Houston, TX, ⁴University of California Los Angeles, Los Angeles, CA, ⁵Baylor College of Medicine, Bellaire, TX
- 3:00 The efficacy of exercise as in anti-relapse intervention is associated with BDNF and GRM5 gene expression in the prefrontal cortex

 Wendy Lynch, Jean Abel, Tanseli Nesil, University of Virginia, Charlottesville, VA
- 3:15 Prenatal cocaine exposure and cortisol reactivity in early adolescence
 Rina Eiden¹, Douglas Granger², Pamela Schuetze³, Amanda Nickerson¹, ¹State University of New York at
 Buffalo, Buffalo, NY, ²University of California Irvine, Irvine, CA, ³Buffalo State College, Buffalo, NY

- 3:30 Evocative gene-environment correlation underlying aggression and family cohesion in adolescent marijuana use
 - Kit Elam, Danielle Pandika, Laurie Chassin, Ariel Sternberg, Leena Bui, Arizona State University, Tempe, AZ
- 3:45 The Interplay between conduct disorder polygenic score and community disadvantage in predicting marijuana use disorders

 Jill Rabinowitz¹, Rashelle Musci², Adam Milam¹, Kelly Benke¹, Danielle Sisto¹, Nicholas Ialongo³, Brion Maher¹, ¹Johns Hopkins Hospital, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

ORAL COMMUNICATIONS 1 YOU'RE ALWAYS ON MY MIND: PRE-FRONTAL CORTEX IN ADDICTION

Indigo E 3:00 - 5:00 PM

Chairs: Julie McCarthy and Stacey Daughters

- 3:00 Reduced executive control connectivity in women vs. men with chronic and acute nicotine exposure
 Julie McCarthy, Kelly Dumais, Maya Zegel, Amy Janes, McLean Hospital, Harvard Medical School, Belmont,
 MA
- 3:15 Ventromedial prefrontal cortex TMS attenuates smoking cue reactivity in cigarette smokers

 Tonisha Kearney-Ramos¹, Sarah Snider², Warren Bickel³, Colleen Hanlon¹, ¹Medical University of South
 Carolina, Charleston, SC, ²Addiction Recovery Research Center, Roanoke, VA, ³Virginia Tech Carilion
 Research Institute, Roanoke, VA
- 3:30 Transcranial direct current stimulation in nicotine addiction
 Ilse Verveer¹, Danielle Remmerswaal¹, Freddy van der Veen¹, Ingmar Franken², ¹Erasmus University
 Rotterdam, Rotterdam, Netherlands, ²Erasmus University Rotterdam, Rotterdam
- 3:45 Emotion dysregulation in young smokers: Link to connectivity of the raphe nuclei with the amygdala Paul Faulkner, Andrew Dean, Dara Ghahremani, Zoe Guttman, Edythe London, University of California Los Angeles, Los Angeles, CA
- 4:00 Sex differences in corticostriatal local field potentials: Implications for alcohol drinking behavior
 Angela Henricks, Lucas Dwiel, Emily Sullivan, Alan Green, Wilder Doucette, Dartmouth College, Hanover,
 NH
- 4:15 Sex differences in the relationship between basal leptin and alcohol- and food-related reward behaviors: A functional magnetic resonance imaging study.
 Dongju Seo¹, Chloe Larkin¹, Cheryl Lacadie², Marc Potenza¹, Rajita Sinha¹, ¹Yale University School of Medicine, New Haven, CT, ²Department of Radiology, Yale University, New Haven, CT
- 4:30 Effect of non-invasive transcranial alternating currents stimulation (tACS) on inhibitory control among substance users in intensive outpatient substance use treatment

 Stacey Daughters, Jennifer Yi, Rachel Wells, Rachel Phillips, Sydney Baker, Regina Carelli, Flavio Frohlich, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 4:45 Cocaine-related differences in neural loss aversion and the moderating effects of socioeconomic status Andréa Hobkirk¹, Merideth Addicott², Sheri Towe³, Christina Meade³, ¹Penn State College of Medicine, Hershey, PA, ²University of Arkansas for Medical Sciences, Little Rock, AK, ³Duke University School of Medicine, Durham, NC

SYMPOSIUM I WEARABLE/BIOSENSORS IN ADDICTION MEDICINE--FUTURE VISTAS

Indigo A 3:00 - 5:00 PM

Chairs: Scott Lukas and Stephanie Carreiro

3:00	Using biosensors to enhance preclinical models of cannabinoid withdrawal
	C. Paronis, McLean Hospital, Harvard Medical School, Belmont, MA

- 3:25 Wearable biosensors: Novel applications across the spectrum of addiction S. Carreiro, University of Massachusetts Memorial Medical Center, Worcester, MA
- 3:50 Design challenges and implementation of wearable biosensors E. Sazonov, University of Alabama, Birmingham, AL
- 4:15 Geographically-explicit ecological momentary assessment (GEMA): A unifying framework linking sensors and subjective experience.
 T. Kirchner, New York University, New York, NY
- 4:40 Neurons to neighborhoods--How novel biosensors and wearables will impact the future of addiction medicine S. Lukas, McLean Hospital, Harvard Medical School, Belmont, MA

SYMPOSIUM II MARIJUANA: THE CHANGING LEGAL LANDSCAPE AND ITS IMPACT ON OPIOID USE

Indigo BF 3:00 - 5:00 PM

Chairs: Marsha Lopez and Heather Kimmel

- 3:00 Changes in medical and recreational cannabis policies: How do they relate to opioid use, opioid use disorder and opioid overdoses?
 - S. Martins, Columbia University, New York, NY
- 3:25 Prescription opioid misuse among young adult cannabis users in Los Angeles: A longitudinal study S. Lankenau, Drexel University Dornsife School of Public Health, Philadelphia, PA
- 3:50 Do adults with chronic pain use marijuana to reduce use of opioids? Results from Oregon J. Dilley, Oregon Health Authority, Portland, OR
- 4:15 *Marijuana legalization and abuse and overdose of opioid analgesics* Y. Shi, University of California San Diego, La Jolla, CA
- 4:40 *Discussant*B. Fischer, University of Toronto, Toronto, ON, Canada

SYMPOSIUM III NOVEL PSYCHOACTIVE SUBSTANCES: A TRANSLATIONAL SCIENCE APPROACH

Indigo D 3:00 - 5:00 PM

Chairs: Aviv Weinstein and William Fantegrossi

- 3:00 NPs- summary of findings presented, and ideas for future research to address the ongoing NPS phenomenon.
 - W. Fantegrossi, University of Arkansas for Medical Sciences, Little Rock, AK
- 3:25 *Pharmacological effects of synthetic cannabinoids and their pyrolysis products in animal models* B. Thomas, RTI International, Research Triangle Park, NC
- 3:50 *Impaired executive function and brain imaging in fMRI in human synthetic cannabinoid users* A. Weinstein, Ariel University, Ariel, Israel
- 4:15 Preclinical studies on the pharmacology of synthetic cathinones and newer non-cathinone compounds M. Baumann, NIDA Intramural Research Program, Baltimore, MD

4:40 The effects of synthetic cathinones after administration to humans under controlled laboratory conditions M. Farré, Hospital Universitari Germans Trias i Pujol, Badalona, Spain

ORAL COMMUNICATIONS 3 STRESSING HORMONES AND DRUGS: PREGNANCY THROUGH MENOPAUSE

Indigo H 4:15 - 5:15 PM

Chairs: MacKenzie Peltier and Loretta Finnegan

4:15 The effect of sex hormones on smoking cessation across the menopausal transition in a 10-year longitudinal sample
MacKenzie Peltier¹, Philip Smith², Sherry McKee¹, ¹Yale University School of Medicine, New Haven, CT, ²CUNY School of Medicine, New York, NY

- 4:30 Prenatal cigarette and cannabis exposure effects on parenting: Role of postnatal adversity

 Meghan Casey¹, Shannon Shisler¹, Rina Eiden², ¹Research Institute on Addictions, Buffalo, NY, ²State
 University of New York at Buffalo, Buffalo, NY
- 4:45 *Co-occurring tobacco and cannabis use prenatally increases odds of ADHD in kindergarten*Shannon Shisler¹, Rina Eiden², Pamela Schuetze³, ¹Research Institute on Addictions, Buffalo, NY, ²State
 University of New York at Buffalo, Buffalo, NY, ³Buffalo State College, Buffalo, NY
- 5:00 Effects of co-occurring prenatal tobacco and cannabis exposure on cortisol reactivity at early school age
 Pamela Schuetze¹, Shannon Shisler², Rina Eiden³, Douglas Granger⁴, ¹Buffalo State College, Buffalo, NY,

 ²Research Institute on Addictions, Buffalo, NY, ³State University of New York at Buffalo, Buffalo, NY,

 ⁴University of California Irvine, Irvine, CA

PRIMM-SINGLETON AWARDEES RECEPTION

Aqua 310/Terrace 5:00 - 6:00 PM

WORKSHOP I THERAPEUTIC APPLICATIONS AND ABUSE LIABILITY ASSESSMENT OF CANNABIDIOL

Indigo A 7:00 - 9:00 PM

Chairs: Royston Gray and Charles France

Demystifying the legal status of cannabinoids

A. Mead, Greenwich Biosciences, Carlsbad, CA

FDA/CSS view on abuse potential assessment during drug development for cannabinoid therapeutics

D. Chiapperino, Head Controlled Substance Staff, FDA, Silver Spring, MD

An evaluation of the discriminative and reinforcing properties of cannabidiol in rats

D. Heal, RenaSci Ltd, Nottingham, Notts

Assessment of cannabidiol in nonhuman primates

C. France, University of Texas Health Science Center, San Antonio, TX

Cannabidiol: Assessment of human abuse potential

E. Sellers, DL Global Partners Inc., Toronto, ON, Canada

WORKSHOP II

Indigo D

CHARTING THE FUTURE OF HIV RESEARCH AMONG RACIAL/ETHNIC SUBSTANCE USERS: THE NEXT GENERATION OF RESEARCHERS SPEAK 7:00 - 9:00 PM

Chairs: A. Kathleen Burlew and Carmen Masson

Evaluating the psychometric properties of the 15-item condom use self efficacy scale among substance using adults

D. Lanaway, University of Cincinnati, Cincinnati, OH

Condom use barriers among African American substance users: Age and gender differences

C. McCuistian, University of Cincinnati, Cincinnati, OH

Outcome of combined HIV and HCV testing and opportunities for prevention at an acute detoxification center

S. Assoumou, Boston University School of Medicine, Boston, MA

WORKSHOP III

Indigo E 7:00 - 9:00 PM

THE ADOLESCENT BRAIN COGNITIVE DEVELOPMENT (ABCD) STUDY: EMERGING FINDINGS ON SUBSTANCE USE, RISK AND PROTECTIVE FACTORS, AND NEUROIMAGING

Chairs: Mary Heitzeg and Krista Lisdahl

An Introduction and Overview of the ABCD Study and Description of the ABCD Cohort

S. Tapert, University of California San Diego, La Jolla, CA

Early Substance Use Rates and Attitudes: Preliminary Findings from the ABCD Study

K. Lisdahl, University of Wisconsin-Milwaukee, Milwaukee, WI

Culture and Environmental Risk and Protective Factors: Preliminary Findings from the ABCD Study

R. Gonzalez, Florida International University, Miami, FL

Imaging Reward, Emotion and Cognition in the Developing Brain: Preliminary Findings from the ABCD Study

H. Garavan, University of Vermont, Burlington, VT

Discussant

S. Weiss, National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD

WORKSHOP IV NAVIGATING KEY STAGES OF A CAREER IN ADDICTION SCIENCE

Indigo H 7:00 - 9:00 PM

Chairs: Denise Vidot and Pia Mauro

Navigating the pre-doctoral stage

Q. Brown, Rutgers University School of Social Work and School of Public Health, New Brunswick, NJ

Navigating the post-doctoral stage

T. Franklin, University of Pennsylvania, Philadelphia, PA

Navigating an early career in academia

C. Bares, University of Michigan, Ann Arbor, MI

Navigating substance use disorder careers outside of academia

A. Duncan, The Pew Charitable Trusts, Washington, DC

Monday, June 11, 2018

POSTER II DESIGNER DRUGS

BREAKFAST

Sapphire ABC/EFG 8:00 - 10:00 AM

Odd numbered posters manned first hour; Even numbered, second hour

- An investigation of the reinforcing effects of MDMA in rats trained to self-administer heroin. Sharon Smith, Michelle Hallam, David Heal, RenaSci Ltd, Nottingham
- 2 MDMA-like effects of synthetic cathinones Michael Gatch, Michael Forster, University of Texas Health Science Center, Fort Worth, TX
- Reinforcer efficacy of entactogen psychostimulants following extended access self-administration in female rats

 Michael Taffe, Jacques Nguyen, Mehrak Javadi-Paydar, Sophia A. Vandewater, Kevin Creehan, Yanabel Grant, Eric Harvey, Tobin Dickerson, The Scripps Research Institute, La Jolla, CA
- 4 Analysis of neurotransmitter and inflammatory biomarkers during synthetic cathinone self-administration Julie Marusich¹, Delisha Stewart², Bruce Blough¹, ¹RTI International, Research Triangle Park, NC, ²University of North Carolina at Chapel Hill, Chapel Hill, NC
- Evaluation of the interoceptive stimulus effects of the synthetic cathinones, 4-MMC and MDPV, using a three-lever drug discrimination procedure

 Trent Bullock, Amy Goodwin, Lisa Baker, Western Michigan University, Kalamazoo, MI
- Interactions between reinforcement history and drug-primed reinstatement: Studies with MDPV and mixtures of MDPV and caffeine
 Michelle Doyle¹, Agnieszka Sulima², Kenner Rice², Gregory Collins¹, ¹University of Texas Health Science Center, San Antonio, TX, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- 7 Increased executive dysfunction and disinhibition in marijuana and MDMA users compared to controls Kelah Hatcher, University of Wisconsin-Milwaukee, Milwaukee, WI
- 8 MDMA use disorder and other substance use among international MDMA users Nancy Haug, James Sottile, Palo Alto University, Los Altos, CA
- Typical MDMA dose per session differs by lifetime frequency and route of administration James Sottile, Nancy Haug, Palo Alto University, Los Altos, CA
- Establishment of screening method for selective NMDA receptor antagonist using HEK-293 cell line expressing NR1/NR2B
 Tomiyama Kenichi¹, Masahiko Funada², ¹National Center of Neurology and Psychiatry, Kodaira, Japan, ²NIMH, NCNP, Kodaira
- A study on factors of better treatment outcome for patients with new psychoactive-substances-related disorders in specialized clinics or wards for drug dependence in Japan
 Yuko Tanibuchi¹, Toshihiko Matsumoto², Daisuke Funada³, Yasunari Kawasoe⁴, Satoshi Sakakibara⁵, Nobuya Naruse⁶, Shunichiro IKEDA Ikeda⁷, Takashi Sunami⁸, Takeo Muto⁹, Tetsuji Cho¹⁰, ¹Chiba Hospital, Funabashi, Japan, ²National Institute of Mental Health, National Center of Neurology and Psychiatry, Kodaira, Japan, ³Center Hospital, National Center of Neurology and Psychiatry, Kodaira, Japan, ⁴Asahi General Hospital, Asahi, Japan, ⁵Tokyo Metropolitan Matsuzawa Hospital, Setagaya, Japan, ⁶Saitama Psychiatric Medical Center, Kita-adachi-gun, Japan, ⁷Kansai Medical University, Hirakata, Japan, ⁸Okayama Psychiatric Medical Center, Kita-Ku, Japan, ⁹Hizen Psychiatric Center, Kanzaki-gun, Japan, ¹⁰Mie Prefectural Mental Medical Center, Tsu, Japan
- Being online's cracked: The relationship between personality and illicit drug use among online users Hao-Jan Yang, Chung Shan Medical University, Taichung City, Taiwan

Willingness to provide a hair sample for drug testing among electronic dance music party attendees

Joseph Palamar¹, Alberto Salomone², Charles Cleland³, Scott Sherman¹, ¹New York University School of

Medicine, New York, NY, ²Centro Regionale Antidoping e di Tossicologia, Italy, ³NYU Rory Meyers College
of Nursing, New York, NY

POSTER II EPIDEMIOLOGY II

- Trends in adolescent heroin and injection drug use (IDU) in 13 US cities, 1999 to 2015

 Sherri-Chanelle Brighthaupt¹, Julie Johnson², Abenaa Jones², Kristin Schneider¹, Renee Johnson¹, ¹Johns

 Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD, ²Johns Hopkins

 Bloomberg School of Public Health, Baltimore, MD
- 15 *"Reverse Transitions" from injecting to non-injecting drug use during the US opioid epidemic*Don Des Jarlais¹, Kamyar Arasteh¹, Courtney McKnight¹, Jonathan Feelemyer¹, David Barnes¹, Susan Tross²,

 ¹Icahn School of Medicine at Mount Sinai, New York, NY, ²Columbia University, New York, NY
- Transition from prescription opioid misuse to injection drug use in social networks of youth and young adults Alia Al-Tayyib¹, Stephen Muth², Paula Riggs³, ¹Denver Public Health, Denver, CO, ²Quintus-ential Solutions, Colorado Springs, CO, ³University of Colorado School of Medicine, Aurora, CO
- 17 A mutoscope view of heroin incidence from mid-teens to mid-thirties
 Prashanti Boinapally, James Anthony, Michigan State University, Lansing, MI
- Medication-assisted treatment for opioids among veterans being treated for pain Lisham Ashrafioun, Kristin Falbo, Wilfred Pigeon, VA VISN 2 Center of Excellence for Suicide Prevention, Canandaigua, NY
- High-dose opioid prescribing is associated with an increased risk of heroin use among US veterans
 Geetanjoli Banerjee¹, E. Jennifer Edelman², Declan Barry², Stephen Crystal³, Julie Gaither⁴, Kirsha Gordon⁵,
 Robert Kerns⁶, Ajay Manhapra⁷, Brent Moore², David Fiellin², Brandon Marshall¹, ¹Brown School of Public
 Health, Providence, RI, ²Yale University School of Medicine, New Haven, CT, ³Rutgers University, New
 Brunswick, NJ, ⁴Yale Center for Medical Informatics, New Haven, CT, ⁵VA Connecticut Healthcare System,
 West Haven, CT, ⁶Yale University School of Medicine, West Haven, CT, ⁷Yale School of Medicine, Norfolk,
- Negative non-deployment emotions associated with substance use among never-deployed reserve soldiers Rachel Hoopsick, D. Lynn Homish, Bonnie Vest, Jessica Kulak, Gregory Homish, State University of New York at Buffalo, Buffalo, NY
- 21 The impact of buprenorphine and methadone on mortality: A primary care cohort study in the United Kingdom Miranda Cuming, University of Bristol, Bristol, UK
- 22 Opioid tapering and discontinuation patterns in a large Colorado health system: 2012-2016 Ingrid Binswanger, Komal Narwaney, Jason Glanz, Kaiser Permanente Colorado, Denver, CO
- 23 A survey study characterizing use of kratom (Mitragyna speciosa) Albert Garcia-Romeu, Kelly Dunn, Roland Griffiths, Johns Hopkins University School of Medicine, Baltimore, MD
- 24 Characteristics of problematic users of trihexyphenidyl in a French overseas territory
 Gaetan Tomas-Bouil-Broto¹, Laurent Blum¹, Michel Spodenkiewicz¹, David Mété², Jean-Marc Alexandre³,
 Fuschia Serre³, Melina Fatseas⁴, Marc Auriacombe³, ¹CHU Sud Reunion, University of Reunion, Saint-Pierre,
 ²Addiction Clinic, CHU Félix Guyon, Saint-Denis, France, ³Université de Bordeaux, Bordeaux, ⁴Centre Hospitalier Charles Perrens, Bordeaux, France

- 5-Methoxy-N,N-dimethyltryptamine (5-MeO-DMT): Patterns of use, motives for consumption, and acute subjective effects
 Alan Davis¹, Joseph Barsuglia², Rafael Lancelotta³, Robert Grant⁴, Elise Renn², ¹Johns Hopkins Hospital, Baltimore, MD, ²Crossroads Treatment Center, Mexico, ³University of Wyoming, Laramie, WY, ⁴University of California San Francisco, San Francisco
- Assessing differential risks of cocaine dependence problems based on cocaine onset lag-times Madhur Chandra¹, James Anthony², ¹Michigan State University, East Lansing, MI, ²Michigan State University, Lansing, MI
- Cocaine use among emerging adults in the united states: Trends by race, sex, and college enrollment in the national survey on drug use and health (2002-2014)
 Kristin Schneider¹, Julie Johnson², Renee Johnson¹, ¹Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 28 Past-month substance use by sexual identity among american adult women Emily Greene, Silvia Martins, Columbia University, New York, NY
- Suicide attempts and death among heroin-involved women seeking methadone treatment in Taiwan Wan-Ting Chen¹, I-An Wang², Sheng-Chang Wang³, Chuan-Yu Chen⁴, ¹National Health Research Institutes, Zhunan, Taiwan, ²Center of Neuropsychiatric Research, National Health Research Institutes, Miaoli, ³National Health Research Institutes, Zhunan, ⁴National Yang-Ming University, Taipei, Taiwan
- 30 Of substance: Stressful life events and substance use in a national sample Carol Boyd, Stephen Strobbe, Brady West, Sean McCabe, University of Michigan, Ann Arbor, MI
- Beyond percent days abstinent: Quality of life indices as a function of time in recovery in a nationally representative sample of US adults
 M. Claire Greene¹, Brandon Bergman², John Kelly², ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ²Massachusetts General Hospital, Boston, MA
- Item Response Theory analyses of DSM-5 substance criteria: Comparison of active substance users seeking treatment and those in harm reduction settings
 Marc Auriacombe¹, Charlotte Kervran¹, Fuschia Serre¹, Cecile Denis², Perrine Roux³, Marie Jauffret-Roustide³, Laurence Lalanne⁴, Melina Fatseas⁵, Jean-Pierre Daulouede⁶, ¹Université de Bordeaux, Bordeaux, ²University of Pennsylvania, Philadelphia, PA, ³INSERM, Marseille, ⁴University Hospital of Strasbourg, Strasbourg, ⁵Centre Hospitalier Charles Perrens, Bordeaux, France, ⁶Bizia Addiction Clinic, Bayonne
- From DSM-IV to DSM-V alcohol-use disorders among university students from Lebanon: Epidemiological and clinical implications
 Lilian Ghandour, Sirine Anouti, American University of Beirut, Beirut
- The neighborhood retail environment & pedestrian injury risk: The unique role of alcohol outlets

 Elizabeth Nesoff¹, Adam Milam², Charles Branas¹, Silvia Martins¹, Debra Furr-Holden³, ¹Columbia

 University, New York, NY, ²Johns Hopkins Hospital, Baltimore, MD, ³Michigan State University, Flint, MI
- Who gets cleared for opioid detoxification trials: From the window of apathy or trauma
 Alison Oliveto¹, Prasad Padala², Jeff Thostenson¹, Michael Mancino¹, ¹University of Arkansas for Medical Sciences, Little Rock, AK, ²Eugene J. Towbin Veterans Healthcare Center, North Little Rock, AK

POSTER II ETHNIC DISPARITIES

- Treatment completion outcomes for opioid users: Are there racial and ethnic disparities across large us metropolitan areas?
 - Jerry Stahler, Jeremy Mennis, Temple University, Philadelphia, PA
- 37 Differences associated with injection drug use (IDU) vs non-IDU among black heroin users in an urban setting
 Joi-Sheree' Knighton¹, Mark Greenwald², ¹Wayne State University School of Medicine, Detroit, MI, ²Wayne State University, Detroit, MI
- Heroin and non-medical prescription opioid use trends in young adults by race/ethnicity, education, and psychological distress between 2005-2014

 Leila Vaezazizi¹, Meghan Cahill², Pia Mauro³, Luis Segura³, Julian Santaella-Tenorio³, Silvia Martins³,

 Columbia University and NYSPI, New York, NY, ²Columbia University Mailman School of Public Health, New York, NY, ³Columbia University, New York, NY
- 39 Trauma, race/ethnicity and risk for su and sud among florida justice-involved children Micah Johnson, Linda Cottler, University of Florida, Gainesville, FL
- Childhood risk factors to early onset cannabis use among African American and European American adolescents
 Manik Ahuja¹, Kathleen Bucholz², ¹Postdoctoral Research Scholar, St. Louis, MO, ²Washington University School of Medicine, St. Louis, MO
- Social capital predicts cigarette smoking in majority white counties, but not counties that are majority African American, Latina/o, or American Indian/Alaska native
 Nathan Smith, Kathleen Egan, Micah Johnson, Linda Cottler, University of Florida, Gainesville, FL
- 42 Examining the relationship of disordered eating and substance use among adolescent females
 Alia Rowe, Tamika Zapolski, Indiana University Purdue University Indianapolis, Indianapolis, IN
- Why now? Examining antecedents for substance use initiation among African American adolescents

 Tamika Zapolski¹, Tianyi Yu², Gene Brody², Devin Banks¹, Allen Barton², ¹Indiana University Purdue

 University Indianapolis, Indianapolis, IN, ²University of Georgia, Athens, GA

POSTER II D PROGRAM DESCRIPTION

- 44 A model to integrate tobacco-free workplace programs into substance use treatment centers

 Virmarie Correa-Fernandez¹, Daniel Connor¹, Bryce Kyburz², Isabel Martinez Leal¹, Teresa Williams²,

 Kathleen Casey², William Wilson², Shaili Bhavsar¹, Hiroe Okamoto¹, Ezemenari Obasi¹, Lorraine Reitzel¹,

 ¹University of Houston, Houston, TX, ²Integral Care, Austin, TX
- 45 Smartphone-based financial incentives to promote smoking cessation among pregnant women

 Allison Kurti¹, Alex Cohen², Stephen Higgins¹, ¹University of Vermont, Burlington, VT, ²University of Vermont, Burlington
- Implementation of a substance use-focused ambulatory "ICU" for primary care: the The streamlined unified meaningfully managed interdisciplinary team (SUMMIT)
 Brian Chan¹, Matthew Mitchell², Philip Todd Korthuis¹, ¹Oregon Health & Science University, Portland, OR,
 ²Central City Concern, Portland, OR
- North Campus: Integrating primary and behavioral healthcare for individuals with substance use disorders Jim May, Dawn Farrell-Moore, Neal Masri, Sara Hilleary, Richmond Behavioral Health Authority, Richmond, VA
- 48 Public Health Assessment via Structural Evaluation (PHASE): A structure-based approach for assessing the abuse potential of designer drugs
 Christopher Ellis¹, Naomi Kruhlak², Greg Hawkins², Lidiya Stavitskaya², ¹U.S. Food and Drug Administration, Columbia, MD, ²U.S. Food and Drug Administration, Silver Spring, MD

- 49 Adapting an addiction technology transfer model to address HIV and injection drug use in Ukraine Anna Blyum¹, Igor Koutsenok¹, David Grelotti², Sherry Larkins³, Irina Pinchuk⁴, Yulia Yachnik⁴, ¹University of California San Diego, San Diego, CA, ²University of California San Diego, San Diego, Zimbabwe, ³University of California Los Angeles, Los Angeles, CA, ⁴International Addiction Technology Transfer Center in Ukraine, San Diego, CA
- The rise of overdose deaths involving fentanyl and the value of early warning Zachary Patterson, Bridget Hall, Matthew Young, Canadian Centre on Substance Abuse, Ottawa, ON, Canada
- Development of a qualitative coding methodology to assess motivations for use of suboxone film Natasha Oyedele, Taryn Dailey-Govoni, Michael Behling, Inflexxion, Inc., Waltham, MA
- 52 Successful retention strategies for participants in opioid-dependence research in NYC

 Peter Greco¹, Sarah Meyers-Ohki¹, Amber Regis¹, Rosemary Lopez¹, Jan Garcia¹, Ryan McCormack¹,

 Michael Bogenschutz², ¹New York University School of Medicine, New York, NY, ²New York University,

 New York
- Academic detailing intervention in primary care: Addressing opioid prescribing
 Sarah Ball¹, Megan Pruitt¹, Jenna McCauley¹, Jingwen Zhang¹, William Moran¹, Kit Simpson¹, Khosrow Heidari², Kathleen Brady¹, Patrick Mauldin¹, ¹Medical University of South Carolina, Charleston, SC, ²South Carolina Department of Health and Environmental Control, Columbia, SC
- 54 Hub and spoke model to improve pharmacotherapy use for opioid addiction early implementation Sharon Reif¹, Mary Brolin¹, Maureen Stewart², ¹Brandeis University, Heller School for Social Policy and Management, Waltham, MA, ²Brandeis University, Waltham, MA
- Rationale for combination of XR-naltrexone and bupropion for the treatment of methamphetamine use disorder in the NIDA CTN--0068 ADAPT-2 Trial
 Adriane dela Cruz¹, Larissa Mooney², Robrina Walker¹, Maureen Hillhouse³, Madhukar Trivedi¹, Walter Ling⁴, ¹University of Texas Southwestern Medical Center, Dallas, TX, ²UCLA Integrated Substance Abuse Programs, Los Angeles, CA, ³New York University, New York, NY, ⁴University of California Los Angeles, Los Angeles, CA
- NIDA CTN Protocol 0068: Design of the accelerated development of additive pharmacotherapy treatment (ADAPT-2) for methamphetamine use disorder trial
 Robrina Walker¹, Mora Kim¹, Gaurav Sharma², Thomas Carmody¹, Steven Sparenborg³, Adriane dela Cruz¹, Walter Ling⁴, Madhukar Trivedi¹, ¹University of Texas Southwestern Medical Center, Dallas, TX, ²The Emmes Corporation, Rockville, MD, ³Arete Addiction Services and Arete Products, Dallas, TX, ⁴University of California Los Angeles, Los Angeles, CA
- Initiation of STAMPOUT: Study of antibody for methamphetamine outpatient therapy in recreational methamphetamine abusers
 Ryan Turncliff¹, Lynn Webster¹, Misty Stevens², W. Gentry³, ¹PRA Health Sciences, Salt Lake City, UT, ²InterveXion Therapeutics, Little Rock, AR, ³University of Arkansas for Medical Sciences, Little Rock, AK
- Towards detecting cocaine use using smartwatches in the NIDA Clinical Trials Network: Rationale, design, and methodology

 Bethany McLeman¹, August Holtyn², Lisa Marsch³, Santosh Kumar⁴, Emre Ertin⁵, Kenzie Preston⁶, Shahin Samiei⁴, Andrea Meier⁷, Elizabeth Saunders⁸, Julia Collins⁹, Dikla Blumberg⁹, Jennifer McCormack⁹, Udi Ghitza¹⁰, Olivia Walsh¹¹, ¹Northeast Node of the CTN/Dartmouth College, Lebanon, NH, ²Johns Hopkins University School of Medicine, Baltimore, MD, ³Geisel School of Medicine at Dartmouth, Hanover, NH, ⁴University of Memphis, Memphis, TN, ⁵Ohio State University, Columbus, OH, ⁶NIDA Intramural Research Program, Baltimore, MD, ⁷Geisel School of Medicine at Dartmouth, Lebanon, NH, ⁸The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH, ⁹The Emmes Corporation, Rockville, MD, ¹⁰National Institutes of Health, National Institute on Drug Abuse, Center for the Clinical Trials Network, Bethesda, MD,

- ¹¹Dartmouth College, Hanover, NH
- Australian centre for cannabinoid clinical and research excellence (ACRE): A novel multidisciplinary approach to evidence development and translation
 Jan Copeland¹, Nadia Solowij², Jennifer Martin³, ¹University of South Wales, Sydney, ²University of Wollongong, Wollongong, Australia, ³University of Newcastle, Callaghan, Australia
- 60 Twitter-based intervention for young adult African American blunt smokers
 LaTrice Montgomery, University of Cincinnati, College of Medicine, Cincinnati, OH
- 61 Preparing post-graduate trainees to deliver team-based primary care to homeless veterans
 Lillian Gelberg¹, Michael Soh², Kristin Kopelson², Kerri Schutz², Brianna Cowan², Margaret Stuber²,
 Shinobu Seragaki², Andrew Shaner², Carole Warde², ¹University of California, Department of Family
 Medicine, Los Angeles, CA, ²Greater Los Angeles VA, Los Angeles, CA
- 62 Building health homes for clients in treatment for substance use disorders
 Elizabeth Waddell¹, Tracy Anastas², Gretchen Horton-Dunbar¹, ¹Oregon Health & Science University,
 Portland, OR, ²School of Science, IUPUI, Indianapolis, IN
- 63 Counteracting reflexive, dehumanizing responses
 Michael Soh¹, Andrew Shaner¹, Lillian Gelberg², Kristin Kopelson¹, Margaret Stuber¹, Carole Warde¹,
 ¹Greater Los Angeles VA, Los Angeles, CA, ²University of California, Department of Family Medicine, Los Angeles, CA
- 64 The impact of substance use disorders on diabetes quality of care measures

 Blanca Noriega Esquives¹, Rui Duan¹, Daniel Feaster², Viviana Horigian¹, ¹University of Miami, Miami, FL,

 ²University of Miami Miller School of Medicine, Miami, FL
- 65 Sex-specific neurobiological differences in substance addiction: An educational pilot program for next generation STEM workforce
 Philip Vieira, CSU Dominguez Hills, Carson, CA
- Introducing the NIDA core center of excellence in omics, systems genetics, and the addictome
 Laura Saba¹, Saunak Sen², Robert Williams³, ¹University of Colorado Anschutz Medical Campus, Aurora,
 CO, ²Departments of Preventive Medicine, and Genetics Genomics and Informatics, University of Tennessee,
 Memphis, TN, ³University of Tennessee Health Science Center, Memphis, TN

POSTER II STIMULANTS: PRECLINICAL II

- 67 Tat-GluR23Y peptide disrupts the methamphetamine-associated memory and reduces long-term relapse Xiaojie Zhang, Central South University, Changsha, China, China
- 68 Profile of dasotraline in rats trained to discriminate d-amphetamine from saline compared with various drugs used to treat ADHD
 Jane Gosden¹, Nigel Slater¹, David Heal², Tracy Deats³, Seth C. Hopkins³, Kenneth Koblan³, ¹RenaSci Ltd, Nottingham, United Kingdom, ²RenaSci Ltd, Nottingham, ³Sunovion Pharmaceuticals Inc, Marlborough, MA
- Dasotraline is a monoamine reuptake inhibitor not a releasing agent as revealed by tetrodotoxin (TTX) sensitivity in microdialysis in the nucleus accumbens of freely-moving rats

 David Heal¹, Rajiv Kulkarni², Lucy Pinder², Helen Rowley², Tracy Deats³, Seth C. Hopkins³, Kenneth Koblan³, ¹RenaSci Ltd, Nottingham, ²RenaSci Ltd, Nottingham, United Kingdom, ³Sunovion Pharmaceuticals Inc, Marlborough, MA
 - Enhanced acquisition of cocaine self-administration in male and female rats following amphetamine exposure during adolescence

- 70 Enhanced acquisition of cocaine self-administration in male and female rats following amphetamine exposure during adolescence
 - Ryan Lacy, Hannah Schorsch, Bridget Austin, Franklin and Marshall College, Lancaster, PA
- 71 Identification of neural circuits recruited during withdrawal from methamphetamines using whole brain imaging
 Adam Kimbrough¹, Andres Collazo², Marsida Kallupi¹, Olivier George¹, ¹The Scripps Research Institute, La Jolla, CA, ²Caltech Bioimaging Facility, Pasadena, CA
- Associations between perceived stress and poor everyday functioning in methamphetamine (METH) dependence and/or HIV infection
 Mariam Hussain¹, Jennifer Iudicello¹, Erin Morgan¹, Igor Grant², Robert Heaton¹, ¹University of California San Diego, San Diego, CA, ²University of California San Diego, La Jolla, CA
- 73 Unraveling individual differences in the HIV-1 transgenic rat: Therapeutic efficacy of methylphenidate Steven Harrod, Kristen McLaurin, Hailong Li, Rosemarie Booze, Amanda Fairchild, Charles Mactutus, University of South Carolina, Charleston, SC
- 74 The impact of sex and exercise on methamphetamine preference in a rat animal model Mari Purpura, University of California Santa Barbara, San Francsico, CA
- 75 The role of E3 ligase parkin deficit in vulnerability to abuse methamphetamine Anna Moszczynska, Wayne State University, Detroit, MI
- The effect of Hnrnph1 deletion upon reinforcement varies as a function of the reinforcer

 Elissa Fultz¹, Qui Ruan², Neema Yazdani², Nicholas Stailey¹, Sami Ferdousian¹, Elijah Lustig¹, Aidan

 Healy¹, Camron Bryant², Karen Szumlinski¹, ¹University of California Santa Barbara, Santa Barbara, CA,

 ²Boston University School of Medicine, Boston, MA
- 77 *Cardiovascular safety of dopamine D3 receptor antagonists and cocaine*Nathan Appel, Jane Acri, National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Neurochemical and cardiovascular effects of beta-methyl phenethylamine analogs found in dietary supplements

 Charles Schindler¹, Eric Thorndike¹, Kenner Rice², Michael Baumann¹, ¹NIDA Intramural Research Program, Baltimore, MD, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Caffeine dose-dependently increases sign tracking and decreases goal tracking in a Pavlovian conditioned approach paradigm
 Curtis Bradley, Caleb Bailey, Dustin Harryman, Gerald Deehan, Jr., Matthew Palmatier, East Tennessee State University, Johnson City, TN

POSTER II IMAGING

- "The amygdala gets what the amygdala wants": Amygdalar activation by 6 second cocaine videos predicts relapse, and fully mediates outcome prediction by the positive affective bias to implicit cocaine cues.

 Anna Rose Childress¹, Kanchana Jagannathan¹, Paul Regier¹, Jesse Suh¹, Ron Ehrman¹, Stefanie Darnley¹, Elliott Berkowitz-Sturgis¹, Zach Monge¹, Teresa Franklin¹, Reagan Wetherill¹, Daniel Langleben², Kimberly Young¹, Michael Gawrysiak³, Regina Szucs-Reed¹, Kyle Kampman¹, Charles O'Brien⁴, ¹University of Pennsylvania, Philadelphia, PA, ²Veterans Administration, Philadelphia, PA, ³West Chester University of Pennsylvania, West Grove, PA, ⁴University of Pennsylvania, VA Medical Center, Philadelphia, PA
- Examining the relationship between dopamine 2 (D2) receptor availability, early life stress (ELS), and vulnerability to the reinforcing effects of cocaine in male and female rhesus macaques.
 Alison Wakeford¹, Jonathon Nye², Mar Sanchez³, Leonard Howell², ¹Yerkes National Primate Research Center, Atlanta, GA, ²Emory University, Atlanta, GA, ³Yerkes National Primate Research Center & Emory University, Atlanta, GA

- White matter abnormalities in cocaine use disorder: are there differences between snorted cocaine and crack cocaine users?

 Mauricio Serpa¹, Fabio Duran¹, Hercílio Pereira de Oliveira Junior², Priscila Goncalves¹, Caio Vinícius de
 - Melo³, Mariella Ometto², Bernardo dos Santos¹, André Malbergier², Ricardo Amaral², Sergio Nicastri⁴, Arthur Andrade², Geraldo Busatto Filho⁵, Paulo Jannuzzi Cunha⁵, ¹University of São Paulo, São Paulo, Brazil, ²University of Sao Paulo Medical School, São Paulo, Brazil, ⁴Hospital Israelita Albert Einstein, Sao Paulo, Brazil, ⁵University of Sao Paulo, Brazil
- Distinct patterns of resting state functional connectivity among inpatients reporting crack use versus snorted cocaine use

 Priscila Dib Gonçalves¹, Luciano de Menezes Sanchez², Pedro Rosa¹, Hercílio Pereira de Oliveira Junior³, Danielle Lima², Maya Foigel², Mariella Ometto³, Caio Vinícius de Melo⁴, Ricardo Amaral³, André Malbergier³, Sergio Nicastri⁵, Arthur Andrade³, Geraldo Busatto Filho², Paulo Jannuzzi Cunha², ¹University of São Paulo, São Paulo, Brazil, ²University of Sao Paulo Medical School, São Paulo, Brazil, ³University of Sao Paulo, Brazil
- Naltrexone reduces striatal resting state functional connectivity in people with methamphetamine use disorder Milky Kohno, Laura Dennis, William Hoffman, Holly McCready, Philip Todd Korthuis, Oregon Health & Science University, Portland, OR
- 85 Using dynamic contrast enhanced MRI to measure methamphetamine's effects on blood brain barrier permeability
 Mudassir Mumtaz¹, Jermaine Jones², Alayar Kangarlu³, Verena Metz⁴, Jeanne Manubay⁵, Shanthi Mogali⁴, Diana Martinez³, Henrik Larsson⁶, Feng Liu³, Sandra Comer⁴, ¹CUNY School of Medicine, New York, NY, ²Columbia University College of Physicians and Surgeons, New York, NY, ³New York State Psychiatric Institute, New York, NY, ⁴Columbia University and NYSPI, New York, NY, ⁵Columbia University, New York, NY, ⁶Danish Research Center of Magnetic Resonance, Hvidovre, Denmark
- An effective connectivity study of emotion processing in cannabis use disorder

 Liangsuo Ma¹, Joel Steinberg¹, James Bjork¹, Lori Keyser-Marcus¹, Jasmin Vassileva¹, Sergi Ferré², Antonio Abbate¹, F. Gerard Moeller¹, ¹Virginia Commonwealth University, Richmond, VA, ²NIDA Intramural Research Program, Baltimore, MD
- 87 Neuromodulation of functional connectivity in emerging adults with cannabis use disorder
 Michael Wesley¹, Qiang (Shawn) Cheng², Anil C², Joshua Lile¹, ¹University of Kentucky, College of
 Medicine, Lexington, KY, ²University of Kentucky, Lexington, KY
- The effects of synthetic cannabinoids (SCs) on the brain's structure and function

 Aviv Weinstein¹, Abigail Livny², Koby Cohen¹, Niv Tik³, Paola Roska⁴, ¹Ariel University, Ariel, Israel,

 ²Sheba Medical Center, Tel Hashomer, Israel, ³Tel Hashomer Hospital, Tel Hashomer, Israel, ⁴Ministry of Health, Jerusalem, Israel
- Relationship between fMRI response during a nonverbal memory task and marijuana use in college students Alecia Dager¹, Madelynn Tice², Gregory Book³, Sarah Raskin⁴, Howard Tennen⁵, Carol Austad⁶, Rebecca Wood⁷, Carolyn Fallahi⁷, Keith Hawkins⁸, Godfrey Pearlson⁸, ¹Yale University, New Haven, CT, ²Yale University School of Public Health, Hartford, CT, ³Olin Neuropsychiatry Research Center, Hartford Hospital, Hartford, CT, ⁴Trinity College, Hartford, CT, ⁵University of Connecticut Health Center, Farmington, CT, ⁶Center Connecticut State University, New Britain, CT, ⁸Yale University Department of Psychiatry, Hartford, CT
- Increased mean diffusivity is associated with greater past month cannabis use in emerging adults, but not alcohol or same-day alcohol and cannabis use
 Natasha Wade¹, Alicia Thomas¹, Staci Gruber², Susan Tapert³, Francesca Filbey, Krista Lisdahl¹, ¹University

- of Wisconsin-Milwaukee, Milwaukee, WI, ²McLean Hospital, Harvard Medical School, Belmont, MA, ³University of California San Diego, La Jolla, CA
- Slow-wave sleep disruption is associated with increased insula activity during inhibitory control in adolescents
 Lora Cope¹, Meghan Martz¹, Deirdre Conroy¹, Philip Cheng², Robert Hoffman¹, J. Todd Arnedt¹, Mary Heitzeg¹, ¹University of Michigan, Ann Arbor, MI, ²Henry Ford Health System, Detroit, MI
- Nicotine effects on white matter microstructure in male and female young adults Megan Kangiser, Alicia Thomas, Christine Kaiver, Krista Lisdahl, University of Wisconsin-Milwaukee, Milwaukee, WI
- Decreased regional gray matter volume in male adolescents with substance use disorder and limited prosocial emotions

 Janet Kim¹, Susan Mikulich-Gilbertson², Manish Dalwani², Kristen Raymond¹, Shannon McWilliams²,

 Joseph Sakai², ¹University of Colorado, Aurora, CO, ²University of Colorado School of Medicine, Aurora, CO
- 44 Larger volume in reward-related temporal lobe regions is associated with impulsivity and craving in cigarette smokers
 - Yasmin Mashhoon, Jennifer Betts, Scott Lukas, McLean Hospital, Harvard Medical School, Belmont, MA
- Lower cortical dopamine D2 receptor availability in smokers compared to nonsmokers and the relationship to cognitive function
 Yasmin Zakiniaeiz¹, Ansel Hillmer¹, Evan Morris¹, David Matuskey¹, Nabeel Nabulsi¹, Yiyun Henry Huang¹, Sherry McKee², Kelly Cosgrove¹, ¹Yale University, New Haven, CT, ²Yale University School of Medicine, New Haven, CT
- 26 Lighting up: Neural responses to cigarette smoking
 Ariel Ketcherside¹, Kanchana Jagannathan¹, Nathan Hager², Danielle Pelosi³, Stefanie Darnley¹, Fan Nils Yang¹, H Rao¹, John Detre¹, Sudipto Dolui⁴, Teresa Franklin¹, Reagan Wetherill¹, ¹University of Pennsylvania, Philadelphia, PA, ²Old Dominion University, Norfolk, VA, ³Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, ⁴Department of Radiology, The University of Pennsylvania, Philadelphia, PA
- 97 Additive effects of HIV-infection and chronic tobacco smoking on brain microstructure

 Huajun Liang¹, Thomas Ernst², David Greenstein³, Linda Chang³, ¹University of Hawaii, Baltimore, MD,

 ²Department of Medicine, John A. Burns School of Medicine, University of Hawaii and Queen's Medical

 Center, Baltimore, MD, ³Queen's Medical Center, Department of Medicine, John A. Burns School of

 Medicine, Baltimore, MD
- Behind the mask: Elevated BOLD, but not behavioral responses to pain in individuals using prescription opiates
 Logan Dowdle, Jeffrey Borckardt, Sudie Back, Colleen Hanlon, Medical University of South Carolina, Charleston, SC

POSTER II HIV/HCV

- 99 Factors related to prescription opioid misuse among HIV positive substance users: Understanding the role of substance use, mental health and ARV adherence
 Maria Levi-Minzi¹, Hilary Surratt², ¹Nova Southeastern University, Miami, FL, ²University of Kentucky, Lexington, KY
- 100 Impact of syndemic conditions on perceived barriers to pre-exposure prophylaxis use among female sex workers along Mexico's northern border

- Jennifer Jain¹, Steffanie Strathdee², Thomas Patterson², Shirley Semple², Alicia Vera², Carlos Magis-Rodriguez³, Gustavo Martinez⁴, Heather Pines², ¹University of California, Department of Medicine, San Diego, CA, ²University of California San Diego, La Jolla, CA, ³Center for HIV/AIDS Prevention and Control, Mexico City, ⁴Federacion Mexicana de Asociaciones Privadas, Ciudad Juarez, Chihuahua, Mexico
- Associations between unprotected sex, psychiatric comorbidity, and substance use frequency in a cohort of HIV-infected and at-risk women with a history of housing instability

 Meredith Meacham, Amber Bahorik, Elise Riley, University of California San Francisco, San Francisco, CA
- The mediating effect of illicit drug use on the relationship between risky sexual behaviors and HIV infection: Results from the 2013 Taiwan Internet MSM Sex Survey

 Lian-Yu Chen¹, Shang-Chi Wu², Nai-Ying Ko³, ¹Taipei City Hospital, Taipei, Taiwan, ²National Taiwan University, Epidemiology and Preventive Medicine, Taipei City, ³National Cheng Kung University, Department of Nursing, Tainan
- Clusters of substance use and HIV risk behaviors among people who inject drugs in Kazakhstan

 Phillip Marotta¹, Daniel Feaster², Assel Terlikbayeva¹, Louisa Gilbert¹, Tim Hund¹, Elwin Wu¹, Nabila El-Bassel¹, ¹Columbia University, New York, NY, ²University of Miami Miller School of Medicine, Miami, FL
- Preliminary efficacy of adjunct components for couples HIV testing and counseling: Reducing drug use and depression in gay couples
 Tyrel Starks¹, Trey Dellucci², Mark Pawson³, Jeffrey Parsons¹, ¹Hunter College, CUNY, New York City, NY, ²Health Psychology and Clinical Science Training Program, Graduate Center, CUNY, New York, NY, ³Graduate Center and CHEST, New York, NY
- HIV health care behaviors in substance users during patient navigation with and without contingent financial incentives
 Maxine Stitzer¹, James Sorensen², Lisa Metsch³, Carlos del Rio⁴, Daniel Feaster⁵, Alexis Hammond⁶, Rui Duan⁷, Tim Matheson⁸, Lauren Gooden³, ¹Johns Hopkins Bayview Medical Center, Baltimore, MD, ²University of California San Francisco, San Francisco, CA, ³Columbia University, New York, NY, ⁴Emory University, Atlanta, GA, ⁵University of Miami Miller School of Medicine, Miami, FL, ⁶Johns Hopkins University School of Medicine, Baltimore, MD, ⁷University of Miami, Miami, FL, ⁸San Francisco Department of Public Health, San Francisco, CA
- Recent cannabis use and advanced liver fibrosis among HIV-infected heavy drinkers.
 Daniel Fuster¹, Kaku So-Armah², Debbie Cheng², Sharon Coleman³, Natalia Gnatienko², Dmitry Lioznov⁴, Evgeny Krupitsky⁵, Matthew Freiberg⁶, Jeffrey Samet², ¹Hospital Universitari Germans, Badalona, Spain, ²Boston University School of Medicine, Boston, MA, ³Boston University School of Public Health, Boston, MA, ⁴First Pavlov State Medical University of St. Petersburg, St. Petersburg, Russian Federation, ⁵V.M. Bekhterev National Medical Research Center for Psychiatry and Neurology, St. Petersburg, Russian Federation, ⁶Vanderbilt University Medical Center, Nashville, TN
- 107 Prevalence of hazardous drinking differs between HIV+ adults reporting using marijuana for recreational versus medicinal reasons
 Zachary Mannes¹, Robert Cook², Erin Ferguson³, Nicole Ennis Whitehead¹, ¹University of Florida, Gainesville, FL, ²University of Florida SHARC Center, Gainesville, FL, ³Graduate Student, Gainesville, FL
- Hepatitis screening through the analysis of liver enzymes in drug users
 Octavio Campollo, Arturo Panduro, Sonia Roman, GABRIEL HERNANDEZ, Universidad de Guadalajara,
 Guadalajara
- Is HCV elimination among HIV-infected people who inject drugs possible through HCV treatment targeting HIV/HCV coinfection? A modeling analysis for Andalusia, Spain
 Britt Skaathun¹, Annick Borquez¹, Sanjay Mehta¹, Antonio Rivero-Juarez², Francisco Tellez³, Manuel Castaño⁴, Dolores Merino⁵, Jesus Santos⁴, Juan Macias⁶, Antonio Rivero-Juarez², Natasha Martin¹,

- ¹University of California San Diego, La Jolla, CA, ²Instituto Maimonides de Investigaciones Biomedicas de Cordoba, Córdoba, ³Universidad de Cádiz, Cádiz, ⁴Hospital Regional Universitario de Málaga, Málaga, ⁵Hospitales Juan Ramón Jiménez e Infanta Elena de Huelva, Huelva, ⁶Hospital Universitario de Valme, Instituto de Biomedicina de Sevilla, Sevilla
- Randomized trial of hepatitis c treatment for people who inject drugs at high risk for secondary transmission Phillip Coffin¹, Glenn-Milo Santos², Jaclyn Hern¹, Emily Behar¹, Kimberly Page³, Rena Fox², Eric Vittinghoff², ¹San Francisco Department of Public Health, San Francisco, CA, ²University of California San Francisco, San Francisco, CA, ³University of New Mexico, Albuquerque
- Prescription opioid injection among young adults who use drugs: Associations with HCV infection and drug overdose
 Pedro Mateu-Gelabert, Honoria Guarino, Jennifer Teubl, Jon Zibbell, Samuel Friedman, National Development and Research Institute, Inc., New York, NY

POSTER II CRIMINAL JUSTICE

- HCV status and psychiatric burden of opioid dependent-adults and young offenders in Austrian prisons Laura Brandt¹, Marisa Silbernagl², Rudolf Slamanig², Gabriele Fischer³, ¹University of Vienna, Austria, ²Medical University of Vienna, Center for Public Health, Vienna, Austria, ³Medizinische Universitat Wien, Wien
- HIV prevention in rural jails: Implications for re-entry risk reduction
 Michele Staton¹, Justin Strickland², Matt Webster², Carl Leukefeld², Carrie Oser², Erika Pike², ¹University of Kentucky, College of Medicine, Lexington, KY, ²University of Kentucky, Lexington, KY
- A randomized controlled trial of prison-initiated buprenorphine: Longitudinal analysis of HIV-risk behaviors Thomas Blue¹, Michael Gordon¹, Robert Schwartz¹, Frank Vocci, Jr.¹, Kevin O'Grady², ¹Friends Research Institute, Baltimore, MD, ²University of Maryland, College Park, MD
- A randomized controlled trial of buprenorphine for prisoners: Official rearrest outcomes

 Michael Gordon¹, Thomas Blue¹, Robert Schwartz¹, Terrence Fitzgerald², Frank Vocci, Jr.¹, Kevin O'Grady³,

 ¹Friends Research Institute, Baltimore, MD, ²Glenwood Life Counseling Center, Baltimore, MD, ³University of Maryland, College Park, MD
- 116 Polysubstance opioid use profiles in an incarcerated population Amanda Bunting¹, Carrie Oser¹, Michele Staton², Erin Winston¹, Kevin Pangburn³, ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY, ³Kentucky Department of Corrections, Frankfort, KY
- 117 Typology of offenders: Violence and substance use outcomes Cassandra Berbary, Cory Crane, Caroline Easton, Rochester Institute of Technology, Rochester, NY
- Appalachian clinician's views on medication-assisted treatment for re-entering offenders
 Carrie Oser¹, Amanda Bunting¹, Michele Staton², Erin Winston¹, Kate Eddens¹, Hannah Knudsen¹,
 ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 119 Correlates of re-entry employment among rural female drug-involved offenders

 Matt Webster¹, Megan Dickson¹, Michele Staton², Carrie Oser¹, Carl Leukefeld¹, ¹University of Kentucky,
 Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 120 Health needs and health service utilization among reincarcerated drug-using women in rural Appalachia Megan Dickson¹, Michele Staton², Matt Webster¹, Carrie Oser¹, Carl Leukefeld¹, ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY

- Predictors of recidivism among rural, incarcerated, substance-using women

 Brittany Miller-Roenigk¹, Bridgette Peteet¹, Michele Staton², ¹University of Cincinnati, Cincinnati, OH,

 ²University of Kentucky, College of Medicine, Lexington, KY
- Age differences in substance use and treatment among African American men incarcerated in North Carolina Joy Scheidell¹, Samuel Friedman², Maria Khan¹, ¹New York University School of Medicine, New York, NY, ²National Development and Research Institute, Inc., New York, NY
- Substance Use and Mental Health Profiles of Judicially-Involved Commercially Sexually Exploited Youth
 Kayleen Ports¹, Elizabeth Barnert², Sangeeta Mondal¹, Lindsey Thompson², Mikaela Kelly³, Sarah Godoy³,
 Mekeila Cook¹, Eraka Bath¹, ¹University of California Los Angeles, Los Angeles, CA, ²University of
 California, Pediatrics, Los Angeles, CA, ³University of California, Psychiatry, Los Angeles, CA
- Differential associations of marijuana typologies with psychological problems and substance abuse among juvenile detainees

 Devin Banks, Tamika Zapolski, Indiana University Purdue University Indianapolis, Indianapolis, IN
- Substance use and other risks associated with offence types among justice involved youth
 Hayley Hamilton¹, Evelyn Vingilis², Shannon Stewart², Jane Seeley², Kathleen Einarson³, Patricia Erickson³,

 ¹Centre for Addiction and Mental Health, Toronto, ON, Canada, ²Western University, London, UK, Canada,

 ³University of Toronto, Toronto, ON, Canada
- Examining changes in youth community treatment agency linkages

 Carl Leukefeld¹, Rob Seaver¹, Erin Winston¹, Martha Tillson¹, Megan Dickson¹, Hannah Knudsen¹, Michele Staton², Matt Webster¹, Carrie Oser¹, Jennifer Havens², ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- Dynamic model of first-time offenders of illicit drug use trajectory in Taiwan
 Wei-J Chen¹, Shang-Chi Wu², Chi-Ya Chen³, Hsien-Ho Lin³, Kevin Chien-Chang Wu², Tzu-Pin Lu², Susyan Jou⁴, Wen-Ing Tsay⁵, Jui Hsu⁵, ¹National Taiwan University, Taipei City, ²National Taiwan University, Epidemiology and Preventive Medicine, Taipei City, ³National Taiwan University, Epidemiology and Preventive Medicine, Taipei City, Taiwan, ⁴National Taipei University, New Taipei City, Taiwan, ⁵Taiwan Food and Drug Administration, Taipei

POSTER II OVERDOSE

Sapphire ABC/EFG 8:00 - 10:00 AM

- Opioid involvement in intentional and unintentional poisonings: The moderating effect of poisoning severity Sarah Cercone Heavey, Kenneth Conner, Timothy Wiegand, University of Rochester Medical Center, Rochester, NY
- Non-fatal overdose prevalence among people who inject drugs A multi-stage systematic review and meta-analysis of recent evidence
 Samantha Colledge¹, Amy Peacock¹, Janni Leung², Miranda Cuming³, Michael Farrell¹, Sarah Larney¹, Louisa Degenhardt¹, Jason Grebely⁴, ¹National Drug and Alcohol Research Centre, Sydney, Australia, ²NDARC, UNSW, Australia, Brisbane, Australia, ³University of Bristol, Bristol, ⁴The Kirby Institute, Sydney, Australia
- Association between drug use history and non-fatal overdose: A cross-sectional study of community members who use prescription opioids non-medically in West Virginia
 Kelly Gurka¹, Kathleen Egan¹, Alexandria Macmadu², Herbert Linn³, Linda Cottler¹, ¹University of Florida, Gainesville, FL, ²The Center for Prisoner Health and Human Rights, The Miriam Hospital, Providence, RI, ³West Virginia University, Morgantown, WV

- 131 Implementation and feasibility of a public health led non-fatal overdose response system in New York City Hillary Kunins, Alice Welch, Angela Jeffers, Dominque Chambless, Denise Paone, NYC Department of Health and Mental Hygiene, Queens, NY
- Life after overdose: Survivor narratives and their implications for emergency department interventions

 Luther Elliott¹, Brett Wolfson-Stofko², Alexander Bennett¹, ¹National Development and Research Institute,
 Inc., New York, NY, ²New York University, New York, NY
- Factors associated with overdose response self-efficacy among adults who report lifetime opioid use
 Kayla Tormohlen, Karin Tobin, Melissa Davey-Rothwell, Carl Latkin, Johns Hopkins Bloomberg School of
 Public Health, Baltimore, MD
- Young adults' opioid use trajectories: Opioid type and route transitions, overdose and treatment
 Honoria Guarino, Pedro Mateu-Gelabert, Jennifer Teubl, Elizabeth Goodbody, National Development and
 Research Institute, Inc., New York, NY
- Risk factors associated with overdose during follow-up in treatment-seeking youth with substance use disorders
 Amy Yule¹, Nicholas Carrellas², Maura Fitzgerald², Brandon Bergman², John Kelly², Jessica Nargiso², James McKowen², Timothy Wilens³, ¹MGH, Boston, MA, ²Massachusetts General Hospital, Boston, MA, ³Harvard Medical School, Boston, MA
- Examining gaps in the naloxone (Narcan) cascade of care
 Karin Tobin, Melissa Davey-Rothwell, Carl Latkin, Johns Hopkins Bloomberg School of Public Health,
 Baltimore. MD
- Military veterans' overdose risk: Demographic and biopsychosocial influences
 Alexander Bennett¹, Luther Elliott¹, J. Watford², Andrew Golub¹, Peter Britton³, Andrew Rosenblum⁴,
 Honoria Guarino¹, ¹National Development and Research Institute, Inc., New York, NY, ²New York
 University, New York, NY, ³VA VISN 2 Center of Excellence for Suicide Prevention, Canandaigua, NY,
 ⁴NDRI, Metuchen, NJ
- 138 Fentanyl checking interest and overdose risk among opioid users: A multisite study

 Ju Nyeong Park¹, Kenneth Morales², Michelle McKenzie³, Traci Green⁴, Susan Sherman¹, ¹Johns Hopkins

 Hospital, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ³Lifespan,

 Providence, RI, ⁴Boston University School of Medicine, Boston, MA
- Precursors to drug use escalation in a New Hampshire convenience sample of current and recent opioid users Sarah Moore¹, Andrea Meier¹, Elizabeth Saunders², Stephen Metcalf³, Bethany McLeman⁴, Olivia Walsh⁵, Lisa Marsch³, ¹Geisel School of Medicine at Dartmouth, Lebanon, NH, ²The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH, ³Geisel School of Medicine at Dartmouth, Hanover, NH, ⁴Northeast Node of the CTN/Dartmouth College, Lebanon, NH, ⁵Dartmouth College, Hanover, NH
- 140 Trends in Opioid-related overdose deaths in Virginia from 2011-2016
 Lori Keyser-Marcus, Mary Bowman, Edward Boone, Tamas Gal, F. Gerard Moeller, Virginia Commonwealth University, Richmond, VA
- 141 A urinalysis-based study of the prevalence of fentanyl use among opioid users in New York City
 Suky Martinez¹, Jermaine Jones², Nicholas Allwood¹, Sandra Comer¹, ¹Columbia University and NYSPI,
 New York, NY, ²Columbia University College of Physicians and Surgeons, New York, NY
- 142 Hepatitis C virus as a moderator of opioid treatment and past opioid overdose Samantha Schiavon, Karen Cropsey, University of Alabama, Birmingham, AL
- Regional heterogeneity in the association between medical marijuana laws and opioid overdose: findings from the National Health Interview Survey, 1986-2011
 June Kim¹, Julian Santaella-Tenorio², Christine Mauro², Deborah Hasin², Guohua Li², Silvia Martins², ¹New York University, New York, NY, ²Columbia University, New York, NY

Use of automated data to study trends in heroin and pharmaceutical opioid overdoses in a large health system: 2006-2015
 Jason Glanz, Komal Narwaney, Kris Wain, Andrew Sterrett, Shane Mueller, LeeAnn Quintana, Ingrid Binswanger, Kaiser Permanente Colorado, Denver, CO

POSTER II TECHNOLOGY

Sapphire ABC/EFG 8:00 - 10:00 AM

- A digital therapy to support recovery from opioid use disorder

 Patricia Cavazos¹, Melissa Krauss¹, Shaina Sowles², Elizabeth Cahn², Laura Bierut², ¹Washington University

 St. Louis, St. Louis, MI, ²Washington University School of Medicine, St. Louis, MO
- 146 Perceptions of technology and health resource access among patients in opioid treatment Ida Chen, J. Fokuo, Carmen Masson, University of California San Francisco, San Francisco, CA
- 147 Usability testing of a mHealth prototype to enhance HIV, HCV, and buprenorphine treatment in primary care Babak Tofighi¹, Chemi Chemi¹, Selena Sindhu¹, Michelle Acosta², Edward Nunes³, Joshua Lee¹, ¹New York University School of Medicine, New York, NY, ²National Development and Research Institute, Inc., New York, NY, ³Columbia University and NYSPI, New York, NY
- Formative evaluation of a mobile application to assist with methadone stabilization
 Emily Loscalzo, Robert Sterling, Stephen Weinstein, Thomas Jefferson University, Philadelphia, PA
- Leveraging technology to address unhealthy drug use in primary care: Development of a clinical decision support tool for primary care providers
 Jennifer McNeely¹, Donna Shelley¹, Antonia Polyn¹, Christine Chollak¹, Angeline Adam¹, Andre Kushniruk²,
 ¹New York University School of Medicine, New York, NY, ²University of Victoria, Victoria, BC, Canada
- Implementing substance use screening in rural federally qualified health centers: Results from focus groups Bethany McLeman¹, Jennifer McNeely², Elizabeth Saunders³, SARAH FARKAS², Olivia Walsh⁴, Andrea Meier⁵, Trip Gardner⁶, Noah Nesin⁶, Seamus Higgins⁶, Lisa Marsch⁷, ¹Northeast Node of the CTN/Dartmouth College, Lebanon, NH, ²New York University School of Medicine, New York, NY, ³The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH, ⁴Dartmouth College, Hanover, NH, ⁵Geisel School of Medicine at Dartmouth, Lebanon, NH, ⁶Penobscot Community Health Care, Bangor, ME, ⁷Geisel School of Medicine at Dartmouth, Hanover, NH
- 151 Clinical research applications of a statewide health information exchange (HIE)
 Jan Gryczynski¹, courtney Nordeck¹, Robert Schwartz¹, Shannon Mitchell¹, Christopher Welsh², Ross Martin³, ¹Friends Research Institute, Baltimore, MD, ²University of Maryland, School of Medicine, Baltimore, MD, ³CRISP, Columbia, MD
- User experience of four point-of-collection oral fluid devices by Brazilian traffic agents preliminary findings Flavio Pechansky¹, Juliana Scherer¹, Vinicius S. Roglio¹, Yeger Telles², Jaqueline B. Schuch¹, Roberta B. Silvestrin¹, Tanara Sousa¹, ¹Center for Drug and Alcohol Research, Federal University of Rio Grande do Sul, Porto Alegre, ²Center for Drug and Alcohol Research, Porto Alegre, Brazil
- Computer-facilitated 5A's for tobacco use disorders: Using technology to improve screening and brief interventions

 Jason Satterfield, Steve Gregorich, Maya Vijayaraghavan, University of California San Francisco, San Francisco, CA
- Feasibility and validity of collecting intensive longitudinal alcohol use data with mechanical turk Justin Strickland, William Stoops, University of Kentucky, Lexington, KY

ORAL COMMUNICATIONS 4

Indigo E

TWEETMENT 8.0

10:00 - 11:00 AM

Chairs: Suzette Glasner and Michael Mason

- 10:00 Exploring trends in breathalyzer test results among participants of the Ria Treatment Program using dynamic structural equation modeling
 Mary Mitchell¹, John Mendelson², Jan Gryczynski¹, Steve Carswell¹, Robert Schwartz¹, ¹Friends Research Institute, Baltimore, MD, ²Friends Research Institute, San Francisco, CA
- 10:15 Development of a Facebook intervention for depressed cannabis users Suzette Glasner¹, Danielle Ramo², Frances Kay-Lambkin³, Alan Budney⁴, Helene Chokron Garneau⁵, Alexandra Venegas⁵, ¹Integrated Substance Abuse Programs (UCLA), Los Angeles, CA, ²University of California San Francisco, San Francisco, CA, ³University of Newcastle, Callaghan, ⁴Geisel School of Medicine at Dartmouth, Lebanon, NH, ⁵University of California Los Angeles, Los Angeles, CA
- 10:30 Treating cannabis use disorder among young adults: A pilot randomized clinical trial of text vs. in-person delivered peer network counseling
 Michael Mason¹, Nikola Zaharakis², ¹University of Tennessee, Knoxville, TN, ²Arizona State University, Tempe, AZ
- 10:45 What teens want: A mixed methods study on the use of mobile phones and its technology for substance use treatment
 Stacy Ryan, Baylor University, Waco, TX

SYMPOSIUM VI WHAT'S IN YOUR WEED? ASSESSING THE IMPACT OF CANNABIS PRODUCT SELECTION

Indigo D 10:00 - 11:00 AM

Chairs: Staci Gruber and Ryan Vandrey

- 10:00 Variety of cannabis product type, dose, and route of administration in a patient registry of medicinal cannabis users
 - R. Vandrey, Behavioral Pharmacology Research Unit, Johns Hopkins Hospital, Baltimore, MD
- 10:20 Cannabinoid preferences among veterans when barriers to medicinal cannabis are reduced M. Loflin, Veterans Affairs San Diego Healthcare System, San Diego, CA
- 10:40 Recipes for success? Exploring the cognitive and clinical impact of cannabinoid constituents and product selection
 - S. Gruber, McLean Hospital, Harvard Medical School, Belmont, MA

ORAL COMMUNICATIONS 6 TAKING SELFIES: PRECLINICAL SELF-ADMINISTRATION Indigo H 10:00 - 12:00 PM

Chairs: Dustin Stairs and Lais Berro

- 10:00 Cocaine self-administration under an IRT>t schedule of reinforcement in Sprague Dawley rats
 Dustin Stairs, Rachel Busselman, Creighton University, Omaha, NE
- 10:15 Sex differences in midazolam self-administration in rats
 James Cook, Sally Huskinson, James Rowlett, University of Mississippi Medical Center, Jackson, MS
- $10:30 \quad \textit{Vaporized } \Delta 9\text{-tetrahydrocannabinol (THC) modulates intravenous oxycodone self-administration and natural food reward intake}$
 - Jacques Nguyen, Yanabel Grant, Kevin Creehan, Michael Taffe, The Scripps Research Institute, La Jolla, CA

- 10:45 Sustained decreases in heroin self-administration in rhesus monkeys after a single administration of SH-1
 David Maguire¹, Lisa Gerak¹, James Woods¹, Stephen Husbands², Alex Disney², Charles France¹, ¹University of Texas Health Science Center, San Antonio, TX, ²University of Bath, Bath, United Kingdom
- 11:00 Evaluation of mifepristone effects on alcohol seeking and self-administration
 Elise Weerts, August Holtyn, Johns Hopkins University School of Medicine, Baltimore, MD
- Observable behavior predicts anxiolytic-like effects but not self-administration of benzodiazepine-type drugs in rhesus monkeys
 Lais Berro¹, Angela Duke², Donna Platt³, John Atack⁴, Veera Tiruveedhula⁵, Guanguan Li⁵, Michael Stephen⁵, James Cook⁵, James Rowlett¹, ¹University of Mississippi Medical Center, Jackson, MS, ²Winston-Salem State University, Winston-Salem, NC, ³Division of Neurobiology and Behavior Research, Jackson, MS, ⁴Cardiff University, Cardiff, United Kingdom, ⁵University of Wisconsin-Milwaukee, Milwaukee, WI
- 11:30 Selective biphasic antagonism of intravenous d-methamphetamine self-administration by disulfiram in rhesus monkeys
 Fernando de Moura¹, Nathaniel Gillis², Jessica Nardolillo², Stephen Kohut¹, Jack Bergman¹, ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²McLean Hospital, Belmont, MA
- Effect of abstinence and cue re-exposure on DNA methylation and mRNA expression after cocaine self-administration
 Kyle Ploense¹, Tod Kippin², Timothy Bredy³, Karen Szumlinski², ¹University of California Santa Barbara, Goleta, CA, ²University of California Santa Barbara, Santa Barbara, CA, ³Queensland Brain Institute, St. Lucia, Australia

SYMPOSIUM IV DRUG ADDICTION TREATMENT WITH CLASSIC PSYCHEDELICS

Indigo A 10:00 - 12:00 PM

Chairs: Roland Griffiths and Matthew Johnson

- 10:00 Enduring behavior change after psilocybin
 R. Griffiths, Johns Hopkins University School of Medicine, Baltimore, MD
- 10:25 Psilocybin treatment of cocaine use disorder
 P. Hendricks, University of Alabama, Birmingham, AL
- 10:50 Psilocybin treatment of tobacco use disorder
 M. Johnson, Johns Hopkins University School of Medicine, Baltimore, MD
- 11:15 Psilocybin treatment of alcohol use disorder
 M. Bogenschutz, New York University, New York, NY
- 11:40 Psychedelic treatment and neurochemical reductionism: A way forward B. Adinoff, University of Texas Southwestern Medical Center, Dallas, TX

SYMPOSIUM V THE HUMAN MOLECULAR GENETICS OF NICOTINE AND OPIATE ADDICTION

Indigo BF 10:00 - 12:00 PM

Chairs: Mary Jeanne Kreek and Laura Bierut

10:00 Genetic lessons learned from the big studies and small studies of nicotine addiction
 L. Bierut, Washington University School of Medicine, St. Louis, MO

- 10:25 Heroin addiction: what have we learned from hypothesis-driven association studies in different populations O. Levran, The Rockefeller Unversity, New York, NY
- 10:50 Reconsidering case and control phenotypes for genetic studies of opioid use disorder E. Nelson, Washington University School of Medicine, St. Louis, MO
- 11:15 *The pharmacogenetics of opioid use disorder treatment* R. Crist, University of Pennsylvania, Philadelphia, PA
- 11:40 *Discussant*M. J. Kreek, The Rockefeller University, New York, NY

ORAL COMMUNICATIONS 5 ADDICTION PREDICTION: MACHINE LEARNING AND MODELING

Indigo E 11:15 - 12:15 PM

Chairs: Georgiy Bobashev and Sarah Yip

- 11:15 Anhedonic symptoms of depression are related to cocaine use severity: A machine learning approach Margaret Wardle¹, Robert Suchting¹, Jessica Vincent¹, Scott Lane², Joy Schmitz¹, ¹University of Texas Health Science Center, Houston, TX, ²University of Texas, Houston, TX
- 11:30 Application of machine learning to predict cocaine-use
 Sarah Yip¹, Dustin Scheinost¹, Marc Potenza², Kathleen Carroll², ¹Yale University, New Haven, CT, ²Yale University School of Medicine, New Haven, CT
- 11:45 Using support vector machine (SVM) to predict heroin addiction Shaw-Ji Chen, Mackay Memorial Hospital, Taitung Branch, Taitung Taiwan, NP, Taiwan
- 12:00 Heroin type, injecting behavior and HIV transmission: Evidence-based simulation model provides insights from the past into the future
 Georgiy Bobashev¹, Daniel Ciccarone, Sarah Mars², William Zule¹, Clinton Dreisbach³, Nicholas Murphy²,
 ¹RTI International, Research Triangle Park, NC, ²University of California San Francisco, San Francisco, CA,
 ³RTI International, Durham, NC

SYMPOSIUM VII LET'S SAVE THE BABY AND THE BATHWATER: IMPROVING NAS CARE FOR BABIES AND THEIR MOTHERS UTILIZING NOVEL METHODS

Indigo D 11:15 - 12:15 PM

Chairs: Dennis Hand and Yukiko Washio

- 11:15 TRAC-ON preliminary results: Mobile application to educate nurses and assist in NAS scoring with an aggregated presentation system
 - Y. Washio, Christiana Care Health Services, University of Delaware, Media, PA
- 11:35 Development of a primer and reference tool to assess and manage neonatal abstinence syndrome in the NICU S. McPherson, Washington State University, Elson S. Floyd College of Medicine, Spokane, WA
- 11:55 Fetally derived CNS extracellular vesicles: A novel non-invasive method for interrogating fetal brain response to perinatal opioid exposure

 L. Goetzl, Lewis Katz School of Medicine at Temple University, Philadelphia, PA

(BY INVITATION ONLY)
CPDD EARLY CAREER INVESTIGATOR TRAVEL
AWARDS LUNCHEON

Elevation 12:00 - 2:00 PM

MEMBERS IN TRAINING MEETING

Aqua C 1:00 - 2:00 PM

ORAL COMMUNICATIONS 7 SEEING IS BELIEVING: IMAGING

Indigo E 2:00 - 3:00 PM

Chairs: Stephen Kohut and Anna Rose Childress

- 2:00 Altered resting-state functional connectivity in adolescent female nonhuman primates during acute and chronic exposure to the long-acting cannabinoid CB1 receptor agonist, AM2389
 Stephen Kohut¹, Brian Kangas², Jessica Nardolillo³, David Jacobs³, Scott Lukas¹, Jack Bergman¹, Blaise Frederick¹, ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²ADARC McLean Hospital, Belmont, MA, ³McLean Hospital, Belmont, MA
- 2:15 Preliminary multimodal, multitask investigation of functional brain networks and D2/D3 receptor availability in cocaine use disorder
 Patrick Worhunsky¹, Gustavo Angarita¹, David Matuskey², Robert Malison¹, Richard Carson², Marc Potenza¹, ¹Yale University School of Medicine, New Haven, CT, ²Yale University, New Haven, CT
- 2:30 Citalopram for controlling impulsivity in cocaine use disorder: Evidence from BOLD and DCM imaging Andrew Snyder, F. Gerard Moeller, Joel Steinberg, Virginia Commonwealth University, Richmond, VA
- 2:45 Aberrant functional connectivity in large-scale brain networks distinguishes cocaine patients from controls and is linked to drug-use outcomes
 Paul Regier, Jieqiong Wang, H Rao, Yong Fan, Anna Rose Childress, University of Pennsylvania, Philadelphia, PA

ORAL COMMUNICATIONS 8 W-EIGHTY ISSUES IN CRIMINAL JUSTICE

Indigo H 2:00 - 4:00 PM

Chairs: Hilary Surratt and Leo Beletsky

- 2:00 Pretreatment social networks and source of referral as predictors of retention in residential SUD treatment Erin Kerrison¹, Hortensia Amaro², ¹University of California at Berkeley, Berkeley, CA, ²ISC School of Social Work, Los Angeles, CA Withdrawn
- 2:15 Reducing heavy drinking and alcohol-involved crime with behavioral economics: Insights from 24/7 sobriety Beau Kilmer, Greg Midgette, RAND Drug Policy Research Center, Santa Monica, CA
- 2:30 How do marijuana decriminalization and legalization affect disparities in adolescent marijuana arrests? Evidence from Massachusetts, Washington and Maryland Andrew Plunk¹, Stephanie Peglow¹, Paul Harrell¹, Richard Grucza², ¹Eastern Virginia Medical School, Norfolk, VA, ²Washington University School of Medicine, St. Louis, MO
- 2:45 Evaluating the epidemiological impact of a police education program among people who inject drugs in Tijuana, Mexico
 Javier Cepeda¹, Leo Beletsky², Daniela Abramovitz¹, Annick Borquez¹, Steffanie Strathdee¹, Natasha Martin¹, ¹University of California San Diego, La Jolla, CA, ²Northeastern University, Boston, MA

- 3:00 Factors predicting arrest in a jail-based vs. a community-based methadone treatment study

 Sharon Kelly¹, Robert Schwartz¹, Kevin O'Grady², Shannon Mitchell¹, Jan Gryczynski¹, Jerome Jaffe¹,

 ¹Friends Research Institute, Baltimore, MD, ²University of Maryland, College Park, MD
- 3:15 Criminal justice referral to medication-assisted treatment among opioid treatment admissions, 2014
 Shivani Mantha¹, Pia Mauro², Sara Abiola¹, Silvia Martins², ¹Columbia University Mailman School of Public Health, New York, NY, ²Columbia University, New York, NY
- 3:30 Patterns of buprenorphine use and risk for rapid re-arrest among highly vulnerable opioid-involved women released from jails in rural Appalachia
 Hilary Surratt¹, Michele Staton², Carl Leukefeld¹, Carrie Oser¹, Matt Webster¹, ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 3:45 The economic impact of jail-based medication-assisted treatment: A cost-effectiveness analysis of a large jail-based methadone maintenance treatment program in New Mexico

 Brady Horn¹, Xiaoxue Li¹, Barbara Mccrady¹, Saleh Mamun¹, Paul Guerrin¹, Michael French², ¹University of New Mexico, Albuquerque, NM, ²University of Miami School of Law, Coral Gables, FL

SYMPOSIUM IX INNOVATOR SYMPOSIUM

Indigo A 2:00 - 4:00 PM

Chairs: Thomas Prisinzano

3:00

- 2:00 Two is Better than one: Discovery of bifunctional ligands as treatments for substance abuse disorders C. Cunningham, Concordia University Wisconson School of Pharmacy, Mequon, WI
- Evaluation of Salvinorin A-analogues activating mu and kappa opioid receptors as novel drug abuse and pain therapeutics
 B. Kivell, Victoria University of Wellington, Wellington, New Zealand
 - Salvinorin analogs and KOP-r ligands as potential approaches in the treatment of substance use disorders E. Butelman, The Rockefeller University, New York, NY
- 3:30 Chemical approaches for the development of drug abuse therapies T. Prisinzano, University of Kansas, Lawrence, KS

SYMPOSIUM VIII Indigo BF
CANNABIS AND TOBACCO CO-USE: CURRENT 2:00 - 3:00 PM
FINDINGS ACROSS PRECLINICAL, GENETIC,
EXPERIMENTAL AND EPIDEMIOLOGICAL SCIENCE

Chairs: Erica Peters and Arpana Agrawal

- 2:00 Reciprocal relationships between cannabis and tobacco: A Mendelian randomization approach
 A. Agrawal, Washington University School of Medicine, St. Louis, MO
- 2:20 Co-use of cannabis and tobacco during pregnancy

V. Coleman-Cowger, Battelle Memorial Institute, Baltimore, MD

- 2:40 Co-use of cannabis and tobacco among youth and young adults
 - E. Peters, Battelle Memorial Institute, Baltimore, MD

SYMPOSIUM X NEONATAL ABSTINENCE SYNDROME: EFFECTS OF OPIOIDS ON THE DEVELOPING BRAIN Indigo D 2:00 - 4:00 PM

Chairs: Henrietta Bada and Gary Peltz

- 2:00 Fetal neurobehavioral development in buprenorphine exposed pregnancies
 L. Jansson, Johns Hopkins University School of Medicine, Baltimore, MD
- 2:25 Opioid versus non-opioid treatment for neonatal abstinence syndrome H. Bada, University of Kentucky, College of Medicine, Lexington, KY
- 2:50 Clinical and genomic risk factors of neonatal abstinence syndrome
 J. Davis, Tufts Medical Center, Boston, MA
- 3:15 Cellular and molecular basis of opiate drug-induced disruption of neuronal and glial maturation in the central nervous system
 - K. Hauser, Virginia Commonwealth University, Richmond, VA
- 3:40 Current state and future opportunities and challenges in clinical and basic neurobiology of neonatal abstinence syndrome
 - G. Peltz, Stanford University, Stanford, CA

PRESIDENT'S LECTURE

Indigo BCFG 4:15 - 5:15 PM

Eyes wide shut: Social and structural process contributing to addiction and its health consequences President: Alan Budney, Geisel School of Medicine at Dartmouth

Jamila K. Stockman, University of California San Diego School of Medicine

Steffanie A. Strathdee, University of California San Diego School of Medicine

PRE/POST-DOCS NETWORKING

Indigo Terrace 5:30 - 7:00 PM

NIDA INTERNATIONAL FORUM INTERNATIONAL RESEARCH POSTER SESSION See Pages 96-116 for listing

Sapphire D/H/L/P 7:00 - 9:00 PM

CPDD International Committee: Best research poster competition C. McCoy, Comprehensive Drug Research Center, Miami, FL

WORKSHOP V NOT JUST ONE BUT TWO: IMPACT OF OPIOID EPIDEMIC ON ALCOHOL USE AMONG PREGNANT MOTHERS Indigo D 7:30 - 9:00 PM

Chairs: Victoria Coleman-Cowger and Stacey Klaman

Clinician's understanding in state of art: prenatal opioid and alcohol use and their pediatric consequences

D. Coffa, University of California, San Francisco School of Medicine, San Francisco, CA

Potential interactive effects of the opioid and alcohol co-use on maternal, neonatal, and child outcomes S. Klaman, University of North Carolina at Chapel Hill, Chapel Hill, NC

Treating alcohol use disorder in the presence of opioid use disorder: clinical care of the mother-child dyad N. Poole, Centre of Excellence for Women's Health, Vancouver, BC, Canada

The prevalence and behavioral characteristics of prenatal exposure to alcohol and other drugs: results from the San Diego CoFASP study

N. Akshoomoff, University of California San Diego, La Jolla, CA

Global prevalence of maternal drinking, FAS/FASD, and its economic cost

S. Ondersma, Wayne State University School of Medicine, Detroit, MI

WORKSHOP VI

SUMI: A FREE INTERACTIVE WEB-BASED TOOL TO SELECT VALID SUBSTANCE USE MEASURES FOR HIV RESEARCH

Indigo A 7:30 - 9:00 PM

Chairs: Steffanie Strathdee and Steve Shoptaw

Psychometric properties of substance use measures among key populations at risk for HIV

G. Santos, University of California San Francisco, San Francisco, CA

SUMI Demonstration

S. Chen, HIV Prevention and Trial Network, Rockville, MD

SUMI Applications

S. Shoptaw, University of California Los Angeles, Los Angeles, CA

WORKSHOP VII ANNUAL CPDD DESIGN AND ANALYSIS WORKSHOP

Indigo E 7:30 - 9:00 PM

Chairs: Sterling McPherson and Susan Mikulich-Gilbertson

Systems biology (trans-omics) approaches to understanding substance use

L. Saba, University of Colorado Anschutz Medical Campus, Aurora, CO

Indirect and direct pattern-mixture modeling for the handling of missing values in randomized clinical trials E. Burduli, Washington State University, Spokane, WA

Building predictive models for opioid treatment response using multi-center clinical trial datasets from the National Treatment Clinical Trials Network

S. Luo, Columbia University, New York, NY

How to work collaboratively and effectively with your biostatistician

S. Mikulich-Gilbertson¹, S. McPherson², ¹University of Colorado School of Medicine, Aurora, CO,

²Washington State University, Elson S. Floyd College of Medicine, Spokane, WA

Tuesday, June 12, 2018

CPDD OUTREACH EVENT - FATHER JOE'S VILLAGES

Offsite Venue 6:00 - 9:00 AM Meet in lobby

POLICY FORUM

Chairs: M. Y. Iguchi and Sandra Comer

Indigo BCFG 8:00 - 9:45 AM

Update on activities and accomplishments of Friends of NIDA

W. Dewey¹, C. O'Keeffe², ¹Virginia Commonwealth University, Richmond, VA, ²Virginia Commonwealth University, School of Medicine, Midlothian, VA

Report from Capitol Hill – Implications for NIDA's research portfolio

E. Long, Van Scoyoc Associates, Washington, DC

Where is MAT available in the US and is it available where needed? A geographic review

M. Iguchi, RAND Corporation, Santa Monica, CA

Vermont's care alliance for opioid addiction -- Developing a public health approach to the opioid crisis B. Cimaglio, Retired, Burlington, VT

State-level innovations in response to the opiate overdose crisis

P. Korthuis, Oregon Health & Science University, Portland, OR

SYMPOSIUM XII CLINICAL STUDIES OF BIOLOGICS TO TREAT SUBSTANCE USE DISORDERS

Indigo D 10:00 - 11:00 AM

Chairs: Ivan Montoya and S. Michael Owens

- 10:00 Phase 1 to 2a clinical studies of a monoclonal antibody for treating methamphetamine use disorders W. Gentry, University of Arkansas for Medical Sciences, Little Rock, AK
- 10:20 Clinical studies of an adenovirus-based anti-cocaine vaccine R. Crystal, Weill Cornell Medical College, New York, NY
- 10:40 Clinical evaluation of a nanoparticle-based nicotine vaccine L. Johnston, Selecta Biosciences, Inc., Watertown, MA

ORAL COMMUNICATIONS 10 CANNABLISS? CANNABINOIDS

Indigo E 10:00 - 12:00 PM

Chairs: Dustin Lee and Rachel Tomko

- 10:00 In-vitro to in-vivo translation for the cannabinoid-1 receptor: Value for derisking off-target cannabinoid receptor agonism liabilities in drug discovery
 - Susan Goody¹, Andy Mead², ¹Pfizer, Inc., Groton, CT, ²AstraZeneca, Cambridge
- 10:15 Evaluation of purified cannabidiol (CBD) in rhesus monkeys that self-administer midazolam
 Royston Gray¹, David Maguire², Lisa Gerak², Martin Javors², Charles France², ¹GW Pharmaceuticals PLC,
 Cambridge, ²University of Texas Health Science Center, San Antonio, TX
- 10:30 Randomized controlled trial of zolpidem as a pharmacotherapy for cannabis use disorder

 Dustin Lee¹, Nicolas Schlienz¹, Erin Martin¹, Jeannie-Marie Leoutsakos¹, Alan Budney², Michael Smith¹, D.

 Andrew Tompkins³, Aidan Hampson⁴, Ryan Vandrey⁵, ¹Johns Hopkins University School of Medicine,

- Baltimore, MD, ²Geisel School of Medicine at Dartmouth, Lebanon, NH, ³University of California San Francisco School of Medicine, San Francisco, CA, ⁴National Institute of Drug Abuse, National Institutes of Health, Rockville, MD, ⁵Behavioral Pharmacology Research Unit, Johns Hopkins Hospital, Baltimore, MD
- 10:45 The effects of celecoxib on a human laboratory model of cannabis withdrawal and relapse
 Caroline Arout¹, Sachin Patel², Ziva Cooper³, Gillinder Bedi⁴, Evan Herrmann⁵, Stephanie Reed⁴, Richard
 Foltin¹, Margaret Haney¹, ¹Columbia University Medical Center, New York, NY, ²Vanderbilt University
 Medical Center, Nashville, TN, ³Columbia University and NYSPI, New York, NY, ⁴Columbia University,
 New York, NY, ⁵Battelle Memorial Institute, Baltimore, MD
- N-acetylcysteine for adolescent cannabis use disorder: Do depressive symptoms moderate abstinence outcomes?
 Rachel Tomko, Amanda Gilmore, Kevin Gray, Medical University of South Carolina, Charleston, SC
- 11:15 A case series exploring the effect of twenty sessions of repetitive transcranial magnetic stimulation (rTMS) on cannabis use and craving
 Gregory Sahlem¹, Margaret Caruso², Robert Malcolm¹, Mark George¹, Aimee McRae-Clark¹, ¹Medical University of South Carolina, Charleston, SC, ²Department of Psychiatry and Behavioral Sciences, Medical University of South Carolina, Charleston, SC
- 11:30 Impact of three weeks of sustained abstinence on cognition in young adult cannabis users
 Alexander Wallace, Kyle Jennette, Krista Lisdahl, University of Wisconsin-Milwaukee, Milwaukee, WI
- 11:45 An examination of gender differences in adolescent marijuana use trends post- implementation of liberalized recreational cannabis policies in Washington State

 Andrea Stone, University of Washington, Bothell, WA

ORAL COMMUNICATIONS 11 BASICALLY OPIOIDS

Indigo H 10:00 - 12:00 PM

Chairs: M. Foster Olive and Lisa Brents

- 10:00 Quantifying G-protein and arrestin bias for structurally diverse KOR ligands Jose Erazo, Amelia Dunn, Alexandra Dunn, Brian Reed, Mary Jeanne Kreek, The Rockefeller University, New York, NY
- 10:15 Neuropharmacodynamic profile of NKTR-181: Correlation to low abuse potential
 Laurie VanderVeen, Takahiro Miyazaki, Irene Choi, Michael Eldon, Hema Gursahani, Faye Hsieh, Aleksandrs
 Odinecs, Jonathan Zalevsky, Stephen Doberstein, Nektar Therapeutics, San Francisco, CA
- 10:30 Chemogenetic approaches to restoring prosocial functioning in rats following opiate use M. Foster Olive¹, Seven Tomek², Gabriela Stegmann¹, ¹Arizona State University, Tempe, AZ, ²Arizona State University, Phoenix, AZ
- 10:45 Norbuprenorphine, an active metabolite of buprenorphine, induces opioid dependence in a rat model of neonatal abstinence syndrome
 Lisa Brents¹, Bryce Griffin¹, Caitlin Caperton¹, Lauren Russell¹, Christian Cabalong¹, Catheryn Wilson¹, Kyle Urquhart¹, Bradford Martins¹, Amy Patton², Alex Alund², S. Michael Owens¹, William Fantegrossi¹, Jeffery Moran², ¹University of Arkansas for Medical Sciences, Little Rock, AK, ²PinPoint Testing, LLC, Little Rock, AR
- 11:00 Pharmacological characterization of six synthetic opioids: Radioligand binding and analgesia activities
 Takato Hiranita¹, Aaron Janowsky², Amy Eshleman³, Saki Fukuda⁴, Cassandra Prioleau⁵, Li Fang⁶, Srihari
 Tella⁷, Merle Paule⁸, William Fantegrossi⁴, ¹NCTR/FDA, Jefferson, AR, ²University and VA Portland Health
 Care System, Portland, OR, ³Oregon Health & Science University, Portland, OR, ⁴University of Arkansas for
 Medical Sciences, Little Rock, AK, ⁵Department of Justice, Springfield, VA, ⁶Drug Enforcement

- Administration, Washington, DC, ⁷Drug and Chemical Evaluation Section, Arlington, VA, ⁸U.S. Food and Drug Administration, Silver Spring, MD
- 11:15 Rapid assessment of choice between fentanyl and liquid food in male and female rats

 Drew Townsend¹, S. Stevens Negus¹, Barak Caine², Morgane Thomsen³, Matthew Banks¹, ¹Virginia

 Commonwealth University, Richmond, VA, ²McLean Hospital, Belmont, MA, ³University Hospital of
 Copenhagen, Copenhagen
- Oxycodone self-administration on a progressive-ratio schedule is reduced by contingent administration of the atypical kappa-opioid agonist, nalfurafine, in rhesus monkeys
 Carlos Zamarripa¹, Sally Huskinson¹, Thomas Prisinzano², Christopher McCurdy³, Kevin Freeman¹,
 ¹University of Mississippi Medical Center, Jackson, MS, ²University of Kansas, Lawrence, KS, ³University of Florida, Gainesville, FL
- Assessment of the priming strength of opioids before and during chronic naltrexone treatment in squirrel monkeys
 Sarah Withey¹, Carol Paronis¹, Jack Bergman², ¹McLean Hospital, Harvard Medical School, Belmont, MA,
 ²Preclinical Pharmacology McLean Hospital, Belmont, MA

SYMPOSIUM XI UNMET NEED FOR TREATMENT OF OPIOID USE DISORDER: AN INTERNATIONAL PERSPECTIVE

Indigo A 10:00 - 12:00 PM

Chairs: Howard Chilcoat and Michelle Lofwall

- 10:00 Unmet need for treatment for opioid use disorder in the United States M. Lofwall, University of Kentucky, College of Medicine, Lexington, KY
- 10:25 *Unmet need for opioid use disorder treatment: a European perspective* M. Auriacombe, Université de Bordeaux, Bordeaux, France
- 10:50 Universal unmet need in opioid use disorders: Spring training for getting a life W. Ling, University of California Los Angeles, Los Angeles, CA
- 11:15 Unmet treatment need for OUD treatment in Australia R. Ali, University of Adelaide, Adelaide, SA, Australia
- 11:40 Discussant: Addressing the global need for OUD treatment G. Woody, University of Pennsylvania, Philadelphia, PA

ORAL COMMUNICATIONS 9 GREATEST AMERICAN HEROES: VETERANS AND MILITARY

Indigo D 11:15 - 12:15 PM

Chairs: Erin Anderson Goodell and Stephen Baldassarri

- 11:15 Brief counseling for veterans with musculoskeletal disorders, risky substance use and service-connection claims
 - Marc Rosen¹, Anne Black², William Becker², Steve Martino³, Ellen Edens¹, Robert Kerns⁴, ¹VA Connecticut Healthcare System, West Haven, CT, ²Yale University, New Haven, CT, ³Yale University Department of Psychiatry, New Haven, CT, ⁴Yale University School of Medicine, West Haven, CT
- 11:30 Incidence of newly diagnosed opioid use disorder in veterans with chronic pain prescribed opioids
 Tessa Rife, David Pennington, Katelyn Brady, Stephanie Cardoos, Payal Mapara, Tauheed Zaman, Steven
 Batki, San Francisco Veterans Affairs Health Care System, San Francisco, CA

- 11:45 Nicotine dependence in us military veterans: Results from the national health and resilience in veterans study Stephen Baldassarri¹, Lorig Kachadourian², Irina Esterlis¹, Robert Pietrzak², ¹Yale University, New Haven, CT, ²VA Connecticut Healthcare System, West Haven, CT
- Deployment, traumatic brain injury, and social influence on recent illicit drug use among U.S. Army Reserve and National Guard couples
 Erin Anderson Goodell¹, D. Lynn Homish², Gregory Homish², ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ²State University of New York at Buffalo, Buffalo, NY

MEDIA FORUM Indigo A
MEDIA FORUM 2018: WHAT'S HOT? 12:15 - 1:45 PM

Chairs: Margaret Chisolm and Bertha Madras

Media Forum 2018: What's Hot M. Chisolm, Johns Hopkins University School of Medicine, Baltimore, MD

TOWN HALL
ARE ABUSE-DETERRENT OPIOID FORMULATIONS
THE ANSWER TO THE UNITED STATES OPIOID
EPIDEMIC? A PERSPECTIVE FROM INDUSTRY,
GOVERNMENT, AND ACADEMIA

Indigo D
12:15 - 1:45 PM
12:15 - 1:45 PM

Chairs: Marco Pravetoni and Sidney Schnoll

How epidemiologic data can inform the real world effects of abuse-deterrent opioid formulations

R. Dart, Rocky Mountain Poison & Drug Center, Denver, CO

The reformulated OxyContin® and its effect on abuse epidemiology

P. Coplan, Purdue Pharma, University of Pennsylvania, Fort Washington, PA

Food and Drug Administration post-marketing surveillance: What's needed for Category 4 labeling

J. McAninch, U.S. Food and Drug Administration, Bozeman, MT

How does a new product with low market penetration meet Category 4 labeling

S. Passik, Collegium Pharmaceutical Inc., Canton, MA

Discussant. Bringing together industry, academia, and government to evaluate and use abuse-deterrent opioid formulations

S. Schnoll, Pinney Associates, Inc., Stamford, CT

MARIAN W. FISCHMAN MEMORIAL AWARD
LECTURE

Indigo BCFG
2:00 - 3:00 PM

Presentation of the Marian W. Fischman Award to Kenzie L. Preston Introduction by George Bigelow In the Footsteps of Fischman Kenzie L. Preston

ORAL COMMUNICATIONS 12 CLUB DRUGS: PARTY LIKE IT'S 1929

Indigo E 3:15 - 5:15 PM

Chairs: Gregory Collins and Katharine Nelson

- 3:15 Neuropharmacology of n-(2-methoxybenzyl)-2,5-dimethoxyphenethylamine (NBOMe) hallucinogens and their 2c counterparts in male rats

 Michael Baumann¹, Kenner Rice², Agnes Sulima², Ann Decker³, Bruce Blough³, John Partilla¹, Joshua Elmore¹, ¹NIDA Intramural Research Program, Baltimore, MD, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD, ³RTI International, Research Triangle Park, NC
- 3:30 In vitro and in vivo pharmacology of "bath salts" constituent 4-chloro-N-ethylcathinone: radioligand binding and locomotor stimulant effects

 William Fantegrossi¹, Aaron Janowski², Amy Eshleman², Saki Fukuda¹, Jyoti Gogoi¹, Lauren Russell¹,
 Cassandra Prioleau³, Li Fang⁴, Srihari Tella⁵, Merle Paule⁶, Takato Hiranita⁷, ¹University of Arkansas for Medical Sciences, Little Rock, AK, ²Oregon Health & Science University, Portland, OR, ³Department of Justice, Springfield, VA, ⁴Drug Enforcement Administration, Washington, DC, ⁵Drug and Chemical Evaluation Section, Arlington, VA, ⁶U.S. Food and Drug Administration, Silver Spring, MD, ⁷NCTR/FDA, Jefferson, AR
- 3:45 Stereoselective effects of the second generation 'bath salt' a-pyrrolidinopentiophenone (α-PVP): Assessments of aversion, locomotor activity and thermoregulation
 Katharine Nelson¹, Briana Hempel¹, Madeline Crissman¹, Claudia Woloshchuk¹, Matthew Clasen¹, Kenner Rice², Anthony Riley¹, ¹The American University, Washington, DC, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- 4:00 α-PVP alters the reinforcing value of activity wheel access in male wistar rats
 Eric Harvey, Kevin Creehan, Mehrak Javadi-Paydar, Jacques Nguyen, Sophia A. Vandewater, Yanabel Grant,
 Tobin Dickerson, Michael Taffe, The Scripps Research Institute, La Jolla, CA
- 4:15 Relative reinforcing effects of the synthetic cathinones MDPV and α-PVP in rhesus monkeys
 Gregory Collins¹, Agnieszka Sulima², Kenner Rice², Charles France¹, ¹University of Texas Health Science
 Center, San Antonio, TX, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- 4:30 Relative reinforcing effectiveness of the synthetic cathinones MDPV and methylone, administered alone and in combination with caffeine in rats
 Brenda Gannon¹, Agnieszka Sulima², Kenner Rice², Gregory Collins¹, ¹University of Texas Health Science Center, San Antonio, TX, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- 4:45 Monoamine re-uptake inhibitors potentiate the discriminative stimulus effects of 3,4methylenedioxypyrovalerone (MDPV) in male Sprague-Dawley rats Lisa Baker, Harmony Risca, Western Michigan University, Kalamazoo, MI
- 5:00 *GHB in adolescent rat attenuates hippocampus-associated learning* Ratna Sircar, The City University of New York, New York, NY

ORAL COMMUNICATIONS 13 THIS IS YOUR BRAIN ON CYTOKINES: NEUROINFLAMMATION AND IMMUNE

Indigo D 3:15 - 5:15 PM

Chairs: Judith Tsui and Lee Anne Cannella

3:15 Pathological changes in the corticostriatal pathway induced by experimental traumatic brain injury and subsequent rewarding effects of cocaine in rodents
Lee Anne Cannella¹, Fionya Tran¹, Allison Andrews², Roshanak Razmpour¹, Scott Rawls¹, Servio Ramirez¹,
¹Lewis Katz School of Medicine at Temple University, Philadelphia, PA, ²Temple University, Philadelphia, PA

- 3:30 N-acetylcysteine-mediated restoration of GLT-1 and inhibition of neuroinflammation in the nucleus accumbens core attenuates cue-induced nicotine seeking

 Mark Namba, Gregory Powell, Julianna Goenaga, Cassandra Gipson-Reichardt, Arizona State University, Tempe, AZ
- 3:45 Granulocyte-colony stimulating factor mediates neuronal and behavioral responses to cocaine
 Drew Kiraly, Arthur Godino, Emily Peck, Erin Calipari, Icahn School of Medicine at Mount Sinai, New York,
 NY
- 4:00 HIV-1 Tat protein expression elevates dopamine levels and increases morphine consumption and conditioned place preference
 Thomas Cirino¹, Shainnel Eans¹, Heather Stacy¹, Marc Kaufman², Jun Zhu³, Jay McLaughlin¹, ¹University of Florida, Gainesville, FL, ²McLean Hospital, Brain Imaging Center, Belmont, MA, ³University of South Carolina, Charleston, SC
- 4:15 Brain inflammation and cognitive bias in methamphetamine dependence
 Ziwei Zhang¹, Kyoji Okita¹, Mark Mandelkern², Andrew Dean¹, Maritza Johnson¹, Arthur Brody³, Judah
 Farahi⁴, Erika Nurmi¹, Lauren Seaman¹, Edythe London¹, ¹University of California Los Angeles, Los
 Angeles, CA, ²University of California Irvine, Irvine, CA, ³University of California San Diego, La Jolla, ⁴VA
 of Greater Los Angeles Health System, Los Angeles, CA
- 4:30 Immune dysregulation among HIV-infected individuals with opioid-use disorders
 Michelle Underwood, Lynn Kunkel, Thuan Nguyen, Erin Merrifield, Philip Todd Korthuis, Christina
 Lancioni, Oregon Health & Science University, Portland, OR
- 4:45 Double dissociation of HIV and SUD effects on tasks dependent on striatal integrity
 Eileen Martin¹, Raul Gonzalez², Jasmin Vassileva³, Jessica Fogel, Antoine Bechara⁴, ¹Rush University
 Medical Center, Chicago, IL, ²Florida International University, Miami, FL, ³Virginia Commonwealth
 University, Richmond, VA, ⁴University of Southern California, Los Angeles, CA
- 5:00 Opioid use disorder among persons with hepatitis C and HIV: Data from 8 health systems

 Judith Tsui¹, Gwen Lapham², Denise Boudreau², Eric Johnson², Ingrid Binswanger³, Chinazo Cunningham⁴,

 Manu Thakral², Julia Arnsten⁴, Andrew Saxon⁵, Joseph Merrill¹, Jeffrey Samet⁶, Gavin Bart⁷, Cynthia

 Campbell⁸, Kathy Bradley², ¹University of Washington, Seattle, WA, ²Kaiser Permanente Washington Health

 Research Institute, Seattle, WA, ³Kaiser Permanente Colorado, Denver, CO, ⁴Montefiore Medical Center,

 Bronx, NY, ⁵VA Puget Sound Healthcare System, Seattle, WA, ⁶Boston University School of Medicine,

 Boston, MA, ⁷University of Minnesota, Minneapolis, MN, ⁸Kaiser Permanente North California Division of

 Research, Oakland, CA

ORAL COMMUNICATIONS 14 SERVING THE UNDERSERVED: HEALTH DISPARITIES

Indigo H 3:15 - 5:15 PM

Chairs: Scott Hadland and Hannah Carliner

- 3:15 The opioid epidemic: Media attention to a white-death crisis

 Stephanie Peglow¹, Paul Harrell¹, Richard Grucza², Andrew Plunk¹, Anna Davids¹, ¹Eastern Virginia Medical School, Norfolk, VA, ²Washington University School of Medicine, St. Louis, MO
- 3:30 Racial/ethnic disparities in referral to substance use disorder screening among justice-involved children Amy Elliott, Micah Johnson, Linda Cottler, University of Florida, Gainesville, FL
- 3:45 Race/ethnicity and sex differences in heroin use among adolescents in 3 US cities: Baltimore, MD, Washington, DC, & Jacksonville, FL (2015)

 Abenaa Jones¹, Kristin Schneider², Sherri-Chanelle Brighthaupt², Julie Johnson¹, Sabriya Linton¹, Renee

- Johnson², ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD
- 4:00 Access to substance abuse treatments: Whites and Hispanics
 Darlene Santiago, Chengli Shen, Darlene Santiago, University of Pittsburgh, PA
- 4:15 Poly-product drug use disparities in adolescents of lower socioeconomic status: Emerging trends in nicotine products, marijuana products, and prescription drugs
 Mariel Bello¹, Rubin Khoddam¹, Yoewon Yoon², Matthew Stone³, Junhan Cho¹, Jungeun Lee², Adam Leventhal¹, ¹University of Southern California, Los Angeles, CA, ²University of Southern California Suzanne Dworak-Peck School of Social Work, Los Angeles, CA, ³University of California San Diego, La Jolla, CA
- 4:30 Evidence-based medication treatment among Medicaid-enrolled youth with opioid use disorder, 2014-2015 Scott Hadland¹, Sarah Bagley¹, Jonathan Rodean², Sharon Levy³, Michael Silverstein¹, Marc Larochelle¹, Bonnie Zima⁴, ¹Boston University School of Medicine, Boston, MA, ²Children's Hospital Association, Lenexa, KS, ³Boston Children's Hospital, Boston, MA, ⁴University of California Los Angeles, Los Angeles, CA
- 4:45 Neighborhood socioeconomic disadvantage, crime, and availability associated with binge drinking from adolescence into emerging adulthood
 Brian Fairman¹, Bruce Simons-Morton¹, Denise Haynie¹, Liu Danping¹, Rise Goldstein², Ralph Hingson³, Stephen Gilman¹, ¹National Institute of Child Health and Human Development, Bethesda, MD, ²Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, ³National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD
- Non-medical prescription opioid use and disorder in midlife by race, gender, and poverty level in the united states
 Hannah Carliner¹, Luis Segura², Julian Santaella-Tenorio², Pia Mauro², Shivani Mantha³, Deborah Hasin², Silvia Martins², ¹New York State Psychiatric Institute, New York, NY, ²Columbia University, New York, NY,
 ³Columbia University Mailman School of Public Health, New York, NY

SYMPOSIUM XIII NEXT GENERATION ANALGESICS

Indigo A 3:15 - 5:15 PM

Chairs: David McCann and Jane Acri

- 3:15 PPL-103: A kappa partial agonist with potent antinociceptive activity, low abuse potential, and reduced risk of overdose

 L. Toll, Florida Atlantic University, Boca Raton, FL
- 3:40 Preclinical evaluation of AT-121, a novel bifunctional NOP/MOP receptor agonist, suggests dual analgesic and anti-opioid therapeutic action without risk of respiratory depression or abuse liability

 N. Zaveri, Astraea Therapeutics, Mountain View, CA
- 4:05 The combination of PF614 (an oxycodone prodrug) and MPAR technology to address risks from overdose L. Kirkpatrick, Ensysce Biosciences Inc., San Diego, CA
- 4:30 Biased ligands as a path to safer analgesics (oliceridine, TRV734 and TRV250)
 J. Violin, Trevena, Chesterbrook, PA
- 4:55 Discussant: New mechanisms to address pain and the future of NIH/NIDA support for pain research N. Volkow, National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD

SYMPOSIUM XIV POLYSUBSTANCE USE IS THE NORM: TIME FOR RESEARCH AND PRACTICE TO RECOGNIZE AND ADDRESS IT

Indigo BF 3:15 - 5:15 PM

Chairs: Richard Saitz and Carlos Blanco

- 3:15 Use of multiple substances in general health settings: challenges for clinical research R. Saitz, Boston University School of Public Health, Boston, MA
- 3:40 Smoking and toking: Translationally relevant animal models J. Marusich, RTI International, Research Triangle Park, NC
- 4:05 Shared versus specific effects of treatment on multiple outcomes in clinical trials using latent variable modeling
 - M. Wall, Columbia University and NYSPI, New York, NY
- 4:30 Public health policy and practice to reduce health consequences of polysubstance use H. Kunins, NYC Department of Health and Mental Hygiene, Queens, NY
- 4:55 Polysubstance use and addiction: Integrating treatment and research needs C. Blanco, Columbia University, New York, NY

WORKSHOP IX SUBSTANCE USE AMONG JUVENILE JUSTICE-INVOLVED ADOLESCENTS: IDENTIFYING AND ADDRESSING THE NEED FOR TREATMENT SERVICES/SASATE BUSINESS MEETING Indigo A 5:30 - 7:30 PM

Chairs: Danica Knight and Michael Dennis

JJ-TRIALS: A multi-site, collaborative initiative to improve substance use interventions for adolescents in the legal system

D. Knight, Texas Christian University, Fort Worth, TX

Understanding the substance use treatment needs of justice-involved youth

S. Belenko, Temple University, Philadelphia, PA

Demonstrating the need for and feasibility of applying a behavioral health services cascade framework in juvenile justice

M. Dennis, Chestnut Health Systems, Normal, IL

Need identification and substance use service receipt among opioid-using justice-involved youth

T. Wiley, National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD

WORKSHOP VIII EPIDEMIOLOGY AND PUBLIC HEALTH RESEARCH METHODS Indigo BF 5:30 - 7:30 PM

Chairs: Howard Chilcoat and Georgiy Bobashev

Integrating contagion and chronic disease models to study drug use epidemics

G. Bobashev, RTI International, Research Triangle Park, NC

Epidemiological analysis of user-generated digital media

M. Gilbert, Booz Allen Hamilton, Portland, OR

Using survey data to understand drug use epidemics

C. Mauro, Columbia University, New York, NY

Uniformity of personalized treatment and individualized prediction of success. Example of naltrexone trials in Russia

B. Carper, RTI International, Research Triangle Park, NC

WORKSHOP X Indigo D WOMEN IN ADDICTIONS TEN YEARS ON: 5:30 - 7:30 PM REVIEWING PROGRESS AND DEVELOPING A RESEARCH AND IMPLEMENTATION ROADMAP

Chairs: Wendee Wechsberg and Loretta Finnegan

Management of pregnant women with comorbid substance use disorders and other psychiatric illness

A. Hammond, Johns Hopkins University School of Medicine, Baltimore, MD

Sex trafficking, HIV and substance use: Current agenda and future needs

F. Browne, RTI International, Research Triangle Park, NC

LGBT: A global perspective on substance use, treatment, and gaps in research

C. Powell, University of Arizona Southwest Institute for Research on Women, Tucson, AZ

Policy and structural barriers to women's engagement in substance use disorder treatment: A global scoping review

M. Lawental, University of South Florida, Tampa, FL

Discussant: What we know and future directions

J. Meyer, Yale University School of Medicine, New Haven, CT

WORKSHOP XI Indigo E 24TH ANNUAL CONTINGENCY MANAGEMENT 5:30 - 7:30 PM WORKING GROUP

Chairs: Diann Gaalema and August Holtyn

WORKSHOP XII
THE NIH CLINICAL TRIALS STEWARDSHIP
INITIATIVE: NEW POLICIES AND PROCEDURES
AND HOW TO IMPLEMENT THEM.

Indigo H 5:30 - 7:30 PM

Chairs: Katia Howlett and David White

Doing human subject research? Changing NIH policies may impact you--overview, timeline, impact

K. Howlett, National Institute of Drug Abuse, National Institutes of Health, Rockville, MD

NIH clinical trials and transparency reforms & initiatives: Impact on applications and review

I. Montoya, National Institutes of Health, Bethesda, MD

Stewardship responsibilities for the investigator: Good clinical practice, registration and reporting, single IRB

D. White, Medications Discovery and Toxicology Branch, Bethesda, MD

Wednesday, June 13, 2018

CPDD/INRC PLENARY

Indigo BCFG 8:00 - 9:00 AM

Welcome to INRC

Alan Budney, CPDD President

Fred Nyberg, INRC President

Report from the National Institute on Drug Abuse

Drug abuse & addiction research: Progress, priorities, & challenges

Nora Volkow, Director, National Institute on Drug Abuse

ORAL COMMUNICATIONS 15 IS THERE A DOWNSIDE? HARM REDUCTION

Indigo D 9:15 - 11:15 AM

Chairs: Howard Chilcoat and Kirsten Smith

9:15 "A lethal dose in every batch": New Hampshire opioid consumers' behavior in seeking fentanyl and drugs known to cause overdose
 Andrea Meier¹, Sarah Moore², Elizabeth Saunders³, Stephen Metcalf², Bethany McLeman⁴, Olivia Walsh⁵, Lisa Marsch², ¹Geisel School of Medicine at Dartmouth, Lebanon, NH, ²Geisel School of Medicine at

Lisa Marsch², ¹Geisel School of Medicine at Dartmouth, Lebanon, NH, ²Geisel School of Medicine at Dartmouth, Hanover, NH, ³The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH, ⁴Northeast Node of the CTN/Dartmouth College, Lebanon, NH, ⁵Dartmouth College, Hanover, NH

- ⁴Northeast Node of the CTN/Dartmouth College, Lebanon, NH, ⁵Dartmouth College, Hanover, NH
- 9:30 Rapid scale-up of low-threshold supervised consumption sites in response to a fentanyl-driven overdose crisis: A rapid ethnographic study in Vancouver, Canada

 Ryan McNeil¹, Samara Mayer², Alexandra Collins², Mary Clare Kennedy³, Jade Boyd³, ¹University of British Columbia, BC Centre on Substance Use, Vancouver, BC, Canada, ²BC Centre on Substance Use, Vancouver, BC, Canada, ³British Columbia Centre on Substance Use, Vancouver, BC, Canada
- 9:45 Kratom use patterns among opioid users in United States: A novel form of harm-reduction?

 Kirsten Smith¹, Amanda Bunting², Robert Walker³, Martin Hall⁴, Olivia Castillo⁵, ¹University of Louisville,

 Versailles, KY, ²University of Kentucky, Lexington, KY, ³University of Kentucky, Center on Drug and

 Alcohol Research, Lexington, KY, ⁴University of Louisville, Louisville, KY, ⁵University of Miami School of

 Law, Coral Gables, FL
- 10:00 Improved frequency of ART initiation and use of harm reduction services among HIV-positive PWID in Ukraine
 - Oleksandr Zeziulin¹, Yuliia Sereda², Pavlo Smyrnov³, Olga Denisiuk³, Tetiana Kiriazova², Sergii Dvoriak², Charles Vitek⁴, Trista Bingham⁵, Roksolana Kulchynska⁴, Kostyantyn Dumchev¹, ¹Ukrainian Institute on Public Health Policy, Kyiv, Ukraine, ²Ukrainian Institute on Public Health Policy, Kiev, Ukraine, ³Alliance for Public Health, Kyiv, Ukraine, ⁴The Centers for Disease Control and Prevention, Kyiv, Ukraine, ⁵The Centers for Disease Control and Prevention, Atlanta, GA
- 10:15 Who doesn't swab, and why? An analysis of correlates and reasons for not swabbing injection sites among Australians who regularly inject drugs
 Sarah Larney¹, Amy Peacock¹, Daniel O'Keefe², Kerryn Butler³, Raimondo Bruno⁴, ¹National Drug and Alcohol Research Centre, Sydney, Australia, ²Burnet Institute, Melbourne, Australia, ³National Drug and Alcohol Research Centre, University of New South Wales, Sydney, Australia, ⁴University of Tasmania, Sydney, Australia
- 10:30 Global review of drug checking services 2017
 Larissa Maier¹, Alison Ritter², Michala Kowalski³, Leigh Coney³, Danielle Ramo¹, Monica Barratt²,
 ¹University of California San Francisco, San Francisco, CA, ²National Drug and Alcohol Research Centre,

- Sydney, Australia, ³NDARC Drug Policy Modelling Program, Randwick, Australia
- 10:45 A retrospective case series of a hospital-based managed alcohol program in Vancouver, Canada Christopher Fairgrieve¹, Seonaid Nolan², Jeffrey Samet³, ¹St. Paul's Hospital, Vancouver, BC, Canada, ²University of British Columbia, Vancouver, BC, Canada, ³Boston University School of Medicine, Boston, MA
- 11:00 Stakeholder perspectives on delivering pre-exposure prophylaxis (PrEP) to people who inject drugs
 Katie Biello¹, Angela Bazzi², Dea Biancarelli², Alberto Edeza¹, Peter Salhaney¹, Matthew Mimiaga¹, MariLynn Drainoni², ¹Brown University, Providence, RI, ²Boston University School of Public Health, Boston, MA

ORAL COMMUNICATIONS 16 STIMULATING DISCOVERIES: COCAINE AND AMPHETAMINE MEDICATIONS DEVELOPMENT

Indigo E 9:15 - 11:15 AM

Chairs: William Stoops and Jessica Higginbotham

- 9:15 Protein kinase Cβ inhibitors alter responding for amphetamine in rats under different schedules of reinforcement
 Rachel Altshuler, Margaret Gnegy, Emily Jutkiewicz, University of Michigan, Ann Arbor, MI
- 9:30 GZ-11608-induced blockade of methamphetamine's reinforcing effect is not surmounted by increasing the dose of methamphetamine in male rats
 Linda Dwoskin¹, Na-Ra Lee¹, Emily Denehy¹, Gaungrong Zheng², Peter Crooks², Michael Bardo¹,
 ¹University of Kentucky, Lexington, KY, ²University of Arkansas for Medical Sciences, Little Rock, AK
- 9:45 The semi-synthetic kappa-agonist 16-Br-salvinorin A decreases the locomotor stimulant effects of cocaine in mice, without causing overt locomotor effects on its own

 Eduardo Butelman¹, Bryan McElroy¹, Samuel Williamson², Thomas Prisinzano², Mary Jeanne Kreek¹, ¹The Rockefeller University, New York, NY, ²University of Kansas, Lawrence, KS
- 10:00 Bidirectional, CB1 receptor-mediated mechanisms of cocaine-memory reconsolidation and subsequent context-induced cocaine-seeking behavior
 Jessica Higginbotham¹, Nicole Jones¹, Shi Min Tan¹, Rong Wang¹, Mark Presker¹, Rita Fuchs², ¹Washington State University, Pullman, WA, ²Washington State University, Chapel Hill, NC
- 10:15 Effects of chronic cocaine self-administration and N-acetyl cysteine treatment on cognitive behavior and cocaine reinstatement in nonhuman primates
 Brian Kangas¹, Rachel Doyle², Stephen Kohut³, Timothy Gillis¹, Jack Bergman³, Marc Kaufman⁴, ¹ADARC McLean Hospital, Belmont, MA, ²McLean Hospital, Belmont, MA, ³McLean Hospital, Harvard Medical School, Belmont, MA, ⁴McLean Hospital, Brain Imaging Center, Belmont, MA
- 10:30 Influence of phendimetrazine maintenance on the reinforcing, subjective and physiological effects of intranasal cocaine
 William Stoops¹, Joseph Alcorn, Justin Strickland¹, Hays Lon¹, Abner Rayapati¹, Joshua Lile², Craig Rush¹,
 ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 10:45 Topiramate-phentermine combinations as a pharmacotherapy for cocaine dependence
 Craig Rush¹, Anna Reynolds¹, B. Levi Bolin¹, William Stoops¹, Joshua Lile², Abner Rayapati¹, Hays Lon¹,
 ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 11:00 Extended release mixed amphetamine salts and topiramate for cocaine dependence: A replication trial with frequent users
 Frances Levin¹, John Mariani², Martina Pavlicova³, C. Jean Choi¹, Amy Mahony², Daniel Brooks², Adam Bisaga⁴, Elias Dakwar⁵, Kenneth Carpenter⁵, Nasir Naqvi⁵, Kyle Kampman⁶, ¹Columbia University and

NYSPI, New York, NY, ²New York State Psychiatric Institute, New York, NY, ³Columbia University Mailman School of Public Health, New York, NY, ⁴Columbia University College of Physicians and Surgeons, New York, NY, ⁵Columbia University, New York, NY, ⁶University of Pennsylvania, Philadelphia, PA

ORAL COMMUNICATIONS 17 TRAUMA

Indigo H 9:15 - 11:15 AM

Chairs: Elizabeth Evans and Jeremy Kane

- 9:15 Gender differences in associations between childhood adversity and mental health comorbidity among adults with opioid use disorders: Results from the 2012-2013 National Epidemiologic Survey on Alcohol and Related Conditions (NESARC-III)

 Elizabeth Evans¹, Christine Grella², ¹University of Massachusetts, Amherst, MA, ²University of California, Chestnut Health Systems, Los Angeles, CA
- 9:30 Measurement of the role of parental closeness in emerging adulthood in altering the association between childhood trauma and adulthood drug use

 Kailyn Pearce¹, Joy Scheidell¹, MacRegga Severe¹, Kelly Quinn², Christopher Frueh³, Daniel Schatz⁴, Maria Khan¹, ¹New York University School of Medicine, New York, NY, ²NYU Rory Meyers College of Nursing, New York, NY, ³University of Hawaii at Hilo, Hilo, ⁴New York University, New York, NY
- 9:45 The effectiveness of trauma-focused cognitive behavioral therapy in reducing substance use among orphans and vulnerable children in Zambia

 Jeremy Kane¹, Paul Bolton¹, Stephanie Skavenski van Wyk¹, Christopher Akiba¹, Saphira Munthali², Ravi Paul³, Laura Murray¹, ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ²Serenity Harm Reduction Programme Zambia, Lusaka, Zambia, ³University of Zambia Teaching Hospital, Lusaka, Zambia
- 10:00 Polyvictimization and women's risk of drug overdose
 Janna Ataiants, Stephen Lankenau, Drexel University Dornsife School of Public Health, Philadelphia, PA
- 10:15 Susceptibility to traumatic stress accelerates the development of cocaine-associated dopamine transients and drives cocaine use vulnerability
 Zachary Brodnik, Rodrigo Espana, Drexel University College of Medicine, Philadelphia, PA
- 10:30 Early trauma exposure, neural response inhibition, and risk for substance use disorders in adolescence and young adults: Trajectories of frontal oscillations during a Go/NoGo task

 Jacquelyn Meyers¹, Vivia McCutcheon², Ashwini Pandey¹, Chella Kamarajan¹, Stacey Subbie¹, David Chorlian¹, Jessica Salvatore³, Victor Hesselbrock⁴, John Kramer⁵, Samuel Kuperman⁵, Arpana Agrawal², Kathleen Bucholz², Bernice Porjesz¹, ¹State University of New York Downstate Medical Center, Brooklyn, NY, ²Washington University School of Medicine, St. Louis, MO, ³Virginia Commonwealth University, Richmond, VA, ⁴University of Connecticut School of Medicine, Farmington, CT, ⁵University of Iowa, Iowa City, IA
- 10:45 Trauma-focused treatment for veterans in buprenorphine maintenance treatment for opioid use disorder Sarah Meshberg-Cohen¹, Anne Black², Marc Rosen¹, Ismene Petrakis¹, ¹VA Connecticut Healthcare System, West Haven, CT, ²Yale University, New Haven, CT
- 11:00 Experiences in emergency department settings among people who use drugs in Vancouver, Canada Samara Mayer¹, Verena Langheimer², Will Small³, Ryan McNeil³, ¹BC Centre on Substance Use, Vancouver, BC, Canada, ²Goldcorp Addiction Medicine Fellowship, Vancouver, BC, Canada, ³University of British Columbia, BC Centre on Substance Use, Vancouver, BC, Canada

SYMPOSIUM XV

Indigo BCFG

FENTANYL ABUSE: FROM MEDICINAL CHEMISTRY TO CLINICAL MANAGEMENT

9:15 - 11:15 AM

Chairs: Sandra Comer and Catherine Cahill

- 9:15 Synthesis of fentanyl: A little goes a long way
 F. Carroll, RTI International, Research Triangle Park, NC
- 9:40 Behavioral pharmacology of fentanyl: Preclinical models
 J. Woods, University of Texas Health Science Center, San Antonio, TX
- 10:05 Illicitly made fentanyl overdose: Prevention and management in real-world settings
 A. Walley, Boston University School of Medicine, Boston, MA
- 10:30 Opioid use disorders: Vaccination as a therapeutic strategy K. Janda, The Scripps Research Institute, La Jolla, CA
- 10:55 Fentanyl: How did we get here and what do we do about it? S. Comer, Columbia University and NYSPI, New York, NY

SYMPOSIUM XVI GUT-BRAIN AXIS IN ADDICTIONS: PEPTIDES, LANCETS AND BUGS

Indigo A 9:15 - 11:15 AM

Chairs: Lorenzo Leggio and Rajita Sinha

- 9:15 Gut hormones, stress and craving: Do they underlie the overlapping biology of addiction and obesity?
 R. Sinha, Yale University School of Medicine, New Haven, CT
- 9:40 Mesolimbic encoding of affective stimuli: Tuning by physiological state and its proxies M. Roitman, University of Illinois, Chicago, IL
- 10:05 A plausible role for gut-brain signaling in increased susceptibility to alcohol and opiate misuse following bariatric surgery
 - E. Orellana, Penn State University of Medicine, Hershey, PA
- 10:30 The role of the microbiota-gut-brain axis in alcohol use disorder
 D. Kiraly, Icahn School of Medicine at Mount Sinai, New York, NY
- 10:55 Discussant
 A. Hajnal, Penn State College of Medicine, Hershey, PA

POSTER III NICOTINE ANIMAL BEHAVIOR

LUNCH

Sapphire ABC/EFG 11:30 - 1:30 PM

Odd numbered posters manned first hour; Even numbered, second hour

- 1 N-Acetylcysteine exacerbates cue-induced reinstatement of nicotine seeking in an estrous cycle phasedependent manner
 - Julianna Goenaga¹, Jose Pina¹, Sandy Phan¹, Laura Vesala¹, Amanda Ariola¹, Jacqueline Moreno¹, Jason Nguyen¹, Gregory Powell¹, Mark Namba¹, Stephanie Koebele¹, Alesia Prakapenka¹, Erin McClure², Heather Bimonte-Nelson¹, Cassandra Gipson-Reichardt¹, ¹Arizona State University, Tempe, AZ, ²Medical University of South Carolina, Charleston, SC
- 2 Stress- and drug priming-induced reinstatement of drug-seeking in rats: comparison of nicotine and cigarette smoke condensate
 - Seong Shoon Yoon¹, In Soo Ryu², Young-Eun Lee², Zhan-Hui Li², Eun Sang Choe³, Joung-Wook Seo², ¹Korea Institute of Toxicology, Daejeon, Republic of Korea, ²Korea Institute of Toxicology, Daejeon, Korea,

- ³Pusan National University, Busan, Korea, Republic of
- Comparison of rewarding and reinforcing properties of nicotine and cigarette smoke condensate in rodents In Soo Ryu¹, Seong Shoon Yoon², Young-Eun Lee¹, Zhan-Hui Li¹, Eun Sang Choe³, Joung-Wook Seo¹, ¹Korea Institute of Toxicology, Daejeon, Korea, Republic of, ²Korea Institute of Toxicology, Daejeon, Republic of Korea, ³Pusan National University, Busan, Korea, Republic of
- 4 Effects of dextromethorphan on nicotine-induced reward, behavioral sensitization, withdrawal signs, and drug seeking-related behavior in rats
 Eagle Yi-Kung Huang¹, Lok-Hi Chow², Yuan-Hao Chen³, Ai-Lun Tsai¹, ¹National Defense Medical Center, Taipei, Taiwan, ²Taipei Veterans General Hospital, New Taipei City, Taiwan, ³Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan
- 5 *E-cigarette based inhalation of nicotine increases locomotion in rats*Mehrak Javadi-Paydar, Sophia A. Vandewater, Michael Taffe, The Scripps Research Institute, La Jolla, CA

POSTER III SEX/GENDER I

- Juvenile fluoxetine exposure induces an enduring anxiogenic-like behavioral profile in female c57bl/6 mice Sergio Iñiguez¹, Francisco Flores-Ramirez¹, Arturo Zavala², Anapaula Themann¹, Minerva Rodriguez¹, ¹University of Texas at El Paso, El Paso, TX, ²California State University Long Beach, Long Beach, CA
- 7 Sex differences in oxycodone preference choice task
 Julian Gerson, University of California Santa Barbara, Goleta, CA
- Birth control knowledge and interest in reproductive health services in patients receiving treatment for opioid use disorder
 Laura Lander¹, Jonathan Stoltman¹, Julie Hicks Patrick¹, Mishka Terplan², ¹West Virginia University, Morgantown, WV, ²Virginia Commonwealth University, Richmond, VA
- Birth control use and talking with health professionals about birth control in female patients receiving treatment for opioid use disorder in rural Appalachia

 Jonathan Stoltman¹, Laura Lander¹, Hendree Jones², Julie Hicks Patrick¹, Mishka Terplan³, ¹West Virginia University, Morgantown, WV, ²University of North Carolina at Chapel Hill, Carrboro, NC, ³Virginia Commonwealth University, Richmond, VA
- Sex differences among treatment-seeking men and women who use opioids
 Tanya Saraiya¹, Martina Pavlicova², Mei-Chen Hu³, Denise Hien⁴, Edward Nunes⁵, Aimee Campbell⁵,
 ¹Adelphi University & The TRACC Program, New York, NY, ²Columbia University Mailman School of Public Health, New York, NY, ³Columbia University, New York, NY, ⁴Adelphi University, Garden City, NY,
 ⁵Columbia University and NYSPI, New York, NY
- Aimee Campbell¹, Celestina Barbosa-Leiker², Sarah Mennenga³, Martina Pavlicova⁴, Jennifer Scodes¹, Shannon Mitchell⁵, Patricia Novo³, Tanya Saraiya⁶, Edward Nunes¹, Shelly Greenfield⁷, ¹Columbia University and NYSPI, New York, NY, ²Washington State University College of Nursing, Spokane, WA, ³New York University School of Medicine, New York, NY, ⁴Columbia University Mailman School of Public Health, New York, NY, ⁵Friends Research Institute, Baltimore, MD, ⁶Adelphi University & The TRACC Program, New York, NY, ⁷McLean Hospital, Harvard Medical School, Belmont, MA
- Gender differences in opioid agonist treatment and outcomes among persons with opioid use disorder in the United States

 Jennifer Manuel¹, Dace Svikis², Cristina Bares³, ¹New York University, New York, NY, ²Virginia

- Commonwealth University, Richmond, VA, ³University of Michigan, Ann Arbor, MI
- Gender differences in nonmedical prescription drug use trends among adolescents in three South American countries from 2007-2015
 Alexander Perlmutter¹, Ariadne Rivera-Aguirre², Alvaro Castillo-Carniglia², Pia Mauro¹, Magdalena Cerda², Silvia Martins¹, ¹Columbia University, New York, NY, ²University of California Davis, Sacramento, CA
- Alcohol use among individuals with prescription opiate use disorder: The role of distress tolerance and gender Amanda Gilmore, Jennifer Jones, Angela Moreland, Christine Hahn, Kathleen Brady, Sudie Back, Medical University of South Carolina, Charleston, SC
- Sex differences in sources and routes of non-medical prescription opioid use in youth
 Vicki Osborne, Catherine Woodstock Striley, Linda Cottler, University of Florida, Gainesville, FL
- Male-female differences in heroin incidence
 Samantha Bauer¹, James Anthony², ¹Michigan State University, East Lansing, MI, ²Michigan State University, Lansing, MI
- 17 Sex differences in risk factors for opioid overdose
 Munachimso Amadife¹, Jermaine Jones², Sandra Comer¹, ¹Columbia University and NYSPI, New York, NY,

 ²Columbia University College of Physicians and Surgeons, New York, NY
- A gender paradox in overdose among young opioid users
 Kelly Quinn¹, Honoria Guarino², Pedro Mateu-Gelabert², ¹NYU Rory Meyers College of Nursing, New York, NY, ²National Development and Research Institute, Inc., New York, NY

POSTER III STIMULANTS: HUMAN STUDIES

- Differential effects of crack-cocaine and crack-cocaine + cannabis on neurocognitive functioning
 Hercilio Oliveira¹, Priscila Dib Gonçalves², Mariella Ometto³, Bernardo Santos³, André Malbergier³, Ricardo Amaral³, Sergio Nicastri⁴, Arthur Andrade³, Paulo Jannuzzi Cunha⁵, ¹Universidade de Sao Paulo, Sao Paulo, Brazil, ²University of São Paulo, São Paulo, Brazil, ³University of Sao Paulo Medical School, São Paulo, Brazil
- 20 Cognitive function in aging cocaine smokers
 Thomas Chao¹, Margaret Haney², Ziva Cooper³, Gillinder Bedi⁴, ¹New York State Psychiatric Institute, New York, NY, ²Columbia University Medical Center, New York, NY, ³Columbia University and NYSPI, New York, NY, ⁴Columbia University, New York, NY
- 21 Personality and neurocognitive dimensions of impulsivity as candidate endophenotypes specific to heroin and amphetamine dependence
 Elizabeth Long¹, Georgi Vasilev², Radka Kaneva³, F. Gerard Moeller¹, Jasmin Vassileva¹, ¹Virginia Commonwealth University, Richmond, VA, ²Bulgarian Addictions Institute, Sofia, ³Medical University Sofia, Sofia, Bulgaria
- The serotonin-2C agonist lorcaserin potentiates the subjective effects of cocaine, but not its self-administration Ken Grasing1, Thomas Newton2, 1Kansas City VA Medical Center, Kansas City, MO, 2Baylor College of Medicine, Houston, TX
- Exploring the actions of intranasal naloxone (INN) on limbic activation triggered by cocaine cues: a case series.

- Kyle Kampman¹, Kanchana Jagannathan¹, Kimberly Young¹, Paul Regier¹, Stefanie Darnley¹, Jesse Suh¹, Elliott Berkowitz-Sturgis¹, Michael Gawrysiak², Regina Szucs-Reed¹, Charles O'Brien³, Arvind Agrawal⁴, Roger Crystal, Tanya Ramey⁵, Anna Rose Childress¹, ¹University of Pennsylvania, Philadelphia, PA, ²West Chester University of Pennsylvania, West Grove, PA, ³University of Pennsylvania, VA Medical Center, Philadelphia, PA, ⁴Opiant, Harrow, United Kingdom, ⁵National Institutes of Health, Bethesda, MD
- 24 The effects of stress and impulsivity on treatment retention and outcomes among Black and White cocaine users
 Angela Haeny¹, Brian Kiluk², Charla Nich¹, Donna LaPaglia¹, Kathleen Carroll², ¹Yale University, New Haven, CT, ²Yale University School of Medicine, New Haven, CT
- Considerations when assessing delay discounting among individuals with SUD: comparison of AUC, log k, and AUClog

 Jin-Ho Yoon¹, Matthew Weaver², Richard De La Garza, II³, Thomas Newton³, Robert Suchting¹, Gregory Brown⁴, Yasmine Omar⁵, Ilana Haliwa¹, ¹University of Texas Health Science Center, Houston, TX, ²Mercyhurst University, Erie, PA, ³Baylor College of Medicine, Houston, TX, ⁴University of Texas at Austin, Austin, TX, ⁵Rutgers University, New Brunswick, NJ
- Neuroactive steroid and pregnenolone levels in men and women with cocaine use disorder

 Verica Milivojevic¹, Gustavo Angarita¹, Jonathan Covault², Rajita Sinha¹, ¹Yale University School of Medicine, New Haven, CT, ²University of Connecticut, Farmington, CT
- A study of occupational therapy-based cognitive rehabilitation to improve cognition in veterans with cocaine use disorder: Feasibility & tolerability
 Rajkumar Kalapatapu¹, Gordon Giles², Steven Batki³, ¹University of California San Francisco, San Francisco, CA, ²Samuel Merritt University, Oakland, CA, ³San Francisco Veterans Affairs Health Care System, San Francisco, CA
- 28 Methamphetamine-paired contexts acquire incentive salience: A human CPP study Emma Childs, Joseph Lutz, Nia Sotto, University of Illinois, Chicago, IL
- Ecological momentary assessments optimize sexual risk reduction among gay and bisexual men enrolled in a methamphetamine abuse treatment program
 Cathy Reback¹, Dennie Rünger¹, Jesse Fletcher¹, Dallas Swendeman², ¹Friends Research Institute, Los Angeles, CA, ²University of California Los Angeles, Los Angeles, CA
- 30 Sexual risk associated with having sex with men among men who use methamphetamine in a Mexico-US. border city
 Oralia Loza¹, João Ferreira-Pinto¹, Maria Elena Ramos Rodriguez², Rebeca Ramos³, ¹University of Texas at El Paso, El Paso, TX, ²Programa Compañeros, A.C., Ciudad Juárez, Mexico, ³Alliance of Border Collaboratives, El Paso, TX
- Law enforcement reports of increasing methamphetamine use and associations with the opioid epidemic Mance Buttram, Steven Kurtz, Nova Southeastern University, Miami, FL

POSTER III POLICY

- 32 Linking DSM-V alcohol-use disorders with policy-relevant correlates in young adults: Implications for an evidence-informed national alcohol harm reduction policy
 Sirine Anouti¹, Lilian Ghandour², ¹American University of Beirut, Beirut, Lebanon, ²American University of Beirut, Beirut
- The impact of minimum legal drinking age (MLDA) laws on self-reported violent victimization among young people in Canada, 1988-2009: A regression-discontinuity approach.

- Russell Callaghan¹, Marcos Sanches², Jodi Gatley³, Claire Benny⁴, ¹Northern Medical Program, Prince George, BC, Canada, ²Centre for Addiction and Mental Health, Toronto, ON, Canada, ³University of Northern British Columbia, Prince George, ⁴University of British Columbia, Vancouver, BC, Canada
- Health reform and health insurance among persons who use drugs in eastern Kentucky: A prospective cohort analysis
 Hannah Knudsen¹, Michelle Lofwall², Sharon Walsh¹, April Young³, Jennifer Havens², ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY, ³University of Kentucky, College of Public Health, Lexington, KY
- Cost-effectiveness of expanding opioid agonist therapy in Ukraine: dynamic modeling analysis
 Olga Morozova¹, Forrest Crawford¹, Sergii Dvoriak², Frederick Alice³, ¹Yale University, New Haven, CT,
 ²Ukrainian Institute on Public Health Policy, Kiev, Ukraine, ³Yale University School of Medicine, New Haven, CT
- 36 Naloxone training and distribution among users does not increase risky opioid use Karen Cropsey, Samantha Schiavon, Richard Shelton, University of Alabama, Birmingham, AL
- 37 State naloxone access laws and opioid overdose death rates Laura Monico, Jan Gryczynski, Robert Schwartz, Shannon Mitchell, Friends Research Institute, Baltimore, MD
- Pharmaceutical industry marketing of opioid products to physicians and opioid prescribing: A national study Brandon Marshall¹, Magdalena Cerda², Yu Li³, Scott Hadland⁴, ¹Brown School of Public Health, Providence, RI, ²University of California Davis, Sacramento, CA, ³Brown University School of Public Health, Providence, RI, ⁴Boston University School of Medicine, Boston, MA
- 39 Trends in opioid prescribing volume and risk indicators in the context of PDMP policy changes: 2010-2016

 Jenna McCauley¹, Sarah Ball¹, Jingwen Zhang¹, William Moran¹, Kit Simpson¹, Khosrow Heidari², Kathleen Brady¹, Patrick Mauldin¹, ¹Medical University of South Carolina, Charleston, SC, ²South Carolina Department of Health and Environmental Control, Columbia, SC
- The associations of neighborhood availability of marijuana dispensaries and buprenorphine treatment practitioners with hospital stays related to opioid analgesics
 Di Liang, Yuyan Shi, University of California San Diego, La Jolla, CA
- Illicit drug use among young adult marijuana users in Los Angeles: a qualitative analysis of contextual factors, life events, and marijuana use

 Ekaterina Fedorova¹, Stephen Lankenau², ¹Drexel University, Philadelphia, PA, ²Drexel University Dornsife School of Public Health, Philadelphia, PA
- 42 Do recreational marijuana laws impact state-level alcohol and tobacco use?

 Christine Mauro¹, Thomas Corbeil¹, Daniel Giovenco¹, Pia Mauro¹, Magdalena Cerda², Silvia Martins¹,

 ¹Columbia University, New York, NY, ²University of California Davis, Sacramento, CA
- 43 Marijuana and other drug use after becoming a medical marijuana patient: A mixed-method approach
 Avat Kioumarsi¹, Carolyn Wong², Ellen Iverson², Stephen Lankenau³, ¹Drexel University, Columbia, MD,

 ²Children's Hospital Los Angeles, Los Angeles, CA, ³Drexel University Dornsife School of Public Health,
 Philadelphia, PA
- 44 A survey assessing drug legalization beliefs
 Alexis Hammond, Kelly Dunn, Eric Strain, Johns Hopkins University School of Medicine, Baltimore, MD
- 45 Professional students' knowledge attitudes and perceptions of the medical use of cannabis Lynneice Bowen, Aimee McRae-Clark, Jeffrey Korte, Medical University of South Carolina, Charleston, SC
- Marijuana use and attitudes in the context of recreational cannabis legalization in California: Comparison of 2016 and 2017 in the California Adult Tobacco Survey
 Danielle Ramo, Manpreet Kaur, Corie Apollonio, Laurie Jacobs, Joanne Spetz, Mandy Chan, Laura Schmidt, University of California San Francisco, San Francisco, CA

47 Associations between state-level policy liberalism, cannabis use, and cannabis use disorder from 2004 to 2012: Looking beyond medical cannabis law status

Morgan Philbin¹, Pia Mauro², Julian Santaella-Tenorio², Christine Mauro², Elizabeth Kinnard¹, Magdalena Cerda³, Silvia Martins², ¹Columbia University Mailman School of Public Health, New York, NY, ²Columbia University, New York, NY, ³University of California Davis, Sacramento, CA

POSTER III PREVENTION

- How do we measure craving? Intensive longitudinal assessment of craving and cannabis use among young adults with problematic use.
 Matthew Enkema¹, Adam Kuczynski¹, Sarah Bowen², Kristen Lindgren¹, Kevin Hallgren¹, Mary Larimer¹, Christine Lee¹, ¹University of Washington, Seattle, WA, ²Pacific University, Forest Grove, OR
- 49 Characteristics of patients using cannabis in a surgical cohort
 Jenna Goesling, Stephanie Moser, Chad Brummett, Kevin Boehnke, Erin Bonar, University of Michigan, Ann
 Arbor, MI
- An unsanctioned supervised consumption service in the United States: Data from the first three years of operation
 Peter Davidson¹, Alex Kral², ¹University of California San Diego, La Jolla, CA, ²RTI International, Research Triangle Park, NC
- Looking ahead: Syringe distribution at a rural syringe services program Withdrawn
 Sean Allen¹, Allison O'Rourke², Sherri-Chanelle Brighthaupt³, Michael Brumage⁴, Susan Sherman¹, ¹Johns Hopkins Hospital, Baltimore, MD, ²George Washington University, Washington, DC, ³Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD, ⁴Kanawha-Charleston Health Department, Charleston, WV
- Community members are Interested in Deterra® drug deactivation pouches to dispose of unused medications Linda Cottler¹, Ayodeji Otufowora², Dottie Baker³, Kathleen Egan¹, ¹University of Florida, Gainesville, FL, ²University of Florida, College of Public Health and Health Professions, Gainesville, FL, ³Alachua County Health Promotion and Wellness Coalition, Gainesville, FL
- Perceived HIV risk mediates the relationship between HIV risk behavior and willingness to use pre-exposure prophylaxis (PrEP among drug users
 Roman Shrestha¹, Michael Copenhaver², ¹University of Connecticut, Branford, CT, ²University of Connecticut, Storrs, CT
- Effect of a behavioral activation treatment on reductions in HIV sexual transmission risk behavior from pretreatment to a 1-year follow up

 Catherine Paquette¹, Jessica Magidson², CJ Seitz-Brown³, Stacey Daughters¹, ¹University of North Carolina at Chapel Hill, Chapel Hill, NC, ²Massachusetts General Hospital, Harvard Medical School, Boston, MA, ³University of Maryland, College Park, MD
- Evaluating the administration of naloxone in hospital settings
 Kelly Barth, Genevieve Hayes, Keri Holmes-Maybank, Medical University of South Carolina, Charleston, SC
- Opioid education and naloxone distribution programs for residents and staff of abstinence only recovery homes may decrease risk of opioid overdose

 Karen Ablondi¹, Benjamin Howell¹, Frank Buono¹, Tamara Malm², Ashton Gores³, Anthony Eller³, Declan Barry¹, Curtis Bone¹, ¹Yale University School of Medicine, New Haven, CT, ²St. Joseph School of Pharmacy, Hartford, CT, ³Yale School of Public Health, New Haven, CT
- 57 Opportunities and challenges from a tenant-led overdose response intervention in single room occupancy

- hotels in Vancouver, Canada
- Geoff Bardwell¹, Taylor Fleming², Alexandra Collins², Jade Boyd³, Ryan McNeil¹, ¹University of British Columbia, BC Centre on Substance Use, Vancouver, BC, Canada, ²BC Centre on Substance Use, Vancouver, BC, Canada, ³British Columbia Centre on Substance Use, Vancouver, BC, Canada
- 58 Understanding the social geography of overdose prevention site utilization in Vancouver, Canada: Facilitators and barriers to engagement
 Alexandra Collins¹, Jade Boyd², Samara Mayer¹, Mary Clare Kennedy², Ryan McNeil³, ¹BC Centre on Substance Use, Vancouver, BC, Canada, ²British Columbia Centre on Substance Use, Vancouver, BC, Canada, ³University of British Columbia, BC Centre on Substance Use, Vancouver, BC, Canada
- Hardiness protects against future substance use in US Army Reserve/National Guard soldiers
 D. Lynn Homish¹, Paul Bartone², Rachel Hoopsick¹, Bonnie Vest¹, Gregory Homish¹, ¹State University of New York at Buffalo, Buffalo, NY, ²National Defense University, Washington, DC
- Acceptability of mindfulness-based relapse prevention for ethnically diverse women

 Tara Bautista¹, Hortensia Amaro², David Black³, ¹Arizona State University, Phoenix, AZ, ²ISC School of Social Work, Los Angeles, CA, ³University of Southern California, Los Angeles, CA
- 61 A culturally adapted parenting intervention for Latino/a immigrant families: Integrating culture and evidence-based knowledge
 Jose Parra-Cardona¹, Hsueh-Han Yeh², James Anthony³, ¹University of Texas at Austin, Austin, TX, ²Henry Ford Health System, Detroit, MI, ³Michigan State University, Lansing, MI
- Substance use and high-risk firearm behaviors (HRFBs) among youth treated in an urban Emergency Department: Preliminary findings from Project IntERact

 Patrick Carter¹, Maureen Walton², James Cranford¹, Marc Zimmerman¹, Ken Resnicow³, Bethany Buschmann⁴, Rebecca Cunningham¹, ¹University of Michigan, Ann Arbor, MI, ²University of Michigan, Addiction Center, Ann Arbor, MI, ³University of Michigan School of Public Health, Ann Arbor, MI, ⁴University of Michigan Injury Prevention Center, Ann Arbor, MI
- Pediatrician-initiated screening and referral to treatment (prevention) for 10- to 13-year-olds at high risk for substance use initiation before high school

 Ty Ridenour¹, Maureen Reynolds², Daniel Shaw², ¹RTI International, Research Triangle Park, NC,

 ²University of Pittsburgh, Pittsburgh, PA
- The main barriers and facilitators to implement Adolescent Screening and Brief Intervention in primary care unit: a follow up from 17 years.
 Denise De Micheli¹, Bruno Pinheiro², ¹Federal University of São Paulo, Guarulhos, Brazil, ²Universidade Federal de Sao Paulo, São Paulo, Brazil
- A missing voice: the consent practice in school-based drug prevention programs in Taiwan Chuan-Yu Chen¹, Yu Lo¹, Wenmay Rei¹, Shao-You Fang², Su-Hui Chang², Joyce Yen Fen³, ¹National Yang-Ming University, Taipei, Taiwan, ²National Taiwan University, Children and Family Research Center, Taipei, ³Children and Family Research Center, Taipei, Taiwan
- Evaluating the translational potential of NIDA-sponsored behavioral clinical trials Stephen Magura, Brad Watts, Western Michigan University, Kalamazoo, MI

POSTER III LITERATURE REVIEW

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67 Clinical and toxicological profile of NBOMESs: A systematic review
Nino Marchi¹, Juliana Scherer², Leticia Fara¹, Lysa Remy³, Rafaela Ornell², Monique Reis⁴, Amanda

- Zamboni⁴, Mariana Paim¹, Tais Fiorentin³, Carlos Alberto Wayhs⁴, Lisia von Diemen², Flavio Pechansky², Felix Kessler², Renata Limberger³, ¹Center for Drug and Alcohol Research, Porto Alegre, Brazil, ²Center for Drug and Alcohol Research, Federal University of Rio Grande do Sul, Porto Alegre, ³Federal University of Rio Grande do Sul, Porto Alegre, ⁴Labtoxico, Federal University, Porto Alegre, Brazil
- 68 Efficacy of ketamine in the treatment of substance use disorders: A review of the literature
 Jennifer Jones, Camilo Mateus, Robert Malcolm, Sudie Back, Medical University of South Carolina,
 Charleston, SC
- 69 Examining the sensitivity of purchase tasks to individual differences in risk among substance users: A literature review
 Ivori Zvorsky¹, Tyler Nighbor², Allison Kurti², Stephen Higgins², ¹Vermont Center on Behavior and Health, Burlington, VT, ²University of Vermont, Burlington, VT
- Sensation-seeking personality trait and its association to drug seeking behavior in adolescents: A systematic review of the literature
 Thiago Fidalgo¹, Nitasha Sharma², Sheila C. Caetano¹, Zila M. Sanchez¹, Silvia Martins³, ¹Universidade Federal de Sao Paulo, São Paulo, ²Columbia University Mailman School of Public Health, New York, NY, ³Columbia University, New York, NY
- Limited inclusion of women in functional neuroimaging studies of opioid-use disorder: A systematic review Hestia Moningka¹, Dustin Scheinost², Sarah Yip², ¹Yale Child Study Center and University College London, New Haven, CT, ²Yale University, New Haven, CT
- 72 Pharmacogenetics of methadone adverse events Francina Fonseca, Claudio Castillo, Gloria Marin, Claudio Tamarit, Lina Oviedo, Marta Torrens, Institut de Neuropsiquiatria i Addiccions, Barcelona, Spain
- 73 The case for providing opioid agonist therapy in the hospital setting Kelsey Priest, Oregon Health & Science University, Portland, OR
- 74 Knowledge synthesis of the effectiveness of prescription monitoring programs Beth Sproule, Centre for Addiction and Mental Health, Toronto, ON, Canada
- Effect of prescription drug monitoring programs on nonfatal and fatal drug overdoses: A systematic review David Fink¹, Julia Schleimer², Aaron Sarvet³, Kiran Grover², C Delcher⁴, June Kim⁵, Alvaro Castillo-Carniglia⁶, Ariadne Rivera-Aguirre⁶, Stephen Henry⁶, Silvia Martins², Magdalena Cerda⁶, ¹Columbia University Mailman School of Public Health, New York, NY, ²Columbia University, New York, NY, ³Harvard Medical School, Boston, MA, ⁴University of Florida, Gainesville, FL, ⁵New York University, New York, NY, ⁶University of California Davis, Sacramento, CA
- 76 Transitional trends in women's prescription drug misuse: A systematic review
 Bridgette Peteet, Cami Mosley, Brittany Miller-Roenigk, Caravella McCuistian, Shapree Dixon, University of Cincinnati, Cincinnati, OH
- Extremely low HIV incidence among PWID: Terminology, high/middle income settings, methodology, and addressing new outbreaks
 Don Des Jarlais¹, Risk Factors, DRIVE & Recent HIV Outbreaks Study Team², ¹Icahn School of Medicine at Mount Sinai, New York, NY, ²Mount Sinai School of Medicine, New York, NY
- Use of opioids and stimulants by people who inject drugs: A multi-stage systematic review and meta-analysis of global evidence
 Amy Peacock¹, Adam Trickey², Sarah Larney¹, Samantha Colledge¹, Janni Leung³, Jason Grebely⁴, Evan Cunningham⁵, Miranda Cuming⁶, Jack Stone², Peter Vickerman², Louisa Degenhardt¹, ¹National Drug and Alcohol Research Centre, Sydney, Australia, ²Bristol University, Clifton, United Kingdom, ³NDARC, UNSW, Australia, Brisbane, Australia, ⁴The Kirby Institute, Sydney, Australia, ⁵University of New South Wales, Sydney, Australia, ⁶University of Bristol, Bristol

- Pre-exposure prophylaxis (PrEP) for people who inject drugs? A scoping review of HIV treatment adherence research
 Angela Bazzi¹, Mari-Lynn Drainoni¹, Dea Biancarelli¹, Josh Hartman¹, Matthew Mimiaga², Katie Biello²,
 ¹Boston University School of Public Health, Boston, MA, ²Brown University, Providence, RI
- Factors associated with uptake or willingness to use pre-exposure prophylaxis (PrEP) among people who inject drugs (PWID): A systematic review
 Yohansa Fernández, New York University, New York, NY
- Addiction-related characteristics of substances users in harm reduction settings: A systematic review Charlotte Kervran¹, Fuschia Serre¹, Cecile Denis², Perrine Roux³, Marie Jauffret-Roustide³, Laurence Lalanne⁴, Melina Fatseas⁵, Jean-Pierre Daulouede⁶, Marc Auriacombe¹, ¹Université de Bordeaux, Bordeaux, ²University of Pennsylvania, Philadelphia, PA, ³INSERM, Marseille, ⁴University Hospital of Strasbourg, Strasbourg, ⁵Centre Hospitalier Charles Perrens, Bordeaux, France, ⁶Bizia Addiction Clinic, Bayonne
- 82 Variability in the definition of "daily use" of cannabis across three large U.S. epidemiological surveys Chloe Lee, Silvia Martins, Pia Mauro, Columbia University, New York, NY
- Cannabis and cannabinoids for the treatment of people with chronic non-cancer pain conditions: A systematic review and meta-analysis

 Emily Stockings¹, Gabrielle Campbell², Wayne Hall³, Suzanne Nielsen⁴, Dino Zagic⁵, Rakin Rahman⁵, Bridin Murnion⁶, Megan Weier⁴, Michael Farrell⁷, Louisa Degenhardt⁷, ¹National Drug and Alcohol Research Centre, University of New South Wales, Sydney, Australia, ²University of South Wales, Sydney, Australia, ³University of Queensland, Brisbane, Australia, ⁴University of New South Wales, Sydney, Australia, ⁵University of New South Wales, Randwick, Australia, ⁶University of Sydney, Sydney, Australia, ⁷National Drug and Alcohol Research Centre, Sydney, Australia
- Medical marijuana laws and adolescent marijuana use in the United States: a systematic review and meta-analysis
 Aaron Sarvet¹, Melanie Wall², David Fink³, Emily Greene⁴, Katherine Keyes⁵, Magdalena Cerda⁶, Deborah Hasin⁴, ¹New York State Psychiatric Institute, New York, NY, ²Columbia University and NYSPI, New York, NY, ³Columbia University Mailman School of Public Health, New York, NY, ⁴Columbia University, New York, NY, ⁵Columbia University Mailman School of Public Health, Newark, NJ, ⁶University of California Davis, Sacramento, CA
- Does liberalization of cannabis policy influence adolescents' levels of use? A systematic review
 Maria Melchior, Camille Bolze, Félix Hausfater, Murielle Mary-Krause, Marine Azevedo Da Silva, Pierre
 Louis Institute for Epidemiology and Public Health, Department of Social Epidemiology, Paris, France
- 86 Analysis of existing problematic mobile phone and smartphone use scales
 Bethany Harris, Sherecce Fields, Timothy Regan, Texas A&M University, College Station, TX
- Policing behaviors and HIV/drug-related risk behaviors among people who inject drugs a literature review Leo Beletsky¹, Liliana Avalos², Christopher Venegas², Javier Cepeda², Pieter Baker², ¹Northeastern University, Boston, MA, ²University of California San Diego, La Jolla, CA
- Brittany Dennis¹, Pavel Roshanov², Ashley Bonner², Leen Naji², Monica Bawor², James Paul², Michael Varenbut³, Jeff Daiter³, Carolyn Plater³, Andrew Worster², Guillaume Pare², David Marsh⁴, Dipika Desai⁵, Lehana Thabane², Zainab Samaan², ¹Peter Boris Centre for Addictions Research, Hamilton, ON, Canada, ²McMaster University, Hamilton, ON, Canada, ³Canadian Addiction Treatment Centres, Markham, ON, Canada, ⁴Northern Ontario School of Medicine, Sudbury, ON, Canada, ⁵Population Health Research Institute, Hamilton, ON, Canada

POSTER III

Sapphire ABC/EFG

ADOLESCENT DRUG ABUSE II

11:30 - 1:30 PM

- How do demographics, psychosocial factors, and access to care, lead to receiving treatment among adolescents and young adults at risk for a substance use disorder?
 Jose Martinez, Emily Garcia, William Kazanis, Megan Curtis, Claudina Tami, Suyen Schneegans, Jennifer Sharpe Potter, University of Texas Health Science Center, San Antonio, TX
- Screening and brief intervention of drug use in adolescence from the professional perspective
 Maria Angélica Alves da Silva¹, Andre Luiz Monezi Andrade², Bruno Pinheiro³, Denise De Micheli⁴,
 ¹Federal University of São Paulo, São Paulo, Brazil, ²Universidade Federal de Sao Paulo, São Paulo,
 ³Universidade Federal de Sao Paulo, São Paulo, Brazil, ⁴Federal University of São Paulo, Guarulhos, Brazil
- 91 Factors associated with injection initiation during adolescence
 Sara Warfield¹, Robin Pollini¹, Jennifer Syverston², Catherine Paquette³, ¹West Virginia University,
 Morgantown, WV, ²University of California Riverside, Riverside, CA, ³University of North Carolina at Chapel Hill, Chapel Hill, NC
- 92 Latent classes of internal assets and behavior problems in at-risk adolescents
 Meeyoung Min¹, Dalhee Yoon¹, Sonia Minnes², Lynn Singer¹, ¹Case Western Reserve University, Cleveland,
 OH, ²Case Western Reserve University, Jack, Joseph and Morton Mandel School of Applied Social Sciences,
 Cleveland, OH
- Body self-image, physical activity level and drug use in adolescence

 Bruno Pinheiro¹, Maria Angélica Alves da Silva², Andre Luiz Monezi Andrade³, Denise De Micheli⁴,

 ¹Universidade Federal de Sao Paulo, São Paulo, Brazil, ²Federal University of São Paulo, São Paulo, Brazil,

 ³Universidade Federal de Sao Paulo, São Paulo, ⁴Federal University of São Paulo, Guarulhos, Brazil
- What influences safe medication practices: Investigating the relationship between parents' intentions, selfefficacy, and knowledge
 Emily Garcia, Jose Martinez, Megan Curtis, Claudina Tami, William Kazanis, Suyen Schneegans, Jennifer Sharpe Potter, University of Texas Health Science Center, San Antonio, TX
- Exploring cannabis-specific parenting as a mechanism of the intergenerational transmission of cannabis use and cannabis use disorder on offspring adolescent cannabis use

 Ariel Sternberg, Melanie Hill, Hye Won Suk, Madeline Meier, Laurie Chassin, Arizona State University, Tempe, AZ
- 26 Long-term effects of childhood's family and school capitals on subsequent alcohol drinking behaviors
 Yu Lo¹, Nadia Wang¹, I-An Wang², Wei-J Chen³, Chuan-Yu Chen¹, ¹National Yang-Ming University, Taipei,
 Taiwan, ²Center of Neuropsychiatric Research, National Health Research Institutes, Miaoli, ³National Taiwan University, Taipei City
- 97 *U.S. national data on prevalence and correlates of 8th and 10th grade runaway youth, 2005-2016*Berenice Castillo, John Schulenberg, Cristina Bares, University of Michigan, Ann Arbor, MI
- 70 Tolerance of deviance in early adolescents with prenatal cocaine exposure: Latent classes, irritability and risk behaviors
 June-Yung Kim¹, Sonia Minnes¹, Ty Ridenour², Lynn Singer³, ¹Case Western Reserve University, Jack, Joseph and Morton Mandel School of Applied Social Sciences, Cleveland, OH, ²RTI International, Research Triangle Park, NC, ³Case Western Reserve University, Cleveland, OH
- Altered reward feedback processing in prenatally cocaine exposed adolescents: Evidence from theta and alpha oscillations
 Kristen Morie¹, Jia Wu¹, Nicole Landi², Marc Potenza³, Linda Mayes¹, Michael Crowley¹, ¹Yale University, New Haven, CT, ²Haskins Laboratories, New Haven, CT, ³Yale University School of Medicine, New Haven, CT

- Cortical gyrification as a potential predisposition biomarker of adolescent substance abuse

 Arkadiy Maksimovskiy¹, Anna Seraikas¹, Emily Oot², Maya Rieselbach¹, Carolyn Caine¹, Julia Cohen-Gilbert³, Jennifer Sneider³, Sion Harris⁴, Lisa Nickerson³, Marisa Silveri³, ¹McLean Hospital, Belmont, MA, ²Mclean Hospital, Boston University School of Medicine, Belmont, MA, ³McLean Hospital, Harvard Medical School, Belmont, MA, ⁴Harvard Medical School, Boston, MA
- Associations between anhedonia and substance use initiation among adolescent never users

 Matthew Stone¹, David Stong¹, Adam Leventhal², ¹University of California San Diego, La Jolla, CA,

 ²University of Southern California, Los Angeles, CA
- Adolescent risk and protective factors for substance use disorders in emerging adulthood Angela Heads, University of Texas Health Science Center, McGovern Medical School, Houston, TX
- Does cannabis onset now trigger onset of drinking alcohol? An epidemiologic case-crossover approach Villisha Gregoire¹, Karl Alcover², Hui Cheng², James Anthony², ¹Michigan State University, East Lansing, MI, ²Michigan State University, Lansing, MI
- The interactive effects of perceived peer drinking and personality on adolescent drinking trajectories

 Nina Pocuca¹, Leanne Hides², Catherine Quinn³, Melanie White², Louise Mewton⁴, Nicola Newton⁵, Tim

 Slade⁶, Catherine Chapman⁶, Gavin Andrews⁶, Steve Allsop⁷, Nyanda McBride⁷, Louise Birrell⁶, Brad

 Shaw⁶, Nina Te Pas⁷, Maree Teesson⁵, ¹Queensland University of Technology, Brisbane, Australia,

 ²University of Queensland, Brisbane, ³University of Queensland, Brisbane, Australia, ⁴Centre for Youth

 Substance Abuse Research, Herston, Australia, ⁵University of New South Wales, Sydney, ⁶University of New

 South Wales, Sydney, Australia, ⁷Curtin University, Perth, Australia

POSTER III POLY DRUG ABUSE II

- Comparison of alcohol, opioid, and polysubstance-user performance on behavioral measures of impulsivity and risk taking

 Randi Brown¹, Thomas Schmidt², David Pennington², Timothy C Durazzo³, Dieter Meyerhoff², ¹NCIRE, San
 - Francisco, CA, ²San Francisco Veterans Affairs Health Care System, San Francisco, CA, ³Stanford University, Stanford, CA
- Comparing the acute cognitive effects of cannabis and alcohol: An exploratory analysis

 Justin Matheson¹, Robert Mann¹, Bernard LeFoll¹, Christine Wickens¹, Bruna Brands², ¹Centre for Addiction and Mental Health, Toronto, ON, Canada, ²Health Canada, Toronto, ON, Canada
- Which factors are associated with first opioid and first benzodiazepine prescription in the military health system?
 Megan Curtis¹, William Kazanis¹, Christina Song², Claudina Tami¹, Donald McGeary¹, Erin Finley², Maj Joseph K. Maddry³, Vikhyat Bebarta³, Col David H. Carnahan⁴, Jennifer Sharpe Potter¹, ¹University of Texas Health Science Center, San Antonio, TX, ²South Texas Veterans Health Care System, San Antonio, TX, ³San Antonio Military Medical Center, University of Colorado, Fort Sam, ⁴Defense Health Agency, University of Colorado, Boulder, CO
- 108 Frequency of psychiatric disorders and impulsivity among drug-using drivers

 Leticia Fara¹, Juliana Scherer², Daiane Silvello¹, Vanessa Volpatto¹, Vinicius S. Roglio², Felipe Ornell², Lisia von Diemen², Felix Kessler², Flavio Pechansky², ¹Center for Drug and Alcohol Research, Porto Alegre, Brazil, ²Center for Drug and Alcohol Research, Federal University of Rio Grande do Sul, Porto Alegre

- The effects of opioids and alcohol, alone and in combination, on simulated driving performance
 Shanna Babalonis¹, Marion Coe¹, Paul Nuzzo¹, Michelle Lofwall², Paul Sloan¹, Laura Fanucchi², Sharon Walsh¹, ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 110 Patterns of prescription opioid use and at-risk drinking among older women in north central Florida Mirsada Serdarevic, Kelly Gurka, Catherine Woodstock Striley, Krishna Vaddiparti, Linda Cottler, University of Florida, Gainesville, FL
- Factors associated with discontinuation of methadone maintenance therapy (MMT) among persons who also use alcohol in Vancouver, Canada
 Jan Klimas¹, Ekaterina Nosova², M. Eugenia Socias³, Seonaid Nolan³, Rupinder Brar³, Kanna Hayashi², MJ Milloy⁴, Thomas Kerr⁴, Evan Wood⁴, ¹BC Centre on Substance Use, Vancouver, BC, Canada, ²British Columbia Centre for Excellence in HIV/AIDS, Vancouver, ³University of British Columbia, Vancouver, BC, Canada, ⁴University of British Columbia, Vancouver
- Effectiveness of combination pharmaco-behavioral therapy for smoking cessation in people who heavily drink and smoke
 Daniel Schatz¹, Babak Tofighi², Joshua Lee², ¹New York University, New York, NY, ²New York University School of Medicine, New York, NY
- Crossover associations of alcohol and smoking craving and withdrawal with biochemically-verified alcohol and nicotine use in heavy drinking smokers

 Crystal Smith¹, Ekaterina Burduli², Michael Orr³, Samantha Martin⁴, Myles Finlay³, Oladunni Oluwoye⁴, Michael McDonell⁴, John Roll¹, Sterling McPherson⁵, ¹Washington State University, Pullman, WA, ²Washington State University, Spokane, WA, ³Washington State University College of Nursing, Spokane, WA, ⁴Washington State University, Program of Excellence in Addictions Research, Spokane, WA, ⁵Washington State University, Elson S. Floyd College of Medicine, Spokane, WA
- Daily patterns of marijuana and alcohol co-use among individuals with alcohol and cannabis use disorders Jane Metrik¹, Rachel Gunn², Kristina Jackson³, Alexander Sokolovsky³, Brian Borsari⁴, ¹Brown University School of Public Health, Providence, RI, ²Brown University, Providence, RI, ³Center for Alcohol and Addiction Studies, Providence, RI, ⁴San Francisco Veterans Affairs Health Care System, San Francisco, CA
- Polydrug cannabis use and cannabis dependence: Toward a "latent class with distal outcome" approach Karl Alcover, James Anthony, Michigan State University, Lansing, MI
- Co-use of marijuana and tobacco in blunts or spliffs among a sample of residential addiction treatment clients
 Deborah Yip, Thao Le, Denise Williams, Noah Gubner, Joseph Guydish, University of California San
 Francisco, San Francisco, CA
- 117 Varenicline for smoking cessation in patients with cocaine-use disorder: A proof-of-concept pilot trial
 Anna Reynolds¹, Justin Strickland¹, William Stoops¹, Joshua Lile², Craig Rush¹, ¹University of Kentucky,
 Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- Predicting opioid and cocaine-use trajectory with objective and subjective neighborhood measures
 Samuel Stull¹, Landhing Moran¹, David Epstein¹, Jennifer Schroeder², Kenzie Preston¹, Karran Phillips³,
 ¹NIDA Intramural Research Program, Baltimore, MD, ²Schroeder Statistical Consulting, LLC, Ellicot City,
 MD, ³National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Cannabis use increases cocaine dependence in female cocaine users but does not increase its progression speed
 Yiyang Liu¹, Micah Johnson¹, Barry Setlow², Linda Cottler¹, ¹University of Florida, Gainesville, FL,
 ²University of Florida College of Medicine, Gainesville, FL
- Lifetime alcohol consumption conditionally relates to neurocognitive performance based on methamphetamine dependence
 Rowan Saloner¹, Emily Paolillo², David Moore², Robert Heaton², Igor Grant³, Mariana Cherner², ¹SDSU/UC

- San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, ²University of California San Diego, San Diego, CA, ³University of California San Diego, La Jolla, CA
- Lifetime use of non-nicotine drugs in electronic cigarette devices among a sample of individuals in substance use treatment
 Noah Gubner, Denise Williams, Joseph Guydish, University of California San Francisco, San Francisco, CA
- 122 Venue-based sampling to assess risky behavior and risk factors for drug use among non-school based youths in Thailand.
 kanittha thaikla, Chiang Mai University, Chiang Mai, Thailand, Thailand
- Are prior drug use behaviors associated with subsequent initiation of injection drug use?

 Daniel Chu¹, Alex Kral², Lynn Wenger³, Ricky Bluthenthal¹, ¹Keck School of Medicine University of Southern California, Los Angeles, CA, ²RTI International, Research Triangle Park, NC, ³RTI International, San Francisco, CA
- Drug treatment seeking behavior subsequent to involuntary treatment among people who inject drugs in Tijuana, Mexico
 Claudia Rafful¹, MariaLuisa Zúñiga², Ricadro Orozco³, Peter Davidson¹, David Engstrom⁴, Gudelia Rangel⁵, Steffanie Strathdee¹, ¹University of California San Diego, La Jolla, CA, ²San Diego State University School of Social Work, San Diego, CA, ³National Institute of Psychiatry, Mexico, Mexico City, Mexico, ⁴San Diego State University, San Diego, CA, ⁵Comision Binacional Fronteriza, Mexico
- 125 Beyond alcohol: Client change talk about opioids, cannabis, and cocaine Jon Houck, Brigitte Stevens, University of New Mexico, Albuquerque, NM
- Prevalence and correlates of multiple substance use disorders among adults in primary care: Results from a multisite study
 William John¹, He Zhu¹, Paolo Mannelli¹, Robert Schwartz², Geetha Subramaniam³, Li-Tzy Wu¹, ¹Duke University School of Medicine, Durham, NC, ²Friends Research Institute, Baltimore, MD, ³National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Are discussions about substance use in health care settings associated with substance use disorder treatment use and perception of treatment need?
 Pia Mauro¹, Hillary Samples², Kathryn Klein¹, Silvia Martins¹, ¹Columbia University, New York, NY,
 ²Columbia University Mailman School of Public Health, New York, NY
- Empirically-derived alcohol and drug use patterns of sexual minority groups presenting to an urban emergency department
 Brooke Arterberry¹, Alan Davis², Erin Bonar¹, Maureen Walton³, Frederic Blow³, ¹University of Michigan, Ann Arbor, MI, ²Johns Hopkins Hospital, Baltimore, MD, ³University of Michigan, Addiction Center, Ann Arbor, MI
- Quality of life and the state of health: Ambulatory treatment for substance use disorders in Argentina Nicolás Poliansky¹, Carolina Gorlero¹, Damián Gemini¹, Hendree Jones², ¹Fundación Convivir, Buenos Aires, Argentina, ²University of North Carolina at Chapel Hill, Carrboro, NC
- Women's and men's experiences in group therapy for substance use disorders: A mixed-methods analysis Shelly Greenfield¹, Dawn Sugarman², Meghan Reilly², ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²McLean Hospital, Belmont, MA

POSTER III OPIOIDS: HUMAN STUDIES I Sapphire ABC/EFG 11:30 - 1:30 PM

131 Phase 3 trial comparing depot buprenorphine (CAM2038) to sublingual buprenorphine/naloxone for OUD treatment: Subanalysis among persons with heroin as the primary opioid of abuse

- Michael Frost¹, Michelle Lofwall², Genie Bailey³, Sharon Walsh⁴, Mark Beacker⁵, Natalie Budilovsky-Kelley⁵, Fredrik Tiberg⁶, Erin Barone⁷, ¹The Frost Medical Group, Conshohocken, PA, ²University of Kentucky, College of Medicine, Lexington, KY, ³SSTAR: Stanley Street Treatment & Resources, Inc, Fall River, MA, ⁴University of Kentucky, Lexington, KY, ⁵Braeburn Pharmaceuticals, Princeton, NJ, ⁶Camurus, Lund, Sweden, ⁷Braeburn, Plymouth Meeting, PA
- A real-world efficacy and safety comparison of CAM2038 vs SL BPN/NX for the treatment of patients with OUD who inject opioids
 Genie Bailey¹, Michael Frost², Michelle Lofwall³, Sharon Walsh⁴, Mark Beacker⁵, Natalie Budilovsky-Kelley⁵, Fredrik Tiberg⁶, Erin Barone⁷, ¹SSTAR: Stanley Street Treatment & Resources, Inc, Fall River, MA,
 ²The Frost Medical Group, Conshohocken, PA, ³University of Kentucky, College of Medicine, Lexington, KY, ⁴University of Kentucky, Lexington, KY, ⁵Braeburn Pharmaceuticals, Princeton, NJ, ⁶Camurus, Lund, Sweden, ⁷Braeburn, Plymouth Meeting, PA
- Buprenorphine/naloxone treatment: Dose-finding for prescription opioid dependence
 Gabriela Garcia Vassallo¹, Margaret Altemus², Elizabeth Ralevski², Jane Weiner², Ismene Petrakis², ¹Yale
 University School of Medicine, New Haven, CT, ²VA Connecticut Healthcare System, West Haven, CT
- Patient characteristics as moderators in the extended-release naltrexone versus buprenorphine-naloxone to prevent opioid relapse (XBOT, CTN-0051) trial: Who responds to which treatment?
 Edward Nunes¹, Joshua Lee², Patricia Novo², Genie Bailey³, John Rotrosen², Marc Fishman⁴, ¹Columbia University and NYSPI, New York, NY, ²New York University School of Medicine, New York, NY, ³SSTAR: Stanley Street Treatment & Resources, Inc, Fall River, MA, ⁴Mountain Manor Treatment Center, Baltimore, MD
- Research design and participant experience in clinical addictions randomized controlled trials: A nested qualitative exploration of the CTN-0055 CHOICES study
 Lindsey Richardson¹, Kaitlyn Jaffe¹, Evan Wood², Philip Todd Korthuis³, ¹University of British Columbia, Vancouver, BC, Canada, ²University of British Columbia, Vancouver, ³Oregon Health & Science University, Portland. OR
- Comparative effectiveness of extended-release naltrexone versus buprenorphine-naloxone for opioid relapse prevention (X:BOT): A multicenter, open-label, randomized controlled trial

 Patricia Novo¹, Joshua Lee¹, Edward Nunes², Ken Bachrach³, Genie Bailey⁴, Snehal Bhatt⁵, SARAH

 FARKAS¹, Marc Fishman⁶, Phoebe Gauthier⁷, Candace Hodgkins⁸, Jacqueline King⁹, Robert Lindblad⁹,

 David Liu¹⁰, Abigail Matthews⁹, Jeanine May⁹, K. Michelle Peavy¹¹, Stephen Ross¹, Dagmar Salazar⁹, Paul Schkolnik¹², Dikla Blumberg⁹, Geetha Subramaniam¹⁰, John Rotrosen¹, ¹New York University School of Medicine, New York, NY, ²Columbia University and NYSPI, New York, NY, ³Tarzana Treatment Centers,

 Tarzana, CA, ⁴SSTAR: Stanley Street Treatment & Resources, Inc, Fall River, MA, ⁵University of New Mexico, Albuquerque, NM, ⁶Mountain Manor Treatment Center, Baltimore, MD, ⁷Geisel School of Medicine at Dartmouth, Lebanon, NH, ⁸Gateway Community Services, Inc., Jacksonville, FL, ⁹The Emmes Corporation, Rockville, MD, ¹⁰National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD, ¹¹Evergreen Treatment Services, Seattle, WA, ¹²Maryhaven Addiction Research Institute, Columbus, OH
- Cost-effectiveness of extended-release naltrexone versus buprenorphine-naloxone to prevent opioid relapse among individuals initiating treatment in an inpatient detoxification setting
 Sean Murphy¹, Kathryn McCollister², Jared Leff¹, X. April Yang², Philip Jeng¹, Joshua Lee³, Edward Nunes⁴, Patricia Novo³, John Rotrosen³, Bruce Schackman¹, ¹Weill Cornell Medical College, New York, NY,
 ²University of Miami Miller School of Medicine, Miami, FL, ³New York University School of Medicine, New York, NY, ⁴Columbia University and NYSPI, New York, NY

- Resources and associated costs of implementing pharmacotherapy for opioid dependence initiated in inpatient detoxification settings: Results from a multisite randomized clinical trial
 Kathryn McCollister¹, X. April Yang¹, Sean Murphy², Jared Leff², Joshua Lee³, Edward Nunes⁴, Patricia Novo³, John Rotrosen³, Bruce Schackman², ¹University of Miami Miller School of Medicine, Miami, FL,
 ²Weill Cornell Medical College, New York, NY, ³New York University School of Medicine, New York, NY,
 ⁴Columbia University and NYSPI, New York, NY
- Medication for opioid use disorder and mortality after inpatient opioid detoxification treatment Alexander Walley¹, Dana Bernson², Thomas Land², Marc Larochelle¹, ¹Boston University School of Medicine, Boston, MA, ²Massachusetts Department of Public Health, Boston, MA
- 140 Impact of change in buprenorphine- naloxone formulation on prescription pattern, treatment adherence and patient satisfaction among patients on buprenorphine maintenance treatment: A cross-sectional study Shalini Singh¹, Yatan Pal Singh Balhara², Siddharth Sarkar², ¹All India Institute of Medical Sciences, New Delhi, ²National Drug Dependence Treatment Centre, New Delhi, India
- Participants' preferences for BUP-NX or XR-NTX and associations with induction successes and relapse rates in the CTN-0051 opioid treatment trial
 Jacqueline King¹, Jeanine May¹, Dagmar Salazar¹, Anne Hoehn¹, Dikla Blumberg¹, Patricia Novo², Yunhee Choi-Kuaea³, K. Michelle Peavy³, Rosson Wiebe⁴, John Rotrosen², Joshua Lee², ¹The Emmes Corporation, Rockville, MD, ²New York University School of Medicine, New York, NY, ³Evergreen Treatment Services, Seattle, WA, ⁴Cowlitz Tribal Health, Tukwila, WA
- Baseline characteristics predictive of successful outpatient transition onto extended-release naltrexone
 D. Andrew Tompkins¹, Edward Nunes², Antoine Douaihy³, Paolo Mannelli⁴, Miao Yu⁵, Narinder Nangia⁵, Maria Sullivan⁵, Abigail Zavod⁵, Sarah Akerman⁶, ¹University of California San Francisco School of Medicine, San Francisco, CA, ²Columbia University and NYSPI, New York, NY, ³University of Pittsburgh, Pittsburgh, PA, ⁴Duke University School of Medicine, Durham, NC, ⁵Alkermes, Inc., Waltham, MA,
 ⁶Alkermes, Inc, Waltham, MA
- A five-day outpatient induction onto XR-naltrexone in patients with opioid use disorder

 Mohammad Sibai¹, Kaitlyn Mishlen¹, Edward Nunes², Adam Bisaga³, ¹New York State Psychiatric Institute,
 New York, NY, ²Columbia University and NYSPI, New York, NY, ³Columbia University College of
 Physicians and Surgeons, New York, NY
- The effects of extended-release injectable naltrexone and incentives for opiate abstinence in heroin-dependent adults: A randomized trial
 Brantley Jarvis¹, August Holtyn², Anthony DeFulio³, Mikhail Koffarnus⁴, Jeannie-Marie Leoutsakos², Annie Umbricht², Michael Fingerhood⁵, George Bigelow², Kenneth Silverman⁶, ¹NorthTide, LLC, Dulles, VA,
 ²Johns Hopkins University School of Medicine, Baltimore, MD, ³Western Michigan University, Kalamazoo, MI, ⁴Virginia Tech Carilion Research Institute, Roanoke, VA, ⁵Johns Hopkins Bayview Medical Center, Baltimore, MD, ⁶Johns Hopkins Hospital, Baltimore, MD
- Symptoms of depression, anxiety and insomnia in opioid dependent individuals receiving either long-acting naltrexone injections or oral buprenorphine-naloxone. A randomized clinical trial.

 Zill-E-Huma Latif, Akershus Universitetssykehus, Lørenskog, Akershus, Norway
- Circadian typology in patients in opioid agonist therapy: Associations with social jetlag and cocaine abstinence
 Jeremiah Bertz¹, Samuel Stull¹, Bill Kowalczyk², David Epstein¹, Kenzie Preston¹, ¹NIDA Intramural Research Program, Baltimore, MD, ²Hartwick College, Oneonta, NY
- Motives for illicit buprenorphine/naloxone use among opioid consumers in New Hampshire
 Elizabeth Saunders¹, Sarah Moore², Andrea Meier³, Bethany McLeman⁴, Stephen Metcalf², Olivia Walsh⁵,
 Lisa Marsch², ¹The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH, ²Geisel School

- of Medicine at Dartmouth, Hanover, NH, Geisel School of Medicine at Dartmouth, Lebanon, NH, Northeast Node of the CTN/Dartmouth College, Lebanon, NH, Dartmouth College, Hanover, NH
- 148 Perceptions and practices addressing diversion among US buprenorphine prescribers
 Lewei (Allison) Lin¹, Michelle Lofwall², Sharon Walsh³, Adam Gordon⁴, Hannah Knudsen³, ¹University of Michigan, Ann Arbor, MI, ²University of Kentucky, College of Medicine, Lexington, KY, ³University of Kentucky, Lexington, KY, ⁴University of Utah, Salt Lake City, UT
- Effects of interim buprenorphine treatment for opioid use disorder for emerging adults

 Kelly Peck¹, Taylor Ochalek², Gary Badger¹, Stacey Sigmon¹, ¹University of Vermont, Burlington, VT,

 ²Vermont Center on Behavior and Health, Burlington, VT
- Within-subject evaluation of interim buprenorphine treatment during waitlist delays

 Taylor Ochalek¹, Kelly Peck², Maria Parker², Gary Badger², Stephen Higgins², Stacey Sigmon², ¹Vermont

 Center on Behavior and Health, Burlington, VT, ²University of Vermont, Burlington, VT
- 151 Integrating buprenorphine into peer-support: a qualitative study exploring motivators for engagement and retention in a community-based opioid treatment program in Baltimore City
 Noa Krawczyk¹, Masoumeh Dejman², Christine Truong², Simon Marshall-Shah², Kayla Tormohlen², Deborah Agus³, Judith Bass², ¹Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ³Behavioral Health Leadership Institute, Baltimore, MD
- Risk factors for premature discontinuation of buprenorphine treatment for opioid use disorder among Medicaid enrollees
 Hillary Samples¹, Arthur Robin Williams², Sheree Neese-Todd³, Mark Olfson⁴, Stephen Crystal³, ¹Columbia University Mailman School of Public Health, New York, NY, ²Columbia University Division on Substance Use Disorders, New York, NY, ³Rutgers University, New Brunswick, NJ, ⁴Columbia University and NYSPI, New York, NY
- Association of insurance coverage with specialty treatment, buprenorphine treatment, and stable primary care in a cohort of adults who have injected drugs.
 Kenneth Feder¹, Noa Krawczyk², ¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ²Johns Hopkins Bloomberg School of Public Health, Department of Mental Health, Baltimore, MD
- Methadone maintenance for opioid dependent patients using pharmaceutical opioids (POs) versus heroin: Is there a difference?
 Mohit Varshney¹, Atul Ambekar², Ravindra Rao¹, Ashwani Mishra¹, ¹National Drug Dependence Treatment Centre, New Delhi, India, ²Professor, National Drug Dependence Treatment Centre, AIIMS, New Delhi, New Delhi, India
- Stigma associated with receiving methadone treatment: Reliability and validity of a theory-based stigma scale for opioid-using populations
 Laramie Smith¹, Maria Luisa Mittal², Valerie Earnshaw³, ¹University of California San Diego, La Jolla, CA,
 ²University of California San Diego, Division of Infectious Diseases and Global Public Health, La Jolla, CA,
 ³University of Delaware, Newark, DE

ORAL COMMUNICATIONS 19 OOPS, I DID IT AGAIN: IMPULSIVITY, DECISION MAKING AND CRAVING

Indigo E 1:30 - 3:30 PM

Chairs: R. Kathryn McHugh and Stephanie Wemm

1:30 Self-perceived impaired control in alcohol use: An ecological momentary assessment study

- Danielle Remmerswaal¹, Joran Jongerling¹, Ingmar Franken², ¹Erasmus University Rotterdam, Rotterdam, Netherlands, ²Erasmus University Rotterdam, Rotterdam
- 1:45 Sex differences in the associations between stress reactivity, impulsivity, and problematic use in smokers and gamblers
 Stephanie Wemm¹, Edelgard Wulfert², Rajita Sinha³, ¹Yale University, New Haven, CT, ²State University of New York at Albany, Albany, NY, ³Yale University School of Medicine, New Haven, CT
- 2:00 The effects of cocaine-dependence and aging on decision making performance and impulsivity Sade Johns, F. Gerard Moeller, Virginia Commonwealth University, Richmond, VA
- 2:15 The sterile injection equipment discounting task: A novel measure of infectious disease risk among injecting heroin users
 Evan Herrmann¹, Yousr Shaltout², Sandra Comer³, ¹Battelle Memorial Institute, Baltimore, MD, ²Columbia University Medical Center, New York, NY, ³Columbia University and NYSPI, New York, NY
- 2:30 Craving, non-opioid drugs and alcohol use by HIV-positive patients with opioid use disorder stabilized on naltrexone
 Elena Blokhina¹, Evgeny Krupitsky², Edwin Zvartau¹, Elena Vladimirovna Verbitskaya¹, Dmitry Lioznov¹, Tatiana Yaroslavtseva¹, Natalia Bushara³, Vladimir Palatkin³, Sabrina Poole⁴, Robert Gross⁴, George Woody⁴, ¹First Pavlov State Medical University of St. Petersburg, St. Petersburg, Russian Federation, ²V.M. Bekhterev National Medical Research Center for Psychiatry and Neurology, St. Petersburg, Russian Federation, ³First Pavlov State Medical University of St. Petersburg, St. Petersburg, ⁴University of Pennsylvania, Philadelphia, PA
- 2:45 Lofexidine in combination with naltrexone improves control over opioid cravings: A pilot randomized, double-blind, placebo-controlled clinical trial
 Gretchen Hermes¹, Scott Hyman², Thomas Kosten³, Rajita Sinha¹, ¹Yale University School of Medicine, New Haven, CT, ²Carlos Albizu University, Miami, FL, ³Baylor College of Medicine, Bellaire, TX
- 3:00 Craving mediates behavioral economic risk for opioid use during prescription opioid addiction treatment Matthew Worley¹, Bryan Messina², ¹University of California San Diego, La Jolla, CA, ²VA San Diego Healthcare System, San Diego, CA
- 3:15 The role of sleep disruption in pain-related craving in adults with chronic pain and opioid misuse R. Kathryn McHugh, Rachel Geyer, Monika Kolodziej, Roger Weiss, McLean Hospital, Belmont, MA

SYMPOSIUM XVII COMORBIDITY OF OPIOID ADDICTION AND OTHER PSYCHIATRIC DISORDERS

Indigo BCFG 1:30 - 3:30 PM

Chairs: Rita Valentino and Christopher Evans

- 1:30 Buprenorphine: Opioid dependence and depression T. Kosten, Baylor College of Medicine, Bellaire, TX
- 1:55 Opioid receptors and diverse contributions to mood regulation B. Kieffer, McGill University, Montreal, QC, Canada
- 2:20 *Kappa/dynorphin systems and anxiety states* C. Chavkin, University of Washington, Seattle, WA
- 2:45 Co-occurrence of mental health and opioid use disorders
 L. Degenhardt, National Drug and Alcohol Research Centre, Sydney, Australia, Australia
- 3:10 Discussant: Comorbidity of opioid addiction and other psychiatric disorders
 R. Valentino, National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD

SYMPOSIUM XVIII LONG-ACTING MEDICATION REFORMULATIONS: A STRATEGY TO ADDRESS THE OPIOID EPIDEMIC

Indigo A 1:30 - 3:30 PM

Chairs: Brantley Jarvis and Philip Todd Korthuis

- 1:30 Extended-release naltrexone versus buprenorphine for opioid treatment: Results from two comparative effectiveness trials

 J. Lee, New York University School of Medicine, New York, NY
- 1:55 Naltrexone implants for opioid use disorder: Relapse prevention, craving, anhedonia, and HIV prevention E. Krupitsky, V.M. Bekhterev National Medical Research Center for Psychiatry and Neurology, St. Petersburg, Russia, Russian Federation
- 2:20 Once-weekly and once-monthly injectable buprenorphine for opioid use disorder: Human laboratory findings S. Walsh, University of Kentucky, Lexington, KY
- Recent clinical studies on a once-weekly and once-monthly injectable form of buprenorphine to treat opioid use disorder
 E. Nunes, Columbia University and NYSPI, New York, NY
- 3:10 Curbing the opioid epidemic with long-acting medications: Opportunities and ongoing research in treatment implementation
 P. Korthuis, Oregon Health & Science University, Portland, OR

ORAL COMMUNICATIONS 18 THE PAIN AND STRAIN COMES MAINLY FROM THE BRAIN

Indigo D 1:30 - 4:30 PM

Chairs: Karsten Bartels and Declan Barry

- 1:30 Assessment of drug abuse-related events with MADDERS in SUMMIT-07: A phase-3 study of NKTR-181 in patients with moderate to severe chronic low-back pain

 Ryan Lanier¹, John Markman², Nathaniel Katz¹, Jeffrey Gudin³, Richard Rauck⁴, Maitreyee Mohanty¹,

 Harrison Elder¹, Dolapo Lawal¹, Joseph Gimbel⁵, Mary Tagliaferri⁶, Lin Lu⁶, Suresh Siddhanti⁶, Sidney Schnoll⁷, Jack Henningfield⁸, ¹Analgesic Solutions, Natick, MA, ²University of Rochester School of Medicine and Dentistry, Rochester, NY, ³Englewood Hospital and Medical Center, Englewood, NJ, ⁴Carolinas Pain Institute and The Center for Clinical Research, Winston-Salem, NC, ⁵Arizona Research Center, Phoenix, AZ, ⁶Nektar Therapeutics, San Francisco, CA, ⁷Pinney Associates, Inc., Stamford, CT, ⁸Pinney Associates, Inc., Bethesda, MD
- 1:45 Improvement in pain and retention in a large prospective open label randomized trial of buprenorphine versus methadone for opiate use disorder
 Matisyau Shulman¹, Aimee Campbell¹, Martina Pavlicova², Jennifer Scodes¹, Sean Luo³, Andrew Saxon⁴, Edward Nunes¹, ¹Columbia University and NYSPI, New York, NY, ²Columbia University Mailman School of Public Health, New York, NY, ³Columbia University, New York, NY, ⁴VA Puget Sound Healthcare System, Seattle, WA
- 2:00 Opioid and non-opioid analgesic therapy after surgery

 Karsten Bartels¹, Katharine Mahoney¹, Kristen Raymond¹, Shannon McWilliams², Lena Mayes¹, Ana
 Fernandez-Bustamante¹, Christian Hopfer², Susan Mikulich-Gilbertson², ¹University of Colorado, Aurora,
 CO. ²University of Colorado School of Medicine, Aurora, CO

- 2:15 Incisional injury and its recovery modulates morphine's rewarding properties
 Chinwe Nwaneshiudu¹, David Clark², Xiao-Yu Shi³, ¹Stanford University School of Medicine, Redwood City, CA, ²Stanford University School of Medicine, Palo Alto, CA, ³Veterans Affairs Health System, Palo Alto, CA
- 2:30 Analgesic effects of the g-protein biased mu-opioid receptor agonist, kurkinol
 Amy Alder¹, Rachel Crowley², Thomas Prisinzano², Bronwyn Kivell¹, ¹Victoria University of Wellington,
 Wellington, New Zealand, ²University of Kansas, Lawrence, KS
- 2:45 The association of marijuana use and mental health symptoms with pain severity among persons living with HIV infection: Results from a community-recruited sample

 Verlin Joseph¹, Zachary Mannes¹, Abenaa Jones², Huiyin Lu¹, Dominique Easterling¹, Gladys Ibanez³, Christa Cook⁴, ¹University of Florida, Gainesville, FL, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, ³Department of Epidemiology, Robert Stempel College of Public Health & Social Work, Miami, FL, ⁴University of Florida, College of Nursing, Gainesville, FL
- 3:00 The impact of psychological distress on pain volatility in adults with chronic pain and prescription opioid addiction
 Bryan Messina¹, Matthew Worley², ¹VA San Diego Healthcare System, San Diego, CA, ²University of California San Diego, La Jolla, CA
- 3:15 Sex differences in co-occurring substance use, mental health and pain disorders, in primary care patients diagnosed with opioid use disorders

 Celestina Barbosa-Leiker¹, Aimee Campbell², Mary Hatch-Maillette³, Gwen Lapham⁴, Denise Boudreau⁴, Manu Thakral⁴, Judith Tsui⁵, Bobbi Jo Yarborough⁶, Julia Arnsten⁷, Ingrid Binswanger⁸, Angela Stotts⁹, Amy Loree¹⁰, Jordan Braciszewski¹⁰, Joe Glass⁴, Viviana Horigian¹¹, Rebecca Hutcheson⁵, Cynthia Campbell¹², Gavin Bart¹³, Kathy Bradley⁴, ¹Washington State University College of Nursing, Spokane, WA, ²Columbia University and NYSPI, New York, NY, ³University of Washington Alcohol & Drug Abuse Institute, Seattle, WA, ⁴Kaiser Permanente Washington Health Research Institute, Seattle, WA, ⁵University of Washington, Seattle, WA, ⁶Kaiser Permanente Northwest Center for Health Research, Portland, OR, ⁷Montefiore Medical Center, Bronx, NY, ⁸Kaiser Permanente Colorado, Denver, CO, ⁹University of Texas Medical Branch, Houston, TX, ¹⁰Henry Ford Health System, Detroit, MI, ¹¹University of Miami, Miami, FL, ¹²Kaiser Permanente North California Division of Research, Oakland, CA, ¹³University of Minnesota, Minneapolis, MN
- 3:30 Effectiveness of self-management for the treatment of chronic pain and aberrant drug-related behavior: Patients' experiences with a web-based, cognitive behavior therapy intervention

 Andrew Rosenblum¹, Honoria Guarino², Sarah Moore³, Lisa Marsch⁴, ¹NDRI, Metuchen, NJ, ²National Development and Research Institute, Inc., New York, NY, ³Geisel School of Medicine at Dartmouth, Lebanon, NH, ⁴Geisel School of Medicine at Dartmouth, Hanover, NH
- 3:45 A pilot randomized clinical trial of cognitive behavioral therapy for opioid use disorder and chronic pain Declan Barry¹, Mark Beitel², Christopher Cutter³, David Fiellin¹, Robert Kerns⁴, Brent Moore¹, Lynn Madden⁵, Richard Schottenfeld¹, ¹Yale University School of Medicine, New Haven, CT, ²Yale University, APT Foundation, New Haven, CT, ³Yale University, New Haven, CT, ⁴Yale University School of Medicine, West Haven, CT, ⁵APT Foundation, Inc., New Haven, CT
- 4:00 Training addiction counselors to deliver a brief psychosocial intervention for chronic pain among patients in opioid agonist treatment: A pilot investigation
 Jenna Butner¹, Curtis Bone¹, Mark Beitel², Lynn Madden³, Madeline Bono⁴, Anthony Eller⁵, Declan Barry¹,
 ¹Yale University School of Medicine, New Haven, CT, ²Yale University, APT Foundation, New Haven, CT,
 ³APT Foundation, Inc., New Haven, CT, ⁴New York University, New York, NY, ⁵Yale School of Public Health, New Haven, CT
- 4:15 Prevalence of pain conditions among persons with an opioid use disorder diagnosis in a primary care

population

Manu Thakral¹, Gwen Lapham¹, Jennifer Bobb¹, Judith Tsui², Denise Boudreau¹, Cynthia Campbell³, Julia Arnsten⁴, Jane Liebschutz⁵, Angela Stotts⁶, Jordan Braciszewski⁷, Andrew Saxon⁸, Kathy Bradley¹, ¹Kaiser Permanente Washington Health Research Institute, Seattle, WA, ²University of Washington, Seattle, WA, ³Kaiser Permanente North California Division of Research, Oakland, CA, ⁴Montefiore Medical Center, Bronx, NY, ⁵University of Pittsburgh, Pittsburgh, PA, ⁶University of Texas Medical Branch, Houston, TX, ⁷Henry Ford Health System, Detroit, MI, ⁸VA Puget Sound Healthcare System, Seattle, WA

LATE-BREAKING RESEARCH NEWS

Indigo H 3:45 - 4:45 PM

Chairs: William Stoops

- 3:45 Driver alcohol detection system for safety (DADSS) preliminary human testing results of two passive methods for detecting alcohol in tissue and breath compared to venous blood alcohol concentration
 S. Lukas¹, E. Ryan¹, J. McNeil², J. Shepherd¹, K. Davis³, L. Bingham², K. Ozdemir⁴, N. Dalal⁴, K. Pirooz⁴, M. Willis⁴, A. Zaouk⁴, ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²McLean Hospital, Belmont, MA, ³Clean Hospital, Belmont, MA, ⁴KEA Technologies, Inc, Marlborough, MA
- 3:50 Opioid overdose detection using smartphones
 J. Sunshine¹, R. Nandakumar¹, C. Banta-Green¹, J. Buxton², S. Gollakota¹, ¹University of Washington,
 Seattle, WA, ²University of British Columbia, Vancouver, BC, Canada
- Efficacy of oral naltrexone with buprenorphine for transitioning from buprenorphine to XR-NTX: A hybrid residential-outpatient randomized control trial
 S. Comer¹, P. Mannelli², D. Alam³, A. Douaihy⁴, N. Nangia⁵, A. Zavod⁵, B. Silverman⁵, S. Akerman⁶,
 ¹Columbia University and NYSPI, New York, NY, ²Duke University School of Medicine, Durham, NC,
 ³Neuroscience Research Institute, Winfield, IL, ⁴University of Pittsburgh, Pittsburgh, PA, ⁵Alkermes, Inc., Waltham, MA, ⁶Alkermes, Inc., Waltham, MA
- 4:00 Pre-clinical efficacy of vaccines for treatment of prescription opioid abuse using novel carrier proteins

 A. Huseby Kelcher¹, F. Baruffaldi¹, C. Hassler², A. Lees³, S. Runyon², M. Pravetoni¹, ¹Minneapolis Medical Research Foundation, Minneapolis, MN, ²RTI International, Research Triangle Park, NC, ³Fina BioSolutions, Rockville, MD
- 4:05 Modulation of M5 muscarinic acetylcholine receptors decreases stimulant and opioid self-administration and cue-induced reactivity without affecting oxycodone-induced analgesia in rats
 R. Gould¹, B. Gunter², M. Bubser¹, R. Matthews¹, D. Winder¹, C. Lindsley¹, C. Jones¹, ¹Vanderbilt University, Nashville, TN, ²Vanderbilt University Medical Center, Nashville, TN
- 4:10 Galantamine effects on opioid use from a placebo-controlled trial among cocaine-dependent methadone maintained individuals
 K. Carroll¹, M. Sofuoglu², S. Yip², E. DeVito¹, ¹Yale University School of Medicine, New Haven, CT, ²Yale University, New Haven, CT
- 4:15 Substantial increases in methamphetamine use among a national sample of treatment-seeking opioid users M. Ellis, Z. Kasper, T. Cicero, Washington University, St. Louis, MO
- 4:20 Immune functioning markers relate to cognitive abilities in individuals with cocaine use disorder

 S. Stamatovich¹, L. Stertz¹, C. Walss-Bass¹, S. Lane², C. Green³, J. Schmitz¹, M. Wardle¹, ¹University of Texas Health Science Center, Houston, TX, ²University of Texas, Houston, TX, ³University of Texas Health Science Center, McGovern Medical School, Houston, TX
- 4:25 *Gene expression in the prefrontal cortex associated with impulsivity*

- E. Vallender¹, R. Gilmore¹, S. Hutchins¹, X. Zhang¹, G. Mahajan¹, A. Athey², J. Overholser², L. Dieter², G. Jurjus³, G. Rajkowska¹, C. Stockmeier¹, ¹University of Mississippi Medical Center, Jackson, MS, ²Case Western Reserve University, Cleveland, OH, ³Louis Stokes Cleveland VA Medical Center, Cleveland, OH
- 4:30 Weight gain and insulin resistance in mice lacking cannabinoid-2 receptor
 O. Alshaarawy¹, E. Kurjan², N. Truong², L. Olson², ¹Michigan State University, Lansing, MI, ²Michigan State University, East Lansing, MI
- 4:35 Key findings from an RCT of nabiximols for the treatment of cannabis dependence
 N. Lintzeris¹, A. Dunlop², J. Copeland³, D. Allsop⁴, A. Bhardwaj⁵, I. McGregor⁵, R. Bruno⁶, L. Mills⁵, ¹Drug and Alcohol Services, South Eastern Sydney Local Health District, Surry Hills, Australia, ²Hunter New England Local Health District, Newcastle, Australia, ³University of South Wales, Sydney, ⁴University of New South Wales, Sydney, Australia, ⁵University of Sydney, Sydney, Australia, ⁶University of Tasmania, Sydney, Australia
- 4:40 Prolonged exposure to reduced-nicotine cigarettes reduces behavioral economic demand for full- and reduced-nicotine cigarettes
 S. Dolan, M. Berry, M. Johnson, Johns Hopkins University School of Medicine, Baltimore, MD

(MEMBERS ONLY) BUSINESS MEETING Aqua C 5:00 - 6:00 PM

DINNER/DANCING

Indigo Ballroom 7:30 - 10:30 PM

Thursday, June 14, 2018

(PRE-REGISTRANTS ONLY)
BREAKFAST WITH CHAMPIONS

Aqua 310/Terrace 8:00 - 9:00 AM

CPDD/INRC PLENARY

Indigo BCFG 9:00 - 10:00 AM

Deaths of Despair: Alcohol Misuse, Pain and Negative Reinforcement George Koob, Director, National Institute on Alcohol Abuse and Alcoholism

ORAL COMMUNICATIONS 20 NOVEL TREATMENTS STRAGTEGIES: OUT WITH THE OLD Indigo D 10:00 - 12:00 PM

Chairs: Michael Mancino and Jae Kim

10:00 New theranostic clathrin-nanoparticles efficiently deliver D3R-antibodies noninvasively to targeted dopamine

- brain regions
- Gordana Vitaliano¹, Franco Vitaliano², Martin Teicher³, Scott Lukas¹, ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²EXQOR, Boston, MA, ³McLean Hospital, Belmont, MA
- 10:15 Targeted noninvasive delivery of novel clathrin-based superparamagnetic iron oxide nanoparticles for magnetic resonance imaging of dopamine transporters in mouse brain
 Jae Kim¹, Dionyssios Mintzopoulos², Adam Christopher³, Scott Lukas¹, Marc Kaufman², Franco Vitaliano⁴, Gordana Vitaliano¹, ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²McLean Hospital, Brain Imaging Center, Belmont, MA, ³McLean Hospital, Belmont, MA, ⁴EXQOR, Boston, MA
- Nabiximols combined with motivational enhancement/cognitive behavioral therapy for the treatment of cannabis dependence: A pilot randomized clinical trial
 M Trigo¹, Alexandra Soliman¹, Quilty Lena², Benedikt Fischer³, Jürgen Rehm⁴, Peter Selby¹, Allan Barnes⁵, Marilyn Huestis⁶, Tony George³, David Streiner⁻, Gregory Staios¹, Bernard LeFoll¹, ¹Centre for Addiction and Mental Health, Toronto, ON, Canada, ²Campbell Family Mental Health Research Institute, CAMH, Toronto, ON, Canada, ³University of Toronto, Toronto, ON, Canada, ⁴Institute for Mental Health Policy Research, CAMH, Toronto, ON, Canada, ⁵National Institute of Drug Abuse, National Institutes of Health, Baltimore, MD, ⁶National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD, ¹Department of Psychiatry & Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada
- 10:45 Impact of buprenorphine taper and oral naltrexone induction schedules on successful outpatient transition to injectable naltrexone
 Michael Mancino¹, Edward Nunes², Jeff Thostenson¹, Joseph Guise¹, Janette McGaugh¹, Alison Oliveto¹,
 ¹University of Arkansas for Medical Sciences, Little Rock, AK, ²Columbia University and NYSPI, New York, NY
- 11:00 Is risk-targeted, coping skills enhanced motivational interviewing (MI) more efficacious than MI alone in young people with alcohol related-injuries accessing emergency department and crisis support care?
 Leanne Hides¹, David Kavanagh², Susan Cotton³, Jason Connor⁴, Mark Daglish⁵, Catherine Quinn⁶, Nina Pocuca², Ross Young⁴, ¹University of Queensland, Centre for Youth Substance Abuse Research, Brisbane, Australia, ²Queensland University of Technology, Brisbane, Australia, ³Orygen The National Centre of Excellence in Youth Mental Health, University of Melbourne, Melbourne, Australia, ⁴University of Queensland, Brisbane, ⁵Royal Brisbane and Women's Hospital, Brisbane, Australia, ⁶University of Queensland, Brisbane, Australia
- Stimulating future value: Episodic future thinking decreases delay discounting in recreational and chronic cocaine users
 Sarah Snider¹, Jamie K.², Warren Bickel³, ¹Addiction Recovery Research Center, Roanoke, VA, ²Virginia Tech Carilion Research Institute, Roanoke, VA
- 11:30 Epigenetic detection of alcohol use disorder in a clinically ascertained sample Allan Andersen, Robert Philibert, University of Iowa, Iowa City, IA
- 11:45 The efficacy of lidocaine in disrupting cocaine cue-induced memory reconsolidation

 Josh Becker¹, Julianne Price², David Leonard³, Alina Suris⁴, Enas Kandil¹, Meredith Shaw⁴, Sven Kroener⁵,

 E Sherwood Brown¹, Bryon Adinoff¹, ¹University of Texas Southwestern Medical Center, Dallas, TX,

 ²University of Florida, Gainesville, FL, ³David Leonard Statistical Consulting, Wichita Falls, TX, ⁴VA North
 Texas Health Care System, Dallas, TX, ⁵University of Texas, Dallas, TX

ORAL COMMUNICATIONS 21 IT'S OKAY TO BE A QUITTER: NICOTINE AND E-CIGS

Indigo E 10:00 - 12:00 PM

Chairs: Maria Parker

- 10:00 Flavor additives increase motivation for nicotine and nicotine-evoked dopamine release in rats
 Amanda Smith, Matthew Palmatier, Curtis Bradley, Samantha Malone, Gerald Deehan, Jr., East Tennessee
 State University, Johnson City, TN
- 10:15 Effects of sweet-flavored e-cigarettes on smoking reinstatement and tobacco withdrawal symptoms in nicotine-deprived smokers
 Nicholas Goldenson, Matthew Kirkpatrick, Jessica Barrington-Trimis, Adam Leventhal, University of Southern California, Los Angeles, CA
- 10:30 Associations between delay discounting, e-cigarette use, and cigarette smoking

 Jeffrey Stein¹, Elan Perry¹, Bryan Heckman², Derek Pope¹, Warren Bickel¹, ¹Virginia Tech Carilion Research

 Institute, Roanoke, VA, ²Medical University of South Carolina, Charleston, SC
- 10:45 Reinforcing efficacy of cigarettes vs. little cigars in smokers differing in socioeconomic status

 Jennifer Tidey¹, Mollie Miller², Rachel Cassidy¹, Rachel Denlinger-Apte³, ¹Brown University, Providence,
 RI, ²Brown University Center for Alcohol and Addiction Studies, Providence, RI, ³Brown University School of Public Health, Providence, RI
- 11:00 Patterns and frequency of current e-cigarette use in U.S. adults, 2012-2013 Maria Parker, Stacey Sigmon, Andrea Villanti, University of Vermont, Burlington, VT
- 11:15 Patterns of cigarette, e-cigarette, and cannabis use among adult smokers in primary care
 Johannes Thrul, Maya Vijayaraghavan, Jason Satterfield, University of California San Francisco, San
 Francisco, CA
- 11:30 Prevalence and correlates of adolescents' e-cigarette use frequency and dependence Erin Vogel, Danielle Ramo, Mark Rubinstein, University of California San Francisco, CA
- 11:45 Gender differences in use, attitudes, and intention to use tobacco products
 Irene Pericot-Valverde, Diann Gaalema, University of Vermont, Burlington, VT

SYMPOSIUM XIX INTERNATIONAL OPIOID GUIDELINES

Indigo BCFG 10:00 - 12:00 PM

Chairs: Fred Nyberg and Gabriele Fischer

- 10:00 Guidelines for the psychosocially assisted pharmacological treatment of opioid dependence within EU G. Fischer, Medizinische Universitat Wien, Wien, Austria
- 10:25 *The Nordic approach to opioid addiction; service provision and organization* T. Clausen, The Norwegian Institute of Public Health, Oslo, Norway, Norway
- 10:50 Opioid use disorder clinical guidelines: A Canadian model P. Voon, BC Centre on Substance Use, Vancouver, BC, Canada
- 11:15 *Methadone treatment guidelines development for states in Southeast Asia* G. Bart, University of Minnesota, Minneapolis, MN
- 11:40 Opioid treatment programs Aspects to deal with in the future perspective F. Nyberg, Uppsala University, Faculty of Medicine & Pharmacy, Uppsala, Sweden, Sweden

SYMPOSIUM XX KRATOM: BITTER NARCOTIC OR SWEET MEDICINE FOR PAIN AND OPIOIDADDICTION?

Indigo A 10:00 - 12:00 PM

Chairs: Jay McLaughlin and Christopher McCurdy

- 10:00 *History, chemistry and pharmacology of Kratom* C. McCurdy, University of Florida, Gainesville, FL
- 10:25 *Pharmacokinetics and analytical analysis of Kratom products and components* B. Avery, University of Florida, Gainesville, FL
- 10:50 Evaluating the opioid-like discriminative stimulus effects of Kratom alkaloids L. McMahon, University of Florida, Gainesville, FL
- 11:15 Assessment of abuse liability of Kratom constituents, mitragynine and 7-hydroxymitragynine S. Hemby, High Point University, Fred Wilson School of Pharmacy, High Point, NC
- 11:40 *Human clinical effects of Kratom*E. Boyer, Brigham and Women's Hospital, Boston, MA

POSTER IV LUNCH Sapphire ABC/EFG OPIOID: HUMAN STUDIES II 12:00 - 2:00 PM Odd numbered posters manned first hour; Even numbered, second hour

- Opioid use disorder rates and treatment retention after implementation of a primary care tiered-based approach
 Steffani Bailey¹, Rebecca Cantone¹, Brian Garvey¹, John Muench¹, Joan Fleishman¹, Bruin Rugge¹, Allison O'Neill², Deborah Cohen¹, Dennis McCarty¹, ¹Oregon Health & Science University, Portland, OR, ²OCHIN, Inc., Portland, OR
- 2 The use of ketamine in opioid withdrawal: Case studies

 Jérôme Bachellier¹, Servane Barrault¹, Paul Brunault², Damien Maugé¹, Ballon Nicols¹, ¹CHRU de Tours,

 Clinique Psychiatrique Universitaire, Tours, France, ²University Hospital of Tours, Tours, France
- 3 Empirical evidence of different clinically meaningful opioid withdrawal phenotypes

 Kelly Dunn¹, Elise Weerts¹, Andrew Huhn¹, Jennifer Schroeder², D. Andrew Tompkins³, George Bigelow¹,

 Eric Strain¹, ¹Johns Hopkins University School of Medicine, Baltimore, MD, ²Schroeder Statistical

 Consulting, LLC, Ellicot City, MD, ³University of California San Francisco School of Medicine, San Francisco, CA
- 4 Effect of lofexidine on cardiac repolarization (QTcF) during treatment of opioid withdrawal
 Borje Darpo¹, Mark Pirner², James Longstreth³, Georg Ferber⁴, Charles Gorodetzky⁵, ¹Danderyd's Hospital,
 Stockholm, Sweden, ²US WorldMeds, LLC, Louisville, KY, ³Longstreth & Associates, Inc., Mundelein, IL,
 ⁴Statistik Georg Ferber GmbH, Riehen, Switzerland, ⁵Consultant, Kansas City, MO
- "Some hang themselves because the arosta is one thing that is unbearable": Experience of withdrawal among South Africans who use whoonga and its implications for intervention development

 Griffin Tyree¹, Nzwakie Mosery², Elizabeth Closson³, Zonke Mabude², Mxolisi Mathenjwa², Sibusiso Sibiya², Tshana Watkins², Carol du Toit⁴, David Bangsberg⁵, Steven Safren⁶, Kenneth Mayer⁷, Jennifer Smit², Matthew Mimiaga⁸, David Grelotti⁹, ¹University of California San Diego, San Diego, CA, ²MatCH Research, University of the Witwatersrand, Durban South Africa, Durban, South Africa, ³The Fenway Institute, Boston, Boston, MA, ⁴SANCA Durban Alcohol & Drug Centres, Durban, Berea, South Africa, ⁵Oregon Health & Science University, Portland, OR, ⁶University of Miami School of Law, Coral Gables, FL, ⁷Harvard Medical School, Boston, MA, ⁸Brown University, Providence, RI, ⁹University of California San Diego, San Diego, Zimbabwe
- Developing and testing a novel prospective memory training program in opioid and polysubstance users across 15 and 30 sessions of training

 Meredith Berry, Mary Sweeney, Lisa Mitchell, Matthew Johnson, Johns Hopkins University School of Medicine, Baltimore, MD
- 7 Behavioral activation and right thalamic activation during monetary and environmental reward anticipation

- among opiate users in detoxification
 Jennifer Yi, Ryan Bell, Anna Bartuska, Katlyn McKay, Jennifer Stein, Stacey Daughters, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 8 Benefits of long-term opioid agonist treatment participation for patients with opioid use disorder Kathryn Hawk¹, Marek Chawarski², Patrick O'Connor³, Patricia Owens¹, Micheal Pantalon¹, Steven Bernstein⁴, David Fiellin³, Gail D'Onofrio³, ¹Yale University Department of Emergency Medicine, New Haven, CT, ²Yale University Department of Psychiatry, New Haven, CT, ³Yale University School of Medicine, New Haven, CT, ⁴Yale Department of Emergency Medicine, New Haven, CT
- 12-month outcomes of methadone and buprenorphine maintained patients: A study in naturalistic conditions Melina Fatseas¹, Fuschia Serre², Cecile Denis³, Jean-Pierre Daulouede⁴, Marc Auriacombe², ¹Centre Hospitalier Charles Perrens, Bordeaux, France, ²Université de Bordeaux, Bordeaux, ³University of Pennsylvania, Philadelphia, PA, ⁴Bizia Addiction Clinic, Bayonne
- A care management approach to facilitate entry and retention in medically assisted treatment among women with opioid use disorder
 Dennis Hand, Alice Fischer, Kimberly McLaughlin, Diane Abatemarco, Thomas Jefferson University, Philadelphia, PA
- Methadone treatment programs may be a key venue to engage women with opioid use disorder in family planning
 Curtis Bone¹, Lynn Madden², Jeanette Tetrault³, Mishka Terplan⁴, Declan Barry¹, ¹Yale University School of Medicine, New Haven, CT, ²APT Foundation, Inc., New Haven, CT, ³Yale University, New Haven, CT, ⁴Virginia Commonwealth University, Richmond, VA
- Familiarity, knowledge and barriers to long-acting reversible contraceptives among opioid-maintained women

 Catalina Rey, Heidi Melbostad, Stacey Sigmon, Lauren Macafee, Anne Dougherty, Sarah Heil, University of Vermont, Burlington, VT
- Contraceptive knowledge of men and women receiving medication-assisted treatment for opioid use disorder Heidi Melbostad, Catalina Rey, Stacey Sigmon, Lauren Macafee, Anne Dougherty, Sarah Heil, University of Vermont, Burlington, VT
- 14 Factors associated with medication-assisted treatment adherence for offenders: The role of drug cravings and socialization
 Yang Yang ¹, Jennifer Pankow², Pat Flynn², Kevin Knight², ¹University of Louisville, Lafayette, LA, ²Texas Christian University, Fort Worth, TX
- Mobilizing community support for people who inject drugs: A network intervention

 Michael Kidorf¹, Nicolas Schlienz², Jessica Peirce², Carl Latkin³, Robert Brooner², ¹Johns Hopkins Bayview

 Medical Center, Baltimore, MD, ²Johns Hopkins University School of Medicine, Baltimore, MD, ³Johns

 Hopkins Bloomberg School of Public Health, Baltimore, MD
- Documented prevalence of opioid use disorder and its treatment across 8 diverse health care systems in the U.S.

 Denise Boudreau¹, Gwen Lapham¹, Eric Johnson¹, Jennifer Bobb¹, Abigail Matthews², Jennifer McCormack², David Liu³, Cynthia Campbell⁴, Rebecca Rossom⁵, Ingrid Binswanger⁶, Bobbi Jo Yarborough⁷, Julia Arnsten⁸, Chinazo Cunningham⁸, Joe Glass¹, Mark Murphy⁹, Paul Amoroso¹⁰, Mohammad Zare¹¹, Rulin Hechter¹², Brian Ahmedani¹³, Jordan Braciszewski¹³, Viviana Horigian¹⁴, Jose Szapocznik¹⁴, Jeffrey Samet¹⁵, Andrew Saxon, Kathy Bradley¹, ¹Kaiser Permanente Washington Health Research Institute, Seattle, WA, ²The Emmes Corporation, Rockville, MD, ³National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD, ⁴Kaiser Permanente North California Division of Research, Oakland, CA, ⁵Health Partners, Minneapolis, MN, ⁶Kaiser Permanente Colorado, Denver, CO, ⁷Kaiser Permanente Northwest Center for Health Research, Portland, OR, ⁸Montefiore Medical Center, Bronx, NY, ⁹MultiCare Tacoma Central,

- Tacoma, WA, ¹⁰MultiCare Institute for Research & Innovation, Tacoma, WA, ¹¹University of Texas Health Science Center, Houston, TX, ¹²Kaiser Permanente Southern California, Pasadena, CA, ¹³Henry Ford Health System, Detroit, MI, ¹⁴University of Miami, Miami, FL, ¹⁵Boston University School of Medicine, Boston, MAVA Puget Sound Healthcare System, Seattle, WA
- 17 Opioid-related hospitalizations in an integrated health system
 Pooja Lagisetty¹, Lewei (Allison) Lin¹, Dara Ganoczy², Rebecca Haffajee¹, Amy Bohnert¹, ¹University of Michigan, Ann Arbor, MI, ²VA Government, Ann Arbor, MI
- Misperceptions towards opioid agonist therapies among residents and staff in community recovery homes may serve as barriers to uptake of evidence based treatment for opioid use disorder
 Benjamin Howell¹, Karen Ablondi¹, Frank Buono¹, Tamara Malm², Ashton Gores³, Anthony Eller³, Declan Barry¹, Curtis Bone¹, ¹Yale University School of Medicine, New Haven, CT, ²St. Joseph School of Pharmacy, Hartford, CT, ³Yale School of Public Health, New Haven, CT
- Experiences of burnout among drug counselors in a large opioid treatment program: A qualitative investigation
 Mark Beitel¹, Lindsay Oberleitner², Dharushana Muthulingam³, David Oberleitner⁴, Lynn Madden⁵, Ruthanne Marcus³, Anthony Eller⁶, Madeline Bono⁷, Declan Barry³, ¹Yale University, APT Foundation, New Haven, CT, ²Yale University, New Haven, CT, ³Yale University School of Medicine, New Haven, CT, ⁴University of Bridgeport, Bridgeport, CT, ⁵APT Foundation, Inc., New Haven, CT, ⁶Yale School of Public Health, New Haven, CT, ⁷New York University, New York, NY
- 20 Opioid recovery initiation: Pilot test of a peer outreach and modified recovery management checkup intervention for out-of-treatment opioid users
 Christy Scott, Christine Grella¹, Lisa Nicholson², Michael Dennis³, ¹University of California, Chestnut Health Systems, Los Angeles, CA, ²Chestnut Health Systems, Chicago, IL, ³Chestnut Health Systems, Normal, IL
- A more dangerous 'heroin': Lessons learned from anthropological research in four US heroin and fentanyl hotspots

 Daniel Ciccarone, Sarah Mars, Jeff Ondocsin, University of California San Francisco, San Francisco, CA

POSTER IV OPIOIDS - PRECLINICAL

⁴University of Bath, Bath, United Kingdom

- Modeling opioid maintenance therapy in rats: Effect of chronic buprenorphine on responding for drug-paired discrete cues in a non-drug context, context-induced reinstatement of drug seeking, and reacquisition of oxycodone self-administration
 Jennifer Hoots¹, S. Stevens Negus², Bruce Blough³, Gerta Cami-Kobeci⁴, Stephen Husbands⁴, Yavin Shaham¹, Jennifer Bossert¹, ¹National Institute of Drug Abuse, National Institutes of Health, Baltimore, MD,
 ²Virginia Commonwealth University, Richmond, VA, ³RTI International, Research Triangle Park, NC,
- 23 Samidorphan attenuates the effects of buprenorphine in rat models evaluating abuse potential Jacobi Cunningham¹, Nikita Burke², Mark Todtenkopf¹, David Finn³, Michelle Roche³, John Kelly³, Connie Sanchez¹, ¹Alkermes, Inc., Waltham, MA, ²National University of Ireland, Galway, Ireland, ³National University of Ireland, Galway, Galway, Ireland
- Oxycodone self-administration is altered by microbiome modulation in Copenhagen rats Sierra Simpson, Giordano De Guglielmo, Marsida Kallupi, Olivier George, The Scripps Research Institute, La Jolla, CA

- Differences in cognitive, motivational and/or sensorimotor processing preclude detection of substrain differences in oxycodone reward between 129P3/J and 129S1/SvlmJ mice
 - Michal Coelho, Sami Ferdousian, Karen Szumlinski, University of California Santa Barbara, Santa Barbara, CA
- CXCR4 & CCR5 chemokine receptor antagonists significantly enhanced morphine-induced antinociception in female, but not male, mice in the formalin test
 Xiaohong Chen¹, Toby Eisenstein¹, S. Inan¹, Christopher Tallarida¹, A. Cowan¹, Ellen Geller², J.J. Meissler¹, Scott Rawls², M.N. Watson¹, Menahem Doura¹, Martin Adler², ¹Center for Substance Abuse Research, Lewis Katz School of Medicine of Temple University, Philadelphia, PA, ²Lewis Katz School of Medicine at Temple University, Philadelphia, PA
- A stable heroin analog that can serve as a vaccine hapten to induce antibodies that block the effects of heroin and its metabolites in rodents and that cross-react immunologically with related drugs of abuse

 Gary Matyas¹, Agnieszka Sulima², Arthur Jacobson³, Oscar Torres⁴, Zoltan Beck⁴, Carl R Alving⁵, Kenner Rice², ¹Walter Reed Army Institute of Research, Silver Spring, MD, ²National Institute of Drug Abuse,
 National Institutes of Health, Bethesda, MD, ³National Institutes of Health, Bethesda, MD, ⁴Henry M. Jackson Foundation for the Advancement of Military Medicine, Bethesda, MD, ⁵Walter Reed Army Institute of Research, Sandy Spring, MD
- The effects of estradiol and progesterone on proestrus-induced decreases in heroin intake
 Andrea Robinson, Sarah Ethridge, Huailin Zhang, Mark Smith, Davidson College, Davidson, NC
- Social influences on remifentanil self-administration in male rats
 Rebecca Hofford¹, Paige Bond¹, Shoshana Eitan², Michael Bardo¹, ¹University of Kentucky, Lexington, KY,

 ²Texas A&M University, College Station, TX
- Role of delta opioid receptors in modulating reward-related behaviors

 Emily Jutkiewicz¹, Ashleigh Matthews¹, Kenner Rice², ¹University of Michigan, Ann Arbor, MI, ²National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Anti-cocaine and analgesic properties of MP1104, a mixed kappa & delta opioid receptor agonist in rats

 Diana Atigari¹, Rajendra Uprety², Susruta Majumdar², Bronwyn Kivell¹, ¹Victoria University of Wellington,
 Wellington, New Zealand, ²Memorial Sloan Kettering Cancer Center, New York, NY
- Quantification of unconditioned behaviors induced by kappa agonists in rhesus monkeys: Effects of signaling bias
 Sally Huskinson¹, Donna Platt², Thomas Prisinzano³, Bruce Blough⁴, Kevin Freeman¹, ¹University of Mississippi Medical Center, Jackson, MS, ²Division of Neurobiology and Behavior Research, Jackson, MS, ³University of Kansas, Lawrence, KS, ⁴RTI International, Research Triangle Park, NC

POSTER IV ABUSE LIABILITY

- 33 Total synthesis of salvinorin A-inspired opioids
 Samuel Williamson, Alexander Sherwood, Rachel Crowley, Thomas Prisinzano, University of Kansas,
 Lawrence, KS
- Characterization of mitragynine and an analog for analgesia, tolerance, physical dependence and reinforcing liabilities in mouse models

 Jay McLaughlin¹, Shainnel Eans¹, Heather Stacy¹, Rajendra Uprety², Gavril Pasternak², Susruta Majumdar²,

 ¹University of Florida, Gainesville, FL, ²Memorial Sloan Kettering Cancer Center, New York, NY
- Tradipitant, an NK-1 antagonist, does not substantively modify opioid abuse liability or self-administration in opioid-experienced individuals

 Sharon Walsh¹, Marion Coe¹, Paul Nuzzo¹, Michelle Lofwall², ¹University of Kentucky, Lexington, KY,

- ²University of Kentucky, College of Medicine, Lexington, KY
- NKTR-181 demonstrates low abuse potential in recreational opioid users in two double-blind, randomized crossover human abuse potential studies

 Jack Henningfield¹, Lynn Webster², Debra Kelsh³, Brad Vince, Lin Lu⁴, Janet Jobes⁴, August Buchhalter¹, Suresh Siddhanti⁴, Margaret Ziola⁴, John Silowsky⁴, Aleksandrs Odinecs⁴, Sunny Xie⁴, Carlo Di Fonzo⁴, Michael Eldon⁴, Xue Snow Ge⁴, ¹Pinney Associates, Inc., Bethesda, MD, ²Lifetree Clinical Research, Salt Lake City, UT, ³VInce and Associates, Malvern, PA, ⁴Nektar Therapeutics, San Francisco, CA
- Considering "take drug again" as the primary endpoint in clinical studies of abuse deterrent formulations Erik Hansen, Joya He, Lynn Webster, Ryan Turncliff, PRA Health Sciences, Salt Lake City, UT
- Abuse liability assessment of ENDS: What is the right level to support a public health benefit?

 Sarah Baxter¹, Leanne Campbill¹, Tao Jin¹, Jack Henningfield², Reginald Fant², Stiles Mitchell¹, ¹RAI Services Company, Winston-Salem, NC, ²Pinney Associates, Inc., Bethesda, MD
- Assessing correspondence between subjective effects measures and concurrent choice data in a laboratory study evaluating the effects of cigarettes with varying levels of nicotine

 Cecilia Bergeria¹, Sarah Heil¹, Stacey Sigmon¹, Jennifer Tidey², Diann Gaalema¹, John Hughes¹, Maxine Stitzer³, Christopher Arger¹, Mollie Miller⁴, Hanna Durand¹, Janice Bunn¹, Jeff Priest¹, Danielle Davis¹, Joanna Streck⁵, Joan Skelly¹, Morgan Tromblee⁵, Stephen Higgins¹, ¹University of Vermont, Burlington, VT, ²Brown University, Providence, RI, ³Johns Hopkins Bayview Medical Center, Baltimore, MD, ⁴Brown University Center for Alcohol and Addiction Studies, Providence, RI, ⁵Vermont Center on Behavior and Health, Burlington, VT
- 40 Role of propylene glycol and vegetable glycerin concentration on the behavioral effects of electronic cigarette aerosol
 Arit Harvanko¹, Catherine Martin¹, Thomas Kelly², ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 41 Vaporization of marijuana among recreational users: A qualitative study
 Elizabeth Aston¹, Samantha Farris², Jane Metrik³, Rochelle Rosen⁴, ¹Center for Alcohol and Addiction
 Studies, Providence, RI, ²Warren Alpert Medical School, Providence, RI, ³Brown University School of Public
 Health, Providence, RI, ⁴The Miriam Hospital, Centers for Behavioral & Preventive Medicine, Providence, RI

POSTER IV SEDATIVE HYPNOTICS

- Combination with pregnanolone increases the sedative effects of triazolam and zolpidem in rhesus macaques Daniela Rüedi-Bettschen¹, James Cook¹, Lais Berro¹, Donna Platt², Barak Gunter³, James Rowlett¹,

 ¹University of Mississippi Medical Center, Jackson, MS, ²Division of Neurobiology and Behavior Research,
 Jackson, MS, ³Vanderbilt University Medical Center, Nashville, TN
- 43 Residual next-day effects of alprazolam on psychomotor performance and simulated driving in healthy normal volunteers
 Marion Coe¹, Lindy Howe¹, Paul Nuzzo¹, Michelle Lofwall², Laura Fanucchi², Shanna Babalonis¹, Sharon Walsh¹, ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- Benzodiazepines use "to get high" in patients admitted for addiction treatment in Spain

 Marta Torrens¹, Francina Fonseca¹, Magí Farré², Karin McBride³, Icro Maremmani⁴, Marilena Guareschi⁴,

 Richard Dart⁵, ¹Institut de Neuropsiquiatria i Addiccions, Barcelona, Spain, ²Hospital Universitari Germans

 Trias i Pujol, Badalona, Spain, ³Denver Health Rocky Mountain Poison & Drug Center (RMPDC), Denver,

- CO, ⁴Associazione per l'Utilizzo delle Conoscenze Neuroscientifiche a fini Sociali, Pietrasanta, Italy, ⁵Rocky Mountain Poison & Drug Center, Denver, CO
- 45 *Inability to discontinue chronic hypnotic use*Timothy Roehrs, Henry Ford Health System, Detroit, MI
- 46 *How representative are insomnia clinical trials?*Thomas Roth, Timothy Roehrs, Henry Ford Health System, Detroit, MI
- A comparison between the ICD-10 and DSM-5 diagnostic criteria for sedative, hypnotic and anxiolytic use disorders
 Daniela Curado¹, Viviam de Barros², Emérita Opaleye², Ana Regina Noto³, ¹Federal University of São Paulo, São Paulo, Brazil, ²Universidade Federal de Sao Paulo, São Paulo, São Paulo

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 - Elisangela Cata-Preta¹, Yasmin Serra¹, Eliseu Moreira Junior¹, Henrique Reis¹, Natali Kisaki¹, Matheus Santos¹, Raiany Silva¹, Thaisa Santos¹, Paulo Ribeiro-Barbosa¹, Jose Costa², Alexandre Oliveira-Lima¹, Lais Berro³, Eduardo Marinho¹, ¹Universidade Estadual de Santa Cruz, Ilheus, Brazil, ²University of Campinas, Faculty of Pharmaceutical Sciences, Campinas, Brazil, ³University of Mississippi Medical Center, Jackson, MS
- 49 Does glucagon-like peptide 1 (GLP-1) receptor agonist stimulation reduce alcohol intake in patients with alcohol dependence?
 - Mette Klausen¹, Nina Le Dous¹, Mathias Jensen¹, Kamilla Miskowiak¹, Patrick Fischer², Gerda Thomsen², Henrik Rindom³, Thomas Fahmy³, Sabine Vollstädt-Klein⁴, Helene Benveniste⁵, Nora Volkow⁶, Ulrick Becker⁷, Claus Ekstrøm⁸, Gitte Knudsen², Tina Vilsboell⁹, Anders Fink-Jensen¹, ¹University Hospital of Copenhagen, Copenhagen, Denmark, ²Copenhagen University Hospital and Center for Integrated Molecular Brain Imaging, Copenhagen, Denmark, ³Novavì Outpatient Clinics, Copenhagen, Denmark, ⁴Central Institute of Mental Health, Mannheim, Germany, ⁵Yale University, New Haven, CT, ⁶National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD, ⁷National Institute of Public Health, University of Southern Denmark, Copenhagen, Denmark, ⁸University of Copenhagen, Department of Public Health, Copenhagen, Denmark, ⁹University of Copenhagen, Denmark
- What drives us to drink? Examination of a novel progressive-ratio intravenous (IV) alcohol self-administration paradigm in humans

 Bethany Stangl, Nia Byrd, Molly Zametkin, Vijay Ramchandani, National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD
- Intravenous alcohol self-administration in participants with alcohol use disorder: Piloting a progressive-ratio schedule

 Christina Nona¹, Chidera Chukwueke², Matthew McPhee², Laura Heath², Saima Malik¹, Isabelle Boileau¹,
 Bernard LeFoll¹, Christian Hendershot³, ¹Centre for Addiction and Mental Health, Toronto, ON, Canada,

 ²University of Toronto, Toronto, ON, Canada, ³Center of Addiction and Mental Health, Toronto, ON, Canada
- The effects of the COMT inhibitor tolcapone and gender on alcohol consumption in individuals with alcohol use disorder (AUD)
 Jennifer Mitchell, University of California San Francisco, San Francisco, CA
 Neurobiological factors underlying risk for alcohol abuse in women

- Neurobiological factors underlying risk for alcohol abuse in women
 Jessica Weafer, Harriet de Wit, University of Chicago, Chicago, IL
- Direct correlations between breath and blood alcohol concentrations in six different real-world settings Elizabeth Ryan¹, Scott Lukas¹, Justin Shepherd¹, Jane McNeil², Lucy Bingham², ¹McLean Hospital, Harvard Medical School, Belmont, MA, ²McLean Hospital, Belmont, MA
- 55 Identifying predictors of high blood alcohol concentration (BAC) among those in a DUI program
 Natasia Courchesne¹, Conner Muth², Melanie Barker³, Susan Woodruff³, ¹University of California San Diego,
 San Diego, CA, ²Virginia Commonwealth University, Richmond, VA, ³San Diego State University, San Diego, CA
- Repeated episodic future thinking produces cumulative reductions of delay discounting in current and former alcohol users
 Alexandra Mellis¹, Sarah Snider², Warren Bickel¹, ¹Virginia Tech Carilion Research Institute, Roanoke, VA,
 ²Addiction Recovery Research Center, Roanoke, VA
- Willing to work but not to wait: Individuals with alcohol use disorder show increased delay discounting, but not effort discounting, compared to social drinkers
 Quan Phung¹, Sarah Snider², Warren Bickel¹, ¹Virginia Tech Carilion Research Institute, Roanoke, VA,
 ²Addiction Recovery Research Center, Roanoke, VA
- Delay discounting and sequential decision making across the alcohol use and recovery spectrum

 Lara Moody¹, Allison Tegge², Harhim Park³, Woo-Young Ahn³, Warren Bickel², ¹Virginia Tech Carilion

 Research Institute, Durham, NC, ²Virginia Tech Carilion Research Institute, Roanoke, VA, ³Seoul National

 University, Seoul, Korea, Republic of
- 59 Influence of impulsivity fluctuations on craving and substances use among patients beginning treatment for addiction: An ecological momentary assessment study
 Louise Jakubiec¹, Manon Chevalier¹, Fuschia Serre², Melina Fatseas³, Maud Dupuy¹, Joel Swendsen¹, Marc Auriacombe², ¹Université de Bordeaux, Bordeaux, France, ²Université de Bordeaux, Bordeaux, Bordeaux, France
 Hospitalier Charles Perrens, Bordeaux, France
- 60 Pre-loading effects on ad-libitum alcohol intake in binge drinkers Kimberly A Bernosky, D'Youville College, Kenmore, NY
- Increases in binge drinking concentrated among cigarette smokers in the US, 2002-2014

 Daniel Paulus¹, Michael Zvolensky¹, Steven Bell², Deborah Hasin³, Misato Gbedemah⁴, Renee Goodwin⁵,

 ¹University of Houston, Houston, TX, ²Strangeways Research Laboratory, Cambridge, United Kingdom,

 ³Columbia University, New York, NY, ⁴CUNY Graduate School of Public Health and Health Policy, New York, NY, ⁵The City University of New York, New York, NY
- 62 Effects of yoga on substance use and stress from an RCT during reentry
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 MD, ²University of Pennsylvania, Philadelphia, PA, ³PeaceCorps, Masasi, Tanzania
- 63 Influence of comorbid drug use disorder on receipt of specialty addictions treatment for alcohol use disorder among VA patients with Hepatitis C
 Emily Williams¹, Madeline Frost¹, Judith Tsui², ¹Veterans Affairs Puget Sound Health Services Research & Development, Seattle, WA, ²University of Washington, Seattle, WA
- Extended-release vs. oral naltrexone for alcohol dependence treatment in primary care
 Mia Malone¹, Alexandria Vittitow¹, Ryan McDonald¹, Babak Tofighi¹, Ann Garment¹, Daniel Schatz²,
 Eugene Laska¹, Keith Goldfeld¹, John Rotrosen¹, Joshua Lee¹, ¹New York University School of Medicine,
 New York, NY, ²New York University, New York, NY
- Barriers to integrating the continuum of care for opioid and alcohol use disorders in primary care: A qualitative longitudinal study

 Erik Storholm¹, Allison Ober¹, Sarah Hunter², Katherine Watkins¹, ¹RAND Corporation, Santa Monica, CA,

- ²RAND Corporation, Arlington, VA
- 66 Intensive motivational interviewing for heavy drinking among women

 Douglas Polcin¹, Rachael Korcha², Michelle Salinardi², Madhabika Nayak², Gantt Galloway, Shelia Pugh²,

 ¹Behavioral Health and Research Studies, Lafayette, CA, ²Alcohol Research Group, Emeryville, CA
- Which client statements matter most in motivational interviewing? A meta-analysis of the relation between subtypes of change or sustain talk and addictive behavior outcome

 Michael Bernstein, Brown University, Providence, RI
- A prospective study of alexithymia, negative mood and alcohol expectancies among alcohol-dependent treatment seekers
 Fred Thorberg¹, Ross Young², Michael Lyvers³, Jason Connor², Edythe London⁴, Gerald Feeney⁵, ¹Innlandet Hospital Trust, Brumunddal, Norway, ²University of Queensland, Brisbane, ³Bond University, Robina, Australia, ⁴University of California Los Angeles, Los Angeles, CA, ⁵Princess Alexandra Hospital, Queensland, Australia
- 69 Opportunistic drinking refusal self-efficacy moderates the relationship between borderline personality traits and alcohol consequences
 Rachel Zelenak¹, Jennifer Ellis², Emily Grekin², ¹Wayne State University, Detroit, MI, Canada, ²Wayne State University, Detroit, MI
- 70 The role of violence and mental health in alcohol use disorders among Black women at risk for HIV in Baltimore, MD
 Kiyomi Tsuyuki¹, Noor Al-Alusi¹, Jacquelyn Campbell², Andrea Cimino², Kristin Gundersen¹, Jamila Stockman¹, ¹University of California San Diego Department of Medicine, La Jolla, CA, ²Johns Hopkins University, School of Nursing, Baltimore, MD
- Relationship between substance use and sexual network characteristics among men who have sex with men and transgender women in Tijuana, Mexico
 Heather Pines¹, Rudy Patrick¹, Martina Morris², Shirley Semple¹, Alicia Vera¹, James Fowler¹, Gudelia Rangel³, Thomas Patterson¹, ¹University of California San Diego, La Jolla, CA, ²University of Washington, Seattle, WA, ³Comision Binacional Fronteriza, Mexico
- 72 Trajectories of repeated AUDIT-C scores as a phenotype for GWAS discovery
 Rachel Vickers Smith¹, Henry Kranzler², Amy Justice³, Janet Tate³, ¹University of Louisville, School of
 Nursing, Louisville, KY, ²University of Pennsylvania, Philadelphia, PA, ³Yale University, New Haven, CT

POSTER IV PSYCHIATRIC COMORBIDITY

- Social-ecological determinants of health contributing to co-occurring substance use and mental health problems: How do sexual and gender minority young adults' experiences differ from their heterosexual, cisgender counterparts?
 Jennifer Felner¹, Jennifer Wisdom², Laura Katuska³, Hee Jin Jun¹, Heather Corliss¹, ¹San Diego State University, San Diego, CA, ²The City University of New York, New York, NY, ³Harvard Medical School, Boston, MA
- Perceptions of helpfulness of a mindfulness meditation program in women with PTSD and SUD
 Therese Killeen¹, Hayley Feigyl¹, Mary Shaw¹, Sarah Bowen², ¹Medical University of South Carolina,
 Charleston, SC, ²Pacific University, Forest Grove, OR
- Drug craving and use in response to prolonged exposure for PTSD Jessica Peirce¹, Rebecca Schacht², Michael Kidorf³, Van King⁴, Robert Brooner¹, ¹Johns Hopkins University

- School of Medicine, Baltimore, MD, University of Maryland, Baltimore, MD, Johns Hopkins Bayview Medical Center, Baltimore, MD, ⁴University of Texas Health Science Center, San Antonio, TX
- Current depressive symptoms are associated with drug craving and drug use in methadone-maintained patients
 Andrew Huhn¹, Mary Sweeney¹, Michael Kidorf², D. Andrew Tompkins³, Robert Brooner¹, Kelly Dunn¹,
 Johns Hopkins University School of Medicine, Baltimore, MD, ²Johns Hopkins Bayview Medical Center, Baltimore, MD, ³University of California San Francisco School of Medicine, San Francisco, CA
- The longitudinal association between substance use and depression from pre- to 1-year post substance use treatment
 Deepika Anand¹, Anna Bartuska¹, CJ Seitz-Brown², Stacey Daughters¹, ¹University of North Carolina at Chapel Hill, Chapel Hill, NC, ²University of Maryland, College Park, MD
- Change talk in group motivational interviewing (GMI) predicts outcome among patients with substance use and co-existing psychiatric disorders
 Elizabeth Santa Ana¹, Antonio Morgan-Lopez², Kayla Lamb³, Steve Martino⁴, ¹University of South Carolina, Charleston, SC, ²RTI International, Durham, NC, ³Charleston VAMC, Charleston, SC, ⁴Yale University School of Medicine, New Haven, CT
- 79 Risk of substance use and mental health outcomes among military spouses and partners

 Jessica Kulak¹, Jennifer Fillo², D. Lynn Homish¹, Linda Kahn¹, Gregory Homish¹, ¹State University of New

 York at Buffalo, Buffalo, NY, ²Research Institute on Addictions, Buffalo, NY
- Prevalence of trauma exposure and post-traumatic stress disorder (PTSD) in rehabilitation center ANAS Le Courbat in France during first semester of 2016

 Damien Maugé¹, Servane Barrault¹, kevin Lebigre¹, Hussein el Ayoubi², Paul Brunault³, Ballon Nicols¹, Wissam El-Hage¹, ¹CHRU de Tours, Clinique Psychiatrique Universitaire, Tours, France, ²Centre Hospitalier Louis Sevestre, Tours, France, ³University Hospital of Tours, Tours, France
- Current use of alcohol and marijuana among people with anxiety, depression, both or neither

 Ayodeji Otufowora¹, Yiyang Liu², Shivani Khan², Catherine Woodstock Striley², Deepthi Varma¹, Linda

 Cottler², ¹University of Florida, College of Public Health and Health Professions, Gainesville, FL, ²University of Florida, Gainesville, FL
- Psychotic disorder and cannabis: Examining hospitalizations trends prior to legalization in Canada Bridget Hall, Sarah Wallingford, Matthew Young, Canadian Centre on Substance Abuse, Ottawa, ON, Canada
- 83 Longitudinal evaluation of PSTD symptoms as a function of cannabis use status
 Megan Brunstetter¹, Alexandra Simonian¹, Meredith Kurtz¹, Ryan Vandrey², Hal Wortzel¹, Marcel Bonn-Miller³, ¹Rocky Mountain MIRECC, VA Eastern Colorado Health Care System, Denver, CO, ²Behavioral Pharmacology Research Unit, Johns Hopkins Hospital, Baltimore, MD, ³University of Pennsylvania, Southmont, NC
- Cannabis use moderates associations between physical health and anxiety sensitivity and distress tolerance Kate Stewart¹, Kristina Jackson², Brian Borsari³, Jane Metrik¹, ¹Brown University School of Public Health, Providence, RI, ²Center for Alcohol and Addiction Studies, Providence, RI, ³San Francisco Veterans Affairs Health Care System, San Francisco, CA
- Negative urgency mediates the relationship between depression and marijuana problems

 Rachel Gunn¹, Kristina Jackson², Brian Borsari³, Jane Metrik⁴, ¹Brown University, Providence, RI, ²Center for Alcohol and Addiction Studies, Providence, RI, ³San Francisco Veterans Affairs Health Care System, San Francisco, CA, ⁴Brown University School of Public Health, Providence, RI
- Association between negative affect and symptoms of anxiety and depression in a cannabis cessation clinical trial.
 Kristen Morella, Brian Sherman, Nathaniel Baker, Gregory Sahlem, Amanda Wagner, Kevin Gray, Aimee

- McRae-Clark, Medical University of South Carolina, Charleston, SC
- Depression, anger, and drug use trajectory over one year in people who use marijuana, opioids, and stimulants
 Landhing Moran¹, Sara Hertzel¹, Jennifer Schroeder², David Epstein¹, Kenzie Preston¹, Karran Phillips³,
 ¹NIDA Intramural Research Program, Baltimore, MD, ²Schroeder Statistical Consulting, LLC, Ellicot City, MD, ³National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- Decreased cigarette demand among treatment-seeking smokers with depressive symptoms

 Sara Weidberg¹, Ángel García-Pérez¹, Aris Grande-Gonsende¹, Irene Pericot-Valverde², Roberto Secades

 Villa¹, ¹University of Oviedo, Oviedo, Spain, ²University of Vermont, Burlington, VT
- Factors associated with psychiatric symptomatology among a cohort of people who inject drugs (PWID) in Haiphong, Vietnam and clinical implications

 Laurent Michel¹, Mai Le Sao², Huong Duong Thi³, Oanh Khuat Thi Hai⁴, Delphine Rapoud⁵, Khuê Pham Minh³, Catherine Quillet⁶, Thanh Nham Thi Tuyet⁴, Giang Hoang Thi³, Jonathan Feelemyer⁷, Vinh Vu Hai⁸, Jean-Pierre Moles⁹, Didier Laureillard⁶, Don Des Jarlais⁷, Nicolas Nagot⁶, ¹Centre Pierre Nicole, Paris, France, ²Mental Health Department, Hai Phong, Viet Nam, ³Hai Phong University of Medicine and Pharmacy, Hai Phong, Viet Nam, ⁴SCDI, Hanoi, Viet Nam, ⁵Department of Medical Information, Montpellier, ⁶University of Montpellier, Montpellier, France, ⁷Icahn School of Medicine at Mount Sinai, New York, NY, ⁸Infectious Diseases Department, Viet Tiep Hospital, Hai Phong, Viet Nam, ⁹University of Montpellier, Montpellier
- 90 Motivations for the misuse of prescription drugs related to many mental health problems Tess Drazdowski, Oregon Social Learning Center, Eugene, OR
- 71 The role of impulsivity in the relationship between prescription opioid use and borderline personality disorder features in a substance use disorder treatment sample
 Noel Vest, Sarah Tragesser, Washington State University, Pullman, WA
- Problematic cybersexual behaviours: The implication of borderline personality disorder and childhood trauma
 Servane Barrault¹, Komlan Hegbé², Robert Courtois¹, Paul Brunault³, Jérôme Bachellier¹, Damien Maugé¹, Ballon Nicols¹, ¹CHRU de Tours, Clinique Psychiatrique Universitaire, Tours, France, ²Université Francois Rabelais de Tours, Tours, France, ³University Hospital of Tours, Tours, France
- Externalizing and internalizing symptoms as common and specific candidate endophenotypes for heroin and amphetamine dependence
 Jasmin Vassileva¹, Elizabeth Long¹, F. Gerard Moeller¹, Radka Kaneva², Kiril Bozgunov³, Elena Psederska³, Dimitar Nedelchev³, Georgi Vasilev³, ¹Virginia Commonwealth University, Richmond, VA, ²Medical University Sofia, Sofia, Bulgaria, ³Bulgarian Addictions Institute, Sofia
- Association between methamphetamine psychosis and facial emotion recognition
 Shalini Arunogiri¹, Rebecca McKetin², Dan Lubman³, Antonio Verdejo-Garcia¹, ¹Monash University,
 Melbourne, Australia, ²National Drug Research Institute, Perth, Australia, ³Turning Point, Fitzroy, Australia
- Problem-gambling severity, suicidality and DSM-IV Axis I and II psychiatric disorders
 Silvia Ronzitti¹, Shane Kraus², Rani Hoff³, Massimo Clerici⁴, Marc Potenza⁵, ¹Yale University, New Haven,
 CT, ²VISN 1 New England MIRECC, Edith Nourse Rogers Memorial Veterans Hospital, Bedford, MA, ³Yale
 University Department of Psychiatry, West Haven, CT, ⁴University of Milan-Bicocca, Monza, Italy, ⁵Yale
 University School of Medicine, New Haven, CT
- Clinical and personality characteristics of problem and pathological gamblers with and without symptoms of adult ADHD
 Molly Cairncross¹, Aleks Milosevic², Cara Struble³, Jennifer Ellis³, David Ledgerwood³, ¹University of Windsor, Windsor, ON, Canada, ²Centre For Interpersonal Relationships, Ottawa, ON, Canada, ³Wayne StateUniversity, Detroit, MI

POSTER IV NICOTINE: HUMAN STUDIES

- 97 Respiratory physiology of healthy smokers during distress intolerance testing
 Annie Umbricht, Nicolas Schlienz, Martha Velez, Delcora Huggins, Johns Hopkins University School of
 Medicine, Baltimore, MD
- Promoting substitution of e-cigarettes for cigarettes through narratives: The Roles of authority and in-group biases in modulating narrative effectiveness

 William DeHart, Aenia Amin, Warren Bickel, Virginia Tech Carilion Research Institute, Roanoke, VA
- 99 *E-cigarette smoking in Thailand*Chitlada Areesantichai¹, Usaneya Perngparn¹, Linda Cottler², ¹Chulalongkorn University, Bangkok, Thailand,
 ²University of Florida, Gainesville, FL
- Electronic nicotine delivery systems (ENDS) and social media use among young adult college students Paul Harrell, Kelli Will, Andrew Plunk, Eastern Virginia Medical School, Norfolk, VA
- Comparison of combustible and electronic cigarette dependence severity between heterosexual and bisexual adolescents
 Madalyn Liautaud, Jessica Barrington-Trimis, Rob McConnell, Raina Pang, University of Southern California, Los Angeles, CA
- Predicting initiation of vaporized nicotine products, frequency of use and ongoing use among daily smokers in longitudinal data from the International Tobacco Control (ITC) Four Country Survey
 Gary Chan¹, Kylie Morphett², Coral Gartner², Janni Leung³, Hua-Hie Yong⁴, Wayne Hall⁵, Ron Borland⁴,
 ¹Centre for Youth Substance Abuse Research, Herston, Australia, ²School of Public Health, Brisbane, Australia, ³NDARC, UNSW, Australia, Brisbane, Australia, ⁴Cancer Council Victoria, Melbourne, Australia, ⁵University of Oueensland, Brisbane, Australia
- 103 Frequency of tobacco use in emerging adults is associated with self-reported, but not a laboratory measure of, inattention
 - Timothy Regan, Bethany Harris, Sherecce Fields, Texas A&M University, College Station, TX
- Effects of device voltage level on e-cigarette appeal differs by e-cigarette dependence
 Elaine Qian¹, Hannah Hardy², Nicholas Goldenson², Jessica Barrington-Trimis², Raina Pang², Adam
 Leventhal², Matthew Kirkpatrick², ¹University of Southern California, Dublin, CA, ²University of Southern
 California, Los Angeles, CA
- Impact of mentholation as a moderator of nicotine dose on relative reinforcing and subjective effects

 Danielle Davis¹, Cecilia Bergeria¹, Joanna Streck², Mollie Miller³, Janice Bunn¹, Diann Gaalema¹, Sarah

 Heil¹, Stacey Sigmon¹, Maxine Stitzer⁴, Jennifer Tidey⁵, Stephen Higgins¹, ¹University of Vermont,

 Burlington, VT, ²Vermont Center on Behavior and Health, Burlington, VT, ³Brown University Center for

 Alcohol and Addiction Studies, Providence, RI, ⁴Johns Hopkins Bayview Medical Center, Baltimore, MD,

 ⁵Brown University, Providence, RI
- Joanna Streck¹, Stacey Sigmon², Maria Parker², Maxine Stitzer³, Jennifer Tidey⁴, Sarah Heil², Diann Gaalema², Cecilia Bergeria², Danielle Davis², Jeff Priest², Anthony Barrows², Matthew Rothman², John Hughes², Stephen Higgins², ¹Vermont Center on Behavior and Health, Burlington, VT, ²University of Vermont, Burlington, VT, ³Johns Hopkins Bayview Medical Center, Baltimore, MD, ⁴Brown University, Providence, RI
- 107 Learning and memory performance following acute intranasal insulin administration in abstinent smokers
 Ajna Hamidovic, University of Illinois, Chicago, IL

- Characterizing tobacco use in a military sample
 Alexa Lopez¹, Alexxa Bessey², Julie Merrill¹, Walter Sowden³, ¹US Army Medical Research DirectorateWest, Tacoma, WA, ²Walter Reed Army Institute of Research, Washington, DC, ³Walter Reed Army Institute of Research, Silver Spring, MD
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- 109 California tobacco tax increase: Impact on a low-income drug treatment sample Denise Williams, Noah Gubner, Thao Le, Deborah Yip, Joseph Guydish, University of California San Francisco, San Francisco, CA
- An examination of psychological distress, healthcare coverage, and poly-tobacco product use among gay and bisexual men
 Raymond Moody¹, Christian Grov², Jeffrey Parsons³, ¹Graduate Center and CHEST, New York, NY, ²CUNY Graduate School of Public Health and Health Policy, New York, NY, ³Hunter College, CUNY, New York City, NY
- Anxiety sensitivity in relation to smoking variables and other substance use in African-American smokers Megan Kelly¹, Casey Guillot¹, Nathan Kearns¹, Michael Zvolensky², Norman Schmidt³, ¹University of North Texas, Denton, TX, ²University of Houston, Houston, TX, ³Florida State University, Tallahassee, FL
- Anxiety sensitivity as a predicator of the acute subjective effects of smoking in African-Americans during non-abstinence
 Sage Luna¹, Casey Guillot¹, Megan Kelly¹, Sara Hartigan¹, Raina Pang², Michael Zvolensky³, Adam Leventhal², ¹University of North Texas, Denton, TX, ²University of Southern California, Los Angeles, CA, ³University of Houston, Houston, TX
- Anxiety sensitivity moderates the association of relationship status with cigarette smoking heaviness and dependence
 Casey Guillot¹, Eileen Quinn¹, Megan Kelly¹, Aurora Brown¹, Casey Horani¹, Noah Phillips¹, Yuqing Liu¹, Adam Leventhal², ¹University of North Texas, Denton, TX, ²University of Southern California, Los Angeles, CA
- Amplitude of demand predicts abstinence among treatment-seeking smokers with elevated depressive symptoms: Further evidence of its internal structure
 Carla López Núñez¹, Alba González-Roz², Ángel García-Pérez³, Sara Weidberg³, Víctor Martínez-Loredo², Roberto Secades Villa³, ¹Universidad Loyola Andalucia, Sevilla, Spain, ²University of Oviedo, Addictive Behaviors Group, Oviedo, Spain, ³University of Oviedo, Oviedo, Spain
- Relationship of trait anger among smokers with SUD to nicotine dependence, barriers to quitting smoking, intolerance for discomfort, smoking, craving and compliance with smoking cessation medication

 Damaris Rohsenow¹, Rosemarie Martin¹, Suzanne Colby², Shelley Gresko¹, Jennifer Tidey¹, ¹Brown University, Providence, RI, ²Brown University Center for Alcohol and Addiction Studies, Providence, RI
- 116 Validation of a brief behavioral economic assessment of demand among cigarette smokers
 Liqa Athamneh¹, Jeffrey Stein¹, Michael Amlung², Warren Bickel¹, ¹Virginia Tech Carilion Research
 Institute, Roanoke, VA, ²Peter Boris Centre for Addictions Research, Hamilton, ON, Canada
- 117 A novel delayed cigarette purchase task: Associations with craving and smoking urges Mikhail Koffarnus, Brent Kaplan, Virginia Tech Carilion Research Institute, Roanoke, VA
- 118 Predictors of smoking cessation during pregnancy
 Lauren Micalizzi¹, Leslie Brick¹, Valerie Knopik², ¹Brown University, Providence, RI, ²Purdue University, West Lafayette, IN
- 119 Improving equity and consistency In hospital administration of smoking cessation pharmacotherapy
 Alex Ramsey¹, Donna Prentice², Ellis Ballard³, Melanie Houston³, Hannah Kramer³, Sophie Cheng³, LiShiun Chen¹, Laura Bierut¹, ¹Washington University School of Medicine, St. Louis, MO, ²Barnes-Jewish

- Hospital, St. Louis, MO, ³Washington University, St. Louis, MO
- 120 Utilization of smoking cessation interventions during VA Medical Center initial visits David Friedrich, James Walker, Shalika Whig, Karen Hartwell, Medical University of South Carolina, Charleston, SC
- 121 Impact of an employee-focused program for tobacco addiction treatment among employees of a French healthcare institution
 Marie Thérèse Ceccato¹, Jacques Dubernet², Jean-Marc Alexandre², Fuschia Serre², Marc Auriacombe²,
 ¹University of Bordeaux, Bordeaux, France, ²Université de Bordeaux, Bordeaux

POSTER IV SEX/GENDER II

- Cannabis dependence: Measurement equivalence by age and sex
 Christopher Thompson¹, Karl Alcover², James Anthony², ¹Theo Pediatric Health, Lansing, MI, ²Michigan State University, Lansing, MI
- Dimensions of negative consequences in regular marijuana users differ by sex

 Cara Struble¹, Jennifer Ellis¹, Molly Cairncross², Leslie Lundahl¹, ¹Wayne State University, Detroit, MI, ²University of Windsor, Windsor, ON, Canada
- Sex-differences in the associations between social support and frequency of use and severity of cannabis dependence: A secondary data analysis
 Kechna Cadet¹, Lesia M. Ruglass², ¹CUNY School of Medicine, New York, NY, ²The City University of New York, New York, NY
- Gender differences in emotional reactions to cigarette warning labels in teens
 Amanda Quisenberry, Elizabeth Klein, Ellen Peters, Ohio State University, Columbus, OH
- Effects of gender on affect during acute tobacco abstinence differ between African-American and White smokers
 Raina Pang, Mariel Bello, Madalyn Liautaud, Adam Leventhal, University of Southern California, Los Angeles, CA
- 127 Gender differences in utilization of quitline services and tobacco cessation among callers at a state quitline Alicia Allen, Nicole Yuan, Betsy Wertheim, Laurie Krupski, Melanie Bell, Uma Nair, University of Arizona, Tucson, AZ.
- Cocaine exposure and caregiving quality: Sex differences and effects on child behavior problems

 Ariana Roman¹, Rina Eiden², Shannon Shisler¹, ¹Research Institute on Addictions, Buffalo, NY, ²State
 University of New York at Buffalo, Buffalo, NY
- 129 Mood, meth, and sex: Latent growth curve modeling results from a randomized trial Eileen Pitpitan, University of California San Diego, La Jolla, CA
- The impacts of childhood sexual and physical abuse on adulthood sex trade involvement in the US: Evaluating gender differences in associations and mediation

 MacRegga Severe¹, Kriupa Samson², Joy Scheidell¹, Christopher Frueh³, Jarrett Williams¹, Kailyn Pearce¹,

 Maria Khan¹, ¹New York University School of Medicine, New York, NY, ²New York University, College of Nursing, New York, NY, ³University of Hawaii at Hilo, Hilo
- Gender differences in HIV, anti-HCV and HBsAg prevalence among people who inject drugs A multi-stage systematic review and meta-analysis of global evidence

 Janni Leung¹, Amy Peacock², Samantha Colledge², Jason Grebely³, Evan Cunningham⁴, Matthew Hickman⁵, Peter Vickerman⁶, Jack Stone⁶, Adam Trickey⁶, Kostyantyn Dumchev⁷, Michael Lynskey⁸, Lindsey Hines⁸, Paul Griffiths⁹, Richard Mattick⁴, Sarah Larney², Louisa Degenhardt², ¹NDARC, UNSW, Australia, Brisbane,

- Australia, ²National Drug and Alcohol Research Centre, Sydney, Australia, ³The Kirby Institute, Sydney, Australia, ⁴University of New South Wales, Sydney, Australia, ⁵NIHR School of Public Health, Bristol, ⁶Bristol University, Clifton, United Kingdom, ⁷Ukrainian Institute on Public Health Policy, Kyiv, Ukraine, ⁸King's College, London, United Kingdom, ⁹EMCDDA, Lisbon, Portugal
- Gender differences in the provision of injection initiation assistance: A comparison of three North American settings

 Stephanie Meyers¹, Ayden Scheim¹, Sonia Jain¹, Shelly Sun¹, M-J Milloy², Kora DeBeck³, Kanna Hayashi⁴, Richard S Garfein¹, Steffanie Strathdee¹, Dan Werb¹, ¹University of California San Diego, La Jolla, CA, ²British Columbia Centre for Excellence in HIV/AIDS, Vancouver, ³BC Centre for Excellence in HIV/AIDS, Vancouver, ⁴Simon Fraser University, Vancouver, BC, Canada
- A re-evaluation of the KMSK scales, rapid dimensional measures of exposure to specific drugs
 Carina Chen, Eduardo Butelman, Rebecca Fry, Rachel Kimani, Joel Correa da Rosa, Mary Jeanne Kreek, The
 Rockefeller University, New York, NY

POSTER IV THEORETICAL COMMENTARY

- FDA and other US agency roles in the drug scheduling process for substances assessed under our international drug control treaties

 James Hunter, U.S. Food and Drug Administration, Silver Spring, MD
- How drugs without abuse potential are removed from control under the controlled substances act Katherine Bonson, U.S. Food and Drug Administration, Silver Spring, MD
- Developing hallucinogenic drugs as therapeutic agents: Regulatory framework
 Silvia Calderon¹, Joshua Hunt², Michael Klein³, ¹U.S. Food and Drug Administration, Silver Spring, MD,
 ²FDA/CDER/OCD/CSS, Silver Spring, MD, ³Controlled Substance Scientific Solutions LLC, Chevy Chase, MD
- Category 1 assessment of opioid vaping: A focus of FDA advisory committee interest
 August Buchhalter¹, Edward Cone¹, Christopher Altomare², Anthony Costantino², ¹Pinney Associates, Inc.,
 Bethesda, MD, ²DRUGSCAN, Horsham, PA
- 138 Kratom and its mitragynines in the opioid crisis: A path to or away from opioids?
 Jack Henningfield¹, Robert Raffa, Albert Garcia-Romeu², Tina Doshi, ¹Pinney Associates, Inc., Bethesda, MD, ²Johns Hopkins University School of Medicine, Baltimore, MD
- Pain treatment with buprenorphine as a strategy to reduce the epidemic of opioid abuse and overdose Reginald Fant¹, Sidney Schnoll², Lisa Zapawa¹, Karen Gerlach¹, ¹Pinney Associates, Inc., Bethesda, MD, ²Pinney Associates, Inc., Stamford, CT
- 140 Solutions to financial barriers to pharmacy-based naloxone access
 Jeffrey Bratberg¹, Traci Green², Alexander Walley², ¹University of Rhode Island, College of Pharmacy, Attleboro, MA, ²Boston University School of Medicine, Boston, MA
- 141 The landscape of bundled payment: Where does addiction fit in?
 Maureen Stewart¹, Constance Horgan², Jennifer Perloff², Alexandra Kritikos², Amity Quinn³, ¹Brandeis University, Waltham, MA, ²Brandeis University, Heller School for Social Policy and Management, Waltham, MA, ³University of Calgary, Calgary, AB, Canada
- Rewarding value in substance use treatment: What are the unique challenges?

 Constance Horgan¹, Maureen Stewart², Dominic Hodgkin¹, Alexandra Kritikos¹, ¹Brandeis University, Heller

- School for Social Policy and Management, Waltham, MA, Brandeis University, Waltham, MA
- 143 Statistical considerations on pharmacodynamic assessment Ling Chen, U.S. Food and Drug Administration, Silver Spring, MD
- How is the abuse potential of opioids affected by drugs used concomitantly with opioids?
 Greg Hawkins¹, Shalini Bansil², ¹U.S. Food and Drug Administration, Silver Spring, MD, ²FDA/CSS, Silver Spring, MD
- Tobacco product abuse liability: State of the science and major challenges

 Stacey Sigmon¹, Dorothy Hatsukami², Chad Reissig³, Mark Lesage⁴, Eric Donny⁵, Andrea Villanti, Jack Henningfield⁶, ¹University of Vermont, Burlington, VT, ²University of Minnesota Medical School, Minneapolis, MN, ³FDA Center for Tobacco Products, Sandy Spring, MD, ⁴Minneapolis Medical Research Foundation, Minneapolis, MN, ⁵Wake Forest University School of Medicine, Winston-Salem, NC, ⁶Pinney Associates, Inc., Bethesda, MD
- Adjusting for sampling bias in cross-sectional surveys
 Olga Vselvolozhskaya¹, James Anthony², Dmitri Zaykin³, ¹College of Public Health, Lexington, KY,
 ²Michigan State University, Lansing, MI, ³NIEHS, Research Triangle Park, NC
- Childhood trauma matters for addiction, STI/HIV, and criminal justice: Where do we go from here?

 Maria Khan¹, Christopher Frueh², Joy Scheidell¹, ¹New York University School of Medicine, New York, NY,

 ²University of Hawaii at Hilo, Hilo
- Medical licensing application questions and physician reluctance
 Paige Marnell, Bryon Adinoff, University of Texas Southwestern Medical Center, Dallas, TX
- Changing career opportunities for trainees and early career professionals in the field of drug abuse science
 Bethea Kleykamp¹, Katherine Saulsgiver², Cassandra Gipson-Reichardt³, ¹Pinney Associates, Inc., Bethesda,
 MD, ²BetterUp Inc., San Francisco, CA, ³Arizona State University, Tempe, AZ
- Video enhancements to a virtual self-administration laboratory

 Adithya Kashyap¹, Harika Mandela¹, Vladimir Tsibulsky¹, Andrew Norman², ¹University of Cincinnati,

 Cincinnati, OH, ²University of Cincinnati, College of Medicine, Cincinnati, OH

ORAL COMMUNICATIONS 22 Indigo E GETTING ON THE WAGON: ALCOHOL 2:00 - 3:00 PM

Chairs: Rajita Sinha

- 2:00 Human kappa opioid receptor (KOP-r) partial agonist nalmefene and agonist nalfurafine reduce excessive and "relapse" alcohol drinking in C57BL/6J mice
 Yan Zhou, Mary Jeanne Kreek, The Rockefeller University, New York, NY
- 2:15 Paternal alcohol exposure reduces operant alcohol self-administration in adult male and female offspring Steven Nieto¹, Cana Quave¹, Sergio Sanchez¹, Tamara Shan¹, Richard Meisch², Therese Kosten¹, ¹University of Houston, Houston, TX, ²University of Texas Health Science Center, Houston, TX
- 2:30 Translocator protein expression in alcoholism: a [11C]PBR28 PET study in humans and rats
 Corinde Wiers¹, Sunny Kim¹, Ryan Tyler¹, Ehsan Shokri Kojori², Luke Park³, Jei-San Liow⁴, Nancy
 Diazgranados², Leandro Vendruscolo⁵, George Koob², Robert Innis⁴, Dardo Tomasi², Gene-Jack Wang¹,
 Nora Volkow⁵, ¹NIH, NIAAA, Bethesda, MD, ²National Institute on Alcohol Abuse and Alcoholism,
 Bethesda, MD, ³National Institutes of Health Clinical Center, Bethesda, MD, ⁴National Institute of Mental
 Health, Bethesda, MD, ⁵National Institute of Drug Abuse, National Institutes of Health, Bethesda, MD
- 2:45 Ethanol reinforcement elicits a novel response inhibition behavior in a model of ethanol dependence Sucharita Somkuwar¹, Leon Quach², Jacqueline Quigley³, Dvijen Purohit⁴, Chitra Mandyam⁴, ¹Veterans

Medical Research Foundation, San Diego, CA, ²Veterans Affairs San Diego Healthcare System, San Diego, CA, ³University of Michigan, Ann Arbor, MI, ⁴University of California San Diego, La Jolla, CA

ORAL COMMUNICATIONS 23 Indigo H OVERDOSE: TOO MUCH OF A BAD THING 2:00 - 4:00 PM

Chairs: Alexander Walley and Erika Pike

- 2:00 A novel platform to generate opioid-specific monoclonal antibodies to counteract opioid overdose Carly Baehr¹, Christine Robinson², Marco Pravetoni², ¹University of Minnesota, Department of Veterinary Medicine, Vadnais Heights, MN, ²Minneapolis Medical Research Foundation, Minneapolis, MN
- 2:15 Gender-specific facilitators and barriers to accessing an overdose prevention intervention: A rapid ethnographic study
 Jade Boyd¹, Samara Mayer², Alexandra Collins², Ryan McNeil³, ¹British Columbia Centre on Substance Use, Vancouver, BC, Canada, ²BC Centre on Substance Use, Vancouver, BC, Canada, ³University of British Columbia, BC Centre on Substance Use, Vancouver, BC, Canada
- 2:30 Injectable naltrexone, oral naltrexone, and buprenorphine/naloxone and overdose among individuals treated for opioid use disorder in a United States commercially insured population
 Jake Morgan¹, Bruce Schackman², Zoe Weinstein¹, Alexander Walley¹, Benjamin Linas¹, ¹Boston University School of Medicine, Boston, MA, ²Weill Cornell Medical College, New York, NY
- 2:45 Opioid overdoses and suicidality in an emergency setting
 A Srivastava¹, Randi Foraker², Evan Schwarz³, Anne Glowinski², Mark Gold², Laura Bierut², ¹Department of Psychiatry, Washington University School of Medicine, Saint Louis, Missouri, ²Washington University School of Medicine, St. Louis, MO, ³Washington University School of Medicine Division of Emergency Medicine, St. Louis, MO
- 3:00 Overdose experiences increase risk for injection drug use following incarceration in rural women who use opioids
 Erika Pike¹, Amanda Bunting¹, Michele Staton², ¹University of Kentucky, Lexington, KY, ²University of Kentucky, College of Medicine, Lexington, KY
- 3:15 Naloxone laws facilitate the establishment of overdose education and naloxone distribution programs in the US
 Barrot Lambdin¹, Corey Davis², Eliza Wheeler³, Jennifer Lorvick⁴, Alex Kral¹, ¹RTI International, Research Triangle Park, NC, ²Network for Public Health Law, Edina, MN, ³Harm Reduction Coalition, Oakland, CA, ⁴RTI International, San Francisco, CA
- 3:30 Touchpoints to identify individuals at high risk for opioid overdose death

 Marc Larochelle¹, Dana Bernson², Thomas Land², Thomas Stopka³, Adam Rose⁴, Jane Liebschutz⁵,

 Alexander Walley¹, ¹Boston University School of Medicine, Boston, MA, ²Massachusetts Department of

 Public Health, Boston, MA, ³Tufts University School of Medicine, Boston, MA, ⁴RAND Corporation, Boston,

 MA, ⁵University of Pittsburgh, Pittsburgh, PA
- 3:45 "Generally, you get 86'ed because you're a liability." Social consequences of frequent overdoses among drug using networks
 Jeanette Bowles¹, Karla Wagner², Silvia Verdugo¹, Peter Davidson¹, ¹University of California San Diego, La Jolla, CA, ²University of Nevada, Reno, NV

SYMPOSIUM XXI NEW TARGETS FOR DRUG ABUSE THERAPY

Indigo BCFG 2:00 - 4:00 PM

Chairs: Thomas Prisinzano and Nurulain Zaveri

- 2:00 Progress towards the development of novel therapeutics for drug dependence N. Cosford, NCI-Designated Cancer Center, LaJolla, CA
- 2:25 NOP receptor-targeted agonists as non-addictive analgesics and potential anti-opioid treatment in primates M. Ko, University of Michigan, Ann Arbor, MI
- 2:50 Dissecting the neuropeptide S system and its role in substance abuse S. Runyon, RTI International, Research Triangle Park, NC
- 3:15 Small molecule TLR modulators targeting neurological diseases H. Yin, University of Colorado, Aurora, CO
- 3:40 The synthesis, optimization and biological characterization of a novel series of D4 antagonists as a potential new treatment for drug abuse
 C. Hopkins, University of Nebraska Medical Center, Omaha, NE

SYMPOSIUM XXII SEX AND GENDER IMPLICATIONS FOR EMERGING DRUG POLICY

Indigo D 2:00 - 4:00 PM

Chairs: Sherry McKee and Cora Lee Wetherington

- 2:00 Sex-dependent therapeutic and adverse effects of cannabis and cannabinoids Z. Cooper, Columbia University and NYSPI, New York, NY
- 2:25 Why gender matters in opioid drug policy
 H. Jones, University of North Carolina at Chapel Hill, Carrboro, NC
- 2:50 Sex differences in nicotine and non-nicotine determinant of smoking and tobacco product regulation E. Donny, Wake Forest University School of Medicine, Winston-Salem, NC
- 3:15 The epidemiology of gender differences in drinking and related problems D. Hasin, Columbia University, New York, NY
- 3:40 *Discussant: Sex and gender-based science informs basic, translational, clinical and policy relevant research* S. Greenfield, McLean Hospital, Harvard Medical School, Belmont, MA

ORAL COMMUNICATIONS 24 Indigo E
DOUBLE JEOPARDY: COMORBIDITY 3:15 - 4:15 PM

Chairs: Mark IIgen

- 3:15 Associations between PTSD, alcohol poisoning, and drug overdose among individuals in residential treatment Kipling Bohnert¹, Rebecca Sripada², Mark IIgen², Maureen Walton¹, Frederic Blow¹, Amy Bohnert²,

 ¹University of Michigan, Addiction Center, Ann Arbor, MI, ²University of Michigan, Ann Arbor, MI
- 3:30 Receipt of opioid medications and other treatments among soldiers with post-traumatic stress disorder (PTSD)

 Mary Jo Larson, Rachel Adams, Mayada Saadoun, Sue Lee, Mark Bauer, Brandeis University, Heller School for Social Policy and Management, Waltham, MA
- 3:45 Embedding tobacco dependence treatment within addictions treatment settings: Substance use co-morbidity and other predictors of cessation

 Laurie Zawertailo, Peter Selby, Centre for Addiction and Mental Health, Toronto, ON, Canada
- 4:00 Hospital stay in patients with bipolar disorder, schizophrenia, and other psychotic disorders is negatively associated with synthetic cannabinoid or marijuana use

Huiqiong (Joan) Deng¹, Pratikkumar Desai², Satyajit Mohite², David Nielsen³, Olaoluwa Okusaga², Thomas Kosten⁴, ¹University of Texas Health Science Center, McGovern Medical School, Houston, TX, ²Department of Psychiatry and Behavioral Sciences, McGovern Medical School at the University of Texas Health Sciences Center, Houston, TX, ³Baylor College of Medicine, Montgomery, TX, ⁴Baylor College of Medicine, Bellaire, TX

SWEEPSTAKES DRAWING

Indigo A 4:15 - 5:15 PM

HAVE A SAFE TRIP HOME! SEE YOU IN SAN ANTONIO, TEXAS JUNE 15 - 20, 2019

Friday, June 15, 2018

CPDD/INRC/RSA

Aqua DEF 1:00 - 3:00 PM

Chairs: Sherry McKee

Translating the molecular underpinnings of alcohol and tobacco interactions towards effective treatment Presenters: John A. Dani, Marissa Ehinger, Sherry McKee, Dieter Meyerhoff and David Lovinger

CPDD/INRC/RSA

Aqua DEF 3:00 - 5:00 PM

Chairs: Lara Ray

Pharmacogenetics of addiction treatment

Presenters: Lara Ray, Danielm Roche, Jermaine Jones, Eric Otto Johnson and Jonathan Pollock

2018 NIDA International Forum Abstracts

June 11, 2018–7:00 to 9:00 p.m. 7:00 PM

Sappphire D/H/L/P 7:00 PM-9:00 PM

Basic Science

- 100 Repeated exposure to toluene alters the intrinsic excitability of layer V pyramidal neurons in the prefrontal cortex of adolescent rats in a dependent concentration manner

 M. Armenta-Resendiz. Cinvestav, Mexico
- 101 MP1104, a potent and long-acting analgesic with mixed kappa and delta opioid receptor agonist activities attenuates cocaine self-administration and drug-seeking behavior in rats

 D. Atigari¹, R. Uprety², S. Majumdar², B. Kivell¹. ¹Centre for Biodiscovery and School of Biological Sciences, Victoria University of Wellington, New Zealand; ²Department of Neurology, Memorial Sloan Kettering Cancer Center, United States
- 102 Morphine and fentanyl co-administration increases lethality and serotonin toxicity in mice S. Cruz, C. Carranza-Aguilar, A. Hernández-Mendoza, C. López-Rubalcava. Departamento de Farmacobiología, Cinvestav, Mexico
- 103 Gray matter volume alterations among cocaine users: A voxel-based morphometry study
 C.V. de Mello¹, P.D. Gonçalves², F. Duran³, H. Oliveira², D. Lima¹, M. Serpa¹, A.
 Malbergier², N. Costa³, M. Ometto¹, R. Amaral², M. Zanetti³, T. Chaim³, L. Ferreira³, M.
 Cavalett³, S. Nicastri², A. De Andrade², G. Busatto¹, P. Cunha¹. ¹Departamento de
 Psiquiatria, Faculdade de Medicina, Universidade de São Paulo (FMUSP), Brazil; ²Grupo
 Interdisciplinar de Estudos de Álcool e Drogas, Instituto de Psiquiatria (IPq), Hospital das
 Clinicas (HC), FMUSP, Brazil; ³Laboratorio de Neuroimagem, IPq, HC, FMUSP, Brazil
- 104 Drug discrimination studies in rats: Impact of the route of administration C. Froger-Colléaux, S. Paillard, K. Davoust, S. Pedron, V. Castagné. Porsolt SAS, France
- 105 Resting state functional connectivity among inpatients reporting crack use versus snorted cocaine use
 - P.D. Gonçalves, L. Sanchez, P. Rosa, H. Oliveira, Jr., D. Lima, C. Mello, R. Amaral, M. Foigel, M. Ometto, L. Sant´Ana, A. Malbergier, S. Nicastri, A. Andrade, G. Busatto, P. Cunha. Institute of Psychiatry, School of Medicine, University of São Paulo, Brazil
- 106 Does dopamine transporter activity predict the risk of opioid use disorder or mediate the relationship between novelty seeking and cognitive flexibility in opioid addiction?
 S-Y. Huang¹, C-S. Liang².³. ¹Department of Psychiatry, Tri-Service General Hospital, National Defense Medical Center, Taiwan; ²Department of Psychiatry, Beitou Branch, Tri-Service General Hospital, Taiwan; ³Graduate Institute of Medical Sciences, National Defense Medical Center, Taiwan
- 107 Striatal functional connectivity in chronic ketamine users: Sex differences and impulsivity

 C-C. Hung^{1,2}, S. Zhang³, C-M. Chen⁴, J-R. Duann^{4,5,6}, C-P. Lin², C-S.R. Li^{3,7,8}, T.S-H. Lee⁹.

 ¹Bali Psychiatric Center, Ministry of Health and Welfare, Taiwan; ²Institute of Neuroscience,
 National Yang Ming University, Taiwan; ³Department of Psychiatry, Yale University, United
 States; ⁴Department of Radiology, China Medical University Hospital, Taiwan; ⁵Institute of
 Cognitive Neuroscience, National Central University, Taiwan; ⁵Institute for Neural
 Computation, University of California San Diego, United States; ⁷Department of
 Neuroscience, Yale University, United States; ⁸Beijing Huilongguan Hospital, China;
 ⁹Department of Health Promotion and Health Education, National Taiwan Normal
 University, Taiwan

108 Memantine attenuates reinstatement of heroin seeking induced by heroin or cues in an animal model of relapse

M. Lai, H. Liu, F. Zhang, W. Zhou. Laboratory of Behavioral Neuroscience, Ningbo Addiction Research and Treatment Center, Ningbo University School of Medicine, China

109 The effects of chronic ketamine exposure on brain morphology and functional changes in adolescence-onset users

T. S-H. Lee¹, C-C. Hung^{2,3}, Y.H. Liu², C-C. Huang², C-M. Chen⁴, J-R. Duann^{5,6}, C-S.R. Li^{7,8}, N.G. Muggleton^{5,9,10,11}, W-T. Chen¹², C-P. Lin¹³. ¹Department of Health Promotion and Health Education, National Taiwan Normal University, Taiwan; ²Institute of Neuroscience, National Yang Ming University, Taiwan; ³Bali Psychiatric Center, Ministry of Health and Welfare, Taiwan; ⁴Department of Radiology, China Medical University Hospital, Taiwan; ⁵Institute of Cognitive Neuroscience, National Central University, Taiwan; ⁶Institute for Neural Computation, University of California San Diego, United States; ⁷Department of Psychiatry, Yale University, United States; ⁸Department of Neuroscience, Yale University, United States; ⁹Brain Research Center, College of Health Science and Technology, National Central University, Taiwan; ¹⁰Institute of Cognitive Neuroscience, University College London, United Kingdom; ¹¹Goldsmiths, University of London, United Kingdom; ¹²School of Nursing, University of California Los Angeles, United States; ¹³Brain Research Center, National Yang-Ming University, Taiwan

110 Disrupted small-world networks in chronic ketamine users

Y. Liao, J. Tang. Department of Psychiatry, Second Xiangya Hospital of Central South University, China

111 The orexin (hypocretin) receptor 2 gene polymorphism Val308Ile associated with nicotine dependence

D. Nishizawa¹, S. Kasai¹, J. Hasegawa¹, N. Sato^{2,3}, H. Yamada³, F. Tanioka⁴, M. Nagashima⁵, H. Ujike^{6,7}, R. Hashimoto^{8,9}, T. Arai¹⁰, S. Mori¹¹, M. Sawabe¹², M. Naka-Mieno¹³, Y. Yamada¹⁴, M. Yamada¹⁵, N. Sato¹⁵, M. Muramatsu¹⁵, M. Tanaka^{16,17}, M. Havashida¹⁸, H. Sugimura³, K. Ikeda^{1,7}. Addictive Substance Project, Tokyo Metropolitan Institute of Medical Science, Japan; ²Department of Clinical Nursing, School of Medicine, Hamamatsu University, Japan; ³Department of Tumor Pathology, School of Medicine, Hamamatsu University, Japan; ⁴Department of Pathology, Iwata City Hospital, Japan; ⁵Department of Surgery, Sakura Medical Center, Toho University, Japan; ⁶Ujike Nishiguchi Clinic, Japan; ⁷Japanese Genetics Initiative for Drug Abuse, Japan; ⁸Department of Psychiatry, Graduate School of Medicine, Osaka University, Japan; Molecular Research Center for Children's Mental Development, United Graduate School of Child Development, Osaka University, Kanazawa University, Hamamatsu University, Chiba University, and Fukui University, Japan; ¹⁰Department of Pathology, Tokyo Metropolitan Geriatric Hospital, Japan; ¹¹Center for Promotion of Clinical Investigation, Tokyo Metropolitan Geriatric Hospital, Japan; ¹²Department of Molecular-Genetic Sciences, Division of Biomedical Laboratory Sciences, Graduate School of Health Care Sciences, Tokyo Medical and Dental University, Japan; ¹³Department of Medical Informatics, Center for Information, Jichi Medical University, Japan; ¹⁴Department of Human Functional Genomics, Life Science Research Center, Mie University, Japan; ¹⁵Department of Molecular Epidemiology, Medical Research Institute, Tokyo Medical and Dental University, Japan; ¹⁶Department of Genomics for Longevity and Health, Tokyo Metropolitan Institute of Gerontology, Japan; ¹⁷Department of Clinical Laboratory, Tokyo Metropolitan Geriatric Hospital, Japan; ¹⁸Department of Anesthesiology and Pain Medicine, Juntendo University School of Medicine, Japan

- 112 Looking beyond primary reinforcement to examine self-medication of nicotine in schizophrenia M. Shoaib. Institute of Neuroscience, Medical School, Newcastle University, United Kingdom
- 113 The effects of synthetic cannabinoids on executive function and related brain activity in fMRI A. Weinstein¹, A. Livny², K. Cohen¹, N. Tik², P. Rosca³. ¹Department of Behavioral Science, Ariel University, Israel; ²The MRI Unit, Department of Diagnostic Imaging, Sheba Medical Center, Israel; ³Department for the Treatment of Substance Abuse, Ministry of Health, Israel
- 114 Tat-GluR23Y peptide disrupts methamphetamine-associated memory and reduces long-term relapse
 - C. Yang^{1,2,*}, C. Dong^{3,*}, Y.T. Wang⁴, X. Zhang^{1,2}, W. Hao^{1,2}. ¹Department of Psychiatry, The Second Xiangya Hospital, Central South University, China; ²Mental Health Institute of the Second Xiangya Hospital, Central South University, Chinese National Clinical Research Center on Mental Disorders (Xiangya), Chinese National Technology Institute on Mental Disorders, Hunan Key Laboratory of Psychiatry and Mental Health, China; ³Tianjin Mental Health Centre, Tianjin Anding Hospital, China; ⁴Brain Research Center, The University of British Columbia, Canada. *These authors contributed equally to this work.

115 Linking cell types defined by epigenetic profiling to neural circuits

Z.Z. Zhang^{1*}, E.J. Kim^{2*}, J. Zhou^{1,3}, D. Le^{1,4}, T. Ito-Cole², M.C. Ku⁵, R. Castanon¹, M. Hu⁴, J.R. Nery¹, M. Jacobs², E.M. Callaway^{2*}, J.R. Ecker^{1,6*}. ¹Genomic Analysis Laboratory, The Salk Institute for Biological Studies, United States; ²Systems Neurobiology Laboratories, The Salk Institute for Biological Studies, United States; ³Bioinformatics Program, University of California San Diego, United States; ⁴Division of Biological Sciences, University of California San Diego, United States; ⁵Next Generation Sequencing Core, The Salk Institute for Biological Studies, United States; ⁶Howard Hughes Medical Institute, The Salk Institute for Biological Studies, United States. *These authors contributed equally to this work.

Epidemiology

200 Cognitive impairment and tramadol dependence

M. Abdelghani, M. Bassiony, U. Youssef, M. Said, G. Salah Eldeen, H. El-Gohary, A. Abdalla, D. Ibrahim. Department of Psychiatry, Zagazig University, Egypt

- 201 Khat (Catha edulis) use and the occurrence of psychotic symptoms in the general population in southwestern Ethiopia: Suggestive evidence for sensitization by traumatic experiences K. Adorjan^{1,2,3}, M. Odenwald^{4,5}, M. Widmann^{4,5}, M. Tesfaye⁶, F. Tessema⁷, S. Toennes⁸, S. Suleman⁹, S. Papiol¹, M. Soboka⁶, Z. Mekonnen¹⁰, B. Rockstroh⁴, M. Rietschel¹¹, O. Pogarell², E. Susser^{12,13}, T.G. Schulze¹. ¹Institute of Psychiatric Phenomics and Genomics, Germany; ²Department of Psychiatry and Psychotherapy, Ludwig Maximilians University Munich, Germany; ³Center for International Health, Ludwig Maximilians University Munich, Germany; ⁴Department of Psychology, University of Konstanz, Germany; ⁵Vivo International e.V., Germany; ⁶Department of Psychiatry, Jimma University, Ethiopia; ⁷Department of Epidemiology, Jimma University, Ethiopia; ⁸Department of Forensic Toxicology, Goethe University, Germany; 9School of Pharmacy, Jimma University Institute of Health, Ethiopia; ¹⁰Department of Medical Laboratory Sciences and Pathology, Jimma University, Ethiopia; ¹¹Department of Genetic Epidemiology in Psychiatry, Central Institute of Mental Health, Medical Faculty Mannheim, University of Heidelberg, Germany; ¹²Mailman School of Public Health, Columbia University, United States; ¹³New York State Psychiatric Institute, United States
- 202 An exploratory analysis of gender differences of smokable cocaine users accessing treatment at 4-month post-treatment follow-up
 - G. Ahumada¹, M. Hynes². Red Latinoamericana de Investigadores en Drogas (REDLA), Inter-American Observatory on Drugs, Inter-American Drug Abuse Control Commission (CICAD), Argentina; ²Organization of American States, CICAD, United States
- 203 Knowledge, attitudes, and practices of shisha (hookah) smoking among female smokers in Gaza Strip (Palestinian Territories)
 - M.F. AlAfifi¹, M. Saqqa², M. Shihada¹. ¹Substance Abuse Research Center, Gaza, Palestinian Territories; ²Al-Azhar University–Gaza, Palestinian Territories
- 204 Prevalence of alcohol, tobacco, and other drug use among university students in Mexico City M. Azcárraga-Quiza¹, D. Aguilar², E. García¹, A. Villa³, G. Obrador². ¹Centro Universitario de Salud y Bienestar, Universidad Panamericana, Mexico; ²Facultad de Ciencias de la Salud, Universidad Panamericana, Mexico; ³Public Health Department, Universidad Panamericana, Mexico

- 205 Assessing perceptions on drug policies: Insights from a population-based national household survey
 - F.I. Bastos¹, C. Coutinho¹, L. Toledo¹, J. Corrêa¹, N.B. Reis², M.T.L. Vasconcellos³, R. De Boni⁴. ¹Health Information Laboratory, Institute of Communication and Technological Information in Health, Oswaldo Cruz Foundation (FIOCRUZ), Brazil; ²National Institute of Cancer, Ministry of Health, Brazil; ³National School of Statistical Sciences, Brazilian Institute of Geography and Statistics, Brazil; ⁴National Institute of Infectology Evandro Chagas, FIOCRUZ, Brazil
- 206 Assessment of substance use among Ambo University students, Ethiopia

 T.F. Bedane. School of Psychology, College of Education and Behavioral Studies, Addis
 Ababa University, Ethiopia; Ambo University, Ethiopia
- 207 Substance use problems among residents living in the slums of New Delhi
 S. Bhattacharjee. Society for Promotion of Youth and Masses, India; Hubert H. Humphrey
 Fellowship Program, Virginia Commonwealth University, United States
- 208 Relationship between psychopathy, anxiety, and anxiety sensitivity in a sample of heroin and amphetamine users
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- 209 Hepatitis C virus status and psychiatric burden of opioid-dependent adults and young offenders in Austrian prisons
 - L. Brandt¹, M. Silbernagl², R. Slamanig², G. Fischer². ¹Department for Applied Psychology, University of Vienna, Austria; ²Center for Public Health, Medical University of Vienna, Austria
- 210 Relationship between cannabis use and mental health conditions as recorded in electronic health records of Community Health Centre patients
 - A. Campbell¹, D. McCarty², S.R. Bailey³. ¹Queens University Belfast, United Kingdom; ²Oregon Health & Science University (OHSU)–Portland State University School of Public Health, United States; ³School of Family Medicine, OHSU, United States
- 211 Hepatitis screening through the analysis of liver enzymes in drug users
 - O. Campollo^{1,2}, A. Panduro², S. Roman², G. Hernández¹. ¹Centro de Estudios de Alcoholismo y Adicciones, Departamento Clínicas Médicas, CUCS, Universidad de Guadalajara, Mexico; ²Departamento Biología Molecular, Antiguo Hospital Civil de Guadalajara, Mexico
- 212 HIV/hepatitis C virus risk in Colombia among people who inject drugs and their networks S. Campos¹, P. Mateu-Gelabert², K. Quinn¹. ¹Rory Meyers College of Nursing, New York University, United States; ²National Development and Research Institutes, Inc., United States
- 213 County-level association between medical marijuana laws and prescription opioid overdose deaths in the United States
 - A. Castillo-Carniglia¹, W. Ponicki², P. Gruenewald², J. Santaella-Tenorio³, J.H. Kim³, D.S. Fink³, C. Davis⁴, S.S. Martins³, V. Pear¹, S.G. Henry⁵, G.J. Wintemute¹, K.M. Keyes³, M. Cerdá¹. ¹Violence Prevention Research Program, University of California Davis, United States; ²Prevention Research Center, Pacific Institute for Research and Evaluation, United States; ³Department of Epidemiology, Columbia University, United States; ⁴Network for Public Health Law, United States; ⁵Department of Internal Medicine, University of California Davis, United States

- 214 Nonfatal overdose prevalence among people who inject drugs: A multistage systematic review and meta-analysis of recent evidence
 - S. Colledge¹, A. Peacock¹, J. Leung¹, J. Grebely², M. Hickman³, M. Farrell¹, S. Larney¹, L. Degenhardt¹. ¹National Drug and Alcohol Research Centre, University of New South Wales, Australia; ²Kirby Institute, University of New South Wales, Australia; ³University of Bristol, United Kingdom
- 215 Sociodemographic profile of crack users in National Household Survey on Substance Use: Brazil, 2015
 - C. Coutinho¹, L. Toledo¹, J. Corrêa¹, N.B. Reis², R. De Boni³, M.T.L. Vasconcellos⁴, F.I. Bastos¹. ¹Health Information Laboratory, Institute of Communication and Technological Information in Health, Oswaldo Cruz Foundation (FIOCRUZ), Brazil; ²National Institute of Cancer, Ministry of Health, Brazil; ³National Institute of Infectology Evandro Chagas, FIOCRUZ, Brazil; ⁴National School of Statistical Sciences, Brazilian Institute of Geography and Statistics, Brazil
- 216 Noninjected substance use and HIV status in the III Brazilian Household Survey on Substance Use
 - R. De Boni¹, M.T.L. Vasconcellos², P.N. Silva², N. Bertoni³, C.F.S. Coutinho⁴, J.C. Mota⁴, A.N. Silva², L.A. Matzenbacher², F.I. Bastos⁴. ¹National Institute of Infectology Evandro Chagas, Oswaldo Cruz Foundation (FIOCRUZ), Brazil; ²National School of Statistical Sciences, Brazilian Institute of Geography and Statistics, Brazil; ³Brazilian National Cancer Institute, Ministry of Health, Brazil; ⁴Institute of Communication and Technological Information in Health, FIOCRUZ, Brazil
- 217 Marijuana use and dependence rates in adolescent residents of Brazil and the United States F. De Conto¹, C.S. Madruga², R. de Cerqueira Campos³, R. Laranjeira⁴, D. Svikis⁵.

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- 218 Prevalence of substance use and suicide attempts among adolescent girls in an institutional setting
 - P. Dolezalova, L. Kazmer, B. Orlíkova, L. Csemy. National Institute of Mental Health in Klecany, Czech Republic
- 219 Linking Global Youth Tobacco Survey data to the World Health Organization Framework Convention on Tobacco Control: The case for Egypt
 - O. El-Shahawy^{1,2,3}, N. Nicksic^{4,5}, C. Ramôa², M. Jawad⁶, R. Niaura⁷, D. Abrams⁷, S. Sherman^{1,2,7}. ¹Department of Population Health, School of Medicine, New York University, United States; ²Public Health Research Center, New York University-Abu Dhabi, United Arab Emirates; ³Faculty of Medicine, Ain Shams University, Egypt; ⁴Department of Health Behavior and Policy, Virginia Commonwealth University (VCU), United States; ⁵Department of Psychology, Center for the Study of Tobacco Products, VCU, United States; ⁶Public Health Policy Evaluation Unit, School of Public Health, Imperial College London, United Kingdom; ⁷College of Global Public Health, New York University, United States

- 220 Frequency of psychiatric disorders and impulsivity among drug-using drivers
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- 221 Using the Network for the Improvement of Addiction Treatment (NIATx) for performance improvement in Ukraine
 - T. Fomenko¹, A. Meteliuk¹, A. Mazhnaya¹, L. Madden^{2,3}, S. Farnum², R. Marcus³, S. Filippovych¹, T. Grytsenko⁴, F.L. Altice^{3,5}. ¹ICF "Alliance for Public Health," Ukraine; ²APT Foundation, United States; ³AIDS Program, Section of Infectious Diseases, Yale School of Medicine, United States; ⁴Public Health Center of the Ministry of Health of Ukraine, Ukraine; ⁵Division of Epidemiology of Microbial Diseases, Yale School of Public Health, United States
- 222 Frequency of drug-associated injuries in adult patients presenting to Komfo Anokye Teaching Hospital Department of Emergency Medicine in Ghana
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- 223 Recent cannabis use and advanced liver fibrosis among HIV-infected heavy drinkers

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- 224 HIV risk and treatment engagement among users of the heroin-based street drug whoonga in South Africa
 - D. Grelotti¹, C. du Toit², L. Obermeit³, S. Ramcharan², D. Pillai², N. Mosery⁴, J. Smit⁴, P. Smith⁵, D. Bangsberg⁶, S. Safren⁷, K. Mayer⁸, M. Mimiaga⁹. ¹Department of Psychiatry, University of California San Diego, United States; ²SANCA Durban Alcohol and Drug Centres, South Africa; ³Department of Psychiatry, Massachusetts General Hospital, United States; ⁴MatCH Research, University of the Witwatersrand, South Africa; ⁵Department of Medicine, University of Cape Town, South Africa; ⁶Oregon Health & Science University–Portland State University School of Public Health, United States; ⁷Department of Psychology, University of Miami, United States; ⁸Department of Medicine, Harvard Medical School, United States; ⁹Department of Epidemiology, Brown University, United States

- 225 Hepatitis C virus status awareness and confirmation of test results among people who inject drugs in Ukraine
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- 226 Gabapentin and pregabalin abuse among EUROPAD subjects

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- 227 Is suicidality linked to prescription drug abuse in U.S. adults with a history of chronic pain?

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- 228 Meta-analysis and systematic review of the dimensions of anger in users of psychoactive substances
 - H.V. Laitano, F. Pechansky, F.H.P. Kessler, T. Hartmann. Hospital de Clínicas de Porto Alegre, Federal University of Rio Grande do Sul, Brazil
- 229 National population sizes of people who inject drugs living with HIV

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- 230 Polydrug use among heroin injectors in Hanoi, Vietnam G.M. Le¹, T. Dao¹, G. Yu², D. Feaster³, L. Rosen-Metsch⁴. ¹Center for Training and Research
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- 231 Gender differences in HIV, anti-hepatitis C virus, and hepatitis B virus surface antigen prevalence among people who inject drugs: A multistage systematic review and meta-analysis of global evidence
 - J. Leung¹, A. Peacock¹, S. Colledge¹, J. Grebely², E.B. Cunningham², M. Hickman³, P. Vickerman³, J. Stone³, A. Trickey³, K. Dumchev⁴, M. Lynskey⁵, L. Hines⁵, P. Griffiths⁶, R.P. Mattick¹, S. Larney¹, L. Degenhardt¹. ¹National Drug and Alcohol Research Centre, University of New South Wales (UNSW), Australia; ²Kirby Institute, UNSW, Australia; ³University of Bristol, United Kingdom; ⁴Ukrainian Institute on Public Health Policy, Ukraine; ⁵King's College London, United Kingdom; ⁶European Monitoring Centre for Drugs and Drug Addiction, Portugal
- 232 Sexual risk associated with having sex with men who use methamphetamines in a Mexico-U.S. border city
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- 233 Drug-related mortality by immigration status in Sweden: A national longitudinal registry study L. Lundgren¹, M. Padyab², B. Armelius³, K. Armelius³, N. Lucero¹, A. Gronlund⁴, S. Nyström⁵, I. Krull¹. ¹Graduate School of Social Work, Butler Institute for Families, University of Denver, United States; ²Department of Statistics, Umeå University, Sweden; ³Department of Psychology, Umeå University, Sweden; ⁴Department of Social Work, Umeå University, Sweden; ⁵National Board of Health and Welfare-Stockholm, Sweden
- 234 Latent impulsivity subtypes in substance use disorders and interactions with internalizing and externalizing co-occurring disorders
 - R. Marín-Navarrete^{1,2}, A. Toledo-Fernández², L. Villalobos-Gallegos², C. Roncero^{3,4}, N. Szerman^{4,5}, M.E. Medina-Mora¹. ¹National Institute of Psychiatry Ramón de la Fuente Muñiz, México; ²Clinical Trials Unit on Addiction and Mental Health, National Institute of Psychiatry Ramón de la Fuente Muñiz, México; ³Psychiatric Service, Health Care Complex and Institute of Biomedicine of Salamanca, University of Salamanca, Spain; ⁴Spanish Society on Dual Disorders, Spain; ⁵Gregorio Marañón University Hospital, Spain
- 235 Drug use during incarceration in Ukraine: A myth or a hotbed of hepatitis C virus?

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- 236 HIV, hepatis C virus, and other risks associated with hard drug use among young drug users in St. Petersburg, Russia: Results of a pilot study
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- 237 Drug abuse and unsafe abortion among teenage girls in Nigeria
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- 238 Cost-effectiveness of expanding opioid agonist therapy in Ukraine: Dynamic modeling analysis O. Morozova¹, F.W. Crawford^{1,2}, S. Dvoriak³, F.L. Altice¹. ¹Yale School of Public Health and Yale School of Medicine, United States; ²Yale School of Management, United States; ³Ukrainian Institute for Public Health Policy, Ukraine
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 - F. Naveed, N. Aslam. Drug Free Pakistan Foundation, Pakistan
- 240 Factors influencing the appearance of methamphetamine-related psychosis

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- 241 Cigarette smoking and quality of life among women attending an HIV outpatient clinic in Lagos A.M. Ojo¹, A.O. Ajayi², A.O. Adegbohun³. ¹Substance Abuse Treatment Unit, Federal Neuro-Psychiatric Hospital-Yaba, Nigeria; ²Psychology Department, Federal Neuro-Psychiatric Hospital-Yaba, Nigeria; ³General Adult Psychiatry, Federal Neuro-Psychiatric Hospital-Yaba, Nigeria
- 242 Psychological well-being and substance use among adolescents in a public senior secondary school in Lagos, Nigeria
 - C. Okonkwo. Federal Neuro-Psychiatric Hospital-Yaba, Nigeria
- 243 Concurrent polydrug use of alcohol and other drugs among public-sector employees in Kenya: Prevalence, correlates, and consequences
 - P. Okwarah^{1,2}, R. Gakunju², S. Adhiambo³, M. Ngethe², P. Gaku². ¹Department of Public Health, Jomo Kenyatta University of Agriculture and Technology, Kenya; ²Research and Policy Department, Movement Against Substance Abuse in Africa, Kenya; ³Clinical Department, Kenya Institute of Business and Counselling Studies, Kenya
- 244 Differential effects of crack cocaine and crack cocaine plus cannabis on neurocognitive functioning
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- 245 Trajectories of injection drug use and related risks among people who inject drugs in Northern Mexico
 - A. Ospina-Escobar¹, F. Juárez¹, C. Magis², S. Strathdee³, D. Werb³. ¹El Colegio de Mexico, Mexico; ²Centro Nacional para la Prevención y Control del SIDA (CENSIDA), Mexico; ³Division of Global Public Health, University of California San Diego, United States

- 246 Use of opioids and stimulants by people who inject drugs: A multistage systematic review and meta-analysis of global evidence
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- 247 User experience of four point-of-collection oral fluid devices by Brazilian traffic agents: Preliminary findings
 - F. Pechansky, J. Scherer, V. Roglio, Y. Telles, J. Schuch, R. Silvestrin, T. Sousa. Center for Drug and Alcohol Research, Federal University of Rio Grande do Sul, Brazil
- 248 Relationship between substance use and sexual network characteristics among men who have sex with men and transgender women in Tijuana, Mexico
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- 249 Personality correlates of HIV risk behaviors among women with substance use disorders E. Psederska¹, K. Bozgunov¹, G. Vasilev¹, D. Nedelchev¹, J. Vassileva². ¹Bulgarian Addictions Institute, Bulgaria; ²Departments of Psychiatry and Psychology, Institute for Drug and Alcohol Studies, Virginia Commonwealth University, United States
- 250 Substance use and suicidal ideation among patients reporting to psychiatric clinic of a district hospital in Sikkim, India
 - T.K. Rai¹, S. Rasaily². ¹Sikkim Anti-Drugs Unit, Department of Health, Government of Sikkim, India; ²District Hospital-Singtam, India
- 251 HIV and drug use among women in prison in Azerbaijan, Kyrgyzstan, and Ukraine Y.S. Ranjit¹, L. Azbel², A. Krishnan³, J.P. Meyer¹, F.L. Altice¹. ¹AIDS Program, Yale School of Medicine, United States; ²London School of Hygiene and Tropical Medicine, United Kingdom; ³Department of Communication, State University of New York, Albany, United States
- 252 Severity of drug use in a sample of young Brazilian club-goers with anxiety and depression symptoms
 - L. Remy¹, H. Surratt^{2,3}, S.P. Kurtz², J. Scherer¹, V. Roglio¹, F. Pechansky¹. ¹Center for Drug and Alcohol Studies, Federal University of Rio Grande do Sul, Brazil; ²Center for Applied Research on Substance Use and Health Disparities, Nova Southeastern University, United States; ³Center for Health Services Research, College of Medicine, University of Kentucky, United States
- 253 Changing patterns of marijuana use disorders among users of different types of marijuana in Chile, 2014–2016
 - N. Rodríguez¹, J.D. Marin¹, E. Pizarro², A. Castillo-Carniglia³, P.P. Seguel⁴. ¹Pontificia Universidad Católica de Chile, Chile; ²Universidad de Chile, Chile; ³Violence Prevention Research Program, Department of Emergency Medicine, School of Medicine, University of California Davis, United States; ⁴The University of Texas at Austin, United States

- 254 Men who have sex with men and inject drugs in a Canadian setting

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- 255 Tobacco use in correctional facilities in Zambia

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- 256 High-intensity cannabis use is associated with retention in opioid agonist treatment: A longitudinal analysis

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- 257 Double stigma among HIV-positive people who inject drugs in Russia and health care outcomes M.V. Vetrova¹, K. Lunze², D.M. Cheng², C. Lloyd-Travaglini², E. Blokhina¹, S. Bendiks², N. Gnatienko², J. Luoma³, E. Krupitsky^{1,4}, D. Lioznov⁵, J.H. Samet². ¹Valdman Institute of Pharmacology, First Pavlov State Medical University of St. Petersburg, Russia; ²Boston University Medical Center, United States; ³Portland Psychotherapy Clinic, Research, and Training Centre, United States; ⁴Department of Addictions, St. Petersburg Bekhterev Research Psychoneurological Institute, Russia; ⁵Department of Infectious Diseases, First Pavlov State Medical University of St. Petersburg, Russia
- 258 Comparison of symptoms in methamphetamine-associated and primary psychoses

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- 259 Prevalence of smoking among doctors and dentists and its associated factors in Erbil city R. Yasein. Ministry of Health, Iraq

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300 Adapting an addiction technology transfer model to address HIV and injection drug use in Eastern Europe, Southeast Asia, and South Africa

A. Blyum^{1,2,3}, G. Bart^{4,5}, S. Becker^{6,7}, D. Grelotti², I. Koutsenok^{1,2,8}, C. Kuo⁶, S. Larkins^{1,8,9}, I. Pinchuk^{10,11}, Y. Yachnik^{10,11}. ¹International Addiction Technology Transfer Center-Ukraine, United States; ²School of Medicine, University of California San Diego, United States; ³School of Social Work, San Diego State University, United States; ⁴Division of Addiction Medicine, Hennepin County Medical Center, United States; ⁵University of Minnesota, United States; ⁶Center for Alcohol and Addictions Studies, Brown University, United States; ⁷New England Addiction Technology Transfer Center, Brown University, United States; ⁸South East Asia Addiction Technology Transfer Center, United States; ⁹School of Medicine, University of California Los Angeles, United States; ¹⁰Ukrainian Research Institute of Social and Forensic Psychiatry and Drug Abuse, Ukraine; ¹¹International Addiction Transfer Center, Ukraine

- 301 Challenges in the evaluation of the regulation of the cannabis market in Uruguay M.E. Cabrera. National Drug Board of Uruguay, Uruguay
- 302 Australian Centre for Cannabinoid Clinical and Research Excellence: A novel multidisciplinary approach to evidence development and translation
 - J. Copeland¹, N. Solowij², J. Martin³. ¹Cannabis Information and Support, Australia; ²University of Wollongong, Australia; ³University of Newcastle, Australia
- 303 The Hubert H. Humphrey Fellowship Program at Virginia Commonwealth University J.R. Koch, R.L. Balster, A. Breland, W.L. Kliewer, H. Ashton. Virginia Commonwealth University, United States

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400 A binational cultural adaptation of the substance use prevention program, keepin' it REAL, for adolescents in Mexico

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- 401 Implementation of a school-based life skills prevention program in the United Arab Emirates
 A. AlHosani. National Rehabilitation Centre, United Arab Emirates; Hubert H. Humphrey
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- 402 The intersection of violence and substance use among Mexican adolescents
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- 403 Opioid maintenance treatment conducted by primary care providers facilitates prevention measures
 - V. Chtenguelov¹, S. Dvoriak¹, O. Morozova², I. Pykalo¹. ¹Ukrainian Institute on Public Health Policy, Ukraine; ²Yale School of Public Health, United States

- 404 Community-campus partnerships for substance abuse prevention among minority young adults in a U.S.-Mexico Border City
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- 405 Tobacco use among Belgian university students between 2005, 2009, and 2013: Does gender matter?
 - L. Jacobs¹, G. Van Hal². ¹Rhodes University, South Africa; ²University of Antwerp, Belgium
- 406 Double stigma among HIV-positive people who inject drugs in Ukraine and care integration T. Kiriazova¹, O. Makarenko¹, Y. Sereda¹, A. Chybisov², S. Bendiks³, B. Idrisov⁴, A. Dutta⁵, J. Carroll², N. Rybak⁶, F. Gillani⁶, J. Samet³, T. Flanighan⁶, K. Lunze³. ¹Ukrainian Institute on Public Health Policy, Ukraine; ²School of Public Health, Brown University, United States; ³Clinical Addiction Research and Education Unit, Boston Medical Center, United States; ⁴Department of Infectious Diseases, Bashkir State Medical University, Russia; ⁵EMCARE Hospital, India; ⁶Warren Alpert Medical School, Brown University, United States
- 407 Protective factors and biological sex differentiate profiles of teen substance users in Burma (Myanmar)
 - W. Kliewer¹, N.M.A. Wan², B. Parham¹, Z. Ring³. ¹Department of Psychology, Virginia Commonwealth University, United States; ²National Drug Abuse Control Program, Drug Dependence Treatment and Research Unit, Mental Health Hospital Yangon, Department of Medical Services, Ministry of Health and Sports, Burma (Myanmar); ³Kachin State Public Health Department, Burma (Myanmar)
- 408 Global review of drug-checking services 2017

 L.J. Maier¹, A. Ritter², M. Kowalski², L. Coney², D. Ramo³, M.J. Barratt². ¹University of Zurich, Switzerland; ²Drug Policy Modelling Program, National Drug and Alcohol Research Centre, University of New South Wales, Australia; ³Department of Psychiatry and Weill

Institute for Neurosciences, University of California San Francisco, United States

- 409 Validation of the Substance Use Risk Profile Scale in the Bulgarian population
 S. Milcheva (Borisova)¹, E. Long², G. Vasilev³, K. Bozgunov³, E. Psederska³, D. Nedelchev³,
 N. Gillespie⁴, J. Vassileva². Hubert H. Humphrey Fellowship Program, Virginia
 Commonwealth University, United States; Institute for Drug and Alcohol Studies, Virginia
 Commonwealth University, United States; Bulgarian Addictions Institute, Bulgaria;
 Virginia Institute for Psychiatric and Behavioral Genetics, Virginia Commonwealth
 University, United States
- 410 Analysis affecting community involvement and enabling environment of prevention and treatment of drug abuse in Burma (Myanmar)
 - R. Myint, W.W. Lwin. Myanmar Anti-Narcotic Association, Burma (Myanmar)
- 411 Development of a brief screening tool to identify prescription opioid dependence in primary care S. Nielsen¹, B. Larance¹, C. Campbell¹, L. Degenhardt¹, N. Lintzeris², F. Blyth², M. Cohen¹, M. Farrell¹, R. Mattick¹, R. Bruno³. ¹University of New South Wales, Australia; ²University of Sydney, Australia; ³University of Tasmania, Australia

- 412 Opioid misuse among Latino primary care patients in Los Angeles
 - L. Gelberg^{1,2}, M. Rico¹, C. Okafor¹. ¹Department of Family Medicine, David Geffen School of Medicine, University of California Los Angeles, United States; ²Department of Health Policy and Management, Fielding School of Public Health, University of California Los Angeles, United States
- 413 Six-month outcomes of a randomized controlled trial among South African township men engaged in soccer and vocational training
 - M. Tomlinson¹, M.J. Rotheram-Borus², J. Stewart¹, S. Gordon¹, J. Bantjes¹, E. Amilor². ¹Stellenbosch University, South Africa; ²University of California Los Angeles, United States
- 414 Substance-abusing South African men: Are where you live or your daily habits associated with being arrested?
 - J. Christodoulou¹, L. Stokes², J. Bantjes³, M. Tomlinson³, <u>M.J. Rotheram-Borus</u>¹.

 ¹Department of Psychiatry and Biobehavioral Sciences, Semel Institute, University of California Los Angeles, United States; ²College of Public Health and Human Sciences, Oregon State University, United States; ³Department of Psychology, Stellenbosch University, South Africa
- 415 Measuring the CHOICE-10 effect on vocational school freshmen who participated in a prevention program
 - V. Ryabukha. Prevention Center, "Choice," Ukraine
- 416 School model for the integral prevention of risk behaviors: Cluster randomized trial R. Sanchez Ramos, N. Amador, M.L. Gutiérrez, J.A. Villatoro, M.E. Medina-Mora. National Institute of Psychiatry, Mexico
- 417 Mobile phone detection of simulated opioid overdose events
 - J. Sunshine¹, R. Nandakumar², S. Gollakota². ¹Department of Anesthesiology and Pain Medicine, School of Medicine, University of Washington, United States; ²Paul G. Allen School of Computer Science and Engineering, University of Washington, United States
- 418 Guidelines for community-based noncommunicable disease programs in indigenous communities in Brazil
 - Z.Z. Taveira. Hubert H. Humphrey Fellowship Program, Virginia Commonwealth University, United States
- 419 Double stigma among HIV-positive people who inject drugs in Russia and HIV care: A qualitative study
 - O. Toussova¹, M. Vetrova¹, E. Blokhina¹, N. Bushara¹, S. Bendiks², N. Gnatienko², E. Krupitsky^{1,3}, D. Lioznov¹, J.H. Samet², K. Lunze². ¹First Pavlov State Medical University of St. Petersburg, Russia; ²Boston Medical Center and School of Medicine, Boston University, United States; ³St. Petersburg Bekhterev Research Psychoneurological Institute, Russia
- 420 A step toward understanding how family cohesion and exposure to family life education curriculum influence depression and substance use among Jamaican adolescents
 - J. Wynter. Northern Caribbean University, Jamaica

Treatment

500 Profile of adolescents and young adults in substance abuse treatment in Nigeria
 M. Agwogie. National Drug Law Enforcement Agency, Nigeria; Hubert H. Humphrey
 Fellowship Program, Virginia Commonwealth University, United States

- 501 Creation of the Recovery Club: Promoting recovery and strengthening reintegration
 A. Ashraf. Sunny Trust International, Addiction Treatment and Rehabilitation Center,
 Pakistan; Hubert H. Humphrey Fellowship Program, Virginia Commonwealth University,
 United States
- 502 Experience of art therapy in adults with substance use disorders and sexual problems: A qualitative inquiry
 - A. Bayat¹, Y. Bazargan², E. Merghati-Khoei². ¹Hubert H. Humphrey Fellowship Program, Virginia Commonwealth University, United States; ²Iranian National Center for Addiction Studies, Iranian Institute for Reduction of High-Risk Behaviors, Tehran University of Medical Sciences, Iran
- 503 Craving, drugs, and alcohol use by HIV-positive patients with opioid use disorder stabilized on naltrexone
 - E. Blokhina¹, E. Krupitsky^{1,2}, E. Zvartau¹, E. Verbitskaya¹, D. Lioznov¹, T. Yaroslavtseva¹, N. Bushara¹, V. Palatkin¹, S. Poole³, R. Gross³, G. Woody³. ¹First Pavlov State Medical University of St. Petersburg, Russia; ²St. Petersburg Bekhterev Research Psychoneurological Institute, Russia; ³Perelman School of Medicine, University of Pennsylvania, United States
- 504 Rising incidence of aging opioid users within the European Union-wide treatment demand indicator: Irish opioid epidemic, 1996–2014
 - A. Carew, C. Comiskey. School of Nursing and Midwifery, Trinity College Dublin, The University of Dublin, Ireland
- 505 Tolerance to the analgesic effects of morphine and fentanyl is inhibited by minocycline C.J. Carranza-Aguilar, S.L. Cruz. Department of Pharmacobiology, Cinvestav, Mexico
- 506 Validity of opiate use self-reports in three opiate treatment program studies in Asia S. Chhatre¹, C. Denis¹, Jakpro Project², HPTN 058 Project³, Opioid Inegrated Treatment in Ho Chi Minh City Project⁴, D. Metzger¹. ¹University of Pennsylvania, United States; ²RSKO Hospital-Jakarta, Indonesia; ³Chinese Center for Disease Control and Prevention, China; ⁴Expertise France, Vietnam
- 507 Does race moderate the association between substance use stigma and methadone treatment success in the United States?
 - B. D'Ambrosio¹, V. Earnshaw², M. Copenhaver³, L.R. Smith¹. ¹Division of Global Public Health, University of California San Diego, United States; ²Department of Human Development and Family Sciences, University of Delaware, United States; ³Department of Allied Health Sciences, University of Connecticut, United States
- 508 The impact of service dogs in the lives of military veterans who problematically use substances C.A. Dell¹, C. Arratoon², M. Lapointe³, C. Lohnes³. ¹Department of Sociology and School of Public Health, University of Saskatchewan, Canada; ²Canadian Centre on Substance Use and Addiction, Canada; ³AUDEAMUS, Canada
- 509 Evaluation of results-based financing in medication-assisted treatment programs in Ukraine: Patient survey results
 - K. Dumchev¹, V. Akbirova², I. Pykalo¹, P. Smyrnov². ¹Ukrainian Institute on Public Health Policy, Ukraine; ²ICF "Alliance for Public Health," Ukraine
- 510 Emerging role of noninvasive brain stimulation in addiction medicine: A review of ongoing studies
 - A. Elaghoury. Abbassia Hospital for Mental Health, Ministry of Health, Egypt

- 511 Pharmacogenetics of methadone adverse events
 - F. Fonseca^{1,2,3}, C. Castillo^{1,2}, G. Marín^{1,2}, C. Tamarit^{1,2}, L. Oviedo^{1,2}, M. Torrens^{1,2,3}. ¹Institut de Neuropsiquiatria i Addiccions, Spain; ²Hospital del Mar Medical Research Institute-IMIM, Spain; ³School of Medicine, Universitat Autònoma Barcelona, Spain
- 512 Minority women-centered test-treat-retain substance use disorder and HIV intervention on the U.S.-Mexico border
 - R. Gallegos¹, T. Mangadu¹, J. Ferreira-Pinto², M. Orezzoli³, R. Robles⁴, D. Delgado¹, T. Ferdous¹, A. Arce¹, V. Cobos¹. ¹Department of Public Health, The University of Texas at El Paso (UTEP), United States; ²Center for Interdisciplinary Health Research and Evaluation, UTEP, United States; ³Department of Social Sciences, Florida Memorial University, United States; ⁴Aliviane, Inc., United States
- 513 Personality traits differentiate Pakistani males in recovery versus relapse from substance use disorders
 - R. Hanif^{1,2}, W. Kliewer¹. ¹Department of Psychology, Virginia Commonwealth University, United States; ²Department of Psychology, University of Karachi, Pakistan
- 514 Atypical versus typical antipsychotics for the treatment of addiction: A systematic review and meta-analytic study
 - S. Hanu. Accra Psychiatric Hospital, Mental Health Authority, Ghana
- 515 Intranasal delivery of CRISPR-oxytocin to treat morphine addiction in HIV patients by gene editing
 - R.D. Jayant¹, P. Kuehl², H.S. Chand¹, M. Nair¹. ¹Center for Personalized Nanomedicine, Department of Immunology, Herbert Wertheim College of Medicine, Florida International University, United States; ²Lovelace Biomedical and Environmental Research Institute, United States
- 516 Not in my neighborhood: An analysis of the distribution of alcohol and drug psychosocial care centers in Rio de Janeiro
 - A.O. Kiepper. Science and Technology in Biomodels Institute, Oswaldo Cruz Foundation, Brazil; Hubert H. Humphrey Fellowship Program, Virginia Commonwealth University, United States
- 517 Urinalysis frequency and health outcomes for persons on opioid agonist therapy: A policy and literature review
 - J. McEachern¹, L. Adye-White¹, K.C. Priest^{2,3}, E. Moss⁴, E. Wood^{1,4}, W. Cullen⁵, J. Klimas^{1,4,5}. ¹British Columbia Centres for Substance Use and Excellence in HIV/AIDS, St. Paul's Hospital, Canada; ²Oregon Health & Science University (OHSU)–Portland State University School of Public Health, United States; ³M.D.-Ph.D. Program, School of Medicine, OHSU, United States; ⁴Department of Medicine, University of British Columbia, St. Paul's Hospital, Canada; ⁵School of Medicine, University College Dublin, Health Sciences Centre, Ireland
- 518 Extended-release long-acting naltrexone implant for opioid use disorders: How long is long enough?
 - E. Krupitsky^{1,2}, E. Zvartau¹, E. Blokhina¹, E. Verbitskaya¹, V. Palatkin¹, T. Yaroslavtseva¹, N. Bushara¹, G. Woody³. ¹Department of Pharmacology, First Pavlov State Medical University of St. Petersburg, Russia; ²Department of Addictions, V.M. Bekhterev National Medical Research Center for Psychiatry and Neurology, Russia; ³Department of Psychiatry, University of Pennsylvania, United States

- 519 Cognitive functioning, cocaine use patterns, and clinical severity among addicted inpatients: A prospective study
 - D.R. Lima¹, P.D. Gonçalves¹, M. Ometto¹, A. Malbergier¹, R.A. Amaral¹, B. dos Santos², S. Nicastri¹, A. Guerra de Andrade¹, G.F. Busatto¹, P.J. Cunha¹. ¹Institute of Psychiatry, School of Medicine, University of São Paulo, Brazil; ²School of Nursing, University of São Paulo, Brazil
- 520 A pilot study on methadone take-home service in the context of the Internet in Yuxi, Yunnan Province, China
 - W. Liu¹, Y. Ma², T. Wei¹, S-H. Yang², D-l. Yang³, R. Pu¹, S. Huang¹, X-B. Zhu¹. ¹Kunming Medical University, China; ²The Center for Disease Prevention and Control of Hongta District, China; ³Yuxi Office of AIDS Care, China
- 521 Amplitude of demand predicts abstinence among treatment-seeking smokers with elevated depressive symptoms: Further evidence of its internal structure
 - C. López-Núñez¹, A. González-Roz², Á. García-Pérez², S. Weidberg², V. Martínez-Loredo², R. Secades-Villa². ¹Department of Psychology, Universidad Loyola Andalucía, Spain; ²Department of Psychology, University of Oviedo, Spain
- 522 Correlates of medication-assisted treatment completion among people who inject drugs in China L. Ma¹, C. Denis², S. Chhatre², L. Fu³, J. Ma³, B. Rui³, L. Wei⁴, J. Huang⁵, Y. Ruan¹, Y. Shao¹, D. Metzger². ¹National Center for AIDS Prevention and Control, Chinese Center for Disease Control and Prevention (CDC), China; ²University of Pennsylvania, United States; ³Xinjiang CDC, China; ⁴Guangxi CDC, China; ⁵Heng County CDC, China
- 523 Use of Behavior and Symptom Identification Scale-24 measurements for opioid agonist treatment self-assessments in Ukraine
 - R. Marcus¹, L. Madden^{1,2}, T. Fomenko³, S. Farnum², D. Barry², A. Meteliuk³, F.L. Altice¹.
 ¹Yale School of Medicine, United States; ²APT Foundation, United States; ³ICF "Alliance for Public Health," Ukraine
- 524 Substance use in children in Afghanistan: Gender differences at treatment entry and in response to treatment: Afghanistan Symptom Checklist
 - A.S. Momand¹, E. Mattfeld², G. Gerra², B. Morales³, T. Browne⁴, M. Ul Haq⁵, K.E. O'Grady⁶, H.E. Jones⁷. ¹United Nations Office on Drugs and Crime (UNODC), Afghanistan; ²UNODC, Austria; ³Bureau of International Narcotics and Law Enforcement, U.S. Department of State, United States; ⁴Colombo Plan, Sri Lanka; ⁵UNODC, Pakistan; ⁶Department of Psychology, University of Maryland, College Park, United States; ⁷UNC Horizons, Department of Obstetrics and Gynecology, University of North Carolina at Chapel Hill, United States
- 525 Treatment retention of patients with cannabis use disorder

 I. Rivas¹, A. Sanvisens², M. Rodriguez³, D. Fuster², P. Zuluaga², R. Muga². ¹Municipal Center for Substance Abuse Treatment, IMSP, Spain; ²Department of Internal Medicine, Hospital Universitari Germans Trias i Pujol-Badalona, Universitat Autònoma de Barcelona, Spain; ³Department of Pharmacy, Metropolitan Barcelona Health District, Catalan Health Service, Spain

- 526 Effectiveness of an addiction treatment program integrated in an HIV clinic: Results of a 4-year program in Ho Chi Minh City, Vietnam
 - C. Denis^{1,2}, H. Tran³, L. Nguyen³, <u>T. Nguyen</u>³, L. Huang³, V. Trias³, M. Auriacombe^{1,2}, A. Voisin⁴, S. Mai Thi Hoai⁵, G. Le Truong⁵, J-P. Daulouède^{3,4}, D. Metzger¹, C. O'Brien¹. ¹University of Pennsylvania, United States; ²CNRS USR 3413 SANPsy, University of Bordeaux, France; ³Expertise France, France; ⁴Bizia Addiction Clinic, France; ⁵Ho Chi Minh City AIDS Committee, Vietnam
- 527 Marijuana users seeking treatment in Uruguay: A clinical characterization in the frame of cannabis market regulation
 - A. Pascale^{1,2}, C. Bares³, L. Oliver¹, O. Binagi¹, M. Valdez¹, C. Herrera¹, A. Usher¹, C. López¹, C. Mediza¹, L. Oliver¹, E. Varela¹. ¹Grupo de Cavia Outpatient Treatment Clinic, Uruguay; ²REDLA Network (Red Latinoamericana de Investigadores en Drogas), Uruguay; ³School of Social Work, University of Michigan, United States
- 528 Knowledge, attitudes, and practices of marijuana use among adolescents and youth who are on antiretroviral treatment: A cross-sectional study among the double orphan raised by foster parents and an orphanage in Nepal
 - P. Pokharel¹, S.L. Acharya², S. Paudel³. ¹Chitwan Plus, Nepal; ²Tribhuvan University, Nepal; ³Western Sydney University, Australia
- 529 Quality of life and the state of health: Ambulatory treatment for substance use disorders in Argentina
 - N. Poliansky¹, C. Gorlero¹, D. Gemini¹, H.E. Jones². ¹Fundación Convivir, Argentina; ²UNC Horizons, University of North Carolina at Chapel Hill, United States
- 530 Predictors of retention in people who inject drugs in extended-release naltrexone treatment in Ukraine
 - I. Pykalo¹, I. Makarenko², S. Dvoriak¹, F.L. Altice^{3,4}. ¹Ukrainian Institute on Public Health Policy, Ukraine; ²Family Medicine Department, McGill University, Canada; ³AIDS Program, Section of Infectious Diseases, Yale School of Medicine, United States; ⁴Division of Epidemiology of Microbial Diseases, Yale School of Public Health, United States
- 531 United Nations Office on Drugs and Crime-World Health Organization multisite study on community management of opioid overdose, including emergency naloxone
 - G. Gerra¹, V. Poznyak², R. McDonald³, N. Clark², A. Busse¹, <u>E. Saenz</u>¹, W. Kashino¹, J. Strang³. ¹Drug Prevention and Health Branch, Prevention, Treatment and Rehabilitation Section, United Nations Office on Drugs and Crime, Austria; ²Department of Mental Health and Substance Abuse, World Health Organization, Switzerland; ³Addictions Department, King's College London, United Kingdom
- 532 Brief intervention for referral to opioid agonist treatment in probation settings in Ukraine: Preliminary results
 - N. Saichuk, S. Dvoriak, K. Dumchev, E. Gryshayev, O. Chernova, J. Rozanova, F.L. Altice. Ukrainian Institute on Public Health Policy, Ukraine; Yale School of Medicine, United States
- 533 Urdu translation and psychometric properties of the stigma scale among patients with substance use disorders in Pakistan
 - S. Shahzad¹, N. Begum². ¹Institute of Clinical Psychology, University of Karachi, Pakistan; ²Area Study Center for Europe, University of Karachi, Pakistan

- 534 Consolidating efforts for drug demand reduction in districts Quetta, Pishin and Killa Abdullah of Balochistan Province, Pakistan
 - U. Shamim^{1,2}, A. Rashid². ¹Kuchlak Welfare Society, International Narcotics Law, Pakistan; ²Hubert H. Humphrey Fellowship Program, Virginia Commonwealth University, United States
- 535 Buprenorphine maintenance with minimal dosage for abstinent heroin users in China W. Shen¹, Q. Wang¹, W. Ping², J. Zhang², W. Ye², Q. Hu², J. Zhang¹, W. Zhou¹.². ¹Ningbo Addiction Research and Treatment Center, China; ²School of Medicine, Ningbo University, China
- 536 Ibero-American initiative for dual disorders to improve public treatment programs

 N. Szerman¹, L. Alfonzo-Bello², R. Marín-Navarrete³, E. Arribas-Ibar², A. Pérez-Lopez³, F. Babín⁴, M.E. Medina-Mora³. ¹Spanish Society of Dual Disorders, Spain; ²Pan-American Health Organization, United States; ³National Institute of Psychiatry, Mexico; ⁴Government Delegation for the Spanish National Drug Plan, Spain
- 537 Integrated care on leaving hospital against medical advice among patients with substance use disorders and HIV infection
 - M. Torrens^{1,2,3}, G. Vallecillo^{1,2}, C. Tamarit^{1,2}, F. Fonseca^{1,2,3}. ¹Institut de Neuropsiquiatria i Addiccions, Spain; ²Hospital del Mar Medical Research Institute-IMIM, Spain; ³School of Medicine, Universitat Autònoma Barcelona, Spain
- 538 Recovery in addiction treatment: Revolution and challenges in Vietnam
 T.H.H. Tran^{1,2}. ¹Haiphong Union of Science and Technology Associations, Vietnam; ²Hubert
 H. Humphrey Fellowship Program, Virginia Commonwealth University, United States
- 539 Nabiximols combined with motivational enhancement/cognitive behavioral therapy for the treatment of cannabis dependence: A pilot randomized clinical trial J.M. Trigo¹, A. Soliman¹, L.C. Quilty^{2,3}, B. Fischer^{3,4,5,6}, J. Rehm^{3,4,5,7,8}, P. Selby^{3,9,10}, A.J. Barnes¹¹, M.A. Huestis¹¹, T.P. George^{3,9,12}, D.L. Streiner^{3,13}, G. Staios¹, B. Le Foll^{1,9}. ¹Translational Addiction Research Laboratory, Campbell Family Mental Health Research Institute, Centre for Addiction and Mental Health (CAMH), Canada; ²Campbell Family Mental Health Research Institute, CAMH, Canada; ³Department of Psychiatry, University of Toronto, Canada; ⁴Institute for Mental Health Policy Research, CAMH, Canada; ⁵Institute of Medical Science, University of Toronto, Canada; ⁶Centre for Applied Research in Mental Health and Addiction, Simon Fraser University, Canada; ⁷Addiction Policy, Dalla Lana School of Public Health, University of Toronto, Canada; 8Institute of Clinical Psychology and Psychotherapy and Center of Clinical Epidemiology and Longitudinal Studies, Technische Universität Dresden, Germany; ⁹Addictions Division, CAMH, Canada; ¹⁰Department of Family and Community Medicine, University of Toronto, Canada; ¹¹Chemistry and Drug Metabolism, National Institute on Drug Abuse, National Institutes of Health, United States; ¹²Division of Brain and Therapeutics, CAMH, Canada; ¹³Department of Psychiatry and Behavioural Neurosciences, McMaster University, Canada
- 540 Sleep disorders in opioid-dependent patients maintained on buprenorphine R. Tripathi, R. Rao, A. Dhawan, R. Jain. Department of Psychiatry and National Drug Dependence Treatment Center, All India Institute of Medical Sciences, India

- 541 Association of oxidative stress and inflammatory markers with inhalant use among treatmentseeking adolescents
 - A. Verma¹, R. Jain¹, A. Dhawan¹, R. Lakshmy². ¹Department of Psychiatry, National Drug Dependence Treatment Centre, All India Institute of Medical Sciences, India; ²Department of Cardiac Biochemistry, All India Institute of Medical Sciences, India
- 542 Antiretroviral therapy adherence among opiate-addicted patients treated with naltrexone: Oral and implantable
 - T. Yaroslavtseva¹, E. Blokhina¹, E. Krupitsky^{1,2}, E. Verbitskaya¹, E. Zvartau¹, V. Palatkin¹, N. Bushara¹, R. Gross³, G. Woody³, S. Poole³. ¹First Pavlov State Medical University of St. Petersburg, Russia; ²Bekhterev Research Psychoneurological Institute, Russia; ³Perelman School of Medicine, University of Pennsylvania, United States
- 543 Improved frequency of antiretroviral therapy initiation and use of harm reduction services among HIV-positive people who inject drugs in Ukraine
 - O. Zeziulin¹, Y. Sereda², P. Smyrnov³, O. Denisiuk³, T. Kiriazova¹, S. Dvoriak¹, C. Vitek⁴, T. Bingham⁵, R. Kulchynska⁴, K. Dumchev¹. ¹Ukrainian Institute on Public Health Policy, Ukraine; ²Independent Researcher, Ukraine; ³ICF "Alliance for Public Health," Ukraine; ⁴Division of Global HIV and Tuberculosis, Centers for Global Health, U.S. Centers for Disease Control and Prevention (CDC), Ukraine; ⁵Division of Global HIV and Tuberculosis, Centers for Global Health, CDC, United States

Sunday, June 10

I.

Wearable/Biosensors in Addiction Medicine–Future Vistas Chairs: Scott Lukas and Stephanie Carreiro

This symposium presents how biosensors are used in preclinical and clinical populations to track the physiological, behavioral, kinetic, and physical location of subjects during addiction. Dr. Paronis will report on how biosensors are used to record real time changes and identify spontaneous cannabinoid withdrawal in mice. Dr. Carriero has used biosensors to provide noninvasive, real-time physiologic correlates of addiction, and will report that they are widely accepted and can identify early problematic responses to drugs, addiction, overdose, and treatment response. Dr. Sazonov has led the development of wearable biosensors that capture real-time smoking frequency and comprehensive metrics of smoke exposure. He will report on the use of the Personal Automatic Cigarette Tracker (PACT), which relies on behavioral and physiological manifestations of cigarette smoking and to detect and characterize smoking events. Dr. Kirchner will highlight geographically explicit EMA (GEMA) systems that link momentary experience sampling to objective measures of socio-ecological context in time and place, including their potential as a unifying core within a more general, theoretically based research framework for transdisciplinary collaboration. Finally, Dr. Lukas will discuss how biosensors are integrated with other metrics such as laboratory studies, behavioral assessments, psychomotor performance and subjective reports, highlight their limitations and then provide a construct for the future applications and how biosensors contribute to the "Neuron to Neighborhood" Construct of Addiction.

II.

Marijuana: The Changing Legal Landscape and Its Impact on Opioid Use Chairs: Marsha Lopez and Heather Kimmel

Marijuana continues to be illegal under US federal law, but more than half the states in the nation have moved to decriminalize or legalize it in some form. Public opinion about marijuana use has rapidly become more permissive, and while we are beginning to learn about some short-term effects of these controversial policy changes, many questions remain unanswered about the longer term public health impacts as well as other social and economic effects. Concurrently the US is experiencing an opioid crisis, with unprecedented levels of use and overdose. Pain relief is one therapeutic reason reported by both users of opioids and users of marijuana, which begs the question of how marijuana use impacts the use and misuse of opioids in states with legalized marijuana policies as well as those that do not. This symposium will present evolving research addressing this question of great public health importance, shedding light on our understanding of opioid use and consequences in the context of marijuana legislation.

III.

Novel Psychoactive Substance-A Translational Science Approach
Chairs: Aviv Weinstein and William Fantegrossi

The misuse of novel psychoactive drugs (NPS), like synthetic cannabinoids and synthetic stimulants, represents a worldwide public health threat. In response to the NPS problem, many research laboratories are now examining the pharmacological and psychological effects of these drugs, as well as developing methods for their forensic detection. In this translational scientific symposium, a panel of leading experts will present new data from preclinical and clinical studies on the biological effects of two common types of NPS, namely synthetic cannabinoids and stimulants. Dr. Brian F. Thomas from Wake Forest University will describe pharmacological effects of synthetic cannabinoids and their pyrolysis products in animal models, whereas Dr. Aviv Weinstein from Ariel University in Israel, will present studies on impaired executive function and brain imaging in human synthetic cannabinoid users. Next, Dr. Michael Bauman from NIDA/IRP will describe preclinical studies on the pharmacology of synthetic cathinones and newer non-cathinone compounds, while Dr. Magi Farre from the University of Barcelona will present the effects of synthetic cathinones after administration to humans under controlled laboratory conditions. Finally, Dr. William Fantegrossi from the University of Arkansas will summarize the findings presented and suggest ideas for future research to address the ongoing NPS phenomenon

Monday, June 11

IV.

Drug Addiction Treatment with Classic Psychedelics Chairs: Roland Griffiths and Mathew Johnson

Research investigating classic psychedelic drugs as treatments for drug addiction began in the 1950s but was subsequently terminated in response to concerns about nonmedical use and a misunderstanding of the risks of these compounds. Meaningful conclusions about the efficacy such treatment were uncertain because of experimental design and control group considerations. However, a 2012 meta-analysis of six randomized controlled trials assessing LSD treatment of alcohol misuse demonstrated significant decreases in alcohol use relative to comparison treatments. This symposium will review recent and ongoing research with the classic psychedelic psilocybin. Roland Griffiths will begin the session by reviewing past and recent data showing that both healthy volunteers and psychologically distressed cancer patients report positive changes in moods, attitudes and behavior lasting at least 6 months after psilocybin treatment. Peter Hendricks will present preliminary observations from an ongong double-blind placebocontrolled trial of psilocybin in the treatment of cocaine use disorder. Matthew Johnson will review outcomes from a previous pilot study of psilocybin treatment of cigarette smoking (tobacco use disorder), and preliminary findings from an ongoing study comparing psilocybin with nicotine-replacement treatment of cigarette smoking. Michael Bogenschutz will review data from a previous pilot study of psilocybin treatment of alcohol use disorder, and an ongoing double-blind study comparing psilocybin with diphenhydramine treatment. Bryon Adinoff will discuss the promising results of these early trials and the implications for future research with psilocybin and other classic psychedelics for treatment of drug addiction.

V.

The Human Molecular Genetics of Nicotine and Opiate Addiction Chairs: Mary Jeanne Kreek and Laura Bierut

Nicotine and opiate addictions are the major addictive diseases resulting in the greatest morbidity and mortality in our country today. Diverse epidemiologic and other studies have predicted that 25% to 70% of the relative risk of developing a specific addictive disease once self-exposed is dependent on the combination of large numbers of gene variants, which can increase the vulnerability (or, in some cases, decrease the vulnerability) of developing an addiction to a drug of abuse, such as nicotine or short-acting opiates. Studies of human molecular genetics of each of these two addictive diseases, considered individually, are providing specific information which further elucidates the pathophysiology and molecular neurobiology of each of these diseases of the brain. Further, human molecular genetic studies in the future may contribute to the development of novel approaches, both behavioral and specific pharmacological, for both early intervention and chronic treatment of these addictive diseases. The most enduring and informative human molecular genetic studies are those which combine extensive phenotyping, conducted by highly skilled persons, frequently including clinicians, coupled with excellent molecular genetics work (widely available in 2018) and, of great importance, insightful input by a genetics statistician. Very large studies have value, and very small studies with highly defined populations also have value. Each of these types have been replicated to a modest extent. Five experts in addictive diseases, along with human molecular genetics, will present their research work, followed by discussion of the implications of genetics for diagnosis, early intervention, and treatment of the addictive diseases.

VI.

What's in Your Weed? Assessing the Impact of Cannabis Product Selection Chairs: Staci Gruber and Ryan Vandrey

Rates of cannabis use are rising, yet many questions remain regarding the impact of use on cognitive, clinical, and behavioral health outcomes. These questions are, at least in part, due to the varied chemical composition of cannabis, which is not a single entity but is comprised of a myriad of constituents. Consumers often choose products based on cannabinoid concentrations or constituent ratios; however, little research has been dedicated to clarifying the unique effects of specific cannabinoids or cannabinoid ratios. While previous work in animals and humans has demonstrated that acute administration of individual cannabinoids leads to differential effects on a variety of measures, this symposium will focus on studies which examine products that cannabis consumers are actually using, underscoring the importance of cannabinoid constituent analyses. Dr. Vandrey will present product selection data from a large, longitudinal patient registry database as well as studies testing the accuracy of product dose labeling. Dr. Loflin will discuss data that highlights the discrepancy between product selection and therapeutic potential in a sample of veterans. Finally, Dr. Gruber will present longitudinal clinical and neurocognitive data from individuals electing to use primarily THC-dominant vs. CBD-dominant products. "What's in your weed?" is an increasingly popular question among both researchers and consumers. Research shared in this symposium, while still in its infancy, will help garner a better understanding of how cannabinoid content contributes to the varied outcomes experienced by recreational and medical consumers, and also highlight important knowledge gaps and methodological challenges to be addressed in future studies.

VII.

Let's Save the Baby and Bathwater: Improving NAS Care for Babies and Their Mothers Utilizing Novel Methods Chairs: Dennis Hand and Yukiko Washio

Epidemic rates of opioid use disorder among pregnant women have highlighted the need for innovative behavioral and technological methods to improve maternal/neonatal care. Observer-rated scoring is currently the only method for assessing neonatal abstinence syndrome (NAS), and differences in scorers' education and experiential background can result in substantial variation in scores. Variability in scoring can impact: 1) initiation of pharmacotherapy 2) dosage changes during stabilization and weaning 3) length of stay and 4) health care costs. Novel innovations are needed to deliver education to improve scoring standardization and conveyance of clinically useful aggregated scoring results. In addition, there is a growing need to work antenatally with mothers in medication-assisted treatment to coordinate care and to prepare/counsel them around their neonate's postpartum course. Exosome-based biomarkers indicative of fetal brain responses to opioid exposure may help both by providing individualized risk assessments to mothers antenatally and by augmenting observer-rated assessments of NAS to guide pharmacologic treatment decisions. This mini-symposium will contain data from state-of-the-art studies on NAS assessment and treatment by postpartum floor nurses utilizing novel experimental technologies, novel methods of care and counselling for mothers who are receiving medication-assisted treatment, and maternal plasma exosome measures of fetal brain morphine receptors (μ OR). Recently developed mobile technology to provide additional tools to improve the quality of practice and provider-coordinated antenatal care will also be discussed.

Monday, June 11

VIII.

Cannabis and Tobacco Co-Use: Current Findings Across
Preclinical, Genetic, Experimental and Epidemiological Science
Chairs: Erica Peters and Arpana Agrawal

Tobacco and cannabis have overlapping genetic, environmental and neural influences perpetuating their co-use. This symposium will bring together a multidisciplinary group of investigators to share current findings on the co-use of tobacco and cannabis. Dr. Agrawal will use a series of loci and polygenic risk scores identified from some of the largest genomewide association studies of cannabis and tobacco to examine whether genetic liability to one drug contributes to vulnerability for the other and, further, whether evidence for shared genetic liability is indicative of causality via Mendelian Randomization. Dr. Coleman-Cowger will present on the prevalence and correlates of biochemically verified co-use of cannabis and tobacco in a racially diverse convenience sample of pregnant women presenting to two urban prenatal clinics, and compare birth outcomes (NICU admissions, birth weight, length, gestational age at birth, APGAR 5-minute score, presence of any birth defect) by co-use of cannabis and tobacco status. Dr. Peters will show the prevalence and correlates of co-use of cannabis and tobacco in youth and in young adults from two population-based surveys in the US. This symposium will enhance our understanding of tobacco and cannabis co-use and areas of future investigation.

IX.

Innovator Symposium Chair: Thomas Prisinzano

This symposium will highlight the synergistic roles of chemistry and pharmacology aimed at developing novel treatments for drug abuse and pain. Among the topics covered will be chemical synthesis, molecular pharmacology, and behavioral pharmacology, all aimed at identifying novel compounds that retain biological activity at drug abuse targets but have reduced side effects.

X.

Neonatal Abstinence Syndrome: Effects of Opioids on the Developing Brain Chairs: Henrietta Bada and Gary Peltz

Opioid abuse and dependence during pregnancy has become a significant public health problem in the United States, amid the current opioid epidemic. Maternal opioids exposure to embryos and fetuses likely results in brain and behavioral disorders in infants. The incidence of neonatal abstinence syndrome (NAS) has increased approximately 400% nationally, from 1.2 per 1,000 hospital births in 2000 to 5.8 in 2012, with some states reporting more than 30 per 1,000 hospital births. In 2012, 22,000 infants born were diagnosed with NAS, a five-fold increase for that decade where data is available. Meanwhile, infants diagnosed with NAS are treated with opioids, and/or their agonists and antagonists, for opioid withdrawal. Remarkably, little is known on how maternal opioid exposure causes embryonic and fetal brain disorders; nor how, in treating NAS, opioids, opioid agonists and antagonists affect the developing brains of newborns. This symposium will address the current state of clinical and basic science of NAS. Dr. Jansson will present new discoveries on fetal neurobehavioral development in buprenorphine exposed pregnancies. Dr. Bada will present translational research on the treatment of NAS with non-opioid drugs as supported by animal studies. Dr. Davis will talk about his research on the diagnosis and treatment of NAS, as well as his endeavors in identifying the genetic and genomic risk factors of NAS. Finally, Dr. Hauser will discuss the cellular and molecular mechanisms of how opioids affect neural and glial differentiations that adversely impact the white matter of the developing brain.

Tuesday, June 12

XI.

Umet Need for Treatment of Opioid Use Disorder: An International Perspective
Chairs: Howard Chilcoat and Michelle Lofwall

Opioid use disorder (OUD) is a global problem that affects over 15 million individuals worldwide and is a major contributor to morbidity, mortality, and disability. Despite the extensive need for treatment and availability of efficacious treatments, most of those with OUD never get treated or only receive treatment after several years after onset of the disorder. Although the problem of OUD is widespread, there is considerable variation in the nature of the problem, how it is treated, and the access to treatment. This symposium examines the nature of the OUD (eg, prevalence, types of drugs involved, routes of administration and extent of unmet need for OUD treatment using an international perspective from 5 regions: Europe, Asia, Australia, Russia, and the United States. Each talk will discuss the level of need for OUD treatment, availability of various treatment modalities, and barriers to treatment access that contribute to unmet need. Presentations will address systems of treatment delivery and will explore approaches that have been successful in overcoming barriers to treatment and reducing unmet need that lessen the public health burden of OUD. The discussant will address similarities and differences across regions and discuss how learning can be shared to reduce unmet treatment need for OUD globally. Future directions for treating the global epidemic of OUD will also be explored.

XII.

Clinical Studies of Biologics to Treat Substance Use Disorders
Chairs: Ivan Montoya and S. Michael Owens

There is a major public health need for safe and effective treatments for Substance Use Disorders. Immunotherapies, such as vaccines and monoclonal antibodies, are opening a new window of possibilities to treat these disorders. The mechanism of action of immunotherapies is a pharmacokinetic antagonism that prevents or retards the access of the drug of abuse to the central nervous system. Thus, immunotherapies appear to prevent the neurotoxic effects, including the effects on the central reward system, of the drugs of abuse. The anti-drug vaccines can stimulate the immune system to produce antibodies specifically against the drug of abuse. The anti-drug monoclonal antibodies are obtained by different methods that do not require the immune system of the host. Several immunotherapies have been investigated in clinical trials but none of them have met the efficacy endpoints to obtain approval by the Food and Drug Administration (FDA). New methods of production and new immunotherapies that appear more effective are being investigated. The purpose of this symposium is to provide an overview of the new generation of immunotherapies that recently started to be evaluated in clinical trials. They include presentations by Dr. Ronald Crystal of an adenovirus-based anti-cocaine vaccine, Dr. Lloyd Johnston of a nanoparticle-based anti-nicotine vaccine, and Dr. W. Brooks Gentry of a chimeric anti-methamphetamine monoclonal antibody. At the end of the symposium, it is expected that participants gain knowledge about the status of the clinical studies and future research directions of immunotherapies for Substance Use Disorders.

XIII.

Next Generation Analgesics Chairs: David McCann and Jane Acri

No single action can solve the ongoing opioid crisis in the United States. New education and prevention initiatives, efforts to increase patient access to effective treatments for opioid use disorder (OUD) and opioid overdose, and the development of new and improved therapies for OUD and opioid overdose prevention and treatment will be extremely important. In addition, because many cases of OUD stem from the use of oxycodone and other "traditional" opioids in the medical management of pain, the discovery and development of safer and less addictive analgesics represents an important role for NIH-funded science in addressing the opioid crisis (Volkow and Collins, NEJM 377: 391-394, 2017). Research to be presented in this symposium will highlight advances from four different research groups in developing safer and/or less addictive opioid analgesics. The discussant will put the presentations in context by highlighting the efforts of other research groups to develop non-opioid alternatives for analgesia, and will present a vision of NIH/NIDA support for future pain research. The overall goal of the symposium is to encourage future research on pain and the development of safer/less addictive analgesics by focusing the attention of meeting attendees on recent advances and gap areas of knowledge in this field of research.

XIV.

Polysubstance Use is the Norm: Time for Research and Practice to Recognize and Address it Chairs: Richard Saitz and Carlos Blanco

The majority of research on substance use and disorders focuses on single substances, whereas the majority of people who use, use multiple substances. Studying multiple substance use is challenging for many reasons, which may be precluding advances. Issues range from the desire to isolate specific drug effects in animal models, viewing multiple substances as messy confounded research, screening and assessment tools that focus on individual substances or lump many together, interventions designed for individual substances, methods that limit our ability to understand multiple substance use and policies that focus on individual substances. In this translational symposium we take these issues head on. First we will set the stage for the symposium by examining data on polysubstance use in general and clinical populations, and the ability of 'best practice' tools to adequately (or not) characterize them in clinical research. The next presentation will address the development of animal models to investigate the combined effects of delta-9-tetrahydrocannabinol and nicotine with a translational eye to developing studies in humans. Methods for handling and understanding use of multiple substances in study design and in measuring outcomes relevant to polysubstance use will be presented. Finally, policy, its frequent focus on single substances and the potential to address multiple substances will be addressed. The NIDA discussant will address the current state of research on polysubstance use, treatment, and potential future directions. The symposium will open a new conversation on how to address polysubstance use successfully in research with a translational focus on impacting policy and practice.

Wednesday, June 13

XV.

Fentanyl Abuse: From Medicinal Chemistry to Clinical Management Chairs: Sandra Comer and Catherine Cahill

Opioid use disorder (OUD) and its associated morbidity and mortality currently are at epidemic levels in the U.S. Beginning in the early 1990's, the increased incidence of OUD was mostly attributed to abuse of prescribed opioids, but an increase in heroin use has been observed in recent years. Despite concentrated efforts to address the problem, the rate of opioid overdose deaths is surging nationwide. This surge is due in part to the introduction of illicitly made fentanyl and its analogs. Despite the fact that fentanyl has been used in clinical settings for decades, its abuse liability, toxicity, and responsiveness to treatment medications are not well characterized. In the current symposium, Dr. Ivy Carroll will describe the ease of synthesizing fentanyl and its analogs relative to that of obtaining natural opioids and their analogs, as well as the relative in vitro and in vivo properties of fentanyl. Dr. James Woods will describe the behavioral pharmacology of fentanyl in preclinical models, as well as the ability of opioid antagonists and partial agonists to reduce its effects. Dr. Alex Walley will describe the observed course of fentanyl-related overdoses and the utility of naloxone to reverse them in real-world settings. Dr. Kim Janda will describe a fentanyl vaccine as a potential novel therapeutic approach to treating fentanyl abuse. Dr. Sandra Comer will serve as the Discussant. This symposium should provide a broad overview of the chemistry and pharmacology of fentanyl, as well as the clinical characteristics of fentanyl overdose and opportunities for treatment.

XVI.

Gut-Brain Axis in Addictions: Peptides, Lancets and Bugs Chairs: Lorenzo Leggio and Rajita Sinha

In this symposium, senior and junior investigators will present innovative preclinical, translational and clinical research, mostly unpublished, on the role of the gut-brain-axis in addictions. Dr. Sinha will highlight adaptations in gut and stress hormones associated with increased food craving and intake and brain reward in response to highly palatable foods. Data showing altered gut hormones in substance-abusing individuals and their prediction of craving/relapse will also be presented. Dr. Roitman will follow up on the role of dopamine on reward processing in food- and drug-seeking behaviors. His rodent work demonstrates phasic, high concentration increases in dopamine evoked by food, cues predicting food, and cocaine infusions. He will also discuss the role of neuropeptides in phasic dopamine signals under different physiological states, suggesting that hunger and satiety signals operate on circuitry critical for reinforcement and motivation. Ms. Orellana will present studies showing that, in obese rats RYGB increases the rewarding effects of morphine and alcohol independently from postoperative weight loss; strongly suggesting a biological cause. Furthermore, she will present data on differences in alcohol preference and sensitivity to ghrelin antagonism following RYGB versus sleeve gastrectomy. Dr. Kiraly will show significant differences found in the microbial diversity and abundance in alcohol-dependent rats versus controls. She will further present results from ongoing case-control studies investigating the gut microbiota in a non-human primate model of binge alcohol drinking (baboons) and in alcohol-dependent patients, providing cross-species information on the role of the gut microbiota in alcoholism. Dr. Hajnal will serve as the symposium discussant.

XVII.

Comorbidity of Opioid Addiction and Other Psychiatric Disorders

Chairs: Rita Valentino and Christopher Evans

Psychiatric disorders, including post-traumatic stress disorder and depression, often accompany opioid use disorder (OUD). Chronic pain syndromes are also comorbid with anxiety and depressive disorders and individuals in pain are more likely to be using opioids, creating a direct pathway to OUD in comorbid patients. The symposia will merge both clinical and basic research perspectives on the role of different opioid systems, namely mu, kappa and delta, in both contributing to, and relieving mood-related disorders. Dr. Kosten will first review clinical data on depression and opiate dependence, highlighting results from treatment with the kappa antagonist/partial mu agonist buprenorphine. Dr. Kieffer will then review basic research on the role of different opioid receptors in mood, and present her more recent work on the contribution of mu-receptors in selective cell-types to aversive behaviors triggered during opiate withdrawal. Dr. Chavkin will discuss how stress-induced activation of the dynorphin-kappa opioid receptor system can produce dysphoric and anxiety-like states that increase the rewarding valence of addictive drugs, promote drug seeking behaviors, and trigger relapse of drug-seeking in abstinent animals. Finally, Dr. Louisa Degenhardt will discuss the clinical implications of co-morbidity in cohorts she has studied in Australia. Questions in the symposia will address the salience of opioid drugs to individuals with mental disorders and/or pain and the issue of selfmedication combined with distress during withdrawal states. Insights into contributions of different opioid receptors to mediating or alleviating symptoms exhibited in various comorbid mental states with OUD could guide future treatment strategies.

XVIII.

Long-Acting Medication Reformulations: A Strategy to Address the Opioid Epidemic Chairs: Brantley Jarvis and Philip Todd Korthuis

Many patients suffering from opioid use disorder (OUD) require long-term and in some cases life-long medication-assisted treatment to address its chronic and relapsing nature. Reformulating existing medication delivery methods with long-acting preparations aligns these medications with the long-term disorder they treat, eliminates diversion, increases adherence, and may facilitate engagement in long-term care by stabilizing patients for longer durations early in their treatment course. This approach was recently proposed by the NIH as an innovative short-term strategy to address the opioid epidemic. This symposium features new research on investigational and FDA-approved long-acting medications and discusses their role, potential, and challenges in treating OUD. Dr. Joshua Lee will present findings from the CTN-0051 X:BOT trial—the first head-to-head comparative effectiveness study of injectable extended-release naltrexone and buprenorphine-naloxone. Dr. Evgeny Krupitsky will discuss the use of implantable naltrexone to prevent opioid relapse and its collateral impacts on mood and HIV treatment in Russia. Dr. Sandra Comer will summarize recent work carried out in the human laboratory setting on once-weekly and once-monthly injectable buprenorphine formulations. Dr. Edward Nunes will provide an update on results from recent clinical treatment trials of injectable buprenorphine formulations. Finally, our discussant and co-chair, Dr. Todd Korthuis, will place these presentations within the broader context of OUD treatment and lead a discussion of the opportunities for integrating long-acting medications into treatment and highlight ongoing research studies on treatment implementation.

Thursday, June 14

XIX.

International Opioid Guidelines
Chairs: Fred Nyberg and Gabriele Fischer

Over the past decade, the prescribing of opioids has increased dramatically in Western countries and in particular in North America. In parallel, increases in opioid addiction, overdose, and associated deaths have been seen. A similar situation occurs in Europe. According to the EMCDDA assessment of the drug-induced deaths, next to Estonia, Sweden is the country with the most drug-induced deaths per million population in Europe. From 2006 to 2014 a 40% increase in drug-related deaths has been recorded in Sweden, mainly due to opioids. This increase has been seen in both sexes. Moreover, it should be noted that a great part of the increase is seen in opioid deaths combined with benzodiazepines. Although opioid addiction is effectively treated using a multidisciplinary approach including agonist opioid treatment and psychosocial intervention there are some difficulties. Misuse and diversion of pain medicines, like fentanyl and buprenorphine comprise a significant problem in Sweden, but also in other Nordic countries with some of the highest frequencies in Europe. These inconveniences are associated with poor treatment compliance and increases in risk of blood-borne infections, crime, and mortality. To address this problem, changes in medicines used in treatment in Finland and Iceland have already been implemented and considerations are under way in Norway and Sweden. At this symposium, international well-known speakers will highlight current perspectives on Guidelines for opioid treatment as well as opioid overdoses and related deaths in Nordic countries but also in other countries within EU, North America and in Southeast Asia.

XX.

Kratom: Bitter Narcotic or Sweet Medicine for Pain and Opioid Addiction? Chairs: Jay McLaughlin and Christopher McCurdy

In August 2016, the DEA announcement to place Kratom and component alkaloids into Schedule I sparked unprecedented public backlash. Although a drug of abuse concern for over a decade touted as a "legal high" and linked to 16 deaths, over 23,000 public comments on the DEA action demonstrate wide use of Kratom to control pain, opioid addiction and opioid withdrawal with limited liabilities. In lieu of a fuller scientific understanding of this natural product, the DEA suspended their intention to schedule Kratom, but retains the right to do so. This symposium will seek to fill the gap, bringing together expert scientists to review the current knowledge of the chemistry, pharmacology, toxicology, behavioral effects and epidemiology of Kratom and two alkaloid components, mitragynine and 7-hydroxymitragynine. Dr. McCurdy will review the history, chemistry and pharmacology of Mitragyna speciosa. Dr. Avery will detail what is known about the pharmacokinetics and toxicology of both the natural product and currently available commercial formulations. Dr. Boyer will review the epidemiology, use and putative abuse of Kratom in patient populations. Finally, a detailed review of the reinforcing and abuse-related effects of Kratom, mitragynine and 7-hydroxymitragynine and major components of the natural product will be offered with the selfadministration studies of Dr. Hemby and drug-discrimination studies of Dr. McMahon. Upon the conclusion of these presentations, a discussion section will evaluate both benefits and detriments attributed to this controversial natural product, with an attempt to educate the research and regulatory community and forge consensus on future research directions.

XXI.

New Targets for Drug Abuse Therapy Chairs: Thomas Prisinzano and Nurulain Zaveri

This symposium will highlight new and emerging therapeutic approaches for the treatment of drug abuse. Among the topics covered will be receptor modulators, neuropeptide S receptor antagonists, toll-like receptor modulators, and dopamine receptor antagonists.

XXII.

Sex and Gender Implications for Emerging Drug Policy Chairs: Sherry McKee and Cora Lee Wetherington

Alcohol and tobacco use are highly co-morbid and interact across many levels of analysis including cross-tolerance, cross-cue reactivity, pharmacological, neurochemical, electrophysiological, molecular, genetic, and environmental levels. Understanding the molecular basis of alcohol and tobacco interactions can provide novel insights towards the treatment of alcohol and tobacco use, and their co-use. This symposium will present interdisciplinary and translational research highlighting alcohol-tobacco/nicotine interactions, focusing on implications for treatment development. Dr. John Dani will present preclinical findings demonstrating that stress and nicotine converge onto midbrain GABAergic circuitry, altering the pharmacological action of alcohol on mesolimbic dopamine circuitry and increasing alcohol self-administration behavior. Dr. Marissa Ehringer will address how variants in the genes for nicotinic acetylcholine receptors have been widely replicated to be associated with risk for tobacco, alcohol, other drug behaviors, identifying the functional molecular mechanisms underlying these associations. Dr. Dieter Meyerhoff will present cross-sectional and longitudinal neuroimaging research demonstrating that biomarkers reveal untoward effects of smoking on brain structure, blood flow, metabolite concentrations and their changes during recovery from chronic alcohol consumption. Dr. Sherry McKee will present human behavioral pharmacological findings examining whether medications targeting nicotinic receptors or stress pathophysiology may be effective for both alcohol and tobacco use. Dr. David Lovinger will serve as Discussant to integrate and synthesize findings across the speakers, highlighting that a molecular understanding of alcohol and tobacco/nicotine interactions is critical for the effective treatment of either alcohol or tobacco use.

WORKSHOP

Sunday, June 10

I.

Therapeutic Applications and Abuse Liability Assessment of Cannabidiol Chairs: Royston Gray and Charles France

The growing interest in the therapeutic application of cannabinoids to the treatment of disease has been paralleled by significant progress in the deconvolution of the pharmacology of the non-psychoactive, plant-based cannabinoid molecules e.g. cannabidiol (CBD). CBD is a non-psychoactive plant derived cannabinoid with a diverse polypharmacology which possesses no appreciable activity at cannabinoid receptors (CB1 & CB2). The ability to purify CBD and other botanically derived cannabinoids such as cannabidivarin (CBDV) to pharmaceutical grade has enabled researchers to define the pharmacology of these molecules, identify the mechanism of action and assess efficacy in preclinical models and clinical trials. The aim of the workshop is to (i). Introduce the fascinating poly-pharmacology (beyond cannabinoid receptors) of botanically derived purified cannabinoids. The molecular targets engaged by CBD and other cannabinoids are diverse in their physiological role, expression and molecular structure and include monoamine transporters, 7-transmembrane G-protein-coupled receptors, ion channels, enzymes and other intracellular targets. (ii). Describe the efficacy of plant-derived cannabinoids in preclinical models of disease and in the clinic. CBD is efficacious in a wide range of pre-clincal models of seizure. Recently, the efficacy of CBD was evaluated in Ph III trials in Dravet and Lennox-Gastaut syndromes, both intractable, catastrophic pediatric epilepsies. (iii). Describe the preclinical and clincal studies conducted in accordance with FDA guidance for the assessment of abuse potential of CBD; Drug discrimination, i.v. self-administration, non-precipitated withdrawal, in vitro assessment of abuse-related target engagement. (iv). Provide an insight into the development of novel cannabinoid therapeutics based upon the current regulatory and legal frameworks.

II.

Charting the Future of HIV Research Among Racial/Ethnic Substance Users: The Next Generation of Researchers Speak Chairs: A. Kathleen Burlew and Carmen Masson

Despite advances in HIV prevention and treatment, racial/ethnic disparities persist in HIV care, engagement, and outcomes. African American and Hispanic persons living with HIV (PLWH) are identified later in the course of HIV disease progression, less likely to be engaged in medical care, and less likely to achieve viral suppression than White PLWH. These troubling statistics highlight the need for more research to address HIV health disparities among racial/ethnic minorities. Fortunately, the next generation of racial/ethnic minority scholars are engaged in meaningful HIV research. The objective of this workshop is to present the research of several early career scientists being mentored in either the Minority Interest Group of the NIDA CTN or LEAD, a R25 training program using the CTN platform. Danni Lanaway will share research examining the measurement equivalence of a 14- vs a 15-item version of the Condom Use Self–Efficacy Scale (CUSES) across multiple racial and gender groups of substance users. Caravella McCuistian will present research examining the relationship of age and gender to condom barriers and unprotected sex among African American substance users. Sabrina Assoumou will compare the proportion of test result deliveries between rapid testing (i.e., finger stick) and laboratory–based testing (venipuncture specimen) for HIV. In addition, her research examines racial/ethnic differences on these testing methods. Finally, the co-chairs, Drs. Kathy Burlew and Carmen Masson will facilitate a discussion of this work's implications for next steps in HIV research among substance-using individuals from racial/ethnic minority groups.

III.

The Adolescent Brain Cognitive Development (ABCD) Study: Emerging Findings on Substance Use, Risk and Protective Factors, and Neuroimaging

Chairs: Mary Heitzeg and Krista Lisdahl

The Adolescent Brain Cognitive Development (ABCD) study is a large multi-site longitudinal study supported by the National Institutes of Health and the Center for Disease Control and Prevention to increase our understanding of how diverse experiences during adolescence interact with changing biology to influence brain, cognitive, and social/emotional development. Adolescence is a time of dramatic increases in rates of substance experimentation and use. Identifying the trajectories and effects of substance use and other variables, such as sleep, physical activity, screen time, etc. on child and adolescent development is critically important, as these experiences may have enduring effects on brain maturation, and behavioral, health, and psychological outcomes. The ABCD study launched in 2015 and data collection began in the fall of 2016. The study is combining measures of developmental psychology, neuroimaging, cognitive neuroscience, genetics, and epidemiology with advanced techniques in bioassays, bioinformatics, and mobile assessment to follow ~11,500 9-10 year olds recruited at 21 sites around the country. This symposium brings together representatives from the ABCD Research Consortium to present the goals of the study and its design, a description of the demographic characteristics of the emerging cohort, and a first look at baseline data on the first 4500+ children recruited, including measures of 1) substance knowledge, use and attitudes; 2) cultural and environmental risk and protective factors; and 3) brain imaging measures, with a focus on resting state fMRI and early findings from task— related activation measures of reward, emotion and cognitive control.

IV.

Navigating Key Stages of a Career in Addiction Science Chairs: Denise Vidot and Pia Mauro

The proposed workshop will focus on issues specific to three key stages in a researcher's career: 1) pre-doctoral, 2) post-doctoral, 3) early career faculty, and 4) early career outside of academia. Each presentation will outline steps that can be taken to maximize their career stage-specific experience and make themselves competitive job applicants for the next stage. Examples of topics included are as follows: striking a balance between executing your mentors vision and demonstrating your capacity to be an independent scientist, publishing amidst other responsibilities and long-term studies, grant-writing experience, applying for awards, establishing your niche and conveying its importance to potential employers, collaborating and networking, deciding whether to teach, different NIH funding mechanisms most appropriate for early career investigators, how to find a set of mentors, how to narrow down an innovative and significant research question, and organizing your time. Each talk will have a centered theme of the value of having mentors help along the process and the importance of being receptive to incorporating mentor feedback at all career stages. This workshop has added a stage (careers outside of academia) based on feedback from last year's session.

Monday, June 11

V.

Not Just One but Two: Impact of Opioid Epidemic on Alcohol Use Among
Pregnant Mothers
Chairs: Victoria Coleman-Cowger and Stacey Klaman

The epidemic of opioid use among women of childbearing age in the U.S. has contributed to increase of opioid use among pregnant women and of neonatal abstinence syndrome (NAS) incidents. Pregnant women who report substance use often engage in other substance and alcohol use as polysubstance use. Drinking alcohol during pregnancy is also one of the leading modifiable risk factors for behavioral, neurocognitive, and intellectual disabilities, including fetal alcohol spectrum disorders (FASD). Recent evidence suggests that FASD is far more prevalent among children in the U.S. and globally than was previously thought. The specific aims of this session are to (1) present the epidemiological evidence on the prevalence of substance co-use among pregnant mothers, especially opioid and alcohol co-use; (2) present clinical evidence of the co-use effects on birth and child outcomes; and (3) explore with clinical and neurodevelopmental insights on potential interactive effects of the co-use on maternal, neonatal, and child outcomes.

VI.

SUMI: A Free Interactive Web-Based Tool to Select Valid Substance Use Measures for HIV Research Chairs: Steffanie Strathdee and Steve Shoptaw

HIV prevention researchers who seek to assess and quantify substance use are often faced with difficult decisions about which measure(s) to adopt. The task is complicated further by the ways that some subgroups may integrate substance use with behaviors that affect relevant HIV outcomes. We undertook a systematic literature review and meta-analysis of substance use measures in validation and reliability studies to inform the development of an interactive web-based tool to aid in this task. The tool, called the Substance Use Measurement Identification (SUMI), helps researchers select substance use measures with known psychometric properties and are relevant to HIV prevention for specific substance classes, populations, geographies and cultures. This workshop will report findings from the meta-analysis, showcase SUMI's web-based platform and demonstrate how the tool can be used in an interactive manner, whereby the user can select search parameters that meet their needs. Through examples, we will demonstrate the types of studies the SUMI tool can be applied to. SUMI is a free, web-based tool for substance use and HIV prevention researchers, accessible from anywhere globally and compatible with desktop and mobile computing platforms. The algorithm and database of measures of SUMI will be updated by the SUSC to support additional substance use measures in the future. For more information, see: https://hptn.org/researchtools

VII.

Annual CPDD Design and Analysis Workshop
Chairs: Sterling McPherson and Susan Mikulich-Gilbertson

In this fourth Annual CPDD design and analysis workshop, the primary goal is to expose attendees to multiple state-of-the art analytic methods relevant to substance use research. Our specific aims are to present overviews with real-world examples on the following topics: 1) how to use omics data for prediction and discovery within novel substance use domains; 2) how to utilize missing data to inform your analytic approach by examining multiple direct and indirect patterns of missing data to inform treatment efficacy; 3) predictive models for opioid treatment response using data from the Clinical Trials Network; and finally, 4) how to effectively communicate with a statistician to get the most out of your data and approach and to facilitate collaborative opportunities. Our last presentation is designed to help investigators who need to enlist the support of a methodologist. Each of these topics is timely and important for multiple domains of substance use research. All presentations will be in a non-technical, accessible fashion in an effort to generate discussion among presenters and audience members around considerations such as the applicability of the methods to various situations, potential limitations, resources for additional information, and future directions among others. As in the prior Design and Analysis Workshops, our intent is to address key issues raised during this informal workshop and to empower other researchers by disseminating state-of-the-art methods as applied to real-world examples. The overall goal is to raise awareness and the level of quality in the methods that prevail throughout substance use research.

WORKSHOP

Tuesday, June 12

VIII.

Epidemiology and Public Health Research Methods Chairs: Howard Chilcoat and Georgiy Bobashev

This workshop is focused on epidemiologic research approaches to study drug use epidemics. A series of presentations will explore different methods to understand the emergence and course of these epidemics, which a focus on the recent epidemic of opioid use disorders. The first presentation describes how drug use has features of both infectious diseases (contagion model of initiation) and chronic disease (natural history of disease progression and relapsing nature of recovery) and considers a model that integrates features of both. The next presentation will discuss approaches to epidemiological analysis of user-generated digital media, including methods for the identification of emerging drugs, measurement of the emergence and prevalence of specific practices, and segmentation/identification of social network clusters where drug use is widely discussed. Data and analytical insights from online forums, markets and social media networks represent assets that can complement traditional pharmacovigilance methods, and offer opportunities for rapid, scalable and automated analysis of epidemics as they evolve. The third presentation will cover the use of survey data to understand epidemic patterns of drug use. The presenter will show examples of use of survey data to explore trends in drug use prevalence, use of retrospective survey data, use of survey data to understand age-period —cohort effects as well use of survey data to understand transitions across stages of drug involvement.

IX.

Substance Use Among Juvenile Justice-Involved Adolescents: Identifying and Addressing the Need for Treatment Services/SASATE Business Meeting

Chair: Danica Knight and Michael Dennis

An estimated 70% of justice-involved adolescents have used illicit substances and 33% have substance use (SU) disorders. Given that over 900,000 youth are arrested annually, the juvenile justice (JJ) system is well positioned to intervene with this vulnerable population through identification and triage into SU services. The purpose of this symposium is to present data from Juvenile Justice-Translational Research on Interventions for Adolescents in the Legal System (JJ-TRIALS), a NIDA-funded cooperative research project to improve delivery of evidence-based practices for substance-involved youth. Dr. Knight provides an overview of the study, describing the rationale, aims, design, and protocol using data from 20,000 youth in 7 states. Dr. Belenko examines rates of SU and explores relationships with co-occurring conditions, offense type (misdemeanor/felony), and recidivism risk. Dr. Dennis examines receipt of services among a subset of 18,000 youth in the JJ system for a minimum of 90 days, documenting movement through the Behavioral Health (BH) Services Cascade. Findings indicate 64% receive substance use screening, 24% receive a clinical assessment, and 41% are identified as needing treatment. Of those in need, 48% are referred to treatment; of those referred, only 32% initiate treatment. Individual differences in patterns of service receipt (e.g., sex and race/ethnic) are also discussed. Dr. Wiley examines data from a subset of 500 youth with a positive urine screen for opioids. Relationships among criminal history, criminogenic needs, opiate use, and movement through the BH Cascade are described. The symposium will conclude with discussion of implications and a SASATE business meeting.

Χ.

Women in Addictions Ten Years on: Reviewing Progress and Developing a Research and Implementation Roadmap Chairs: Wendee Wechsberg and Loretta Finnegan

For the past 10 years, research in the field of addictions in women has expanded into a wide range of topics. There have been a number of significant research accomplishments over this time including managing pregnant women with substance use disorders; caring for infants in opioid withdrawal; addressing psychiatric disorders; greater acceptance and treatment options for LGBT communities; gendered instrumentation; and gender-focused HIV interventions for adolescent girls and women. Most importantly, we have learned that women who use drugs often experience other comorbid medical conditions (e.g. HCV, HIV), contextual confounders (e.g. intimate partner violence exposure, homelessness) and social expectations (e.g. caretakers) that must be addressed as part of integrated comprehensive care to effectively address women's unique needs. This symposium will address these issues, including the recent emergence of the opioid epidemic and increasing injecting practices among women globally, and how new perspectives have evolved to reach and treat women who use drugs. Structural barriers to treatment for women who inject drugs and policies that stigmatize women including lesbian, bisexual and transgender women in many countries create an environment of discriminatory practices toward women who use drugs and who often have limited access to health and social services. The presenters will review progress made in the last ten years in the research on addictions in women, adolescents, and families, identify research and implementation gaps and outline recommendations for the next generation of research. We will then facilitate a discussion with the audience to prioritize the topics.

XI. 24th Annual Contingency Management Working Group Chairs: Diann Gaalema and August Holtyn

The Contingency Management (CM) Working Group, held annually during the CPDD convention, is an opportunity for the discussion and dissemination of current research regarding the use of CM interventions to promote behavior change and reduce drug use. CM is a behavioral treatment that has demonstrated consistent success in promoting abstinence from a wide range of drugs and across many different treatment populations. It is also being used to promote change in behaviors impacting the course of other chronic diseases (e.g., obesity, diabetes). At the 24th annual meeting of the CM Working Group, junior and senior researchers will present preliminary data from ongoing studies involving CM. The goal for this working group is to provide an informal outlet for discussion of ongoing CM research, with an emphasis on developing or improving research strategies by seeking audience input, and providing opportunities for junior and senior researchers to interact.

XII. The NIH Clinical Trials Stewardship Initiative: New Policies and Procedures and How to Implement Them Chairs: Katia Howlett and David White

The National Institutes of Health (NIH) has launched the Clinical Trials Stewardship Initiatives to improve the quality, accountability, and transparency of clinical research and clinical trials funded by the NIH. The new policies and procedures apply to the full lifecycle of clinical trials --from concept development to reporting of results. They cover 1) Good Clinical Practice (GCP) training-required for NIH staff and highly encouraged for extramural researchers; 2) Funding Opportunity Announcements (FOAs)-all applications must be submitted to FOAs that specifically allow clinical trials (CT-optional or CT-only); 3) terms specific to clinical trials research in Notices of Award (NoA) to remind awardees of their responsibilities, 4) requirements for registration and reporting of results in the ClinicalTrials.gov database; 5) use of Single IRB for all multisite trials (whether or not they are clinical trials); and 6) as appropriate, a recommendation to use a clinical trial protocol template that was developed in collaboration with FDA. To support these efforts, new application forms were designed to facilitate the collection of information pertinent to human subjects and clinical trials research that reduce duplication of information. NIH is also developing a standardized electronic system for management and oversight of NIH-funded clinical trials. This workshop will help investigators understand the policies and procedures that apply to clinical trials funded by NIH and learn the most efficient ways to comply and implement them at their institutions. It will also be an opportunity for researchers to provide feedback regarding burdens/advantages of the new Initiatives.

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