

# CURRICULUM VITAE

*Christie D. Fowler, PhD*

---

1232 McGaugh Hall  
Department of Neurobiology and Behavior  
University of California, Irvine  
Irvine, CA 92697-4550  
Tel: 949-824-8363  
Cell: 480-302-1379

Email: [cdfowler@uci.edu](mailto:cdfowler@uci.edu)

Website: <http://faculty.sites.uci.edu/fowlerlab/>

---

## **ACADEMIC APPOINTMENTS:**

- 6/02-5/03: Instructor, Department of Psychology/Program in Neuroscience, Florida State University, Tallahassee, FL
- 8/06-12/07: Adjunct Faculty, Department of Psychology, Indian River State College, Fort Pierce, FL
- 8/06-5/10: Affiliated Faculty of Psychology, Wilkes Honors College, Florida Atlantic University, Jupiter, FL
- 4/14-3/20: Assistant Professor, Department of Neurobiology and Behavior, University of California Irvine, Irvine, CA
- 3/20-present: Associate Professor with Tenure, Department of Neurobiology and Behavior, University of California Irvine, Irvine, CA
- 7/20-present: Director, Interdepartmental Neuroscience Program, University of California Irvine, Irvine, CA

## **POSTDOCTORAL EXPERIENCE:**

- 9/04-10/05: Postdoctoral Research Fellow, Laboratory of Dr. Bruce Trapp, Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH
- 1/08-6/12: Research Associate, Laboratory of Dr. Paul Kenny, Molecular Therapeutics, The Scripps Research Institute, Jupiter, FL
- 6/12-3/14: Staff Scientist, Laboratory of Dr. Paul Kenny, Molecular Therapeutics, The Scripps Research Institute, Jupiter, FL

## **EDUCATION:**

- 9/95-5/98: BA, *summa cum laude*, Dept. of Psychology, Baldwin-Wallace College, Berea, OH
- 8/99-4/01: MS, Department of Psychology, Florida State University, Tallahassee, FL
- 8/99-8/04: PhD, Laboratory of Dr. Zuoxin Wang, Program in Neuroscience, Florida State University, Tallahassee, FL  
*Minor: College Teaching, Department of Educational Leadership and Policy Studies*

## **RESEARCH FUNDING SUPPORT:**

### ***Ongoing Research Support***

07/2022-06/2027

NIH/NIDA U01 DA053826

*Dynamic epigenomic landscape of opioid abuse following early-life adversity*

The goal of this study is to examine the impact of heroin self-administration and relapse-related behaviors on changes in genetic and epigenetic signaling in specific brain regions, cerebrospinal fluid and blood.

Role: MPI

07/2022-6/2025

TRDRP-T32IR4866 Tobacco-Related Disease Research Program (TRDRP)  
*Cannabidiol as a therapeutic approach for tobacco and nicotine cessation*

The goal of this study is to examine whether cannabidiol has therapeutic potential to attenuate nicotine reinforcement and minimize withdrawal symptoms and relapse behavior.  
Role: PI

07/2020-6/2023

TRDRP-T31IR1767 Tobacco-Related Disease Research Program (TRDRP)

*Long-term Effects of Adolescent E-Cigarette Vapor on Drug Intake and Therapeutic Response*

The goal of this study is to examine the harmful effects of vaporized nicotine and THC on adolescent brain development and later responsiveness to pharmacotherapeutics.

Role: MPI

06/2020-04/2025

NIH/NIDA R01 DA051831

*Impact of THC on Extracellular Vesicle Signaling*

The goal of this study is to define the effects of THC and nicotine/THC co-use on circulating extracellular vesicles and their RNA cargo, which are released from dopaminergic neurons in the brain.

Role: PI

09/30/2020-09/29/2021 (NCE 09/2022)

NIH/NIDA U18 DA052416

*Development of GPR3 probes as a novel target for nicotine cessation*

This aim of this study is to develop and validate novel agonist probes for GPR3, an orphan G-protein coupled receptor expressed in addiction-related brain regions.

Role: Co-I

09/2019-08/2021 (NCE 08/2022)

TRDRP-T30IP-0931 Tobacco-Related Disease Research Program (TRDRP)

*Nicotinic Receptor Modulators in Nicotine Dependence*

The goal of this study is to examine the role of the nicotinic acetylcholine receptor endogenous allosteric modulators, Lynx1 and Lynx2, on nicotine self-administration.

Role: PI

01/2022-12/2022

NIH/FDA R13 FD007549 FDA Support for Conferences and Scientific Meetings

SRNT 2022 Annual Meeting

This funding will support the Society for Research on Nicotine and Tobacco (SRNT) annual meeting in March of 2022.

Role: MPI

### **Completed Research Support**

01/2021-12/2021

NIH/FDA R13 FD007301 FDA Support for Conferences and Scientific Meetings

SRNT 2021 Annual Meeting

This funding supported part of the Society for Research on Nicotine and Tobacco (SRNT) annual meeting in February of 2021.

Role: MPI

07/2015-06/2020

NIH/NIDA DP1 DA039658 NIDA Avenir Award for Genetics or Epigenetics of Substance Abuse (DP1/DP2)

*Circulating miRNAs and Epigenetic Regulation in Nicotine Addiction*

The goal of this study is to examine whether extracellular miRNAs derived from the choroid plexus integrate into habenular neurons and thereby regulate gene expression to influence nicotine reinforcement and aversion.

Role: PI

09/2019-06/2020

NIH/NIDA Pilot Project, Parent Grant P50DA044118

*Sex-Dependent Effects of THC on NCAM1 Extracellular Vesicles During Adolescence*

The goal of this study is to examine whether extracellular vesicles containing NCAM1 are released in response to THC administration in male and female adolescent rodents.

Role: PI for pilot project (Parent Grant PI: Daniele Piomelli)

08/2017-07/2019

TRDRP-26IP-0043 Tobacco-Related Disease Research Program (TRDRP) High Impact Pilot Research Award

*Adolescent Nicotine and Cannabinoid Exposure on Nicotine Dependence*

The goal of this study is to examine whether adolescent exposure to nicotine, a cannabinoid receptor agonist, or co-exposure alters later drug reinforcement and related behaviors.

Role: PI

07/2017-06/2018

University of California Smoke and Tobacco Free Fellowship

*Adolescent Cannabinoid and Nicotine Exposure: Research Investigations and Community Impact*

This fellowship provides support for an undergraduate student in the laboratory, Anna Pushkin, to conduct research and perform campus-wide outreach efforts to educate the community about the deleterious effects of tobacco and e-cigarettes.

Role: Faculty Mentor

06/2012-07/2017

NIH-1K99DA032543 NIH Pathway to Independence Award (K99/R00)

*The Habenulo-Interpeduncular Pathway and Nicotine*

The goal of this study is to investigate the role of discrete brain pathways and neurotransmitter systems in mediating an inhibitory signal that regulates motivation to consume nicotine.

Role: PI

04/2009-03/2012

NIH-NIDA026693 National Research Service Award (postdoctoral)

*The  $\alpha 5$  Nicotinic Acetylcholine Receptor in Nicotine Dependence*

The goal of this study is to examine the role of the  $\alpha 5$  nicotinic acetylcholine receptor subunit in regulating nicotine reinforcement and the actions of nicotine on brain reward systems in mice with null mutation in the  $\alpha 5$  subunit gene.

Role: PI

08/2001-08/2004

NIH-NIMH64352 National Research Service Award (predoctoral)

*Social Experience and Adult Neurogenesis*

The goal of this study was to examine the effects of social environment and gonadal steroid hormones on adult neurogenesis in the amygdala, hypothalamus, and hippocampus of highly social and asocial voles.

Role: PI

#### **AWARDS & HONORS:**

1995-1998 Presidential Scholarship, Baldwin-Wallace College

1996-1998 Pi Gamma Mu (National Social Science Honorary)

1996-1998 Psi Chi (National Psychology Honorary)

1997-1998 Order of Omega (National Greek Leadership Honorary)

- 1997-1998 Dayton C. Miller Honor Society (Outstanding Scholarship Honorary), Baldwin-Wallace College
- 1998 William Prokasy Psychology Alumni Award, Psychology Dept., Baldwin-Wallace College
- 1999 Art and Sciences Fellowship Award, College of Arts and Sciences, FSU
- 1999 Conference Travel Award, FSU Congress of Graduate Students
- 2000-2001 NIH Predoctoral Training Grant in the Neurosciences Recipient, PI: Michael Rashotte, FSU Graduate Student Training Grant
- 2000 B.W. Robinson Memorial Endowment for the Neurosciences Award, Tallahassee Memorial Hospital
- 2001 Society for Behavioral Neuroendocrinology Student Poster Award, Scottsdale, AZ
- 2001 NIMH Travel Award for the Society for Behavioral Neuroendocrinology, Scottsdale, AZ
- 2001 Beidler Award, Program in Neuroscience, FSU
- 2001 B. W. Robinson Memorial Endowment for the Neurosciences Award, Tallahassee Memorial Hospital
- 2003 Daisy Parker Flory Graduate Scholar Award, Phi Kappa Phi honor society, FSU
- 2003 B.W. Robinson Memorial Endowment for the Neurosciences Award, Tallahassee Memorial Hospital
- 2004 Graduate Student Leadership Award, FSU
- 2009 NIDA Mini-convention "Frontiers in Addiction Research" Travel Award
- 2010 American College of Neuropsychopharmacology (ACNP) Travel Award, Miami, FL
- 2012 Travel Award, NIDA/INSERM Workshop on US-France Collaboration on Drug Abuse and Addiction Research, New Orleans, LA
- 2014 Invited Report on Progress in Brain Research, Dana Foundation, "Using Optogenetics and Designer Receptors Exclusively Activated by Designer Drugs (DREADDs)", Fowler, Lee & Kenny
- 2015-present Fellow, Center for the Neurobiology of Learning and Memory (CNLM)
- 2015 Avenir Award, NIDA
- 2016-2020 Associate Member, American College of Neuropsychopharmacology (ACNP)
- 2016 'Scientist to Watch', *The Scientist* magazine
- 2018 Scientist Spotlight Interviewee, Basic Science Network, Society for Research on Nicotine and Tobacco (SRNT)
- 2018 Invited Visiting Professor, University of Cagliari, Sardinia, Italy
- 2019 '2018 Best Paper Award', SRNT
- 2021-present Member, American College of Neuropsychopharmacology (ACNP)
- 2021 Neuroscience Graduate of Distinction, Program in Neuroscience, Florida State University
- 2022-present Fellow, Society for Research on Nicotine and Tobacco (SRNT)
- 2022-present Chancellor's Fellow, University of California Irvine

***Invited Talks/Panels:***

- 2002 Panel Speaker, Society for Behavioral Neuroendocrinology, Amherst, MA
- 2003 Speaker, Graduate Research Day, Psychology Department, FSU
- 2010 Panel Speaker, ACNP annual meeting, Miami, FL
- 2010 Speaker: Paper Presentation, Society for Research on Nicotine and Tobacco, Baltimore, MD
- 2011 Panel Speaker, Nicotinic Acetylcholine Receptors as Therapeutic Targets: Frontiers in Basic Research & Clinical Science, Washington, DC
- 2011 Seminar Speaker, Max Planck Research Forum, Max Planck Florida Institute, Jupiter, FL
- 2011 'Hot Topics' Speaker, ACNP annual meeting, Waikoloa Beach, Hawaii
- 2012 Panel Speaker, Society for Research on Nicotine and Tobacco, Houston, TX
- 2014 Visiting Scientist, Center for Substance Abuse Research, Temple University, Philadelphia, PA
- 2014 Panelist, Orange County Graduate Women in Science, Networking Workshop

- 2015 Speaker, Rushton Symposium, Neuroscience Program, Florida State University, Tallahassee, FL
- 2015 Speaker, Integrative Center for Addictions, University of California Los Angeles, Los Angeles, CA
- 2015 Speaker, Minority Science Programs Theory and Research Seminar, Francisco J. Ayala School of Biological Sciences, University of California Irvine, Irvine, CA
- 2015 Speaker, 9th Annual Health Professions Conference, Mount San Antonio College, Walnut, CA
- 2015 Speaker, 1<sup>st</sup> Annual Translational Nicotine Research Group Symposium, UC Los Angeles, Los Angeles, CA
- 2015 Speaker, Department of Pharmaceutical Sciences, Western University's College of Pharmacy, Pomona, CA
- 2016 Speaker, California State University Long Beach, Building Infrastructure Leading to Diversity (BUILD Program), Long Beach, CA
- 2016 Speaker, Addiction Symposium, University of California Irvine, Irvine, CA
- 2016 Speaker, Department of Psychology, University of Michigan, Ann Arbor, MI
- 2016 Speaker, Committee on the Neurobiology of Addictive Disorders, The Scripps Research Institute, La Jolla, CA
- 2016 Speaker, Claremont Colleges (Pomona College, Scripps College, Claremont McKenna College, Harvey Mudd College, and Pitzer College), Claremont, CA
- 2016 Speaker, American Society for Exosomes and Microvesicles (ASEMV) annual meeting, Pacific Beach, CA
- 2017 Speaker, Irvine Center for Addiction Neuroscience (ICAN) annual meeting, Irvine, CA
- 2017 Speaker, Pharmacology Program Seminar Series, UCI, Irvine, CA
- 2017 Speaker, University of Nebraska Medical Center, Omaha, NE
- 2017 Symposia Speaker (3 separate panels), Society for Research on Nicotine and Tobacco (SRNT) annual meeting, Florence, Italy
- 2017 Speaker, Center for the Neurobiology of Learning and Memory (CNLM) annual meeting, Irvine, CA
- 2017 Speaker, Department of Psychiatry, University of California San Diego (UCSD), San Diego, CA
- 2017 Speaker, ICAN Summer Symposium on Addiction Research for Medical Professionals, Irvine, CA
- 2017 Speaker, ASEMV annual meeting, Pacific Beach, CA
- 2017 Panel Speaker, ACNP annual meeting, Palm Springs, CA
- 2018 Speaker, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Phoenix, AZ
- 2018 Speaker, Concordia University, Irvine, CA
- 2018 Speaker, International CNLM annual meeting, Irvine, CA
- 2018 Speaker, ICAN annual meeting, Irvine, CA
- 2018 Speaker, University of Cagliari, Sardinia, Italy
- 2018 Speaker, China Medical University – UCI Collaborative Meeting, Irvine, CA
- 2018 Speaker, ASEMV annual meeting, Baltimore, MD
- 2019 Speaker, SRNT annual meeting, San Francisco, CA
- 2019 Speaker, North American Cannabis Summit, Los Angeles, CA
- 2019 Speaker, CNLM annual meeting, Irvine, CA
- 2019 Speaker, Department of Neurobiology and Behavior, UCI, Irvine CA
- 2020 Speaker, Winter Conference on Brain Research (WCBR), Big Sky, MT
- 2020 Speaker, NIH NIDA Genetics Consortium Conference, Bethesda, MD
- 2020 Speaker, SRNT annual meeting, New Orleans, LA
- 2020 Speaker, International Society for Extracellular Vesicles (ISEV), Philadelphia, PA
- 2020 Speaker, Cannabis in a Changing Brain Symposium, Irvine, CA
- 2020 Panelist, Addiction & Long Day's Journey Into Night, UCI School of Medicine and the UCI Claire Trevor School of Performing Arts, Virtual online
- 2021 Speaker, SRNT annual meeting, Baltimore, MD, Virtual online

- 2021 Speaker, SFN Podcast 'Pathways to Enhance Rigor: Battling Bias in the Pursuit of Objectivity', Virtual online
- 2021 Speaker, 'Frankly with Dean LaFerla: Episode 14', UC Irvine, CA
- 2021 Speaker, Bio-Club Outreach, Vaughn High School, San Fernando, CA
- 2021 Panelist, How Addiction Hijacks the Brain: What Animal Models Can Tell Us About the Neurobiology of Drugs of Abuse, CNLM Expert Panel Series
- 2021 Speaker, American Society for Intercellular Communication (ASIC), Potomac, MD
- 2022 Speaker, Minority Science Program, Irvine, CA
- 2022 Speaker, University of Buffalo, Buffalo, NY
- 2022 Speaker, Yale University, New Haven, CT
- 2022 Speaker, SRNT annual meeting, Baltimore, MD
- 2022 Speaker, Florida State University, Tallahassee, FL
- 2022 Panelist, Associated Students of the University of California in Irvine, Irvine, CA
- 2022 Speaker, Pharma R&D Conference, San Francisco, CA
- 2022 Speaker, HEALTH Research Institute, University of Houston, Houston, TX
- 2022 Speaker, NIH NIDA/NIAAA enhanced Interdisciplinary Research Training Program (eIRTI), Los Angeles, CA
- 2022 Speaker, Poly Drug Use Webinar, Society for Research on Nicotine and Tobacco (SRNT)
- 2022 Speaker, Clinical & Pharmaceutical Microbiology annual meeting, Zurich, Switzerland
- 2022 Speaker, Diversity in Science Seminar Series, CMB/INP Summer Program, Irvine, CA
- 2022 Speaker, UC HBCU and NSF REU Summer Program, Irvine, CA
- 2022 Speaker, Department of Neuroscience, University of Minnesota, Minneapolis, MN
- 2022 Speaker, American Society for Intercellular Communication (ASIC), Potomac, MD
- 2022 Speaker, Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS), Anaheim, CA
- 2023 Speaker, Society for Research on Nicotine and Tobacco (SRNT) Annual Conference, San Antonio, TX

**Grant Reviewer:**

- 2013 Ad Hoc reviewer, Agence Nationale De La Recherche (French National Research Agency)
- 2014 Ad Hoc reviewer, Agence Nationale De La Recherche
- 2014 Reviewer, Special Emphasis Panel (UH2/UH3), National Institute on Drug Abuse (NIDA)
- 2015 Reviewer, Special Emphasis Panel (UH2/UH3), NIDA
- 2015 Reviewer, Special Emphasis Panel, Identification of Genetic and Genomic Variants by Next-Gen Sequencing in Non-human Animal Models (U01), NIDA
- 2015 Reviewer, Special Emphasis Panel (R21/R33), NIDA
- 2016 Reviewer, UC Center for Accelerating Innovation (CAI), NIDA
- 2016 Reviewer, Ad Hoc, Research "Center of Excellence" Panel (P50), NIDA
- 2016 Reviewer, Netherlands Organization for Health Research and Development (ZonMw)
- 2016 Reviewer, Special Emphasis Panel, Identification of Genetic and Genomic Variants by Next-Gen Sequencing in Non-human Animal Models (U01), NIDA
- 2017 Reviewer, Ad Hoc, Molecular Neuropharmacology and Signaling Study Section (MNPS), NIH; February and June meetings
- 2017 Reviewer, Phase I, Avenir Award Program for Genetics or Epigenetics of Substance Use Disorders (DP1), NIDA; January and December meetings
- 2017 Reviewer, ZDA1 SXM-M, Extracellular Vesicle Tools, Technologies, and Products for Neuroscience Research (R41/R42/R43/R44), NIH
- 2017 Reviewer, Special Emphasis Panel, Identification of Genetic and Genomic Variants by Next-Gen Sequencing in Non-human Animal Models (U01), NIDA
- 2018 Reviewer, Special Emphasis Panel, Identification of Genetic and Genomic Variants by Next-Gen Sequencing in Non-human Animal Models (U01), NIDA

- 2018 Reviewer, ZDA1 IXR-Q(03)R, Exploiting Omics Assays to Investigate Molecular Regulation of Persistent HIV in Individuals with Substance Use Disorder (R61/R33), NIDA
- 2018 Reviewer, Funding Scheme SONATA BIS, Panel NZ4, National Science Centre (Narodowe Centrum Nauki – NCN), Poland
- 2018 Reviewer, ZDA1 SXM-M, Cutting-Edge Basic Research Awards (CEBRA), NIDA
- 2018 CHAIRPERSON and Reviewer, Special Emphasis Panel ZDA1 GXM-A, Identification of Genetic and Genomic Variants by Next-Gen Sequencing in Non-human Animal Models (U01), NIDA
- 2019 Reviewer, Phase I, ZDA1 IXN-O 04 S, Avenir Award Program for Genetics or Epigenetics of Substance Use Disorders (DP1), NIDA
- 2019 Reviewer, ZDA1 SXM-M, Cutting-Edge Basic Research Awards (CEBRA), NIDA
- 2019 Reviewer, ZRG1 MDCN-G, PAR: Exosomes and Substance Use Disorders, NIDA
- 2019 CHAIRPERSON and Reviewer, ZDA1 IXR-Q(05)S, Exploiting Genome or Epigenome Editing to Functionally Validate Genes or Variants Involved in Substance Use Disorders (R21/R33), NIDA
- 2019 Reviewer, NCATS HEAL, University of California Irvine
- 2020 CHAIRPERSON and Reviewer, ZDA1 IXR-Q(20)S, Exploiting Genome or Epigenome Editing to Functionally Validate Genes or Variants Involved in Substance Use Disorders (R21/R33), NIDA
- 2020 Reviewer, ZRG1 CVRS-H, Electronic Nicotine Delivery Systems: Basic Mechanisms of Health Effects (R21/R01), NIDA
- 2020 Reviewer, Center for Medicinal Cannabis Research (CMCR) Grants Program, University of California San Diego
- 2020 Reviewer, ZDA1 HXO-H (61) S, Assessing the Effects of Cannabinoids on HIV-Induced Inflammation (R01), NIDA
- 2020 CHAIRPERSON and Reviewer, ZDA1 IXR-Q(06)S, Exploiting Genome or Epigenome Editing to Functionally Validate Genes or Variants Involved in Substance Use Disorders (R21/R33), NIDA
- 2020 Reviewer, Adjunct, NIH/CSR Biobehavioral Regulation, Learning, and Ethology (BRLE), NIDA
- 2021 CHAIRPERSON and Reviewer, ZDA1 IXR-Q(14), Exploiting Genome or Epigenome Editing to Functionally Validate Genes or Variants Involved in Substance Use Disorders (R21/R33), NIDA
- 2021 CHAIRPERSON and Reviewer, ZDA1 SXC-G(04), Exploring Epigenomic or Non-Coding RNA Regulation in the Development, Maintenance, or Treatment of Chronic Pain (R61/R33), NIDA
- 2021 CHAIRPERSON and Reviewer, ZDA1 IXR-Q (03), Exploiting Genome or Epigenome Editing to Functionally Validate Genes or Variants Involved in Substance Use Disorders (R21/R33), NIDA
- 2021 Reviewer, Member, NIH/CSR Biobehavioral Regulation, Learning, and Ethology (BRLE), NIDA
- 2022 CHAIRPERSON and Reviewer, ZDA1 IXR-Q (19), Exploiting Genome or Epigenome Editing to Functionally Validate Genes or Variants Involved in Substance Use Disorders (R21/R33), NIDA
- 2022 CHAIRPERSON and Reviewer, VH-K Special Emphasis Panel (K99/K01), NIDA
- 2022 Reviewer, Center for Medicinal Cannabis Research (CMCR)
- 2022 Reviewer, Standing Member, NIH/CSR Biobehavioral Regulation, Learning, and Ethology (BRLE), NIDA

***Journal Reviewer (various years):***

Journal of Neuroscience; Neuropsychopharmacology; Neuropharmacology; Nicotine & Tobacco Research; eNeuro; Psychopharmacology; Drug and Alcohol Dependence; Behavioural Brain Research; Biochemical Pharmacology; Behavioral Neuroscience; Biological Psychiatry; Neuroscience; Pharmacology, Biochemistry and Behavior; American Journal of Drug and

Alcohol Abuse; British Journal of Pharmacology; Addiction Biology; Brain Structure & Function; Hormones and Behavior; Frontiers in Human Neuroscience; PLOS ONE; BioMed Research International; Genes, Brain and Behavior; The Pharmacogenomics Journal; Psychiatry Research

**Journal Editorial Board Service:**

2015-2022 Associate Editor, *Journal of Neuroscience*  
 2018-present Editorial Board Member, *Neuropsychopharmacology*  
 2019-present Reviewing Editor, *eNeuro*

**Professional Service:**

2013 Abstract Reviewer, Society for Research on Nicotine and Tobacco (SRNT) Annual Meeting, Basic Science Division  
 2013-2015 Basic Science Network Advisory Committee, SRNT  
 2014 Abstract Review Committee, SRNT Annual Meeting, Basic Science Division  
 2015 Organizer & Symposium Program Co-Chair, Translational Nicotine Research Group  
 2015 Abstract Review Committee, SRNT Annual Meeting, Basic Science Division  
 2015 Co-Organizer, Annual Symposium, Center for the Neurobiology of Learning and Memory (CNLM), UC Irvine  
 2015-2016 Co-Organizer, ICAN Annual Symposium, UC Irvine  
 2015-2018 Chair, Basic Science Network, SRNT  
 2016 SRNT Session Chair, SRNT Annual Meeting  
 2016 Abstract Review Committee, SRNT Annual Meeting, Preclinical and Basic Science Division  
 2016-2017 Co-Organizer, ICAN Annual Symposium, UC Irvine  
 2017 Abstract Review Committee, SRNT Annual Meeting, Preclinical and Basic Science Division  
 2017 SRNT Session Chair, SRNT Annual Meeting  
 2017 Chair, Career Development Session, American College of Neuropsychopharmacology (ACNP) Annual Meeting  
 2017 Chair, Speed Networking Session, ACNP Annual Meeting  
 2017-2020 Membership Advisory Taskforce, ACNP  
 2018 Co-Chair, Membership Advisory Taskforce, ACNP  
 2018 SRNT Session Chair, SRNT Annual Meeting  
 2018 Abstract Review Committee, SRNT Annual Meeting, Preclinical and Basic Science Division  
 2018 Chair, Speed Networking Session, ACNP Annual Meeting  
 2019 SRNT Session Chair, SRNT Annual Meeting  
 2019 Faculty Mentor, Minority Science Program (MSP), UC Irvine  
 2019 Chair, Membership Advisory Taskforce, ACNP  
 2019 Chair, Speed Networking Session, ACNP Annual Meeting  
 2019-2020 Faculty Mentor, Building Infrastructure Leading to Diversity (BUILD), California State University Long Beach (CSULB)  
 2020 Chair, Career Development Session, ACNP Annual Meeting  
 2020 SRNT Session Chair, SRNT Annual Meeting  
 2021 SRNT Session Chair, SRNT Annual Meeting  
 2015-present Interdepartmental Neuroscience Program (INP) Executive and Admissions Committee, UC Irvine  
 2015-present Irvine Center for Addiction Neuroscience (ICAN) Executive Committee, UC Irvine  
 2018-present Mentor, JNeurosci Reviewer Mentoring Program, *Journal of Neuroscience* <https://community.sfn.org/c/jneurosci-reviewer-mentoring-program>  
 2020-present Pre-Clinical Chair, Program Committee for Annual Meeting, Society for Research on Nicotine and Tobacco (SRNT)  
 2020-present Leader, Working Group 4, Dismantling Systemic Racism Initiative, UC Irvine



2022 Publications Committee, ACNP  
 2022 Session Chair, Pharma R&D Conference, San Francisco, CA  
 2022 Session Chair, American Society for Intercellular Communication (ASIC)  
 Annual Conference, Potomac, MD

**Professional Society Membership:**

American College of Neuropsychopharmacology (ACNP) (*International*)  
 Society for Neuroscience (SfN) (*International*)  
 Society for Research on Nicotine and Tobacco (SRNT) (*International*)  
 Professional Women's Nexus (PWN) (*International*)  
 American Society for Exosomes and Microvesicles (ASEMV) (*National*)

**PUBLICATIONS:**

1. Liu Y, **Fowler CD**, Young LJ, Yan Q, Insel TR and Wang ZX (2001) Expression and estrogen regulation of brain-derived neurotrophic factor gene and protein in the forebrain of female prairie voles. *J. Comp. Neurol.*, 433:499-514. PMID: 11304714
2. Liu Y, **Fowler CD** and Wang ZX (2001) Ontogeny of brain-derived neurotrophic factor gene expression in the forebrain of prairie and montane voles. *Dev. Brain Res.*, 127:51-61. PMID: 11287064
3. Liu Y, Curtis JT, **Fowler CD**, Spencer C, Houpt T, and Wang ZX (2001) Differential expression of vasopressin, oxytocin, and corticotrophin-releasing hormone messenger RNA in the paraventricular nucleus of the prairie vole brain following stress. *J. Neuroendo.*, 13:1059-1065. PMID: 11722702
4. **Fowler CD**, Liu Y, Ouimet C, and Wang ZX (2002) The effects of social environment on adult neurogenesis in the female prairie vole. *J. Neurobiol.*, 51: 115-128. PMID: 11932953
5. **Fowler CD**, Freeman ME, and Wang ZX (2003) Newly proliferated cells in the adult male amygdala are affected by gonadal steroid hormones, *J. Neurobiol.*, 57(3):257-269. PMID: 14608662
6. **Fowler CD** and Wang ZX (2003) Adult neurogenesis in the mammalian brain: exogenous and endogenous influences. *Acta Zoologica Sinica*, 49:151-162.
7. **Fowler CD**, Johnson F and Wang ZX (2005) Estrogen regulation of cell proliferation and distribution of estrogen receptor-alpha in the brains of adult female prairie and meadow voles. *J. Comp. Neurol.*, 489(2):166-179. PMID: 15984004
8. **Fowler CD**, Liu Y and Wang ZX (2007) Estrogen and adult neurogenesis in the amygdala and hypothalamus. *Brain Res. Rev.*, 57(2):342-351. PMID: 17764748
9. Young EA, **Fowler CD**, Kidd G, Chang A, Rudick R, Fisher E and Trapp BD (2008) Imaging correlates of decreased axonal Na<sup>+</sup>/K<sup>+</sup> ATPase in chronic multiple sclerosis lesions. *Ann. Neurol.*, 63:428-435. PMID: 18438950
10. **Fowler CD** and Kenny PJ (2008) Subtypes of nicotinic acetylcholine receptors in addiction, dependence and withdrawal: Evidence from genetically modified mice. *Behav. Pharmacol.*, 19(5-6):461-484. PMID: 18690103

11. Schaefer A, Im HI, Veno MT, **Fowler CD**, Min A, Intrator A, Kjems J, Kenny PJ, O'Carroll D and Greengard P (2010) Argonaute 2 in dopamine 2 receptor-expressing neurons regulate cocaine addiction. *J. Exp. Med.*, 207(9): 1843-51. PMID: 20643829
12. **Fowler CD** and Kenny PJ (2011) Intravenous nicotine self-administration and cue-induced reinstatement in mice: effects of nicotine dose, rate of drug infusion and prior instrumental training. *Neuropharm.*, 61:687-698. PMID: 21640128
13. **Fowler CD** and Kenny PJ (2011) Utility of genetically modified mice for understanding the neurobiology of substance use disorders. *Human Genetics*, 131:941-57. PMID: 22190154
14. Tuesta LM, **Fowler CD** and Kenny PJ (2011) Recent advances in understanding nicotinic receptor signaling mechanisms that regulate drug self-administration behavior. *Biochem. Pharmacol.*, 82:984-995. PMID: 21740894
15. **Fowler CD**, Liu Q, Johnson PM, Marks MJ and Kenny PJ (2011) Habenular  $\alpha 5^*$  nicotinic receptor signaling controls nicotine intake. *Nature*, 471(7340):597-601. PMID: 21278726
16. Hollander JA, Pham D, **Fowler CD** and Kenny PJ (2012) Hypocretin-1 receptors regulate the reinforcing and reward-enhancing effects of cocaine: pharmacological and behavioral genetics evidence. *Front Behav Neurosci.*, 6:47. PMID: 22837742
17. **Fowler CD** and Kenny PJ (2012) Habenular signaling in nicotine reinforcement. *Neuropsychopharm.*, 37(1): 306-7. PMID: 22157872
18. Lotfipour S, Leach P, Byun JS, **Fowler CD**, Murphy NP, Kenny PJ, Gould TJ and Boulter J (2013) Targeted deletion of the mouse  $\alpha 2$  nicotinic acetylcholine receptor subunit gene *Chrna2* potentiates nicotine-modulated behaviors. *Journal of Neuroscience*, 33(18): 7728-41. PMID: 23637165
19. **Fowler CD** and Kenny PJ (2013) Nicotine aversion: Neurobiological mechanisms and relevance to tobacco dependence vulnerability. *Neuropharm.*, 76 PtB:533-44. PMID: 24055497
20. **Fowler CD**, Tuesta LM and Kenny PJ (2013) Role of  $\alpha 5^*$  nicotinic acetylcholine receptors in the effects of acute and chronic nicotine treatment on brain reward function in mice. *Psychopharm.*, 229(3): 503-13. PMID: 23958943
21. Ochoa V, Loeffler AJ, **Fowler CD**. (2015) Emerging role of the cerebrospinal fluid – neuronal interface in neuropathology. *Neuro Open J*, 2(3): 92-98.
22. **Fowler CD** (2017) The habenulo-interpeduncular pathway and nicotine withdrawal. In FS Hall, JW Young & A Der-Avakian (Eds.), *Negative affective states and cognitive impairments in nicotine dependence* (pp. 192-204). San Diego, CA: Elsevier.
23. Lallai V and **Fowler CD** (2017) More than just chillin': Interactive effects of menthol and nicotine in drug reward. *Neuropsychopharmacology*, 42(12):2283-2284. PMID: 28553838

24. Bobadilla AC, Heinsbroek JA, Gipson CD, Griffin WC, **Fowler CD**, Kenny PJ, Kalivas PW (2017) Corticostriatal plasticity, neuronal ensembles and regulation of drug-seeking behavior. *Progress in Brain Research*, 235: 93-112. PMID: 29054293
25. Tuesta LM, Chen Z, Duncan A, **Fowler CD**, Ishikawa M, Lee BR, Liu XZ, Lu Q, Cameron M, Hayes MR, Kamenecka TM, Pletcher M, and Kenny PJ (2017) GLP-1 acts on habenula avoidance circuits to control nicotine intake. *Nature Neuroscience*, 20(5): 708-716. PMID: 28368384
26. **Fowler CD**, Gipson CD, Kleykamp A, Rupprecht LE, Rees VW, Gould TJ, Oliver J, Bagdas D, Damaj MI, Schmidt HD, Harrell PT, Duncan A, and DeBiasi M, on behalf of the Basic Science Network of the Society for Research on Nicotine and Tobacco (2018) Basic science and public policy: Informed regulation for nicotine and tobacco products. *Nicotine and Tobacco Research*, 20(7) 789-799. PMID: 29065200  
\*Awarded '2018 Best Paper Award' from the Society for Research on Nicotine and Tobacco (SRNT)
27. Chen E, Lallai V, Grimes NP, Pushkin AN, Fowler JP and **Fowler CD**. (2018) Altered baseline and nicotine-mediated behavioral and cholinergic profiles in ChAT-Cre mouse lines. *Journal of Neuroscience*, 38(9):2177-2188. PMID: 29371319
28. Pushkin AN, Eugene AJ, Lallai V, Torres-Mendoza A, Fowler JP, Chen E and **Fowler CD**. (2019) Cannabinoid and nicotine exposure during adolescence induces sex-specific effects on anxiety- and reward-related behaviors during adulthood. *PLoS One*, 14(1): e0211346. PMID: 30703155
29. Lallai V, Grimes NP, Fowler JP, Sequeira PA, Cartagena P, Limon A, Coutts M, Monuki E, Bunney W, Demuro A, and **Fowler CD**. (2019) Nicotine acts on cholinergic signaling mechanisms to directly modulate choroid plexus function. *eNeuro*, 6(2). pii: ENEURO.0051-19.2019. PMID: 31119189
30. **Fowler CD**, Turner JR, and Damaj MI. (2019) Molecular mechanisms associated with nicotine pharmacology and dependence. In Nader M.A. & Hurd Y. (Eds.), *Handbook of Experimental Pharmacology*. Switzerland: Springer.
31. **Fowler CD**. (2019) NeuroEVs: Characterizing extracellular vesicles generated in the neural domain. *Journal of Neuroscience*, 39(47): 9262-9268. PMID: 31748281
32. Chen YC, Wang J, Fowler JP, Sherafat Y, Staben A, Lazarus P, Denton TT, and **Fowler CD**. (2020) The novel CYP2A6 inhibitor, DLCI-1, decreases nicotine self-administration in mice. *Journal of Pharmacology and Experimental Therapeutics*, 372(1): 21-29. PMID: 31628204
33. Gipson CD and **Fowler CD**. (2020) Nicotinic receptors underlying nicotine dependence: Evidence from transgenic mouse models. In Shoaib M. & Wallace T. (Eds.), *Current Topics in Behavioral Neuroscience: Behavioral Pharmacology of the Cholinergic System*. Switzerland: Springer Nature.

34. Lallai V, Ahmed A, and **Fowler CD**. (2020) Method for primary epithelial cell culture from the rat choroid plexus. *Bio-Protocol*, 10(4): e3532. DOI: 10.21769/BioProtoc.3532. PMID: 33654756
35. Dukes A, Lallai V, Fowler JP, Pushkin A, and **Fowler CD**. (2020) Adolescent cannabinoid and nicotine exposure alter nicotine self-administration in adulthood. *Nicotine and Tobacco Research*, 22(8): 1364-1373. PMID: 32396625  
\*Highlighted as an 'Editor's Choice'
36. Sherafat Y, Bautista M, Fowler JP, Chen E, Ahmed A, and **Fowler CD**. (2020) The interpeduncular-hippocampus pathway mediates active stress coping and natural reward. *eNeuro*, 7(6): ENEURO.0191-20.2020. PMID: 33139320
37. Goldberg LR, Zeid D, Kutlu MG, Cole R, Lallai V, Sebastian A, Albert I, **Fowler CD**, Parikh V, and Gould TJ. (2021) Paternal nicotine enhances fear memory, reduces nicotine self-administration and alters hippocampal genetic and cholinergic function in subsequent generations. *Addiction Biology*, 26(1):e12859. PMID: 31782218
38. Elayouby KS, Ishikawa M, Dukes AJ, Smith ACW, Lu Q, **Fowler CD\*** and Kenny PJ\*. (2021)  $\alpha 3^*$  Nicotinic acetylcholine receptors in the habenula-interpeduncular nucleus circuit regulate nicotine intake. *Journal of Neuroscience*, 41(8):1779-1787. PMID: 33380469  
\*co-corresponding senior authors
39. Lallai V, Chen YC, Roybal MM, Kotha ER, Fowler JP, Staben A, Cortez A, and **Fowler CD**. (2021) Nicotine e-cigarette vapor inhalation and self-administration in a rodent model: Sex- and nicotine delivery-specific effects on metabolism and behavior. *Addiction Biology*, Online ahead of print. PMID: 33624410
40. Sherafat Y, Bautista M and **Fowler CD**. (2021) Multidimensional intersection of nicotine, gene expression and behavior. *Frontiers in Behavioral Neuroscience*, 15:64912. PMID: 33828466
41. Lallai V, Manca L and **Fowler CD**. (2021) E-cigarette vape and lung ACE2 expression: Implications for coronavirus vulnerability. *Environmental Toxicology and Pharmacology*, 86:103656. PMID: 33838329
42. Hamouda A, Bautista M, Akinola L, Alkhlaif Y, Jackson A, Carper M, Toma W, Garai S, Chen YC, Thakur G, **Fowler CD**, and Damaj MI. (2021) Potentiation of  $(\alpha 4)2(\beta 2)3$ , but not  $(\alpha 4)3(\beta 2)2$ , nicotinic acetylcholine receptors reduces nicotine self-administration and withdrawal symptoms. *Neuropharmacology*, 190:108568. PMID: 33878302
43. Sanchez II, Nguyen TB, England W, Lim RG, Vu AQ, Miramontes R, Byrne L, Markmiller S, Lau A, Orellana I, Curtis MA, Faull RLM, Yeo GW, **Fowler CD**, Reidling J, Wild EJ, Spitale RC, and Thompson LM. (2021) Huntington's disease mice and human brain tissue exhibit increased G3BP1 granules and TDP43 mislocalization. *Journal of Clinical Investigation*, 131(12):e140723.

44. Ruiz CM, Torrens A, Lallai V, Castillo E, Manca L, Martinez MX, Justeson D, **Fowler CD**, Piomelli D and Mahler SV. (2021) Pharmacokinetic and Pharmacodynamic Properties of Vaporized THC in Adolescent Male and Female Rats. *Psychopharmacology*, 238(12):3595-3605. PMID: 34495367
45. Sherafat Y, Chen E, Lallai V, Bautista M, Fowler JP, Chen YC, Miwa J and **Fowler CD**. (2021) Differential Expression Patterns of Lynx Proteins and Involvement of Lynx1 in Prepulse Inhibition. *Frontiers in Behavioral Neuroscience*, 15:703748. PMID: 34803621
46. Souter EA, Chen, YC, Zell V, Lallai V, Steinkellner T, Conrad WS, Wisden W, Harris K, **Fowler CD**, and Hnasko TS. (2022) Disruption of VGLUT1 in cholinergic medial habenula projections increases nicotine self-administration. *eNeuro*, 9(1):ENEURO.0481-21.2021. PMID: 34876472
47. Le Foll B, Piper ME, **Fowler CD**, Tonstad S, Bierut L, Lu L, Jha P and Hall WD. (2022) Tobacco and Nicotine Use. *Nature Reviews Disease Primers*, 8(1):19. PMID: 35332148
48. Lallai V, Manca L, Sherafat Y and **Fowler CD**. (2022) Effects of Prenatal Nicotine, THC or Co-Exposure on Cognitive Behaviors in Adolescent Male and Female Rats. *Nicotine and Tobacco Research*, 24(8):1150-1160. PMID: 35090174
49. Dukes A, Bautista M and **Fowler CD**. (2023) Impact of  $\Delta$ 9-tetrahydrocannabinol (THC) and synthetic "spice" cannabinoids on nicotine use and abuse. In Martin, Patel & Predy (Eds.), *Cannabis Use, Neurobiology, Psychology, and Treatment*, Elsevier, San Diego, CA. *In press*.
50. Addy N, **Fowler CD** and Wickham R. (2023) Cholinergic modulation of circuits. In Gilpin (Ed.), *Neurocircuitry of Addiction*. Elsevier, San Diego, CA.
51. Torrens A, Ruiz CM, Martinez MX, Tagne AM, Roy P, Grimes D, Ahmed F, Lallai V, Inshishian V, Bautista M, Chen YC, Huestis MA, Das A, Fowler CD, Mahler SV, Piomelli D. (2023) Nasal accumulation and metabolism of  $\Delta$ 9-tetrahydrocannabinol following aerosol ('vaping') administration in an adolescent rat model. *Pharmacol Res*. 187:106600. PMID: 36481259
52. Lallai V, Congiu C, Manca L, Dukes AJ, **Fowler CD** and Dazzi L. Social isolation and reward-induced dopamine dynamics during adolescence. *Under review*.

#### ABSTRACTS:

1. **Fowler CD**, Liu Y, Jia X, and Wang ZX (2000) The influence of social experience on neurogenesis in the forebrain of adult female prairie voles. *Neuroendocrine Workshop: Estrogen, Growth Factors and Neuroplasticity*. Toronto: American Neuroendocrine Society.
2. Liu Y, **Fowler CD**, Young LJ, Insel TR, and Wang ZX (2000) Estrogen regulates BDNF gene and protein expression in the prairie vole brain. *Neuroendocrine Workshop: Estrogen, Growth Factors and Neuroplasticity*. Toronto: American Neuroendocrine Society, Toronto.

3. Liu Y, **Fowler CD**, and Wang ZX (2000) Ontogeny of brain-derived neurotrophic factor gene expression in the forebrain of prairie and montane voles. *Soc. Neurosci. Abs.*, 26, p. 586. New Orleans, LA: Society for Neuroscience.
4. **Fowler CD**, Liu Y, Jia X, and Wang ZX (2000) Social experience alters neurogenesis in the brain of adult female prairie voles. *Soc. Neurosci. Abs.*, 26, p. 54. New Orleans, LA: Society for Neuroscience.
5. **Fowler CD**, Liu Y, Ouimet C, and Wang ZX (2001) Mating and social environment differentially affect adult neurogenesis in the female prairie vole. *Hormones & Behavior*, 39: 331. Cincinnati, OH: Society for Behavioral Neuroendocrinology.
6. **Fowler CD**, Liu Y, and Wang ZX (2001) Gonadal hormones affect adult neurogenesis in the amygdala of female and male meadow voles. *Soc. Neurosci. Abs.*, 27, Program No. 587.5. San Diego, CA: Society for Neuroscience.
7. Liu Y, Curtis JT, **Fowler CD**, Meredith M, and Wang ZX (2001) Chemosensory cues affect adult neurogenesis in female, but not male, prairie voles. *Soc. Neurosci. Abs.*, 27, Program No. 587.4. San Diego, CA: Society for Neuroscience.
8. **Fowler CD** and Wang ZX (2003) Estrogen differentially influences cell proliferation in the amygdala and ventromedial hypothalamus of adult female prairie and meadow voles. *Soc. Neurosci. Abs.* 28, Program No. 348.2. New Orleans, LA: Society for Behavioral Neuroendocrinology.
9. **Fowler CD** and Wang ZX (2004) Species differences in the distribution of estrogen receptor  $\alpha$  and the regulation of cell proliferation in the brains of adult female prairie and meadow voles. Program No. 150.3. *2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.
10. **Fowler CD**, Chang A, Yin X and Trapp BD (2005) Na<sup>+</sup>/K<sup>+</sup> ATPase expression on axons in normal human white matter and multiple sclerosis lesions. Program No. 101.8. *2005 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.
11. Wang ZX, **Fowler CD** and Liu Y (2007) Estrogen, amygdala, and adult neurogenesis. *Soc. Behav. Neuroendocrin. Abs.*, S10. Pacific Grove, CA: Society for Behavioral Neuroendocrinology.
12. Liu Y, Curtis JT, **Fowler CD**, Meredith M and Wang ZX (2007) Chemosensory cues affect adult neurogenesis in the amygdala of prairie voles in a sex-specific manner. *Soc. Behav. Neuroendocrin. Abs.*, P1.26. Pacific Grove, CA: Society for Behavioral Neuroendocrinology.
13. **Fowler CD** and Kenny PJ (2008) Intravenous nicotine self-administration in mice. *2008 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.
14. **Fowler CD** and Kenny PJ (2009) Alpha 5-containing nicotinic acetylcholine receptors regulate nicotine intake: Role of the medial habenula. *ACNP 2009 Abstract Viewer/Itinerary Planner*. Hollywood, FL: American College of Neuropsychopharmacology.
15. **Fowler CD** and Kenny PJ (2009) Intravenous nicotine self-administration in wildtype and  $\alpha$ 5 nicotinic acetylcholine receptor subunit knockout mice. *NIDA 2009 Frontiers in Addiction Research Abs.*, 19. Chicago, IL: National Institute on Drug Abuse.

16. **Fowler CD** and Kenny PJ (2009) Intravenous nicotine self-administration in wildtype and  $\alpha 5$  nicotinic acetylcholine receptor subunit knockout mice. *2009 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Neuroscience.
17. **Fowler CD**, Hollander JA and Kenny PJ (2010) Translational approaches for nicotine dependence: Utility of genetically modified mice. *ACNP 2010 Abstract Viewer/Itinerary Planner*. Miami Beach, FL: American College of Neuropsychopharmacology.
18. **Fowler CD**, Lu Q and Kenny PJ (2010) Alpha 5-containing nicotinic acetylcholine receptors regulate nicotine intake: Role of the medial habenula and interpeduncular nucleus. *SRNT 2010 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
19. Tuesta LM, Johnson PM, **Fowler CD** and Kenny PJ (2010) Differential role for  $\beta 3$ -containing nicotinic acetylcholine receptors in nicotine and cocaine reward. *2010 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
20. **Fowler CD**, Lu Q and Kenny PJ (2011) The involvement of alpha3-containing nicotinic acetylcholine receptors in the habenulo-interpeduncular pathway in nicotine self-administration. *ACNP 2011 Abstract Viewer/Itinerary Planner*. Waikoloa, HI: American College of Neuropsychopharmacology.
21. Lotfipour S, **Fowler CD**, Murphy NP, Kenny PJ, and Boulter J (2011) Role of the alpha-2 nicotinic acetylcholine receptor subunit in nicotine reinforcement and withdrawal. *ACNP 2011 Abstract Viewer/Itinerary Planner*. Waikoloa, HI: American College of Neuropsychopharmacology.
22. **Fowler CD** and Kenny PJ (2011) The  $\alpha 5$  nicotinic acetylcholine receptor subunit and aversive learning. *2011 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.
23. Tuesta LM, Johnson PM, **Fowler CD** and Kenny PJ (2011)  $\beta 3$ -containing nicotinic receptors regulate the psychomotor stimulant and reinforcing properties of cocaine. *2011 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.
24. **Fowler CD** and Kenny PJ (2012) Nicotinic-mediated effects on brain reward function are modulated by  $\alpha 5$ -containing nicotinic acetylcholine receptors. *ACNP 2012 Abstract Viewer/Itinerary Planner*. Hollywood, FL: American College of Neuropsychopharmacology.
25. **Fowler CD** and Kenny PJ (2012) Nicotinic acetylcholine receptors expressed in the habenulo-interpeduncular pathway regulate nicotine reinforcement. *NIDA/INSERM Workshop on US-France Collaboration on Drug Abuse and Addiction Research*. New Orleans, LA: NIDA/INSERM.
26. **Fowler CD**, Lu Q and Kenny PJ (2012) Alpha3-containing nicotinic acetylcholine receptors expressed in the habenulo-interpeduncular pathway regulate nicotine reinforcement. *2012 Abstract Viewer/Itinerary Planner*. New Orleans, LA: Society for Neuroscience.
27. Tuesta LM, **Fowler CD**, Lu Q and Kenny PJ (2012) Role of glucagons-like peptide-1 (GLP-1) receptors in nicotine reinforcement. *2012 Abstract Viewer/Itinerary Planner*. New Orleans, LA: Society for Neuroscience.
28. **Fowler CD** (2012) New insights into neural circuitries regulating nicotine intake: Role for nicotinic acetylcholine receptors in the habenulo-interpeduncular pathway. *SRNT 2012 Workshop "Cholinergic regulation of addiction and disease: understanding mechanisms and*

*identifying novel therapeutic targets*". Houston, TX: Society for Research on Nicotine and Tobacco.

29. Lotfipour S, **Fowler CD**, Leach P, Murphy NP, Kenny PJ, Gould T and Boulter J (2012) Role of alpha2-containing nicotinic acetylcholine receptors in nicotine-facilitated contextual and cued fear conditioning, reinforcement and withdrawal in the mouse. *SRNT 2012 Abstract Viewer/Itinerary Planner*. Houston, TX: Society for Research on Nicotine and Tobacco.
30. **Fowler CD**, Lee B and Kenny PJ (2013) Cocaine sensitivity is regulated by striatal  $\alpha$ 5-containing nicotinic acetylcholine receptors. *ACNP 2013 Abstract Viewer/Itinerary Planner*. Hollywood, FL: American College of Neuropsychopharmacology.
31. **Fowler CD** and Kenny PJ (2013) Hypocretin modulation of nicotine-mediated alterations in brain reward function are dependent on required level of effort. *2013 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
32. Loeffler A, Fowler JP, Wang S and **Fowler CD** (2016) BAC-ChAT-Cre mice exhibit altered intravenous nicotine self-administration. *SRNT 2016 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Research on Nicotine and Tobacco.
33. Ochoa V and **Fowler CD** (2016) Altered Expression of Circulating miRNAs During Chronic Nicotine Self-Administration in Rats. *Keystone: Exosome/Microvesicles: Novel Mechanisms of Cell-Cell Communication*. Keystone, CO: Keystone Symposia on Molecular and Cellular Biology.
34. Loeffler A and **Fowler CD** (2016) Circuit busting depression: Novel pathway mediating antidepressant behavior. *CNLM 2016 Annual Meeting Datablitz Session*. Irvine, CA: Center for the Neurobiology of Learning and Memory.
35. Ochoa V and **Fowler CD** (2016) Altered extracellular microRNA expression with intravenous nicotine self-administration. *ASEMV 2016 Program*. Pacific Beach, CA; American Society for Extracellular Microvesicles.
36. Ochoa V and **Fowler CD** (2016). Chronic intravenous nicotine self-administration alters the expression of choroid plexus RNA in rats. *2016 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
37. Loeffler A, Chen E, Fowler JP, Nosrati F, Grimes NP and **Fowler CD** (2016) ChAT-BAC-Cre and ChAT-IRES-Cre mouse lines exhibit differential patterns of intravenous nicotine self-administration. *2016 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
38. Grimes NP, Fowler JP and **Fowler CD** (2016) Interpeduncular alpha5 nicotinic receptor neurons mediate nicotine reinforcement and aversion. *ACNP 2016 Abstract Viewer/Itinerary Planner*. Hollywood, FL: American College of Neuropsychopharmacology.
39. Ochoa V and **Fowler CD** (2016) Nicotinic modulation of the choroid plexus and altered circulating microRNA expression during chronic nicotine self-administration. *NIDA Genetics Consortium Meeting*. Bethesda, MD: National Institute on Drug Abuse.
40. **Fowler CD** (2017) Nicotinic receptor circuits mediating reinforcement and aversion; Symposia session: The CHRNA5-A3-B4 gene cluster: From discovery to causality, mechanism and therapeutics. *SRNT 2017 Abstract Viewer/Itinerary Planner*. Florence, Italy: Society for Research on Nicotine and Tobacco.



41. **Fowler CD** and Buczynski M (2017) Symposia session: Endocannabinoid modulation of nicotine dependence: Symposium in memoriam of Dr. Larry Parsons. *SRNT 2017 Abstract Viewer/Itinerary Planner*. Florence, Italy: Society for Research on Nicotine and Tobacco.
42. Lallai V, Sherafat Y and **Fowler CD** (2017) Identification of novel targets for tobacco and nicotine therapeutics. *Moving Molecules from the Academic Lab to the Clinic Symposium*. Irvine, CA: UCI Chao Family Comprehensive Cancer Center and Department of Chemistry.
43. Somkuwar SS\*, McKenna BS and **Fowler CD** (2017) Advances in Translational Research in Preclinical Models of Drug and Alcohol Addiction. *APA 2017 Annual Meeting Abstract Viewer/Itinerary Planner*. San Diego, CA: American Psychological Association. (\*denotes presenter of talk)
44. Chen E and **Fowler CD** (2017) CHAT-BAC-Cre and CHAT-IRES-CRE Mice Exhibit Altered Behavioral Phenotypes. *Excellence in Research, University of California Irvine*. Irvine, CA: School of Biological Sciences.  
\*Awarded 'Poster Award for Excellence in Research' to Edison Chen (undergraduate student researcher in Fowler lab)
45. Lallai V and **Fowler CD** (2017) Extracellular microRNAs released during nicotine self-administration. *ASEMV 2017 Abstract Viewer/Itinerary Planner*. Pacific Beach, CA; American Society for Extracellular Microvesicles.
46. Lallai V and **Fowler CD** (2017) Epigenetic implications for extracellular signaling factors in nicotine dependence. *2017 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
47. **Fowler CD** (2017) Modulation of choroid plexus function and altered circulating microRNA expression with nicotine self-administration. *ACNP 2017 Abstract Viewer/Itinerary Planner*. Palm Springs, CA: American College of Neuropsychopharmacology.
48. Lallai V and **Fowler CD** (2018) Nicotine-mediated modulation of choroid plexus function and altered circulating microRNA expression. *NIDA Genetics Consortium Meeting*. Bethesda, MD: National Institute on Drug Abuse.
49. Pushkin A and **Fowler CD** (2018) The effects of chronic adolescent exposure to nicotine and/or a cannabinoid agonist on drug-seeking behavior during adulthood. *Excellence in Research, University of California Irvine*. Irvine, CA: School of Biological Sciences.
50. Ahmed A and **Fowler CD** (2018) Integration of exosomes into the cholinergic habenula. *Excellence in Research, University of California Irvine*. Irvine, CA: School of Biological Sciences.
51. Pushkin A and **Fowler CD** (2018) The effects of chronic adolescent exposure to nicotine and a cannabinoid agonist on nicotine-seeking behavior during adulthood. *SURP Research Symposium*. Irvine, CA: Summer Undergraduate Research Program, UC Irvine.
52. Pushkin A and **Fowler CD** (2018) The effects of chronic adolescent exposure to nicotine and/or a cannabinoid agonist on drug-seeking behavior during adulthood. *UC Smoke and Tobacco Free Taskforce Meeting*. Oakland, CA: UC Smoke and Tobacco Free Taskforce.
53. **Fowler CD** (2018) Effects of developmental drug exposure on nicotine dependence. *International CNLM Annual Meeting*. Long Beach, CA: Center for the Neurobiology of Learning and Memory.

54. Lallai V and **Fowler CD** (2018) Drugs of abuse alter the release of extracellular vesicles in the brain. *ASEMV 2018 Abstract Viewer/Itinerary Planner*. Pacific Beach, CA; American Society for Extracellular Microvesicles.
55. Eugene AJ, Pushkin AN, Mendoza-Torres A and **Fowler CD** (2018). Sex-dependent behavioral effects of adolescent exposure to a cannabinoid agonist and nicotine in adult mice. *2018 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
56. Ahmed A, Lallai V and **Fowler CD** (2018). Extracellular vesicle integration in the rodent brain. *2018 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
57. Sherafat Y, Fowler JP and **Fowler CD** (2018). Characterization of lynx1 in sensory processing, learning and memory function. *2018 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
58. Lallai V, Ahmed A and **Fowler CD** (2018). Extracellular vesicle release from the choroid plexus and small RNA content modulated by nicotine. *SfN 2018 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
59. Hernandez A, Eugene A, Pushkin A, Fowler JP, **Fowler CD** (2018). The effects of adolescent exposure to nicotine and/or a cannabinoid agonist on cognitive and affective behaviors in adult mice. *ABRCMS 2018 Abstract Viewer/Itinerary Planner*. Indianapolis, IN: Annual Biomedical Research Conference for Minority Students (ABRCMS).
60. Lallai V and **Fowler CD** (2018) Nicotine self-administration modulates choroid plexus function and release of microRNAs into the CSF. *ACNP 2018 Abstract Viewer/Itinerary Planner*. Hollywood, FL: American College of Neuropsychopharmacology.
61. Eugene A, Pushkin AN, Hernandez A, Fowler JP, Lallai V, and **Fowler CD** (2019) Sex-specific effects of adolescent nicotine and cannabinoid exposure on nicotine intake and affective behaviors during adulthood in mice. *SRNT 2019 Abstract Viewer/Itinerary Planner*. San Francisco, CA: Society for Research on Nicotine and Tobacco.
62. Eugene A and **Fowler CD** (2019) Sex-dependent Behavioral Effects of Adolescent Exposure to Nicotine and a Cannabinoid Agonist in Adult Mice. *CNLM 2019 Annual Meeting*. Irvine, CA: Center for the Neurobiology of Learning and Memory.
63. Sherafat Y and **Fowler CD** (2019) Characterization of Lynx1 Proteins in Learning and Memory Function. *CNLM 2019 Annual Meeting*. Irvine, CA: Center for the Neurobiology of Learning and Memory.
64. **Fowler CD** (2019) The Nicotinic Receptor Modulator, Lynx2, Influences Nicotine Intake and Drug Associated Memory. *CNLM 2019 Annual Meeting*. Irvine, CA: Center for the Neurobiology of Learning and Memory.
65. Sherafat Y, Bautista M, Fowler JP and **Fowler CD**. (2019) Examining the role of the endogenous modulator Lynx1 in cognitive related behaviors and brain regions. *SfN 2019 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Neuroscience.
66. Lallai V and **Fowler CD**. (2019) To Vape or Not: Nicotine E-Cigarette Vapor Inhalation in a Rodent Model. *SfN 2019 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Neuroscience.

67. Lallai V, Ahmed A, Fowler JP and **Fowler CD**. (2019) Cell-Specific Release of Extracellular Vesicles from the Choroid Plexus and Dopaminergic Neurons in the Brain. *ACNP 2019 Abstract Viewer/Itinerary Planner*. Hollywood, FL: American College of Neuropsychopharmacology.
68. Serrano RG, Dukes AJ, Pushkin A, Fowler JP, Lallai V and **Fowler CD** (2019) The effects of adolescent nicotine and cannabinoid exposure on adult behavior. *ABRCMS 2019 Abstract Viewer/Itinerary Planner*. Anaheim, CA: Annual Biomedical Research Conference for Minority Students (ABRCMS).
69. Cortez A, Lallai V and **Fowler CD** (2019) Nicotine e-cigarette vapor inhalation in a rodent model. *ABRCMS 2019 Abstract Viewer/Itinerary Planner*. Anaheim, CA: Annual Biomedical Research Conference for Minority Students (ABRCMS).
70. Cortez A, Lallai V and **Fowler CD** (2020) Investigation of a nicotine e-cigarette vapor inhalation route in a rodent model. *AAAS 2020 Abstract Viewer/Itinerary Planner*. Seattle, WA: American Association for the Advancement of Science (AAAS).
71. **Fowler CD**. (2020) Nicotine Mediates Extracellular RNA Signaling in the Brain. *NIDA 2020 Genetics and Epigenetics Cross-Cutting Research Consortium Meeting*. Bethesda, MD: NIDA.
72. **Fowler CD**. (2020) Sex-Specific Effects of Adolescent Nicotine and Cannabinoid Exposure on Nicotine Reinforcement and Relapse in Adulthood. *WCBR 2020 Abstract Viewer/Itinerary Planner*. Big Sky, MT: Winter Conference on Brain Research (WCBR).
73. Dukes A, Pushkin AN, Lallai V, Fowler JP, Hernandez A, Sherafat Y, and **Fowler CD**. (2020) Adult Nicotine Self-Administration and Relapse-Related Behavioral Effects Following Adolescent Exposure to Nicotine and a Cannabinoid Agonist. *SRNT 2020 Abstract Viewer/Itinerary Planner*. New Orleans, LA: Society for Research on Nicotine and Tobacco.
74. **Fowler CD**. (2020) Lynx2 Modulates Nicotine Self-Administration and Relapse Related Behaviors. *SRNT 2020 Abstract Viewer/Itinerary Planner*. New Orleans, LA: Society for Research on Nicotine and Tobacco.
75. Lallai V, Cortez A and **Fowler CD**. (2020) Nicotine Vapor Self-Administration: Development and Validation of a Novel Procedure in Rodents. *SRNT 2020 Abstract Viewer/Itinerary Planner*. New Orleans, LA: Society for Research on Nicotine and Tobacco.
76. Sherafat Y, Chen E, Fowler JP, Ahmed A and **Fowler CD**. (2020) Novel Interpeduncular-Hippocampal Pathway in Stress Coping Behaviors. *Conte Center @ UCI 7th Annual Symposium*. Irvine, CA.
77. **Fowler CD**. (2020) The Nicotinic Receptor Modulator, Lynx2, Influences Nicotine Intake and Relapse-Related Behaviors. *Joining Forces 2020 Abstract Viewer/Itinerary Planner*. Palm Springs, CA: Joining Forces 2020 Ending the Tobacco Epidemic for All.
78. Lallai V and **Fowler CD**. (2020) Effect of Prenatal E-Cigarette Nicotine Vapor and THC Exposure on Learned Behavior and Nicotine Intake During Adolescence in a Rat Model. *Joining Forces 2020 Abstract Viewer/Itinerary Planner*. Palm Springs, CA: Joining Forces 2020 Ending the Tobacco Epidemic for All.
79. Dukes A and **Fowler CD**. (2020) The Long-Term Effects of Adolescent Nicotine and Cannabinoid Exposure on Nicotine Self-Administration and Relapse-Related Behaviors in a Mouse Model. *Joining Forces 2020 Abstract Viewer/Itinerary Planner*. Palm Springs, CA: Joining Forces 2020 Ending the Tobacco Epidemic for All.

80. **Fowler CD**, Lallai V, Fordjour F, Christenson L, and Gould S. (2020). Extracellular Vesicle Release from the Choroid Plexus Visualized Using ExoMap-2 Mice. *ISEV 2020 Abstract Viewer/Itinerary Planner*. Philadelphia, PA: International Society for Extracellular Vesicles.
81. Dukes A, Hernandez-Vasquez A, Sherafat Y, Bautista M, and **Fowler CD** (2020) Does Exposure to Nicotine and Cannabinoids during Adolescence Make Nicotine Relapse More Likely in Adulthood? *ACNP 2020 Abstract Viewer/Itinerary Planner*. Virtual Online Meeting: American College of Neuropsychopharmacology.
82. Lallai V, Manca L, and **Fowler CD** (2020) Vaping Nicotine and COVID-19: Effects of Nicotine on Lung ACE2 Expression. *ACNP 2020 Abstract Viewer/Itinerary Planner*. Virtual Online Meeting: American College of Neuropsychopharmacology.
83. Sherafat Y, Bautista M, Lallai V, Dukes A, Fowler JP, and **Fowler CD** (2021) The Nicotinic Receptor Modulator *Lynx1* in Nicotine Dependence. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
84. Lallai V, Manca L, and **Fowler CD** (2021) Is There a Link Between E-cigarettes Use and COVID-19?. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
85. Dukes A, Hernandez-Vasquez A, Sherafat Y, Bautista M, and **Fowler CD** (2021) Adolescent Nicotine and Cannabinoid Exposure Alters Susceptibility to Cue Induced Nicotine Relapse. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
86. Chen YC, Lallai V, Fowler JP and **Fowler CD** (2021) Nicotine Vapor Self Administration in Mice. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
87. Lallai V and **Fowler CD** (2021) Drugs of abuse modulate extracellular vesicle signaling in the brain. *ASIC 2021 Abstract Viewer/Itinerary Planner*. Potomac, Maryland: American Society for Intercellular Communication.
88. Bautista M, Blough B, Gay E and **Fowler CD** (2021) GPR3 as a Novel Therapeutic Target for Nicotine Addiction. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
89. Chen YC, Rindner DJ, Hnasko TS, Lur G and **Fowler CD** (2021) Defining the role of purinergic signaling in the medial habenula. *SfN 2021 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Neuroscience.
90. Bautista M, Fowler JP and **Fowler CD** (2021) *Lynx2* proteins modulate neuronal activation in the VTA and the IPN. *SfN 2021 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Neuroscience.
91. Lallai V, Manca L, Sherafat Y and **Fowler CD** (2021). Effects of Prenatal Nicotine, THC or Co-Exposure on Cognitive Behaviors in Adolescent Male and Female Rats. *SfN 2021 Abstract Viewer/Itinerary Planner*. Chicago, IL: Society for Neuroscience.
92. Lallai V, Matera C, Bodinayake K, Papotto C, Dallanoce C and **Fowler CD** (2021) Modulation of the D3R-nAChR Heteromeric Complex Attenuates Nicotine Self-Administration. *ACNP 2021 Abstract Viewer/Itinerary Planner*. San Juan, Puerto Rico: American College of Neuropsychopharmacology.

93. Sherafat Y, Bautista M, Lallai V, Dukes A, Chen YC, Fowler JP and **Fowler CD** (2021) Lynx1 in the Ventral Tegmental Area Modulates Nicotine Reinforcement. *ACNP 2021 Abstract Viewer/Itinerary Planner*. San Juan, Puerto Rico: American College of Neuropsychopharmacology.
94. **Fowler CD** (2021) E-cigarette Vaping and COVID-19: Contributing Biological Factors Underlying Individual Differences. *Clinical & Pharmaceutical Microbiology 2021 Abstract Viewer/Itinerary Planner*. Zurich, Switzerland: Clinical & Pharmaceutical Microbiology.
95. Lallai V, Manca L, Torrens A, Piomelli D and **Fowler CD**. Effects of Prenatal Vape exposure on Cognitive Behaviors in Adolescent Male and Female Rats. Gordon Research Conference. *Cannabinoid Function in the CNS Gordon Research Conference Abstract Viewer/Itinerary Planner*. Ventura, California: Gordon Research Conference.
96. Dukes AJ, Hernandez-Vasquez A, Bautista M, Chen Y and **Fowler CD** (2021) The Lasting Impact of Adolescent Cannabinoid Exposure on Adulthood Drug Seeking Behaviors in Mice. *Cannabinoid Function in the CNS Gordon Research Conference Abstract Viewer/Itinerary Planner*. Ventura, California: Gordon Research Conference.
97. Chen YC, Fowler JP, Cheeks S, Dukes AJ, Campos JM, Mahler SV and **Fowler CD**. (2021) Developmental Exposure to E-Cigarette Nicotine or THC Vape Alters Cessation Therapeutic Effectiveness in Rats. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
98. Chen YC and **Fowler CD**. (2021) Mechanistic Insights into Nicotine Withdrawal: Role of Purkinergic Signaling in the Medial Habenula. *SRNT 2021 Abstract Viewer/Itinerary Planner*. Baltimore, MD: Society for Research on Nicotine and Tobacco.
99. Seth S, Deba F, Cheeks S, Beauzile H, **Fowler CD**, Thakur GA, and Hamouda A (2022) Synthesis and Pharmacological Characterization of Novel  $(\alpha 4)2(\beta 2)3$  Nicotinic Acetylcholine Receptor Positive Allosteric Modulators. Annual Meeting of the American Association of Colleges of Pharmacy (AACCP). *American Journal of Pharmaceutical Education*. 86 (5): 9171.
100. Chen YC, Rindner DJ, Demuro A, Hnasko TS, Lur G and **Fowler CD** (2022). Purinergic signaling mediates cellular function in the medial habenula. *SfN 2022 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
101. Lallai V, Manca L, Sherafat Y and **Fowler CD** (2022). Cognitive differences in male and female adolescent rats due to prenatal exposure to nicotine and THC. *SfN 2022 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
102. Cheeks S, Bautista M, Blough B, Gay E and **Fowler CD** (2022). GPR3 as a Novel Therapeutic Target for Nicotine Addiction. *SfN 2022 Abstract Viewer/Itinerary Planner*. San Diego, CA: Society for Neuroscience.
103. Bautista M, Fowler JP, **Fowler CD** (2022) Lynx2 Proteins Affect Nicotine Seeking Following Nicotine Abstinence *SfN 2022 Abstract Viewer/Itinerary Planner*. San Diego, CA Society for Neuroscience.
104. Seth S, Deba F, Cheeks S, Garai S, Beauzile H, Gaona J, Damaj MI, **Fowler CD**, Hamouda AK and Thakur GA (2022) Synthesis and Pharmacological characterization of Novel  $(\alpha 4)2(\beta 2)3$  Nicotinic Acetylcholine Receptor Positive Allosteric Modulators. *CDPA*

*Conference Abstract Viewer/Itinerary Planner*. Boston, MA: Chemistry and Pharmacology of Drug Abuse.

105. Lallai V, Lam TT, Garcia-Milian R, Williams K, Nairn A, and Fowler CD. (2022) Proteomic Profile of Extracellular Vesicles in the Brain After THC Exposure. American Society for InterCellular Communication (ASIC) Abstract Viewer/Itinerary Planner. Potomac, MD: ASIC Annual Meeting.

## **COURSES TAUGHT**

### University of California Irvine, Irvine, CA

*Neurobiology of Addiction* (N233, graduate upper level, course coordinator, co-taught)  
Spring, 2017; Spring, 2019; Spring, 2020; Spring, 2021; Spring, 2022

*Neurobiology of Addiction* (N121, undergraduate upper level, course coordinator, co-taught)  
Spring, 2020; Spring, 2021; Spring, 2022

*Neuropharmacology* (N153, undergraduate upper level, independently taught)  
Spring, 2015; Spring, 2016; Spring, 2017; Spring, 2018; Fall, 2018; Fall, 2019; Fall, 2020; Fall, 2021; Fall, 2022

*Foundations in Neuroscience* (N202, graduate lower level, course coordinator)  
Fall, 2020; Winter, 2021; Fall, 2021; Winter, 2022

*Behavioral Neuroscience* (N209, graduate lower level, co-taught as 1 of 5 instructors)  
Spring, 2015; Spring, 2016; Spring, 2017; Spring, 2018, Spring 2019, Spring 2020

*Neurobiology and Behavior* (N110, undergraduate lower level, co-taught as 1 of 3 instructors)  
Spring, 2016

### University of Cagliari, Sardinia, Italy

*MicroRNAs and Drug Dependence* (Visiting Professor, independently taught; Summer, 2018)

*Convergent Neurobiological Mechanisms in Neuropsychiatric Disease and Drug Dependence*  
(Visiting Professor, independently taught; Summer, 2018)

*Genetics of Nicotine Dependence* (Visiting Professor, independently taught; Summer, 2018)

*Circuit Manipulation in Vivo: Optogenetic and DREADD Techniques* (Visiting Professor, independently taught; Summer, 2018)

### Florida Atlantic University Wilkes Honors College, Palm Beach, FL

*Honors Behavioral Neuroscience* (PSY4930, special interest, independently taught)  
Fall, 2006; Fall, 2007; Fall, 2009

*Honors Drugs and Behavior* (PSY4930, special interest, independently taught)  
Spring, 2007; Fall, 2007

*Honors Sensation and Perception* (PSY4930, special interest, independently taught)  
Spring, 2007

*Honors Psychobiology of Crime* (PSY4930, special interest, independently taught)  
Spring, 2008

### Indian River State College, Fort Pierce, FL

*Introduction to Psychology* (PSY2012, independently taught)  
Fall, 2006; Fall, 2007

*Human Development* (DEP2004, independently taught)  
Spring, 2007; Fall, 2007

### Florida State University, Tallahassee, FL

*Brain and Behavior* (PSB2000)

Summer, 2002 (independently taught); Spring, 2003 (co-instructor)

## **Teaching Certificates**

College Teaching Certificate, Department of Educational Leadership and Policy Studies

Awarded: Fall 2003  
Teaching Certificate, Program in Instructional Excellence, 2003

**Faculty Mentor: Research Honors & Awards Received by Laboratory Trainees**

- 2017 Poster Award, Excellence in Research, Biological Sciences, UCI  
Trainee Recipient: Edison Chen, Undergraduate student researcher
- 2017 Summer Undergraduate Research Program (SURP), UCI  
Trainee Recipient: Anna Pushkin, Undergraduate student researcher
- 2017 Competitive Edge Summer Research Program, UCI  
Trainee Recipient: Angeline Eugene, Interdepartmental Neuroscience Program Graduate Student
- 2018-2021 National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP)  
Trainee Recipient: Angeline (Eugene) Dukes, Graduate Student
- 2018 Travel Award, North American Cannabis Summit  
Trainee Recipient: Angeline Eugene
- 2018 Travel Award, North American Cannabis Summit  
Trainee Recipient: Valeria Lallai, PhD
- 2018 Travel Award, North American Cannabis Summit  
Trainee Recipient: Angeline (Eugene) Dukes
- 2019 Undergraduate Research Opportunities Program (UROP), UCI  
Trainee Recipients: Andres Staben, Undergraduate student researcher; Malia Bautista, Undergraduate student researcher
- 2019 Undergraduate Research Opportunities Program (UROP), UCI  
Trainee Recipients: Eashan Kota, Undergraduate student researcher
- 2019 Summer Undergraduate Research Program (SURP), UCI  
Trainee Recipient: Eashan Kota, Undergraduate student researcher
- 2019 Summer Program in Neuroscience, Excellence and Success (SPINES)  
Trainee Recipient: Angeline Eugene
- 2019 Norman Weinberger Memorial Award, Center for the Neurobiology of Learning and Memory (CNLM)  
Trainee Recipient: Angeline Eugene
- 2019-2022 Postdoctoral Training Grant, Tobacco and Related Disease Research Program (TRDRP)  
Trainee Recipient: Valeria Lallai, PhD
- 2019 Dean's Early Career Research Excellence Award, Biological Sciences, UCI  
Trainee Recipient: Valeria Lallai, PhD
- 2019 ABRCMS Presentation Award  
Trainee Recipient: Rosa Serrano (MSP undergraduate student)
- 2020 American Association for the Advancement of Science (AAAS), First Place E-Poster, Brain & Behavior Category  
Trainee Recipient: Angeliq Cortez (MSP undergraduate student)
- 2020 Society for Research on Nicotine and Tobacco (SRNT) Health Disparities Network Travel Scholarship  
Trainee Recipient: Angeline (Eugene) Dukes
- 2020 NRSA F31 Training Grant, NIDA  
Trainee Recipient: Yasmine Sherafat
- 2020 Renee Harwick Advanced Graduate Student Award, CNLM  
Trainee: Yasmine Sherafat
- 2021 Society for Research on Nicotine and Tobacco (SRNT) Travel Award  
Trainee Recipient: Angeline (Eugene) Dukes
- 2021 Society for Research on Nicotine and Tobacco (SRNT) Travel Award  
Trainee Recipient: Valeria Lallai
- 2021 Society for Research on Nicotine and Tobacco (SRNT) Best Poster Award  
Trainee Recipient: Yasmine Sherafat

- 2021 UC Irvine Summer Inclusive Excellence Grant  
Trainee Recipient: Angeline (Eugene) Dukes
- 2021 NIDA T32 Training Grant, NIDA  
Trainee Recipient: Angeline (Eugene) Dukes
- 2021 Most Promising Future Faculty Award  
Trainee Recipient: Angeline (Eugene) Dukes
- 2021 Renee Harwick Advanced Graduate Student Award, CNLM  
Trainee: Yen-Chu Chen
- 2022 Outstanding Grad Student Award, UCI  
Trainee Recipient: Angeline (Eugene) Dukes
- 2022 NSF GRFP Honorable Mention, National Science Foundation  
Trainee Recipient: Malia Bautista
- 2022 Undergraduate Research Opportunities Program (UROP) Summer Proposal (SURP)  
Trainee Recipient: Fiona Vo
- 2022-2025 Predoctoral Training Grant, Tobacco and Related Disease Research Program (TRDRP)  
Trainee Recipient: Malia Bautista
- 2022 The John W. Haycock Memorial Graduate Student Travel Award  
Trainee Recipient: Malia Bautista
- 2022 NIH Diversity Supplement  
Trainee Recipient: Samantha Cheeks
- 2022 Trainee Professional Development Award (TPDA), Society for Neuroscience  
Trainee Recipient: Samantha Cheeks