CURRICULUM VITAE

# Scott Daniel Lane

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url: <https://med.uth.edu/psychiatry/faculty/scott-d-lane-ph-d/>

# TITLES AND AFFILIATIONS

Present

Citizenship

Professor and Vice Chair for Research

Faillace Department of Psychiatry & Behavioral Sciences UTHealth McGovern Medical School

University of Texas Health Science Center at Houston

Director of Research

Dunn Behavioral Sciences Campus Hospitals

UTHealth Harris County Psychiatric Center + Dunn Behavioral Sciences Center University of Texas Health Science Center at Houston

United States

# EDUCATION

1996

1995

1988

Postdoctoral (Psychopharmacology)

University of Texas Health Science Center at Houston

National Institute for Drug Abuse (NIDA) Post-Doctoral Training Grant T32-DA07247

Ph.D. (Psychology) Auburn University

B.A. (Psychology) Whitman College

# ACADEMIC APPOINTMENTS

2024

2015

2012

2010

2005

2004

1999

1997

Associate Dean for Academic and Student Affairs School of Behavioral Health Sciences

University of Texas Health Science Center at Houston

Director of Research

Dunn Behavioral Sciences Campus Hospitals University of Texas Health Science Center at Houston

Vice Chair for Research

Department of Psychiatry & Behavioral Sciences UTHealth McGovern School of Medicine

University of Texas Health Science Center at Houston

Professor

Department of Psychiatry & Behavioral Sciences UTHealth McGovern School of Medicine

University of Texas Health Science Center at Houston

Associate Professor

Department of Psychiatry & Behavioral Sciences UTHealth McGovern School of Medicine

University of Texas Health Science Center at Houston

Professor

Program in Neuroscience

Graduate School of Biomedical Sciences

MD Anderson - UT Health Science Center at Houston

Assistant Professor

Department of Psychiatry & Behavioral Sciences UTHealth McGovern School of Medicine

University of Texas Health Science Center at Houston

Research Fellow

UTHealth McGovern School of Medicine

University of Texas Health Science Center at Houston NIH, National Service Research Award

National Institute of Drug Abuse: F32-DA05774

# PROFESSIONAL ORGANIZATIONS

Current

American Association for the Advancement of Science American Psychological Association (Divisions 6, 28) College on Problems of Drug Dependence

Gulf Coast Consortium for Mental Health

**HONORS AND AWARDS**

|  |  |
| --- | --- |
| 2020 | *Journal of Dual Diagnosis*, Top reviewer recognition |
| 2016 | *McGovern Research Scholar (Inaugural)*  UTHealth McGovern Medical School |
| 2014 | *John P. McGovern Award for Outstanding Teaching*  Graduate School of Biomedical Sciences  MD Anderson - UTHealth Science Center at Houston |
| 2011 | *Drug and Alcohol Dependence*, Top reviewer recognition |
| 2006 | *Fellow*, American Psychological Association (Division 28) |
| 2001 | *Young Psychopharmacologist Award*  Wyeth-Ayerst / American Psychological Association |
| 1997 | *Young Scientist Travel Award*  NIH/NIDA, College on Problems of Drug Dependence |
| 1995 | *Outstanding Dissertation Research Paper*  Association for Behavior Analysis: EAHB |
| 1995 | *Sigma Xi* |
| 1991 | *Phi Kappa Phi* |

**GRANT REVIEW SERVICE**

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| --- | --- |
| 2022 | **NIH** study section: ZRD1 NURA-J, Neurobiology of Addiction |
| 2021 | **NIH** study section: ZRD1 NURA-J, Neurobiology of Addiction |
| 2021 | **NIH** KL2 review: UTHCS-Houston Clinical and Translational Science Award |
| 2020 | **NIH** study section: ZRG1 BBBP-T, Biobehavioral and Behavioral Processes |
| 2020 | **NIH** study section: RPHB, Risk, Prevention and Health Behavior |
| 2020 | **NIH** study section: ZDA1-GXM-A, NIDA Treatment Clinical Trials Network |
| 2019 | **NIH** study section: Integrative, Functional, and Cognitive Neuroscience |
| 2019 | **DoD**: Pharmacotherapies for Alcohol and Substance Use Disorders Consortium for Congressionally Directed Medical Research Programs |
| 2018 | **NSF**: Developmental Neurosciences Program |
| 2018 | **DoD**: Pharmacotherapies for Alcohol and Substance Use Disorders Consortium for Congressionally Directed Medical Research Programs US Department of Veterans Affairs [(http://cdmrp.arm](http://cdmrp.army.mil/))y[.mil/)](http://cdmrp.army.mil/)) |
| 2017 | **NIH** study section: ZDA1 SXT-P, Cutting-Edge Basic Research Awards (CEBRA) |
| 2017 | **NIH** study section: ZRG1 RPHB, Risk, Prevention and Health Behavior |
| 2017 | **DoD**: Pharmacotherapies for Alcohol and Substance Use Disorders Consortium for Congressionally Directed Medical Research Programs US Department of Veterans Affairs [(http://cdmrp.arm](http://cdmrp.army.mil/))y[.mil/)](http://cdmrp.army.mil/)) |
| 2016 | **NIH** study section: ZRG1 RPHB, Interventions and Mechanisms for Addictions |
| 2016 | **DoD**: Pharmacotherapies for Alcohol and Substance Use Disorders Consortium for Congressionally Directed Medical Research Programs US Department of Veterans Affairs [(http://cdmrp.arm](http://cdmrp.army.mil/))y[.mil/)](http://cdmrp.army.mil/)) |
| 2015 | **NIH** study section: RPIA, Risk, Prevention and Intervention for Addictions |
| 2015 | **NIH** study section: IPTA, Interventions to Prevent and Treat Addictions |
| 2015 | **NIH** study section: BRLE, Biobehavioral Regulation, Learning and Ethology |
| 2015 | **NIH** KL2 review: UTHCS-Houston Clinical and Translational Science Award |
| 2013 | **NIH** RFA review, NIDA-13-007: Identifying Health Outcomes Associated with Changes in Use of Illicit Drugs |
| 2012 | **NIH KL2** review: UTHCS-Houston Clinical and Translational Science Award |
| 2009 | **NIH** study section: RPIA, Risk, Prevention and Intervention for Addictions |
| 2009 | **NIH** study section: APDA, Adult Psychopathology and Disorders of Aging |
| 2008 | **NIH** study section: RPIA, Risk, Prevention and Intervention for Addictions |
| 2008 | **NIH** study section: APDA, Adult Psychopathology and Disorders of Aging |
| 2007 | **NIH** study section: RPIA, Risk, Prevention and Intervention for Addictions |

|  |  |
| --- | --- |
| 2007 | **NIH** NIDA Section K: Training and Fellowship Committee |
| 2007 | **Netherlands Organization for Health Research and Development**: |
| 2007 | High Risk Behavior and Dependency Section  **US-Israel Bi-national Science Foundation**: |
|  | Cognitive and Decision Sciences |
| 2006 | **NIH** NIDA: Section K: Training and Fellowship Committee |
| 2005 | **NIH** NIMH: Neuroscience and Basic Behavioral Science |
| 2004 | **NIH** NIMH: Neuroscience and Basic Behavioral Science |

**EDITORIAL SERVICE**

2018– .

2018–2023

2019

2010–2017

2008–2011

2003–2005

2002–2005

2001–2004

Editorial Board, *BMJ: General Psychiatry*

Associate Editor, *Behavioral Sciences*

Guest Editor, *Frontiers in Psychiatry: Addiction & Neuroscience*

Editorial Board, *Behavioral Sciences*

Editorial Board, *The Open Neuropsychopharmacology Journal* Editorial Board, *Addictive Disorders and Their Treatments* Editorial Board, *Journal of the Experimental Analysis of Behavior* Editorial Board, *Experimental Analysis of Human Behavior Bulletin*

**Ad-hoc Reviewer:** *Addiction; Addictive Behaviors; Addiction Biology; Aggression & Violent Behavior; Aggressive Behavior; Alcoholism: Experimental and Clinical Research; American Journal on Drug and Alcohol Abuse; American Journal of Preventative Medicine; Behavioral Neurology; Behavioural Pharmacology; Behavioural Processes; Behavioral Sciences; Behavior Research & Therapy; Biological Psychiatry; Biological Psychiatry: Cognitive Neuroscience and Neuroimaging; Biological Psychology; Biology of Sex Differences; BMC Medicine; BMJ: General Psychiatry; Cerebral Cortex; Clinical Chemistry; Cognitive Affective and Behavioral Neuroscience; Developmental Psychology; Drug and Alcohol Dependence; Experimental and Clinical Psychopharmacology; European Psychiatry; Human Brain Mapping; Frontiers in Behavioral Neuroscience; International Journal of Psychology; Journal of Abnormal Psychology; Journal of Applied Behavior Analysis; Journal of Addiction Research and Therapy; Journal of Caffeine Research; Journal of Clinical Psychiatry; Journal of Dual Diagnosis; Journal of the Experimental Analysis of Behavior; Journal of Experimental Psychology: General; Journal of Experimental Neuropsychology; Journal of Neural Transmission; Journal of Neuroscience; Journal of Neuroscience Psychology & Economics; Journal of Neuropsychiatry and Clinical Neurosciences; Journal of Neurotoxicology & Teratology; Journal of Psychiatric Research; Journal of Psychiatry and Neuroscience; Journal of Psychopharmacology; Journal of Studies on Alcohol and Drugs; Nature Scientific Reports; Neuroimage; Neuropsychopharmacology; Neuroscience Letters; Pharmacology Biochemistry and Behavior; Philosophical Transactions of the Royal Society: London; PLoS One; Psychiatry Research; Psychology of Addictive Behaviors; Psychoneuroendocrinology; Psychopharmacology; The Psychological Record; Scientific Reports*

# SERVICE: UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER

2021– .

2020– .

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2013–2023

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2014–2018

2015–2017

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2001–2012

2005–2007

2007–2010

2001–2006

Psychiatry & Behavioral Sciences Compliance Committee

Neuroscience Qualifying Exam Committee, Graduate School of Biomedical Sciences McGovern Medical School Strategic Planning Committee for Research 2020-2025 Neuroscience Steering Committee, Graduate School of Biomedical Sciences Psychiatry & Behavioral Sciences Faculty Recruitment Committee

Psychiatry & Behavioral Sciences Faculty Tenure and Promotions Committee Psychiatry & Behavioral Sciences Executive Committee

Psychiatry & Behavioral Sciences Research Planning Committee UTHealth Task Force on Research Response to COVID-19 Executive Committee, Graduate School of Biomedical Sciences

Chair, Academic Standards Committee, Graduate School of Biomedical Sciences Neuroscience Curriculum Committee, Graduate School of Biomedical Sciences Chair, Space Committee, Department of Psychiatry & Behavioral Sciences Academic Standards Committee, Graduate School of Biomedical Sciences Supervising Mentor, UTHealth New Investigator Development Program (I. Bauer) Supervising Mentor, UTHealth New Investigator Development Program (C. Zeni) Panel, Public Forum: The Brain on Drugs UTHealth Neuroscience Research Center Saltzberg Summer Research Fellowship Coordinator, MS1 research training program Committee for the Protection of Human Subjects (IRB), UTHSC-Houston Psychiatry Lecture Series and Pharmaceutical Support Committee

Chair, Space Committee, Department of Psychiatry & Behavioral Sciences Academic Council, Department of Psychiatry & Behavioral Sciences Faculty Interviewer, Medical School Admissions Board

# SERVICE: SCIENTIFIC COMMUNITY

2022–

2022

Data Safety and Monitoring Board: ’A prospective, longitudinal study examining the impact of a housing policy implemented during covid on mental health: HOME Project’ (D. Hernandez, PI)

UTHealth Addictions Conference: *Closing the Gap Between Science and Practice*. Conference coordinating committee

2020–2021

2020–2023

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2012

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2011–14

2003–2005

Texas Research-to-Policy Collaboration Project (UT System Schools of Public Health): matched network member for legislators Carol Alvarado, William ’Four’ Price, and Senfronia Thompson

Data Safety and Monitoring Board: ’Dual-Orexin Antagonism as a Mechanism for Improving Sleep and Drug Abstinence in Opioid Use Disorder’ (M. Greenwald, PI)

UTHealth Junior Faculty Boot Camp (Speaker): *The road more travelled: Mistakes, opportunities, serendipity, and survival*

Gulf Coast Consortium Steering Committee: Translational Science Cluster in Mental Health Research

Finance Committee: College on Problems of Drug Dependence

Gulf Coast Consortium Steering Committee: Translational Science Cluster, Addiction

*Med-Pathway: Advanced Practice for the New MCAT.* (S-Corp). Co-creator and Vice-President. MCAT prep materials (print book, online tests and statistics)

Out In Front: UTHealth Online Magazine (Consulting Scientist) *Brain Health. Ad- dressing a growing crisis merging biological and cognitive science to tackle addiction*

Advisory Panel: Alcohol and Substance Abuse Disorders Research Program (ASADRP) US Department of Defense; Congressionally Directed Medical Research Programs

Faculty External Search Committee: UT MD Anderson Cancer Center Department of Behavioral Science (Paul M. Cinciripini, Chair)

Data Safety and Monitoring Board: ’Non-Invasive Direct Current Stimulation for Cognition in Schizophrenia.’ UTHealth McGovern Medical School (R. Cho, PI)

Health Leader Online Magazine (Consulting Scientist) *Artificial high: Synthetic drugs are anything but safe*

UTHealth Addiction Expert: Fox Chanel 26 News, Brain Awareness Week

Consultant: PhenX Substance Abuse and Addiction (SAA) Working Group 2. NIH NHGRI award No. U01 HG004597. PhenX provides standardization of measures related to complex diseases, phenotypic traits and environmental exposures

Addiction Expert: National Geographic BBC program, *Drugged: High on Cocaine*

Data Safety and Monitoring Board: ’A Human Laboratory Assessment of the Safety and Potential Efficacy of Varenicline in Methamphetamine-Dependent Volunteers Receiving Methamphetamine.’ Baylor College of Medicine (R. De La Garza II, T. Newton, PIs)

Program Chair: American Psychological Association Annual Convention, Division 28 (Psychopharmacology and Substance Abuse)

# TEACHING

2023

2020–2024

2021–2022

2014–2022

2020–2021

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1994–95

1993–94

1992

Cognitive Neuroscience, UTHSC Graduate School of Biomedical Sciences

Statistical Methods and Guidelines, UTHealth Psychiatry & Behavioral Science Resi- dency Program

Mesocorticolimbic Circuits Modulating Reward Behavior, UTHSC Graduate School of Biomedical Sciences (Neurocircuits and Behavior Course)

Research Ethics, Principles and Practice, UTHSC Psychology Internship Lecture Series Research Ethics, UTHealth Psychiatry & Behavioral Science Residency Program

Drugs and Cognition: Psychopharmacology, UTHSC Graduate School of Biomedical Sciences (Cognitive Neuroscience Course)

Neurobiology of Disease: Opioids, Neurobiological and Clinical Perspectives, UTHSC Graduate School of Biomedical Science

Addiction Lecture Series: Sedatives, Hallucinogens, Cannabinoids, UTHSC Medical School Behavioral Sciences Block, MS 2

Principals of Design and Data Analysis, UTHealth Psychiatry PGY1 and PGY2 Resident Didactics

Behavioral Science Interviewing (preceptor), UTHSC Medical School

Neurobiology of Disease: Stress and the Brain, UTHSC Graduate School of Biomedical Sciences

Neurobiology of Disease: Addiction, Clinical and Neurobiological Perspectives, UTHSC Graduate School of Biomedical Science

Research Methodology I and II, UTHSC Department of Psychiatry PGY1 and PGY2 Resident Didactics

Neurobiology of Disease: Behavioral Neuroscience of Addiction, UTHSC Graduate School of Biomedical Science

Psychopharmacology, UTHSC Clinical Psychology Internship Program Psychopharmacology Lecture Series, UTHSC Psychiatry Grand Rounds Behavioral Pharmacology, UTHSC Graduate School of Biomedical Science Psychopharmacology, University of Houston (Graduate Seminar) Quantitative Methods (Statistics), Auburn University

Learning and Conditioning, Auburn University Developmental Psychology, Auburn University

# MENTORING

## *Junior Faculty*

2021–2022

2021–2022

2019–2021

2019–2021

2019

2017–2018

2017–2018

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2015-2017

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2013-2015

Lokesh Shahani, M.D. UTHealth Department of Psychiatry & Behavioral Sciences Ph.D. Co-Mentor, Dissertation Committee, University of Texas-Houston School of Public Health: *Predictors of lengths of stay and suicidality related to psychiatric hospitalization in the geriatric patient population.*

Jin H. Yoon, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences McGovern Medical School Pilot Grant: *Relationship between opioid demand metrics and pain-related outcomes.*

Gabriel Fries, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences K12 awardee: *Association between stress reactivity and DNA methylation in patients with bipolar disorder*

K01 awardee: *Stress reactivity and DNA methylation in patients with bipolar disorder*

Robert Suchting, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences UTHealth Psychiatry & Behavioral Sciences Seed Grant: *Suvorexant treatment to reduce relapse risk symptoms during cigarette smoking withdrawal: a double-blind, placebo-controlled study*

Emily H. Wu, M.D. UTHealth Department of Psychiatry & Behavioral Sciences Alkermes Pathways Research Program: *Relationships among cannabis use trajectories and psychosis in an acute inpatient mental setting*

Jin H. Yoon, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences UTHealth Psychiatry & Behavioral Sciences Seed Grant: *Targeting alcohol use & stress reactivity with pioglitazone*

Isabelle Bauer, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences K01 application: *Neural and cognitive correlates of impulsivity in bipolar disorder and comorbid alcohol use disorder*

Benson M. Irungu, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences KL2 application: *Individualized bio-behavioral markers of vulnerability and disease progression in bipolar disorders*

Margaret Wardle, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences K08 awardee (2016-2021): *Targeting anhedonia in cocaine use disorder*

Ola O. Okusaga, M.D. UTHealth Department of Psychiatry & Behavioral Sciences K23 application: *Peripheral inflammation and inhibitory control in psychosis*

Anka Vujanovic, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences KL2 awardee: *Randomized controlled trial of a novel cognitive-behavioral treatment for PTSD and cocaine dependence*

2011–2012

Kirti Saxena, M.D. UTHealth Department of Psychiatry & Behavioral Sciences

K23 application: *Neural and laboratory markers of impulsive aggression in bipolar adolescents*

## *Postdoctoral Fellows*

2018–2022

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2017–2018

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2016

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2008–2012

2007–2008

2004–2006

2001-2003

Heather Webber, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences K01 award: *Targeting physiological markers of reward functioning with transcranial magnetic stimulation in cocaine use disorder*

NIH/NSRA F32 award: *Developing adaptive interventions for cocaine cessation and relapse prevention.*

UTHealth Psychiatry & Behavioral Sciences Seed Grant: *Effects of cocaine abstinence on EEG gamma in response to neutral and cocaine cues*

Yong Cui, Ph.D. MD Anderson Department of Behavioral Sciences.

K01 application: *Evaluating the feasibility of a dual inhibitory control training-based mobile intervention for smoking*

Gabriel Fries, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences K01 award: *Association between stress reactivity and DNA methylation in patients with bipolar disorder*

Yong Cui, Ph.D. MD Anderson Department of Behavioral Sciences

K99/K00 application: *A dual inhibitory control training-based adjunct intervention for smoking*

Isabelle Bauer, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences K01 application: *Cognitive, neural and physiological basis of affective biases in mood spectrum disorders*

Shijing Liu, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences MD Anderson Cancer Center Behavioral Sciences Fellowship, 2012-2013

Delphine Psychoyos, Ph.D., Texas A&M Health Science Center

NIH/NSRA F32 award: *Teratogenic effects of marijuana in developing CNS*

Lori M. Lieving, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences Currently Faculty, Director of Research Programs, Carolinas College of Health Sciences NIH/NSRA F32 award: *Impulsivity and time estimation in substance abusers*

Cynthia J. Pietras, Ph.D. UTHealth Department of Psychiatry & Behavioral Sciences Currently Associate Professor, Western Michigan University

## *Residents*

2019-2020

2018-2020

2016–2019

2015-2016

2013–2015

2013–2014

Tina Thomas, MBBS, MRCPsych, (Co-Mentor, Research Track)

Resident research paper winner, Journal of Psychiatric Practice, 2019-2020

*Race, history of abuse, and homelessness are associated with forced medication admin- istration during psychiatric inpatient care*

American Psychiatric Association Foundation (APA) Foundation Grant, 2020-2021 *Feasibility study of using mobile phone technology to survey COVID-19 exposure, knowl- edge, attitudes and prevention practices, mental health and access to care in people with serious mental illness (SMI) experiencing homelessness*

Shweta Kapoor, M.D. (Co-Mentor, Research Track)

American Psychiatric Association Research Colloquium Awardee, 2019

*Opioid misuse risk assessment in patients undergoing surgery following traumatic injury*

Sabrina Correa Da Costa, M.D. (Primary Mentor, Research Track) Addiction Fellowship, Yale Medical School, 2019-20

Laughlin Fellow of The American College of Psychiatrists, 2018-19

Junior Investigator Research Colloquium, American Psychiatric Association, 2017 Outstanding Resident Excellence in Research Award, UTHealth, 2017

American College of Neuropsychopharmacology Research Colloquium Awardee, 2017 American Academy of Addiction Psychiatry Resident Travel Scholarship, 2017 MIRECC Training Residents in Psychiatry Scholarship (TRIPS) Program, 2016

*The impact of substance use disorders and cognitive functioning late in life*

Ajay Parsaik, M.D. (Primary Mentor, Research Track) Area 5 APA resident poster competition 1st place, 2017

Mental Health Congress resident poster award 1st place, 2016

MIRECC Training Residents in Psychiatry Scholarship (TRIPS) Program, 2016:

*Substance use disorders in psychiatric inpatients reporting childhood trauma*

Samet Kose, M.D., Ph.D. (Primary Mentor, Research Track) Janssen Resident Psychiatric Research Scholar, 2014

APA Young Investigator Award, 2014: *Neural correlates of impulsive aggressive behavior in subjects with a history of alcohol dependence*

Nilesh S. Tannu, M.D. (Mentor, Research Track)

Society for Biological Psychiatry Travel Award Winner, 2014: *Proteomic analyses for evaluation of PPAR-gamma agonist treatment for cocaine dependence*

Janssen Resident Psychiatric Research Scholar, 2013

## *Graduate Students*

2023–

Dania Mofleh, UTHealth School of Public Health Dissertation Committee Member

2018–2022

2018-2019

2016–2019

2016–2019

2015–2019

2011–2014

2011–2014

Kyla Gibney, MD Anderson UTHealth Graduate School of Biomedical Sciences Dissertation Committee Member

Gigli Family Endowed Scholarship Awardee

Drug Abuse Research Training (DART) Summer Fellowship: Medical University of South Carolina

NIH F31 awardee (co-Mentor): *Resisting food temptation: How do affective and cognitive brain systems interact?*

Charlotte Beard, UTHealth Clinical Psychology Internship Program

*White matter integrity in stimulant use disorders: A meta-analysis of diffusion tensor imaging studies*.

*A meta-analysis of tract-based spatial statistics studies examining white matter integrity in cocaine use disorder*.

Jonika Tannous, MD Anderson UTHealth Graduate School of Biomedical Sciences Examining Committee and Dissertation Committee Member

Roberta M. and Jean M. Worsham Endowed Scholarship winner, 2018

*Trajectories and clusters- An examination of white matter and cognition in children and adolescents with bipolar disorder*

GSBS rotation research project: *Relationships among anti-saccade errors and white matter integrity in subjects with cocaine and alcohol use disorders*

Data Scientist: Centers for Disease Control - Houston

Data Scientist: Houston Methodist Hospital, Neurology and Neuroscience

Andrea Dimet, University of Texas Medical Branch Integrated Neuroscience Program Dissertation committee: *Integrative biochemistry, omics, and bioinformatics to elucidate mechanisms underlying cocaine cue reactivity*

Christopher Walker, MD Anderson UTHealth Graduate School of Biomedical Sciences Examining Committee and Dissertation Committee Member: *Gamma frequency oscil- lations in adolescent cortical and working memory development: examination using combined TMS and EEG*

Nadeeka Dias, Ph.D., MD Anderson UTHealth Graduate School of Biomedical Sciences Frances Adoue Lynch Addiction Research Award, 2012

Primm-Singleton Award – College on Problems of Drug Dependence, 2013 National Eye Institute (NIH) Young Investigators Fellowship – Gordon Research Conference, 2013

Robert W. and P. Wallis Knox Charitable Foundation Scholarship Award, 2014

Post-doctoral fellow, Harvard Medical School / McLean Hospital (S.E. Lukas, 2014-16) Primary Mentor and Dissertation Advisor: *Eyetracking measures of attentional bias in cocaine-dependent subjects*

Nuvan Rathnayaka, MPH. UTHSC School of Public Heath

Graduate Research Assistant & Ph.D. student, University of North Carolina, Biostatis- tics (2014–2019)

Masters in Public Health Advisory Committee

2009–2014

2008–2011

2006–2011

2002–2006

Joseph Alcorn, Ph.D. MD Anderson UTHealth Graduate School of Biomedical Sciences Dee S. and Patricia Osborne Endowed Scholarship, 2014

2012 Roberta M. and Jean M. Worsham Endowed Scholarship winner, 2012

2012 Primm-Singleton Award âĂŞ College on Problems of Drug Dependence, 2012 Post-doctoral fellow and Research Associate, University of Kentucky Medical School (C.R. Rush, 2015–2019)

Primary Mentor and Dissertation Advisor: *Effects of oxytocin on human aggression*

Lorena Maili, M.S. MD Anderson UTHealth Graduate School of Biomedical Sciences Masters in Biological Sciences Advisory Committee

Roberta M. and Jean M. Worsham Endowed Scholarship winner, 2010

Joshua Gowin, Ph.D. MD Anderson UTHealth Graduate School of Biomedical Sciences Post-doctoral fellow, UC San Diego (M.P. Paulus, 2012–2013)

Research Fellow, NIAAA (V. Ramchandani, 2014–18)

Assistant Professor, University of Colorado School of Medicine (2018–present) Primary Mentor and Dissertation Advisor: *The role of cortisol in the cycle of violence*

Sylvain Nouvion, Ph.D. MD Anderson UTHealth Graduate School Biomedical Sciences NIH/NSRA F31 application: *Human reactive and proactive aggression*

Post-doctoral fellow, Wake Forest University, (2007-2008, D.M. Dougherty)

Chair for GSBS Examining Committee, Doctoral Advisory Committee: *Proactive aggression: A two part study*

## *Medical Students*

2019–2023

2019–2020

2018–2019

2018– .

2013

Emily Mendez, UTHealth McGovern Medical School

Co-Mentor, MD/PhD program, disseration research component

NIH Diversity in Vision Research and Ophthalmology Summer Internship Program CTSA TL1 award: *In vivo and in vitro mechanisms in substance use disorder toxicity* NIH F30 application: *Molecular signatures of cocaine-induced neurotoxicity in human brain models*

Christopher Gurguis, UTHealth McGovern Medical School

*Risk factors for metabolic and cardiovascular disease in inpatients with severe mental illness*

Amber Berumen, UTHealth McGovern Medical School, Saltzberg Research Fellow *Elevated neutrophil to lymphocyte ratio (NLR) in cocaine use disorder (CUD) as a marker of chronic inflammation and accelerated aging*

Kira Gomez, UTHealth McGovern Medical School, Saltzberg Research Fellow

*Trauma, inflammation, and anhedonia in cocaine use disorder*

Co-mentor: UTHealth McGovern Medical School scholarly concentration in Neuro- science

Genevieve Holmes, M.D. UTHealth McGovern Medical School, Saltzberg Research Fellow, *Saccadic eye movement reaction times support attentional bias towards cocaine cues in cocaine dependent subjects*

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| 2011 | Courtney Olsen, M.D., Ph.D. UTHealth McGovern Medical School, Saltzberg Research Fellow, *Neural correlates and effects of A2A antagonist SYN115 on attention / response inhibition in cocaine dependent subjects* |
| 2007 | Kelley Babcock, M.D. UTHealth McGovern Medical School, Summer Research Program |
| 2007 | Charles Lewis, M.D. UTHealth McGovern Medical School, Summer Research Program |
| 2006 | Katherine Nelson, M.D. UTHealth McGovern Medical School, Summer Research Program |

# COLLABORATIVE SCIENTIFIC VENTURES

2021–2023

2021–2022

2019–2020

2014–2018

2012-2017

2013-2015

2009-2013

2008-2010

2004-2008

Holmusk, Inc. (C. Meister, S.H. Kollins, S. Luniya) Data science partnership in behavioral health

UTHealth McGovern Medical School, Dept. of Neurology (A.Z. Sharrief, S.I Savitz) Risk factors and outcomes in cocaine-related stroke

Perkins & Will (E. Edelstein)

Environmental factors influencing agitation, sleep, and adverse events in mental and behavioral health settings

University of Texas Medical Branch–Galveston (K.A. Cunningham, K.T. Dineley) Role of PPAR-gamma and brain circuit alterations in cocaine abuse

Mount Sinai School of Medicine (N. Klein, G. Gan) Genes, brain, and behavior in human aggression

Virginia Commonwealth University (F.G. Moeller, J.L. Steinberg) Impulsivity and trauma in substance use disorders

Duke University (S.H. Kollins, F.J. McClernon) Methylphenidate, ADHD, and nicotine dependence

Baylor College of Medicine (T.R. Kosten, T. Newton)

Neural correlates of stimulant administration on impulse control in cocaine dependence

University of California–San Diego (M.P. Paulus) Neurobiology of risky decision making and impulsivity

# GRANT SUPPORT

## *Current*

2023-2024

2021–2024

2020–2024

2022–2024

2022–2023

2019–2024

2015– .

*Development of suvorexant for the treatment of Alcohol Use Disorder and Post-traumatic Stress Disorder*

Principle Investigator (MPI, L. Ray)

CDMRP: PASA, Department of Defense W81XWH2220081/2-312-0218812

$100,512

*Assessment of pioglitazone to address stress reactivity and Alcohol Use Disorder*

Co-Investigator (PI, J.H. Yoon) NIH/NIAAA R21 AA 027273

$138,000 direct / year

*Efficacy of pioglitazone as a relapse prevention medication for cocaine addiction*

Principal Investigator (MPI, J.M. Schmitz) NIH/NIDA R01 DA 048026

$449,000 direct / year

*Holmusk NeuroBlu platform on psychiatry data collaboration*

Principal Investigator, (contract Co-I, J.C. Soares) Holmusk Technologies

AGT004309

$250,000

*Identifying biomarkers of opioid misuse risk in trauma patients* Principal Investigator (MPI, C. Walss-Bass, J.A. Harvin, J.M. Schmitz) UTHealth McGovern Medical School (Surgery)

$50,000

*CTSA Non-medical opioid use core*

Co-Investigator, CTSA sub-award

Parent Grant: Clinical and Translational Science Award: CTSA/CCTS (D.D. McPherson and D. Karp, PIs)

NIH NCATS UL1 TR003167

$5,636,426 / year

*Center for outcome study and program evaluation in mental health*

Principle Investigator, UT System Institutional Endowment

$1,548,000 (*≈* $75,000 annual)

## *Pending*

2024–2029

*Comparative effectiveness trial of sleep promotion vs. disruption in high suicide risk*

Co-Investigator (PI, M.A. Patriquin) PCORI

$1,084,070

2024–2026

*Identifying miRNA signatures of opioid misuse risk in trauma patients* Co-Investigator (PI, C. Walss-Bass)

Wellcome Leap

$500,000

## *Past*

2020–2022

2019–2021

2019–2021

2016–2017

2016–2018

2013–2016

2013–2016

2010–2016

2010–2016

2011–2013

2008–2013

*In vitro and in vivo evidence of neurotoxicity in substance abuse*

Principal Investigator (Co-PI, C. Walss-Bass) The McManus Charitable Trust

$50,000

*Effects of cocaine abstinence on EEG gamma/theta power in response to neutral and cocaine cues*

Co-Investigator and Mentor (H. Soder, PI)

UTHealth Psychiatry & Behavioral Sciences Seed Grant

$20,000

*Suvorexant treatment to reduce relapse risk symptoms during cigarette smoking with- drawal: a double-blind, placebo-controlled study*

Co-Investigator and Mentor (R. Suchting, PI) UTHealth Psychiatry & Behavioral Sciences Seed Grant

$20,000

*Role of the orexin receptor system at the nexus of stress, sleep and drug abuse*

Principal Investigator, The McManus Charitable Trust

$50,000

*McGovern Research Scholar Endowment*

Principal Investigator, UTHealth

$100,000

*Buspirone, stress, and attentional bias to marijuana cues*

Principle Investigator, NIH/NIDA R21 DA 034825

$150,000 / year

*Cognitive-enhancing DA medications for cocaine dependence*

Principle Investigator (Co-PI, J.M. Schmitz), NIH/NIDA R01 DA 030787

$300,000 / year

*Psychopharmacology of novel medications for cocaine dependence*

Principle Investigator, NIH/NIDA Project P50 DA 009262 (J.M. Schmitz, P50 PI)

$120,000 / year

*Substance abuse research: Medications development center*

Co-Investigator, NIH/NIDA P50 DA 009262

$1,386,640 / year

*Novel biomarkers and therapeutics in addictions and impulse control disorders*

Co-Investigator (PI: K.A. Cunningham), CRR/NIH 1UL1RR029876

$150,000 / year

*Neural correlates of alcohol effects on aggressive behavior*

Principal Investigator, NIH/NIAAA R01 AA 016965

$200,000 / year

2011–2012

2007–2012

2006–2012

2007–2009

2007–2009

2005–2007

2002–2007

2000–2006

1998–2003

1997–2002

1997–1998

*Impact of minocycline on cognitive symptoms in early-course schizophrenia*

Co-Investigator (PI, M. Shad), Stanley Medical Research Institute

$287,200 / year

*Contingency management plus levodopa/carbidopa for treatment of cocaine dependence*

Co-Investigator (PI, J.M. Schmitz), NIH/NIDA R01 DA 023608

$250,000 / year

*Drugs of abuse and aggressive behavior*

Principal Investigator, NIH/NIDA R01 DA 003166

$175,000 / year

*Adenosine receptor antagonists in cocaine dependence: caffeine and paraxanthine*

Principal Investigator, NIH/NIDA Project P50 DA 009262 (F.G. Moeller, P50 PI)

$150,000 / year

*PharmacoMRI, impulse control, and cue reactivity in cocaine dependence*

Co-Investigator, sub-award NIH/NIDA P50 DA 019197 (T.R. Kosten, P50 PI)

$150,000 / year

*Effects of chronic administration of atomoxetine (Strattera) on aggressive and impulsive behavior of adult human volunteers with a history of conduct disorder*

Principal Investigator, Lilly Research Laboratories, Eli Lilly Co.

$67,605 / year

*Mechanisms in risk taking: Disinhibitory drugs of abuse*

Principal Investigator, NIH/NIDA R01 DA 015392

$125,000 / year

*Marijuana effects on basic behavioral mechanisms*

Principal Investigator, NIH/NIDA R01 DA 012968

$125,000 / year

*Altering behavioral risk for drug dependence*

Co-Investigator (PI: D.R. Cherek), NIH/NIDA R01 DA 010552

$138,796 / year

*Behavioral mechanisms in high risk populations*

Co-Investigator (PI: D.R. Cherek), NIH/NIDA R01 DA 010592

$104,750 / year

*Effects of marijuana on maladaptive behavior patterns*

Principal Investigator, NIH/NIDA F32 DA 005774

$50,000 / year

# PUBLICATIONS

**Metrics**

H-Index = 50

M-index = 1.85

Google Scholar i10 index = 134 N = 186

## *Peer Reviewed Original Journal Publications*

Schmitz, J. M., Stotts, A. L., Vujanovic, A. A., Yoon, J. H., Webber, H. E., Lane, S. D., Weaver, M. F., Vincent, J., Suchting, R., and Green, C. E. (2024). Contingency management plus acceptance and commitment therapy for initial cocaine abstinence: Results of a sequential multiple assignment randomized trial (SMART). *Drug and Alcohol Dependence:* 256, 111078. doi: https://doi.org/10.1016/j.drugalcdep. 2023.111078.

Webber, H. E., Dios, C. de, Kessler, D. A., Schmitz, J. M., Lane, S. D., and Suchting, R. (2024). A meta- analysis of electrophysiological biomarkers of reward and error monitoring in substance misuse. *Psy- chophysiology* 61, e14515. doi: doi:10.1111/psyp.14515.

De Dios, C., Suchting, R., Green, C. E., Klugh, J. M., Harvin, J. A., Webber, H. E., Schmitz, J. M., Lane,

S. D., Yoon, J. H., Heads, A. M., Motley, K., and Stotts, A. L. (2023). An opioid-minimizing multimodal pain regimen reduces opioid exposure and pain in trauma injured patients at high risk for opioid misuse: Secondary analysis from the MAST trial. *Surgery:* 174, 1463–1470. doi: https://doi.org/10.1016/j. surg.2023.09.011.

Jones, G. H., Lane, S. D., Zarate Jr, C. A., Soares, J. C., and Machado-Vieira, R. (2023). A randomized, double-blind, placebo-controlled pilot trial of the acute anti-suicidal and antidepressant effects of intranasal (R,S)-ketamine in severe unipolar and bipolar depression with and without comorbid Alcohol Use Disorder. *Journal of Clinical Psychiatry*. doi: [#](https://doi.org/).

Kessler, D. A., Webber, H. E., De Dios, C., Yoon, J. H., Schmitz, J. M., Lane, S. D., Harvin, J.A., Heads,

A. M., Green, C. E., Kapoor, S., Stotts, A. L., Motley, K., and Suchting, R. (2023). Opioid Risk Tool, hospital morphine milligram equivalents, and opioid demand predict post-traumatic injury hospitalization pain and stress. *Journal of Studies on Alcohol and Drugs:* in review. doi: [#](https://doi.org/).

Kim, Y., Krause, T. M., and Lane, S. D. (2023). Trends and seasonality of emergency visits and hospitalizations for suicidality among children and adolescents in the US from 2016 to 2021. *JAMA Network Open* 6, e2324183. doi: doi:10.1001/jamanetworkopen.2023.24183.

Wardle, M. C., Hoots, J. K., Miloslavich, K., Nunez, C., De Dios, C., Holden, C., Ahluwahlia, A., Green,

C. E., Lane, S. D., and Schmitz, J. M. (2023a). Deficits in consummatory reward relate to severity of cocaine use. *Drug and Alcohol Dependence* 249, 109950. doi: [0.1016/j.drugalcdep.2023.109950](https://doi.org/0.1016/j.drugalcdep.2023.109950).

Wardle, M. C., Hoots, J., Miloslavich, K., Nunez, C., Holden, C., Ahluwalia, A., Lane, S. D., and Schmitz,

J. M. (2023b). Domains of reward functioning in cocaine use disorder. *Biological Psychiatry* 93, S44–S45.

doi: https://doi.org/10.1016/j.biopsych.2023.02.125.

Yammine, L., Verrico, C. D., Versace, F., Webber, H. E., Suchting, R., Weaver, M. F., Kosten, T. R., Alibhai, H., Cinciripini, P. M., Lane, S. D., and Schmitz, J. M. (2023). Exenatide as an adjunct to nicotine patch for smoking cessation and prevention of post-cessation weight gain: Study protocol for a randomized clinical trial. *BMJ Open* 13, e072707. doi: [10.1136/bmjopen-2023-072707](https://doi.org/10.1136/bmjopen-2023-072707).

Kessler, D. A., Webber, H. E., Suchting, R., Green, C. E., Harvin, J. A., Heads, A. M., Kapoor, S., Yoon, J. H., Lane, S. D., Schmitz, J. M., and Stotts, A. L. (2022). Early pain, stress, and opioid use following traumatic injury. *Journal of Opioid Management* 18, 17–25. doi: https://doi.org/10.5055/jom.2022.0690.

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Vujanovic, A. A., Webber, H., McGrew, S. J., Green, C. E., Lane, S. D., and Schmitz, J. M. (2022a). Dis- tress tolerance: Prospective associations with cognitive-behavioral therapy outcomes in adults with posttraumatic stress and substance use disorders. *Cognitive Behaviour Therapy* 51, 326–342. doi: [10.1016/j.addbeh.2021.107211](https://doi.org/10.1016/j.addbeh.2021.107211).

Vujanovic, A. A., Webber, H., Wardle, M. C., Green, C. E., Lane, S. D., and Schmitz, J. M. (2022b). Nonjudg- mental acceptance: Associations with substance-related cue reactivity in adults with substance use disor- ders and posttraumatic stress. *Addictive Behaviors* 126, 107211. doi: [10.1016/j.addbeh.2021.107211](https://doi.org/10.1016/j.addbeh.2021.107211).

Warner, A. R., Lavagnino, L., Glazier, S. M., Hamilton, J. E., and Lane, S. D. (2022). Inpatient early intervention for serious mental illnesses is associated with fewer rehospitalizations compared to treatment as usual in a high-volume public psychiatric hospital setting. *Journal of Psychiatric Practice* 28, 24–35. doi: doi:10.1097/PRA.0000000000000596.

Webber, H. E., Dios, C. de, Kessler, D. A., Schmitz, J. M., Lane, S. D., and Suchting, R. (2022a). Late positive potential as a candidate biomarker of motivational relevance in substance use: Evidence from a meta-analysis. *Neuroscience and Biobehavioral Reviews* 141, 104836. doi: [10.1016/j.neubiorev.2022.](https://doi.org/10.1016/j.neubiorev.2022.104835) [104835](https://doi.org/10.1016/j.neubiorev.2022.104835).

Webber, H. E., Dios, C. de, Wardle, M. C., Suchting, R., Green, C. E., Schmitz, J. M., Lane, S. D., and Versace, F. (2022b). Electrophysiological responses to emotional and cocaine cues reveal individual neuroaffective profiles in cocaine users. *Experimental and Clinical Psychopharmacology* 30, 514–524. doi: doi:10.1037/pha0000450.

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De Dios, C., Suchting, R., Soder, H. E., Yoon, J. H., Yammine, L., Vincent, J., Weaver, M. F., Stotts,

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Schmitz, J. M., Lane, S. D., Weaver, M. F., Narayana, P. A., Hasan, K. A., Suchting, R., and Green, C. E. (2021a). Targeting white matter neuroprotection as a relapse prevention strategy for treatment of cocaine use disorder: Design of a mechanism-focused randomized clinical trial. *Contemporary Clinical Trials* 111, e106603. doi: [10.1016/j.cct.2021.106603](https://doi.org/10.1016/j.cct.2021.106603).

Schmitz, J. M., Suchting, R., Green, C. E., Webber, H. E., Vincent, J., Moeller, F. G., and Lane, S. D. (2021b). Effects of combination levodopa-ropinirole on cognitive improvement and treatment outcome in individuals with cocaine use disorder: A Bayesian mediation analysis. *Drug and Alcohol Dependence* 225, 108800. doi: https://doi.org/10.1016/j.drugalcdep.2021.108800.

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## *Book Chapters*

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Cherek, D. R. and Lane, S. D. (2001b). *Effects of 5–HT and GABA agents on aggressive responding of adult males with a history of childhood conduct disorder*. In: *Prevention and Control of Aggression and the Impact on Victims*. Ed. by M. Martinez. New York, NY: Kluwer Academic/Plenum.

Lane, S. D. and Cherek, D. R. (2000a). *Biological and behavioral investigation of aggression and impulsivity*. In: *The Science Treatment and Prevention of Antisocial Behavior: Applications to the Criminal Justice System*. Ed. by D. H. Fishbein. Kingston, NJ: Civic Rsearch Institute.

## *Invited Presentations*

Lane, S. D. (2022). *Building an Integrated Multi-site Behavioral Science Center*. Brazilian Congress of Psychiatry: Fortaleza, Brazil: October, 2022.

Lane, S. D. (2021). *New Directions in Pharmacotherapy for Psychostimulant Use Disorder*. Atrium Behavioral Health, Carolinas Medical Center, virtual: March, 2021.

Lane, S. D. (2020b). *The Orexin System at the Interface of Sleep and Stimulant Use Disorders*. Insomnia, Substance Use Disorders, and Alcohol Use Disorder Forum, Merck & Co., virtual: December, 2020.

Lane, S. D. (2019). *Reducing the Allostatic Load Burden of Stimulant Use Disorder: Relapse Prevention Approaches*. Merck & Co., Inc., West Point, PA. September, 2019.

Lane, S. D. (2018a). *Biobehavioral Indicators of Stress and Allostatic Load in Substance Use Disorders*.

Institute of Psychology, Chinese National Academy of Sciences, Beijing, China. September, 2018.

Lane, S. D. (2018b). *The Role Of Orexin Receptor System in Psychostimulant Use Disorder: Stress, Sleep and Drug Cue Reactivity*. Annual Meeting of the Chinese Psychiatric Association. Shenyang, China. Septmber, 2018.

Lane, S. D. (2017). *Drugs of Abuse, Stress, and Neurotoxicity*. SEARCH Homeless Service Organization, Houston, TX. March, 2017.

Lane, S. D. (2016). *Laboratory Behavior and Neuroimaging Outcomes in Pioglitazone-treated Subjects with Cocaine Use Disorder*. National Institute on Drug Abuse, Bethesda, MD. April, 2016.

Lane, S. D. (2015). *Stress, Neurotoxicity, and Cocaine*. University of Texas Medical Branch. Galveston, TX. November, 2015.

Lane, S. D. (2014). *Attentional Bias to Drug Cues: Role in Substance Abuse and Relapse*. University of Kentucky Medical School. Lexington, KY: April, 2014.

Lane, S. D. (2013a). *Cue Reactivity and Attentional Bias in Substance Use Disorders*. Duke University Medical School. Durham, NC: January 2013.

Lane, S. D. (2013b). *The Role of Cue Reactivity and Attentional Bias in Addiction*. UTHealth Psychiatry Update. Houston, TX: February, 2013.

Lane, S. D. (2012). *Neuropsychiatry of Impulsivity and Aggression in Drug-Dependent Humans*. Meeting of the Society for Social Neuroscience. New Orleans, LA: October, 2012.

Lane, S. D. (2011). *The Impact of Acute and Chronic Effects of Abused Drugs on Risky Decision Making*. Meeting of the American Psychiatric Association. NIDA-sponsored symposium, Decision-Making and Addictions: Neurobiology and Treatment Implications. Honolulu, HI: May 2011.

Lane, S. D. (2010a). *Drugs of Abuse and Risky Decision Making*. Meeting of the Association for Psychological Science. APS-sponsored symposium, Risky Behavior: A Guide to Living on the Edge. Boston, MA: May 2010.

Lane, S. D. (2010b). *Human Decision Making: Neurobiology of Acute and Chronic Effects of Abused Drugs*.

Texas A&M University, College Station, TX: October, 2010.

Lane, S. D. (2008a). *Human Aggression: Psychiatry, Psychopathology, and Psychopharmacology*. Carolina College of Health Sciences / Carolina Health Systems. Charlotte, NC: April 2008.

Lane, S. D. (2008b). *Human Aggression: Psychiatry, Psychopharmacology, and Neuroscience*. Duke University Medical School. Durham, NC: April 2008.

Lane, S. D. (2007a). *A Blunt Report: Marijuana Effects on Human Behavioral Processes*. Southeast Associa- tion for Behavior Analysis. Athens, GA: October, 2007.

Lane, S. D. (2007b). *Factors Influencing Risky Decision Making in Humans*. Fellows address, APA annual convention. San Francisco, CA: August, 2007.

Lane, S. D. (2006). *Biobehavioral Mechanisms in Risky and Social Decision Processes*. University of Arkansas Medical School. Little Rock, AR: February, 2006.

Lane, S. D. (2005). *GABAergic Modulation of Risky/Impulsive Decision Making*. Meeting of the International Society for Research on Impulsivity. Washington, DC: November, 2005.

Lane, S. D. (2004a). *Psychopharmacology of Risky Decision Making in Humans: Effects of GABA Modulators*. NIDA-sponsored symposium: Drugs of Abuse and Decision Making. APA annual convention, Honolulu, HI: July, 2004.

Lane, S. D. (2004b). *Some Effects of Marijuana on Basic Behavioral Processes in Humans*. CUNY / Queens College. New York, NY: December, 2004.

Lane, S. D. (2002a). *Human Risk Taking: Psychopathology and Psychopharmacology*. University of Colorado Health Science Center. Denver, CO: August, 2002.

Lane, S. D. (2002b). *Psychopharmacology and Maladaptive Behavior*. Distinguished Alumni Presentation, Auburn University Research Symposium. Auburn, AL: November, 2002.

Lane, S. D. (2001). *Human Risk Taking: Effects of Behavioral History and Disinhibitory Drugs of Abuse*.

Wyeth-Ayerst Young Psychopharmacologist Award Presentation. San Francisco, CA: August, 2001.

## *General Conference Presentations*

Basaldu, D., Cooper, J., Treadway, M., Schmitz, J.M., Lane, S.D., Wardle, M.C. Computational modeling of effort-based decision making in cocaine use disorder. College on Problems of Drug Dependence, Denver, CO: 2023.

Yoon, J.H., Schmitz, J.M., Stotts, A.L., Vujanovic, A.A., Webber, H., Lane, S.D., Weaver, M.F., Vincent, J., Suchting, R., Green, C.E., Dang, V., Ochiam, L. Contingency Management plus acceptance and aommitment therapy for cocaine cessation: Results of a sequential multiple assignment randomized trial (SMART). College on Problems of Drug Dependence, Denver, CO: 2023.

Calvillo, D.J., Webber, H.E., Yoon, J.H., de Dios, C. Suchting, R. Vincent, J., Dang, V., Ochaim, L. Versace, F., Green, C.E., Lane, S.D., Schmitz, J.M. The late positive potential predicts changes in drug demand over treatment for cocaine use disorder. Society for Psychophysiological Research. New Orleans, LA: 2023.

Webber, H.E., Kessler, D.A., Schmitz, J.M., Suchting, R., Lane, S.D. Resting state electroencephalogram markers of sleep quality in cocaine use disorder. College on Problems of Drug Dependence. Denver, CO: 2023.

Webber, H.E., Cavanagh, J.F., Green, C.E., Versace, F. Lane, S.D., and Schmitz, J.M. Time frequency analysis of the reward positivity in cocaine use disorder: A pilot study. Cognitive Neuroscience Society. San Francisco, CA: 2022.

Hoots, J., Holden, C., Lane, S.D., Wardle, M.C. Addiction severity and language-based temporal per- spective in cocaine use disorder. College on Problems of Drug Dependence. Minneapolis, MN: 2022.

Balderas, J., Schmitz, J.M., Lane, S.D., Suchting, R. Comparison of subjective and objetive sleep in a study of orexin antagonism for cocaine use disorder. College on Problems of Drug Dependence. Minneapo- lis, MN: 2022.

Webber, H.E., Yoon, J.H., de Dios, C., Suchting, R., Green, C.E., Lane, S.D., Vincent, J., Dang, V., Wardle, M.C., Kypriotakis, G., Versace, F., Schmitz, J.M. Brain reactivity bias toward drug versus pleasant cues is associated with drug demand in individuals with cocaine use disorder. College on Problems of Drug Dependence. Minneapolis, MN: 2022.

Nunez, C., Wardle, M.C., Yoon, J.H., Dang, V., Lane, S.D., Vincent, J., Schmitz, J.M. Self-reported anhedonia and crack cocaine demand. College on Problems of Drug Dependence. Minneapolis, MN: 2022.

Lane, S.D. The orexin system in addiction. College on Problems of Drug Dependence. Minneapolis, MN: 2022.

Schmitz, J.M., Green, C.E., Suchting, R., de Dios, C., Vincent, J.N., Lane, S.D., Moeller, F.G. Citalopram for treatment of cocaine use disorder: A Bayesian drop-the-loser randomized clinical trial. College on Problems of Drug Dependence. Virtual: 2021.

Cohen, A., Jeong, J., Hinojosa, E., Schmitz, J.M., Spellman, M., Lane, S.D., Stotts, A.M., Walss-Bass, C., de Dios, C., Savitz, S.I., Sharrief, A. Assessing illicit drug use in the follow-up care of stroke survivors. College on Problems of Drug Dependence. Virtual: 2021.

Webber, H.E., Kessler, D., Lathan, E., Wardel, M.C., Greeen, C.E., Schmitz, J.M., Lane, S.D., Ver- sace, F., Vujanovic, A.A. Post-Traumatic Stress Disorder symptom clusters are differentially associated with brain reactivity to cocaine cues. College on Problems of Drug Dependence. Virtual: 2021.

Webber, H.E., de Dios, C., \*Kessler, D.A., Lane, S.D., Schmitz, J.M., Suchting, R. Error and reward processing in substance use disorders: Evidence from a meta-analysis on event-related potentials. Poster presentation at the annual meeting of the Society for Psychophysiological Research. Virtual: 2021.

Hoots, J., Yoon, J.H., Lane, S.D., Schmitz, J.M., Wardle, M.C. Now or later? Depression, anhedo- nia, and decision-making in cocaine use disorder. College on Problems of Drug Dependence. Virtual: 2021.

Kessler, D.A., Schmitz, J.M., Lane, S.D, Green, C., Versace, F., Soder, H.E. (2020, October). Post- Traumatic Stress symptoms predict late positive potential response in cocaine use disorder. Society for Psychophysiological Research. Virtual: 2020.

Soder, H.E., Kessler, D.A., McKay, S.A., Wardle, M.C., Suchting, R., de Dios, C, Green, C.E., Lane, S.D., Schmitz, Versace, F. (2020, October). Individual neuroaffective profiles in cocaine use disorder. Society for Psychophysiological Research. Virtual: 2020.

Suchting, R., Green, C.E., Soder, H.E., Vincent, J.N., Moeller, F.G., Lane, S.D., Schmitz, J.M. Combining dopamine agents to enhance cognition and reduce cocaine use: A randomized clinical trial of levodopa and ropinirole. College on Problems of Drug Dependence. Hollywood, FL: 2020.

Smith, L. J., Green, C., Lane, S. D., Schmitz, J. M. Vujanovic, A. A. (2020, June). Sleep disturbance as a predictor of cognitive-behavioral therapy outcomes in inner-city adults with posttraumatic stress and substance use disorders. College on Problems of Drug Dependence Meeting, Hollywood, FL: 2020.

Wardle, M.C., Soder, H.E., Lopez-Gamundi, P., Cooper, J.A., Lane, S.D., Treadway, M.T. Effects of amphetamine on motivation for reward in human workers vs. slackers. American College of Neuropsy- chopharmacology. Orlando, FL: December, 2019.

Suchting, R., Yoon, J.H., San Miguel, G., Vincent, J.N., Wardle, M.C., Heads, A.M., Weaver, M.F., Green, C.E., Schmitz, J.M., Lane, S.D. The orexin system in the attenuation of relapse-related mechanisms in cocaine use disorder. College on Problems of Drug Dependence. San Antonio, TX: June, 2019.

Soder, H.E., Schmitz, J.M., Green, C.E., Versace, F., Lane, S.D. The late positive potential (LPP) as a marker of motivated attention in cocaine use disorder (CUD). College on Problems of Drug Dependence. San Antonio, TX: June, 2019.

Berumen, A., Gomez, K., Wardle, M.C., Suchting, R., Soder, H.E., Vincent, J.N., Yoon, J.H., Heads, A.M., Weaver, M.F., Green, C.E., Schmitz, J.M., Lane, S.D. Elevated neutrophil to lymphocyte ratio (NLR) in cocaine use disorder as a marker of chronic inflammation. College on Problems of Drug Dependence. San Antonio, TX: June, 2019.

Heads, A.M., Kapoor, S., Schmitz, J.M., Green, C.E., Stotts, A.L., Lane, S.D., Yoon, J.H., Harvin,

J.A. Continued opioid use and risk for misuse in a sample of post-injury surgical patients. College on Problems of Drug Dependence. San Antonio, TX: June, 2019.

Kapoor, S. Schmitz, J.M., Heads, A.M., Green, C.E., Stotts, A.L., Lane, S.D., Harvin, J.A. Opioid misuse risk assessment in patients undergoing surgery following traumatic injury. College on Problems of Drug Dependence. San Antonio, TX: June, 2019.

Yoon, J.H., Schmitz, J.S., Lane, S.D., San Miguel, G., Jensen, S., Vincent, J.N., Vujanovic, A.A., Stotts, A.L., Weaver, M.F., Suchting, R. The relative contribution of behavioral economic measures in predicting cocaine severity and treatment response. College on Problems of Drug Dependence. San Antonio, TX: June, 2019.

Hernandez S.K., Beasley S., Salem H., Ruiz A.C., Taing M.L., Allen M., Lane S.D., Pigott, T.A. Specifying the âĂŸNot Otherwise Specified.âĂŹ The ability of screening tools to differentiate bipolar subgroups in an inpatient population. American Psychiatric Association Annual Meeting. Chicago: IL, 2019.

Berumen, A., Gomez, K., Green, C.E., Wardle, C.M., Schmitz, J.M., Lane, S.D. Elevated neutrophil to lymphocyte ratio (NLR) in cocaine use disorder (CUD) as a marker of chronic inflammation and acceler- ated aging. International Society for Affective Disorders. Houston, TX: September, 2018.

Gomez, K., Berumen, A., Green, C.E. Lane, S.D., Schmitz, J.M., Wardle, C.M. Trauma, inflamma- tion, and anhedonia in cocaine use disorder. International Society for Affective Disorders. Houston, TX: September, 2018.

Hamilton, J.E., Lokesh, R.S., Bernstam, E.V., Allen, M.K., Lane, S.D., Selek, S. Higher Prevalence of Cocaine Abuse Among HIV Infected Inpatients in a Psychiatric Hospital. International Society for Affective Disorders. Houston, TX: September, 2018.

Wardle, M.C., Suchting, R., Vincent, J., Lane, S.D., Schmitz, J.M. Anhedonic symptoms of depression are related to cocaine use severity: A machine learning approach. College on Problems of Drug Dependence. San Diego, CA: June, 2018.

Stamatovich, S., Stertz, L., Walss-Bass, C., Lane, S.D., Green, C.E., Schmitz, J.M., Wardle, M.C. Immune functioning markers relate to cognitive abilities in individuals with cocaine use disorder. College on Problems of Drug Dependence. San Diego, CA: June, 2018.

Da Costa, S.C., Teixeira, A.L., Diniz, B.S., Lane, S.D. Psychiatric and non-psychiatric implications of substance use disorders in older adults. American Society for Clinical Psychopharmacology. Miami, FL: May, 2018.

Smith, L. J., Bartlett, B. A., Green, C. E., Lane, S. D., Schmitz, J. M., Vujanovic, A. A. Mindful- ness as predictor of cognitive-behavioral therapy outcomes in inner-city adults with posttraumatic stress and substance dependence. Anxiety and Depression Association of America Convention, Washington, D.C: April, 2018.

Khan, S., Fries, G.R., Dyukova, E., Walss-Bass, C., Lane, S.D., Schmitz, J.M., Wardle, M.C. Gene expression changes associated with anhedonia in cocaine use disorder. American College of Neuropsychophar- macology. Palm Springs, CA: December, 2017.

Yoon, J.H., Haliwa, I., Vincent, J., Suchting, R., Schmitz, J.L., Lane, S.D. Eye-tracking-based mea- sures of inhibitory control and attentional bias in marijuana SUD and control subjects. College on Problems of Drug Dependence. Montreal, Canada: June, 2017.

Da Costa, S.C., Teixeira, A.L., Diniz, B.S., Lane, S.D. The impact of substance use disorders late in life. Society on Biological Psychiatry. San Diego, CA: May, 2017.

Da Costa, S.C., Lane, S.D. The impact of cocaine use disorders in cognitive functioning late in life. American Psychiatric Association Annual Meeting. San Diego, CA: May, 2017.

Khan, S., Fries, G., Dyukova, E., Walss-Bass, C., Lane, S.D., Schmitz, J.M., Wardle, M.C. Prelimi- nary assessment of inflammatory gene expression in individuals with cocaine use disorder and anhedonia. American College of Neuropsychopharmacology. Hollywood, FL: Dec, 2016.

Moeller, F.G., Ma, L., Steinberg, J.L., Bjork, J., Lane, S.D., Narayana, P.A., Kosten, T.R., Schmitz, J.M., Price, A.E., Cunningham, K.A. Effective connectivity of attentional bias in cocaine dependence. College on Problems of Drug Dependence. Palm Springs, CA: June, 2016.

Dimet, A., Denner, L., Miller, R., Cunningham, K.A., Huentelman, M., Lane, S.D., Dineley, K. PPARÎş agonism to treat white matter damage in cocaine use disorder. College on Problems of Drug Dependence. Palm Springs, CA: June, 2016.

Lane, S.D., Hasan, K.M., Mwangi, B., Narayana, P.A., Vincent, J., Moeller, F.G., Steinberg, J.L., Dineley, K., Cunninghman, K.A., Schmitz, J.M. Changes in brain white matter integrity after PPAR-gamma agonist treatment for cocaine use disorder. College on Problems of Drug Dependence. Palm Springs, CA: June, 2016.

Jalnapurkar, I., Pratikkumar, D., Sullivan, Z., AbdelGawad, N., Douglas, R., Engstrom, A., Kazimi, I., Lane, S.D., Pigott, T.A. The burden of pediatric psychiatric illness: A family perspective. American Psychiatric Association Annual Meeting. Atlanta, GA: May, 2016.

Parsaik, A.K., Abdel-Gawad, N., Chotalia, J., Lane, S.D., Pigott, T.A. Early life trauma in hospital- ized mood disorder patients and its association with clinical outcomes. American Psychiatric Association Annual Meeting. Atlanta, GA: May, 2016.

Gan G., Preston-Campbell R.N., Steinberg J.L., Lane S.D., Maloney T., Parvaz M.A., Moeller S.J., Goldstein R.Z., Alia-Klein N. Reward wins âĂŞ increased activation of the mesocorticostriatal salience network in human reactive aggression. Society for Neuroscience Annual Meeting. Chicago, IL: October 2015.

Yoon, J.H., Vujanovic, A.A., Suchting, R., Green, C.E., Schmitz, J.M., Lane. S.D. Eye tracking measures of attentional bias to individually-calibrated marijuana cues. College on Problems of Drug Dependence. Phoenix, AZ: June, 2015.

Tannu, N.S., Schmitz, J. Lane, S.D., Green, C.E., Cunningham, K.A., Suchting, R., Herrera, J., Narayana,

P.A. Proteomics analyses: Peroxisome proliferator-activated receptor gamma agonist for chronic cocaine administration in rodent. College on Problems of Drug Dependence. Phoenix, AZ: June, 2015.

Price, A.E., Neelakantan, H., Ma, L., Steinberg, J.L., Lane, S.D., Bjork, J.M.,Narayana, P.A., Kosten, T.R., Bechara, A., Anastasio, N.C., Moeller, F.G.,Cunningham, K.A. Dynamic causal modeling in humans offers a novel approach to delineate prefrontal-striatal serotonergic drivers of impulsivity in rats. College on Problems of Drug Dependence. Phoenix, AZ: June, 2015.

Ma, L., Steinberg, J.L.,Cunningham, K.A., Lane, S.D.,Bjork, J.M., Narayana, P.A., Kosten, T.R., Bechara, A., Moeller, F.G. Inhibitory control: A brain connectivity study comparing cocaine-dependent subjects and controls. College on Problems of Drug Dependence. Phoenix, AZ: June, 2015.

Gan G., Preston-Campbell R.N., Steinberg J.L., Lane S.D., Maloney T., Parvaz M.A., Moeller S.J., Goldstein R.Z., Alia-Klein N. Reward versus retaliation and the hyperactive mesocorticostriatal salience network. Friedman Brain Institute Symposium. New York, NY: May, 2015.

Tannu, N.S., Schmitz, J.M., Lane, S.D., Hasan, K.M., Narayana, P.A. Proteomics and DTI tractog- raphy analyses for evaluation of PPAR-gamma agonist treatment for cocaine dependence. Society of Biological Psychiatry Meeting. New York, NY: May, 2014.

Kose, S., Steinberg, J.L., Moeller, F.G., Gowin, J.L., Zuniga, E., Kamdar Z.N., Schmitz, J.M. Lane,

S.D. Neural Correlates of Impulsive Aggressive Behavior in Alcohol Dependent Subjects. American Psychi- atric Association Meeting. New York, NY: May, 2014.

Alcorn, J.L., Dias, N.R., Schmitz, J.M., Lane, S.D. Oxytocin effects on human aggressive responding in males. International Society for Research on Aggression. Atlanta, GA: July, 2014.

Dias, N.R., Red, S. Alcorn, J.L., Sereno, A.B., Schmitz, J.M., Lane, S.D. Eye-tracking measures of attentional bias in cocaine-dependent subjects. Cognitive Neuroscience Society. Boston, MA: April, 2014.

Rathnayaka, N., Suchting, R., Lane, SD., Schmitz, J., Green, C, Posterior predictive power: a decision- making tool for clinical trial design. College on Problems of Drug Dependence. San Juan, Puerto Rico: June, 2014.

Lane, S.D., Schmitz, J.M., Green, C.E., Moeller, F.G. Behavioral effects of buspirone in cocaine de- pendence. NIDA meeting of the Centers of Excellence in Substance Abuse and Dependence. Bethesda, MD: September, 2013.

Alcorn, J.L., Dias, N., Moeller, F.G., Lane, S.D. A preliminary analysis of aggressive behavior under oxytocin dose. College on Problems of Drug Dependence. San Diego, CA: June, 2013.

Dias, N., Schmitz, J.M., Rathnayaka, N., Moeller, F.G., Lane, S.D. Eye-tracking measures of atten- tional bias in cocaine-dependent subjects. College on Problems of Drug Dependence. San Diego, CA: June, 2013.

Schmitz, J.M., Lane, S.D., Moeller, F.G., Rathnayaka, N., Green, C.E. Drop-the-loser: an innovative design for a clinical trial of citalopram for cocaine dependence. College on Problems of Drug Dependence. San Diego, CA: June, 2013.

Lui, S., Nielsen, D.A., Lane, S.D., Schmitz, J.M., Baladandayuthapani, K., Cunningham, K.C., Moeller,

F.G. Cocaine dependence moderates the relationship between serotonin transporter polymorphisms and measures of impulsivity. College on Problems of Drug Dependence. San Diego, CA: June, 2013.

Red, S. Dias, N.R., Lane, S.D., Sereno, A.B. Reflexive and voluntary eye movements in cocaine us- ing subjects. Gordon Research Conferences. Easton, MA: July 2013.

Ma, L., Steinberg, J.L., Lane, S.D., Schmitz, J.M., Green, C.E., Narayana, P.A., Kramer, L.A., Moeller,

F.G. Striatal gating effect and prediction of treatment response in cocaine dependence. College on Problems of Drug Dependence. San Diego, CA: June, 2013.

Alcorn, J.A., Dias, N., Moeller, F.G., Lane, S.D. Preliminary analysis of aggressive behavior follow- ing oxytocin dosing. Society for Cognitive Neuroscience. San Francisco, CA: April, 2013.

Hasan K.M., MA L., Kramer, L.A., Lane S.D., Steinberg J.L., Narayana P.A., Moeller F.G. Markers of the neurobiology of cocaine addiction. International Society for Magnetic Resonance in Medicine. Salt Lake City, UT: April, 2013.

Dias, N., Lane, S.D., Schmitz, J.S., Green, C.E., Moeller, F.G. Neurocognitive effects of citalopram in cocaine dependent subjects. Society for Neuroscience. New Orleans, LA: October, 2012.

Lane, S.D., Moeller, F.G., Steinberg, J.L., Ma, L., Kosten, T.R., Narayana, P.A. Effects of d-amphetamine on brain activation of cocaine- dependent subjects during a go/no-go task of inhibitory control. College on Problems of Drug Dependence. Palm Springs, FL: June, 2012.

Liu, S., Lane, S.D., Schmitz, J.M., Cunningham, K.A., Moeller, F.G. Effects of escitalopram on at- tential bias to cocaine cues in cocaine dependent subjects. College on Problems of Drug Dependence. Palm Springs, FL: June, 2012.

Moeller, F.G., Steinberg, J.L., Lane, S.D., Ma, L., Kramer, L.A., Narayana, P.A., Kosten, T.R. Ef- fect of Dopamine Enhancing Medications on Go/No-Go fMRI Brain Activation in Cocaine Dependence. Society of Biological Psychiatry. Philadelphia, PA: May, 2012.

Moeller, F.G., Steinberg, J.L., Lane, S.D., Ma, L., Kosten, T.R., Narayana, P.A. Pharmacological MRI of D-amphetamine: Effects on a Go-No/Go Task in Cocaine Dependent Subjects. American College of Neuropsychopharmacology. Waikaloa Beach, HI: December, 2011.

Gowin, J.L., Green, C.E., Moeller, F.G., Lane, S.D. Effects of child abuse on adult aggression: corti- sol as mechanism. Society for Neuroscience. Washington, DC: November, 2011.

Robinson, C.D., Lane, S.D., Moeller, F.G., Schmitz, J.L., Waters, A.J. Individuals with high atten- tional bias for cocaine cues and blunted motivation for non-drug rewards may be at risk for long term cocaine use. College on Problems of Drug Dependence. Hollywood, FL: June, 2011.

Liu, S., Lane, S.D., Schmitz, J.M., Cunningham, K.A., Moeller, F.G. Relationship between extinction of attentional bias to cocaine-related stimuli and the severity of cocaine dependence. College on Problems of Drug Dependence. Hollywood, FL: June, 2011.

Green, C.E., Schmitz, J.M., Linsay, J., Pedroza, C., Lane, S.D., Kjome, K.M., Moeller, F.G. Heterogeneity in treatment response for cocaine dependence: A Bayesian sub-group analysis incorporating historical data.

College on Problems of Drug Dependence. Hollywood, FL: June, 2011.

Gowin, J.L., Moeller, F.G., Swann, A.C., Lane, S.D. The effects of childhood abuse on adult aggres- sion: Cortisol as a mechanism. Behavior, Biology, and Chemistry: Translational Research in Addiction. San Antonio, TX. March, 2011.

Alcorn, J.L., Lane, S.D., Moeller, F.G, Swann, A.C. Behavioral and neurophysiological predictors of psychopathology and aggression. Behavior, Biology, and Chemistry: Translational Research in Addiction. San Antonio, TX. March, 2011.

Kjome, K.L., Moeller, F.G., Steinberg, J.L., Bandak, S.D., Lane, S.D., Ma, L., Rathnayaka, N., Kramer, L.A., Narayana, P.A. Physiological and Behavioral effects of SYN-115, a novel adenosine2A antagonist in cocaine dependent subjects. American College of Neuropsychopharmacology. December 2010: Miami Beach, FL.

Lane, S.D., Steinberg, J.L., Ma, L., Rathnayaka, N., Zuniga, E., Moeller, F.G. Neural correlates of human aggression in alcohol- dependent and control subjects. American College of Neuropsychopharmacol- ogy. December 2010: Miami Beach, FL.

Gowin, J.L., Swann, A.C., Moeller, F.G., Lane, S.D. Zolmitriptan, a 5-HT1B/D agonist, reduces hu- man aggression. Society for Neuroscience. November 2010: San Diego, CA.

Wittmann, M., Simmons, A.N., Flagan, T., Lane, S.D., Wackermann, J., Paulus, M.P. Time and im- pulsivity: Neural substrates of time perception and impulsivity. Society for Neuroscience. November 2010: San Diego, CA.

Liu, S., Lane, S.D., Schmitz, J.M., Green, C.E., Cunningham, K.A., Moeller, F.G. Increased Intra-Individual Reaction Time Variability in Cocaine-Dependent Subjects on Performance of a Cocaine-Word Stroop Task. Society for Neuroscience. November 2010: San Diego, CA.

Wittmann, M., Simmons, A.N., Flagan, T., Lane, S.D., Wackermann, J., Paulus, M.P. Neural substrates of duration reproduction and impulsivity. International Organization of Psychophysiology. July 2010: Budapest, Hungary.

Liu, S., Lane, S.D., Schmitz, J.M., Waters, A.J., Cunningham, K.A., Moeller, F.G. Extinction of at- tentional bias to cocaine-related stimuli: Difference between non-treatment seeking and treatment-seeking cocaine-dependent subjects. College on Problems of Drug Dependence. Scottsdale, AZ: June, 2010.

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Innis, I., Lane, S.D., Critchfield, T.S. Stimulus equivalence: Performance on emergent relations test- ing with âĂĲnone of the aboveâĂİ as a response option. Meeting of the Association for Behavior Analysis. May, 1996: San Francisco, CA.

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Schlund, M.S., Lane, S.D., Sevin, B.M. Human self-reports about oddity matching-to-sample under relative time pressure: Differential control by response speed and response accuracy. Meeting of the Association for

Behavior Analysis. May, 1993: Chicago, IL.

Critchfield, T.S., Lane, S.D., Pargeon, J. Self-reports of matching-to-sample success: Bias, sensitivity, and base rates of target-response reinforcement. Meeting of the Association for Behavior Analysis. May, 1992: San Francisco, CA.