Curriculum Vitae

CAMRON D. BRYANT, PH.D.
Professor
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Lab webpage: https://bryantlab.sites.northeastern.edu/
Twitter: https://twitter.com/CamronBryantPhD
Bluesky: https://bsky.app/profile/camronbryant.bsky.social
Linkedin: https://www.linkedin.com/in/camron-bryant-5372405/
NCBI My Bibliography: https://www.ncbi.nlm.nih.gov/myncbi/camron.bryant.1/bibliography/public/

ACADEMIC TRAINING

1999 B.S., *Cum Laude*, Psychology, Departmental Distinction, University of Illinois, Urbana-Champaign (UIUC)

2006 Ph.D., Neuroscience, University of California, Los Angeles (UCLA)

ADDITIONAL TRAINING

2007-11 Postdoc, The University of Chicago, Quantitative Genetics
2017 Completion of leadership workshop: Emerging Healthcare Leaders Program, Institute for Health System Innovation Policy, hosted at Boston University's Questrom School of Business. August 9-10, 2017.

ACADEMIC APPOINTMENTS

2011-12 Research Associate, Department of Human Genetics, The University of Chicago
2012-19 Assistant Professor, Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine (BUSM). Official appointment date: April 25, 2013
2013-19 Assistant Professor (Secondary Appt.), Department of Psychiatry, Boston University School of Medicine
2019- Associate Professor, Department of Pharmacology and Experimental Therapeutics and Psychiatry, Boston University School of Medicine. Official promotion date: June 18, 2019
2023- Professor, Department of Pharmacology, Physiology and Biophysics, Boston University Chobanian and Avedisian School of Medicine
2023- (starting 8/21/23) Professor, Department of Pharmaceutical Sciences, Northeastern University
2023- Fellow, Center for Drug Discovery, Northeastern University
2023- Awarded Tenure on Entry, Professor of Pharmaceutical Sciences, Northeastern University, December 8, 2023

HONORS

National

2011 Travel Award for NIH/NIDA Miniconvention, "Frontiers in Addiction Research"
2011 American College of Neuropsychopharmacology (ACNP) Early Career Travel Award

(abstract was selected for Breakout Session oral presentation).
2014 Junior Investigator Travel Fellowship, Winter Conference on Brain Research (WCBR)
2016 Elected Associate Member of ACNP, January 1, 2016
2021 Elected Full Member, January 1, 2021

International
2002,5,11 International Narcotics Research Conference (INRC) Travel Award
2008 Outstanding Young Investigator Award for Postdocs, International Behavioural and Neural Genetics Society (IBANGS)
2009-12 IBANGS Travel Award
2013 Outstanding Young Scientist Award for Junior Faculty, IBANGS
2013 World Congress of Psychiatric Genetics (WCPG) - poster abstract selected for oral presentation
2014 Young Scientist Award, International Behavioural and Neural Genetics Society (IBANGS)

LICENSES AND CERTIFICATION

2024 MCSRP, DEA Registration

MAJOR ADMINISTRATIVE RESPONSIBILITIES

2013-23 Mentor, NIH/NIGMS T32GM008541, Ph.D. Training Program in Biomolecular Pharmacology
2013-23 Mentor, Transformative Training Program in Addiction Science (Burroughs Wellcome), Boston University School of Medicine
2013-23 Member, Graduate Program for Neuroscience, Boston University
2013-23 Member, Genome Sciences Institute, Boston University School of Medicine
2013-23 Member, Graduate Program in Genetics and Genomics, Program in Biomedical Sciences, Boston University School of Medicine
2020-23 Associate Director (BUSM), Center for Systems Neuroscience, Boston University

DEPARTMENT, SCHOOL, AND UNIVERSITY COMMITEES

Committees, Department of Pharmacology and Experimental Therapeutics, Boston University Chobanian & Avedisian School of Medicine

2014,18 BUSM Pharmacology Sterling Seminar Series Committee
2014-15 Member, Addiction Faculty Candidate Search Committee
2015-20 Chair, Addiction Faculty Search Committee, Department of Pharmacology, BUSM
2016-23 Admissions Committee for T32 NIGMS grant Pharmacology Graduate Program
2020 T32 Biomolecular Pharmacology Trainee Selection Committee
2022 Chair, T32 Biomolecular Pharmacology Trainee Selection Committee
2023 Chair, Addiction Faculty Search Committee
2023 Member, Chair Advisory Committee (Dr. Venetia Zachariou) for the new Pharmacology, Physiology, and Structural Biology Department
2023 Member, Appointments and Promotions Committee for the new Pharmacology, Physiology, and Structural Biology Department
2023 Chair, Graduate Education Committee

Qualifying Exam Committees, PhD Program in Biomolecular Pharmacology, Boston University Chobanian & Avedisian School of Medicine (14 total; 8 as Chair)

2014 Member, Melissa Mcloed
2015 Member, Kathryn Hixson (Advisor: Dr. Shelley Russek)
2016 Chair, Margarita Tararina (Advisor: Dr. Karen Allen)

2016 Chair, Brandon Maziuk (Adivisor: Dr. Benjamin Wolozin)
2017 Member, Qiu Ruan (Advisor: Me)
2018 Member, Jacob Beierle (Advisor: Me)
2018 Member, Sema Quadir (Advisor: Dr. Valentina Sabino)
2018 Chair, and second reader, Xuan (Anita) He (Advisor: Dr. Shannon Fisher)
2019 Member, Kelly Miao (Advisor, Dr. Shannon Fisher)
2019 Member, Shawn Herron (Advisor, Dr. Tsuneya Ikezu)
2021 Chair, Jennifer Freire (Advisor: Dr. Xue Huan)
2021 Chair, Kelly Wingfield (Advisor: Me)
2022 Chair, Jenna Libera (Advisor: Dr. Benjamin Wolozin)
2022 Chair, Stanley Goldstein (Advisor: Dr. Andrew Emili)

Qualifying Exam Committees, PhD Program in Neurobiology, Boston University Chobanian & Avedisian School of Medicine

2022 Member and NRSA Co-Sponsor, Alanna Carey (Advisor: Dr. Jerry Chen)

Qualifying Exam Committees from other Departments and Programs, Boston University
2018 Member, Tanya Karagiannis (Advisor, Dr. Christine Cheng), Bioinformatics, BU
2019-23 Member, Patrick Cleary (Advisor, Dr. Christine Cheng), Biology, BU

Dissertation Advisory Committees, PhD Program in Biomolecular Pharmacology, Boston University Chobanian & Avedisian School of Medicine (13 total; Chaired 7)

2013-17 First Reader, Lisa R. Goldberg (Advisor: Me)
2014-17 First Reader, Neema Yazdani (Advisor: Me)
2016-21 Chair, Brandon Maziuk (Advisor: Dr. Benjamin Wolozin)
2016-19 Member, Margarita Tararina (Advisor: Dr. Karen Allen)
2018-20 Chair, Sema Quadir (Advisor, Dr. Valentina Sabino)
2018-22 First Reader, Jacob Beierle (Advisor: Me)
2018-23 Chair, Xuan (Anita) He (Advisor: Dr. Shannon Fisher)
2019-23 Chair, Kelly Miao (Advisor: Dr. Shannon Fisher)
2019-22 Member, Shawn Herron (Advisor, Dr. Tsuneya Ikezu)
2020-24 Chair, Jonique George (Advisor: Dr. Shelley Russek)
2021-24 Member, Kelly Wingfield (Advisor: Me)
2022-23 Chair, Stanley Goldstein (Advisor: Dr. Andrew Emili)
2022- Chair, Jennifer Freire (Advisor: Dr. Xue Han)
2022-23 Chair, Jenna Libera (Advisor: Dr Benjamin Wolozin)

Qualifying Exam Committees, Graduate Program for Neuroscience, Boston University (5 total; Chaired 3)
2015 Chair, Mariel Seiglie (Advisor: Dr. Valentina Sabino)
2016 Chair, Cassie Moore (Advisor: Dr. Pietro Cottone)
2019 Chair, Lisa Kretsge (Advisor: Dr. Alberto Cruz-Martin)
2019 Member, Kristyn N. Borrelli (Advisor: Me)
2020 Member, William B. Lynch (Advisor: Me)

Dissertation Advisory Committees, Graduate Program for Neuroscience, Boston University (7 total; Chaired 3)
2014 Alternate Member, Audrey J. DiMauro (Advisor: Dr. Howard Eichenbaum)
2015-18 Chair, Mariel Seiglie (Advisor: Dr. Valentina Sabino)
2016-19 Chair, Cassie Moore (Advisor: Dr. Pietro Cottone)
2018-21 First Reader, Kristyn Borrelli (Me)
2019-21 Chair, Lisa Kretsge (Advisor, Dr. Alberto Cruz-Martin)

2020 Member, Patricia Shaw (Advisor, Dr. Tarik Haydar)
2020-24 First Reader, Will Lynch (Advisor: Me)
2023- First Reader, Sophia Miracle (Advisor: Me)

Dissertation Advisory Committees from other Departments and Programs

2017-20 Member, Jiayi Wu (Advisor: Dr. Lindsay Farrer), Program in Biomedical Sciences, Genetics & Genomics
2018-19 Member, Tanya Karagiannis (Advisor: Dr. Christine Cheng), Bioinformatics, BU
2019- Member, Patrick Cleary (Advisor: Dr. Christine Cheng), Biology, BU

Transformative Training Program in Addiction Science (TTPAS) Committees (Director, Lindsay Farrer, Ph.D.; Burroughs Wellcome Fund Training Program)

2014-17 Neema Yazdani (Mentor)
2016-20 Qiu Ruan (Mentor)
2016-19 Jiayi Wu (Co-Mentor)
2017-22 Jacob Beierle (Mentor)
2018-22 Kristyn Borrelli (Mentor)
2020-25 Will Lynch (Mentor)

Division of Graduate Medical Sciences (GMS) Committees, Boston University Chobanian & Avedisian School of Medicine

2015-16 Academic Policy Committee (APC)

Other Committees at Boston University

2013-14 Committee on Future of Transgenic Core Facility, Deans Office, Boston University Chobanian & Avedisian School of Medicine
2014-16 Mouse Users Advisory Committee, Boston University Chobanian & Avedisian School of Medicine
2015- Core Advisory Committee, Boston University Chobanian & Avedisian School of Medicine
2020-23 Graduate Program in Neuroscience Diversity, Equity, Inclusion, and Justice (DEIJ) Committee, DEIJ Faculty Recruitment Subcommittee, DEIJ Student Recruitment Subcommittee
2021-23 Graduate Program for Neuroscience (GPN) Education Committee (ad hoc, reviewed GPN applications for PhD program)
2021-23 Search Committee for Center for Systems Neuroscience (CSN) & Psychological and Brain Sciences (PBS), Boston University Chobanian & Avedisian School of Medicine
2021 Search Committee for faculty hire at Associate Professor level, Anatomy and Neurobiology, Boston University Chobanian & Avedisian School of Medicine (Chair: Dr. Jennifer Luebke)
2022-23 Selection Committee for postdoc slots for the Center for Systems Neuroscience, Boston University

Committees at Northeastern University (August 2024-present)

2023- Chair, Search Committee, Translational Research in Psychiatry and Addiction, Center for Drug Discovery.
2023- Chair, Tenure and Promotions Committee for Dr. Leigh Plant, Pharmaceutical Sciences
2024- Member, Thesis Committee, Rachel White, Tali Konry Lab, Pharmaceutical Sciences
2024- Member, Tenure and Promotions Committee for Dr. Hideaki Yano, Pharmaceutical Sciences
2024- Member, Tenure and Promotions Committee, Stephen Hatfield
2024-2025 Member, Academic Council, By-Laws Committee, SOPPS
2024-2027 Member, Assessment Committee

Committees outside of Boston University and Northeastern University

2023 External Examiner, Hayley Thorpe, PhD Candidate at University of Guelph in Dr. Jibran Khokar's laboratory

2024- Advisory Committee Member for Dr. Sam Levy's (Stanford University) K99/R00 application, "Impacts of Prenatal Opioid Exposure on Neural Activity Underlying Spatial Navigation"

MENTORING ACTIVITIES

PhD students

Mentee, degrees()	Dates	Manuscript or product produced	Mentee current position
Lisa R. Goldberg, Ph.D., Pharmacology	2012-2017	**5:** PMIDs: 34677900 (**1st author**), 30632432, 29273772, 28594147 (**1st author**), 27914629	Data Analyst, Gould Lab, Penn State Univ, Project Manager, Taconic
Neema Yazdani, Ph.D., Pharmacology	2013-2017	PIMDs: 33145940, 32401417, 31704785, 30003938, 29273772, 28594147, 27914629, 27222804, 26658939 (**1st author**), 26643147, **Outstanding Graduate Student Award, IBANGS**	Product Lifecyle Program Manager at Exact Sciences
Qiu T. Ruan, Ph.D., Pharmacology	2016-2020	**5:** PMIDs: 34479978, 33145940, 32401417 (**1st author**), 31704785 1st author), 31324746, 30003938 (**1st author**)	Scientific Account Manager, Genedata
Jiayi Wu Cox (Co-Mentor), Ph.D., Genetics & Genomics	2016-2019	**2:** PMIDs: 27914629, 34677900	Data Scientist, Novartis
Jacob A. Beierle, Ph.D., Pharmacology	2017-2022	**14 co-authored papers, 2 first author:** 35688478, 35088629**. 1 preprint:** 38798314. **Outstanding Graduate Student Award, IBANGS**	Postdoc, Vivek Kumar's lab, The Jackson Laboratory
Kristyn N. Borrelli, Ph.D., Neuroscience	2017-2021	**4:** 35625888 (1st author), 34479978 (**1st author**), 33978997, 33758972 (**1st author**)	Consultant at Acsel Health, NYC, a life sciences consulting firm
Kelly K. Wingfield, Ph.D. candidate, Neuroscience	2022-2024	**3:** 37774943 (Co-1st), 39348003 (1st), **Outstanding Graduate Student Award, IBANGS 2022**	Graduated October 2024. Hired as data analyst in Bryant Lab through December 2024
William B. Lynch, Ph.D. candidate, Neuroscience	2020-2025	**1 paper:** 35688478 **1 preprint:** 39257803	Starts consulting position with major firm, September 2025
Sophia Miracle, Ph.D. candidate, Neuroscience	2023-	**1 paper:** 39348003 **1 preprint:** 39257803	PhD Candidate in the Bryant Lab

Postdocs

Mentee	Dates	Manuscript or product produced	Mentee current position
R. Keith Babbs, Ph.D.	2016-2018	**7:** 34479978, 33978997, 32209386 (**1st author**), 31324746 (**1st author**), 30261172 (**1st author**), 28594147, 27914629	Senior Scientist, Keros Therapeutics
Britahny Baskin, Ph.D.	2022-	**1 paper:** 39348003 **2 preprints:** 39257803, 38798314	Bryant Lab

Technicians, Lab Coordinators

Mentee	Dates	Manuscript or product produced	Mentee current position
Stacey L. Kirkpatrick (Lab Manager)	2012-2016	**7 papers:** 27914629 (**1st author**), 34677900, 31324746, 30632432, 28594147, 26658939, 25628547 **1 preprint:** 38798314	University of Florida, medical school. Graduated in 2020. Currently a 3rd year General Surgery Resident at University of Florida
Julia C. Kelliher (Lab Manager)	2016-2018	7 papers: 30261172, 30632432, 31324746, 32209386, 33978997, 34479978, 34677900 1 preprint: 38798314	Postdoc, BWH Harvard in Fanning and Selkoe labs
Kimberly P. Luttik (Technician)	2014-2018	8: PMIDs: 33978997, 33145940, 32401417, 31704785, 30261172, 30003938, 28594147, 27914629	Ph.D. candidate, neuroscience, Yale University
Melanie M. Chen (Lab Manager)	2018-2019	6: 34677900, 34479978, 33145940, 32209386, 31324746, 30632432	Research Technician, Satorious
Emily J. Yao (Lab Manager)	2018-2021	**6:** PMIDs: 33978997(**1st author**), 32209386, 34479978, 34677900, 35088629, 35688478	Currently employed at Dr. Karl Deisseroth's company, MapLight Therapeutics
Emma Sandago (Technician, Lab Coordinator	2023: technician 2024- Lab Coordinator	1 paper: 39348003 1 preprint:	Bryant Lab
Bridgette Reilly	2023		Research Technician at MGH
Yahia Adla (Technician)	2024-	1 preprint: 38798314	Bryant Lab

Master's students

Mentee	Dates	Manuscript or product produced	Mentee current position
Alex Luong (MAMS, BU)	2016-17	PMID: 39801366	

Mengyuan Liu (Pharmaceutical Sciences, NU)	2024-		
Aniketh Tathachar, (Pharmaceutical Engineering, NU)	2024-		

TEACHING EXPERIENCE AND RESPONSIBILITIES (BUSM)

Dates	Title Course	Role	Contact hours/week	Enrollment N
2012-	**NE500-501:** Frontiers in Neuroscience	Discussion Leader	2h/year	10-15
2013-20	**MED MS 220-226:** Disease and Therapy (DRx 1) Foundations Module	Discussion Leader	4h/year	100-150
2013-	**GMS GE 701:** Principles in Genetics and Genomics	Faculty Lecturer	4h/year	10-15
2014-	**GMS PM 702:** Molecular Neurobiology and Pharmacology	Lecturer	2h/year	10-15
2014-	**GMS PM 801:** Systems Pharmacology	Lecturer	2h/year	10-15
2014-	**SDM MD 530:** Dental Pharmacology	Lecturer	2h/year	100-150
2016-18	**GMS PM 810:** Current Topics in Pharmaceutical Sciences	Discussion Leader	2h/week	8-10
2016	**BI/NE 741:** Neural Systems I: Functional Circuit Analysis	Lecturer	1h/year	10-15
2016-	**GMS PM 701:** Molecular and Translational Pharmacology	Lecturer	4h/year	10-15
2017-	**GMS PM 820:** Behavioral Pharmacology	Lecturer (1h), Discussion Leader (1h)	2h/year	8-10
2019-	**GMS FC 705:** Translational Genetics and Genomics	Lecturer (2h), Discussion Leader (2h)	4h/year	5-10
2020-	**GMS 710 A1:** Addiction Science	Lecturer	2h/year	10-15
2021-	MS 146 M3: PriSM Foundations of Pharmacology and Pathology	Lecturer (2h) and Discussion Leader (4h)	6h/year	100-150

COURSES AT NORTHEASTERN UNIVERSITY

2024- PHSC 6224: Behavioral Pharmacology & Drug Discovery (spring). Director/Coordinator
2024 PHCS 5360: Anti-infectives (summer). Director/Coordinator

OTHER TEACHING EXPERIENCE

1998 **Undergraduate physiology** course, University of Illinois, Urbana-Champaign. I was chosen among the top physiology students to tutor undergraduates for the course. Dr. Esmail Meisami was the Course Director.
2001 **Behavioral Neuroscience, UCLA**. I was a T.A. for the course and ran a weekly two-hour discussion section. Dr. Barney A. Schlinger, Ph.D. was the Course Director.
2007 **Addiction Biology, Banbury Center Course, Cold Spring Harbor.** I served as a T.A. for the course. Drs. Mark Von Zastrow and Christopher J. Evans were the Course Directors.

DIVERSITY, EQUITY, INCLUSION, AND BELONGING ACTIVITIES

See also BU Profile: https://profiles.bu.edu/Camron.Bryant
2015- Mentor for the NIH/NIDA Summer Undergraduate Research Fellow program
2016 Visit University of the Virgin Islands and helped recruit two PhD students
2020- Faculty member, DEIJ Committee, Graduate Program for Neuroscience
2021 Attended "Fundamentals: Equity in Graduate Admissions"
2021- Mentor for the BU PREP Program for postbaccalaureate researchers from underrepresented backgrounds
2022- Presented at NIH/NIDA Mock Study Section Workshop: "Introspection on my grant writing successes and failures
2022 Attended "Strategies for Equity-Based Holistic Review in Ph.D. Admissions"
2022 Attended workshop on evaluating DEIJ statements
2022 Attended workshop on DEIJ activities and preparing statement
2022 Attended ACNP panel, "Mentoring people different than you"
2023 Participated in "speed mentoring" workshop at IBANGS 2023, Galway, Ireland

Rotation Graduate Students

2013 **Melissa Mcloed:** Biomolecular Pharmacology at BUSM
2013 **Amanda Bolgioni:** Biomolecular Pharmacology at BUSM.
2014 **Cassie Moore:** Graduate Program in Neuroscience at BUSM.
2015 **Samantha Shelton:** Ph.D. student in Graduate Program for Neuroscience at BUSM
2015 **Eric Reed:** Ph.D. student in Bioinformatics at BUSM (early fall)
2015 **Qiu Rian:** Ph.D. student in Biomolecular Pharmacology at BUSM (late fall).
2016 **Jiayi Wu:** Ph.D. student in Program in Biomedical Sciences (late spring)
2016 **Sema Quadir:** Ph.D. student in Biomolecular Pharmacology at BUSM (early fall)
2016 **Lisa Kretsge:** Ph.D. student in Graduate Program in Neuroscience (late fall)
2016 **Jacob Beierle:** Ph.D. student in Biomolecular Pharmacology, BUSM (late fall)
2017 **Gregory Wirak:** Ph.D. student in Biomolecular Pharmacology, BUSM (early spring)
2017 **Kristyn Borrelli,** Ph.D. student in Graduate Program in Neuroscience, BUSM (late spring)
2019 **Lucy Peterson**, Ph.D. student in Biomolecular Pharmacology, BUSM (early fall)
2020 **Will Lynch**, Ph.D. student in Graduate Program in Neuroscience, BUSM (early spring)
2020 **Kelly Wingfield**, Ph.D. student in Biomolecular Pharmacology, BUSM (early spring)
2020 **Mackenzie Gamble**, Ph.D. student, Program in Biomedical Sciences, BUSM (fall)
2020 **Ana Vitantino** Ph.D. student in Biomolecular Pharmacology, BUSM
2020 **Pablo Llevenes**, Ph.D. student in Biomolecular Pharmacology, BUSM
2021 **Chinyere Kemet**, Ph.D. student in Biomolecular Pharmacology, BUSM
2021 **Jenna Libra**, Ph.D. student in Biomolecular Pharmacology, BUSM
2021 **Stanley Goldstein**, Ph.D. student in Biomolecular Pharmacology, BUSM
2022 **Sophia Miracle**, Ph.D. student in BU's Graduate Program for Neuroscience

Undergraduate Students

Boston University
2013 **Dickson Lau:** Undergraduate work-study student
2013 **Samantha Mauro:** Intern volunteer. Samantha graduated in 2014 and has since worked as a Clinical Research Coordinator at Massachussetts General Hosptial and is currently a Trial

Document Specialist at Novartis Institutes for Biomedical Research.

2013-14 **Catherine Villani:** Undergraduate work-study student and summer volunteer intern

2013-14 **Alexis Washburn:** Undergraduate work-study student. Alexis won a UROP stipend award. Award and recipient of the 2016 UROP Outstanding Student Researcher Award

2013-14 **Alyssa Nagpal:** Intern Volunteer from Northeastern University

2014-18 **Kimberly Luttik:** Work-study undergraduate. Summer 2016 recipient of UROP stipend

2013-14 **Rhonda Silva:** Biomedical Engineering undergraduate. Rhonda won an engineering contest for building a "lickometer" in our lab for behavioral studies. She graduated in 2014 and is currently a Data Analyst Intern at Thync, Center for Advanced Biomedical Imaging and Photonics, Harvard University. Currently works in R&D for startup companies.

2014-15 **Lauren Palena:** Transferred to Rutgers, graduated with undergrad degree in biological sciences, then went to vet school at UPenn and is now a veterinarian.

2014 **Tess Levy:** Summer intern, Neuroscience undergraduate from McGill University. Tess went on to obtain an undergraduate position in Dr. Jeffrey Mogil's laboratory and is currently earning her Master's degree in genetic counseling.

2014-15 **Emily Vanscoy:** Work-study student.

2014 **Sarah Zerbi:** Volunteer intern. Transferred to Northeastern University.

2014-15 **Michael Chau:** Undergraduate work-study. Michael is now an intern optometry technician.

2014-16 **Olga Lacki:** Neuroscience. Olga won a Undergraduate Research Opportunity Program (UROP) stipend for both summer of 2014 and fall 2014 semesters and spring 2015.

2014-16 **Kelsey Landaverde:** Awarded 2015 Summer UROP stipend for examining placebo response to anxiolytics in mice

2015-18 **Justin Chung**: Undergraduate

2015-17 **Sydney Crotts:** Undergraduate major in neuroscience.

2015-17 **Benjamin Chew:** Undergraduate

2016-18 **Julia Kelliher:** Neuroscience. Hired as Technician and Lab Manager 2016-2018.

2016-18 **Fabiola Benitez**

2016-19 **Julia Scotellaro:** Received UROP award for Summer 2017, 2018. Winner of the Outstanding Student Researcher Award for UROP, 2017, Honor's senior thesis

2016-18 **Johanne Pierre,** BU undergrad

2016-17 **Anna Lourdes Cruz,** BU undergrad

2016-16 **Michelle Sibol,** BU undergrad

2017-18 **Ashley Feng,** BU undergrads

2017-18 **Karen Zheng,** BU undergrad, UROP award winner, summer 2018

2017-17 **Allison Zuckerberg,** BU undergrad

2017-18 **Nathaniel Smith,** BU undergrad

2017-18 **Kyra Dubinsky**, BU undergrad

2018-19 **Emiily Yao**, BU Undergrad. Hired as a technician after graduation. Currently employed at MapLight

2018-19 **Madeline Simota**, BU Undergrad

2018-20 **Chih-Cheng Wu,** BU undergrad, human physiology

2018-18 **McKenzie Griffin**

2018-20 **Carly Langan**, BU undergrad, neuroscience

2018-20 **Amarpreet (Skyler) Kandola**, BU undergrad, neuroscience

2018-20 **Anyaa Shah,** BU undergrad, neuroscience, senior thesis

2019-21 **Catalina Zamorano,** BU undergrad, neuroscience, senior thesis

2019-22 **Katherine Sena,** BU undergrad, neuroscience (UROP Summer 2021)

2019-20 **Isabella O'Shea**, BU undergrad, neuroscience

2020- **Rhea Bhandari**, BU undergrad, neuroscience

2021- **Ava Farnan,** Neuroscience

2021- **Alyssa Wong, BU**

2021- **Michelle Roos, BU**

2021-21 **Rebecca Cole** (UROP Summer 2021)

2022-23 **Teodora Misic** (UROP Summer 2022)

2022- **Binh-Minh Nguyen,** BU
2022-22 **Sheilly Patel, BU**
2022- **Carly Mcdermott, BU**
2022-23 **Kaahini Jain,** BU neuroscience
2022- **Nalia Abney**, BU neuroscience and psychology
2022- **Lauren B. Nsele**, BU biochemistry and molecular biology, work-study
2023- **Ethan Gerhardt**, BU (biochemistry). UROP award, Fall 2023)
2023- **Rhea Rai**, BU (neuroscience)
2023- **Ana Braun**, BU (neuroscience)
2023- **Olivia Barclay**, BU (psychology)
2023 **Daniel Schmidlin**, BU (psychology)
2023 **Alexandra Panepinto**, BU (psychology)
2023-24 **Isabel Bojorquez-Emmons**, BU (neuroscience)
2023- **Trinity Olander**, BU (neuroscience)
2023- **Anastasia Rigas**, BU (neuroscience)
2024 **Nina Garbarino** (NEU, Behavioral Neuroscience UG researcher). Document three Peak awards she received
2024- **Isabella Conti** (NEU, Behavioral Neuroscience, UG researcher)
2024- **Morgan Hofmeyer** (BU, Neuroscience, UG researcher)
2024 **Caroline Topping** (NEU, Psychology, UG researcher)
2024- **Grace Whitney** (NEU, UG researcher)
2024- **Kaylie Kaneshiro** (Tufts, Biology, UG researcher)
2025- **Matthew Yakir** (NU, UG researcher)

Visiting summer students and scholars

2013 **Bridget Gottlieb:** Summer RISE high school intern in BUSM. Currently and undergraduate at Johns Hopkins University
2015-16: **Sai Nedu:** High school volunteer who is now at Tulane University.
2015 **Jenna Grant:** Undergraduate student from the University of New Orleans who is the recipient of a NIDA Summer Program Stipend Award.
2015 **Josh Wortzel:** M.D. student at Stanford University School of Medicine. Josh was part of the Medical Scholars program at Stanford and conducted a summer project regarding individual differences in placebo responding and its relationship to reward expectation in mice.
2016 **Fred Rodriguez:** Undergraduate from Binghamton University, SUNY who is the recipient of a NIDA Summer Program Stipend Award
2016,17 **Melanie Chen:** Undergraduate from UC-Davis who volunteered. Later hired as technician.
2016 **Suditi Rahematpura:** RISE high school intern from Switzerland
2017 **Timothy Drescher**, undergrad summer volunteer, UMASS Amherst
2017 **Diego F. Trujillo,** undergrad and STARS scholar, New Mexico Highlands University.
2018 **Wendelin Marmol**, NIDA summer undergrad fellow, Quinnipiac Univerrsity
2018 **Jeya Anandakumar**, NIDA summer undergrad fellow, Portland State University
2019 **Arthurine (Rose) Medeiros**, NIDA summer undergrad fellow, Grinell College, biochemistry
2022 **Mia Rubman** (Bucknell University), NIDA summer undergraduate fellow
2022 **Ida Kazerani** (UCSB), NIDA summer undergraduate fellow
2022 **Gabriel Saavedra:** RISE high school intern, originally from Peru
2023- **Reilly Thompson:** NIDA summer undergraduate fellow from Wheaton College
2023- **Ines Donnelly** (RISE high school intern)
2023- **Aditya Anthati** (RISE high school intern)
2023- **Megan Quinn** (summer fellow from Kenyon College)
2024- **Fernanda Camily Hidalgo Goncalves** (summer fellow from Williams College)

<u>The University of Chicago</u>

2008-9 **Hsien Chang:** Undergraduate student at University of Chicago. Hsien attended medical

school in Korea.
2008-9 **Melissa Graham:** Undergraduate student at University of Chicago. Melissa attended veterinary at University of Wisconsin.
2011 **Alexandra Dattilo:** Attended medical school.
2009-12 **Loren Kole:** Loren started working for me while she attended University of Chicago's prestigious Lab School. She is currently a senior at the University of Pennyslvania.
2009-12 **Michael Guido:** Undergraduate researcher at University of Chicago and technician.

OTHER PROFESSIONAL ACTIVITIES

PROFESSIONAL SOCIETIES: MEMBERSHIP, OFFICES, AND COMMITTEE ASSIGNMENTS

International Behavioural and Neural Genetics Society (IBANGS)
2007- Member
2014-15 Awards Committee, International Behavioural and Neural Genetics Society
2015-18 Member-at-Large, ExComm, IBANGS (2015-2018)
2015-18 Chair, Membership Committee
2019- Program Committee, IBANGS 2022, Memphis, TN USA
9/23/20 Chair, Trainee Day, International Behavioural and Neural Genetics Society (virtual)
2020-21 Local Organizing Committee
2020-21 Chair of Program Committee and Local Organizing Committee, Host of the 2020 IBANGS Meeting in Woods Hole, MA (re-scheduled for 2021 due to COVID-19)
2020-23 President, IBANGS

American College of Neuropsychopharmacology (ACNP)
2011-15 Travel Awardee (competitive; invited award), ACNP
2016-19 Associate Member (competitive), ACNP
2020- Full Member (competitive), ACNP
2025-27 Member, Animal Research Committee, ACNP

Society for Neuroscience (SFN)
2000- Member

NeuroBoston (Boston Area Neuro Group; BANG; Local Society for Neuroscience Chapter)
2021-22 Chair, Planning Committee, and local host in 2021 (virtual) and 2022 (Boston University)

International Narcotics Research Conference (INRC)
2001- Member
2022 Mentor for "speed mentoring" workshop at the 2022 INRC meeting in Valencia, Spain.

Complex Trait Community (CTC)
2009- Member

World Congress of Psychiatric Genetics
2013- Member
2018- Member of the Psychiatric Genetics Consortium (PGC) workgroup on Eating Disorders (PGC-ED)

Winter Conference on Brain Research
2014- Member

NIH/NIDA Genetics and Epigenetics Cross-Cutting Research Team (GECCRT) Meeting
2016- Member

Study Sections

Ad Hoc Reviewer

2015 NIDA/NIH RFA- DA-16-004, 2016/01 ZDA JXR-G (68)
2016 NIDA/NIH PAR-DA-15-120 (RFA-DA-16-014)
2016 MNPS, *Ad Hoc* Reviewer
2019 NIH BRLE, ZRG1 BBBP-X(03) M
2019 NIH BRLE
2020 NIH/NIDA PAR-18-789
2020 NIH/NIDA PA-20-188, PA-20-187, PAR-18-746
2020 NIH BRLE, ZRG1 BBBP-Y03, *Ad hoc* Reviewer
2021 NIH/NIDA PAR-20-241 2021/05 ZRG1 ETTN-B(55) R
2021 NIH/NIDA PAR-19-278
2021 NIH/NIDA PA-19-278

Standing Study Section Member

2021-25 NIH BRLE – Biobehavioral Regulation, Learning and Ethology Study Section

National Science Center, Poland

2022 Invitation to review grant proposal for the National Science Center, Poland. ID: 537993, OPUS-22, NZ5, Maj Institute of Pharmacology, Polish Academy of Sciences,

Editorial Boards

2022- *Genes, Brain and Behavior*. Editor-In-Chief: Dr. Andrew Holmes (NIH/NIAAA). Effective 9/16/22

Ad Hoc Reviewer

2005- *Pain*
2006- *Neuroscience*
2009- *Drug and Alcohol Dependence*
2010- *Physiology and Behavior*
2010- *Psychopharmacology*
2011- *Experimental and Clinical Psychopharmacology*
2011- *Genes, Brain and Behavior*
2011 *Neurogastroenterology and Motility*
2012- *Frontiers in Genetics* - Review Editor
2013- *PLoS One*
2013- *Mammalian Genome*
2014- *Frontiers in Behavioral Neuroscience*
2014- *Biological Psychiatry*
2015- *Alcoholism: Clinical and Experimental Research*
2015- *Frontiers in Neuroscience*
2015- *BMC Medical Genetics*
2015- *Behavior Genetics*
2015- *Stress*
2015- *PLOS Genetics*
2015- *Genetics* (Invited; declined to review due to COI)
2016- *Nature Genetics*
2016- *Behavioural Brain Research*

2016- *PNAS - invitation*
2017- *Scientific Reports*
2017- *Genomics*
2017- *Pharmacology, Biochemistry, and Behavior*
2017- *Neuropsychopharmacology*
2018- *Molecular Psychiatry*
2018- *Frontiers in Psychiatry*
2019- *Obesity*
2019- *Addiction Biology*
2019- *Translational Psychiatry*
2019- *Neuropharmacology*
2019- *Nutrients*
2019- *BMC Genetics*
2020- *Journal of Alzheimer's Disease*
2020- *eNeuro*
2020- *Molecular Brain*
2021- *Communications Biology*
2021- *Nature Neuroscience*
2022- *Progress in Neuropsychopharmacology and Biological Psychiatry*
2022- *Addiction Neuroscience*
2022- *Cell Reports*
2023- *Neurobiology of Learning and Memory*
2024- *Trends in Neurosciences (TINS) (invited)*
2024- *Neurotoxicology and Teratology*

Additional Service

2013-23 Hosted 26 seminar speakers at Boston University
2016 Invited panel discussant for poster session for NIDA Genetics Consortium Meeting
2020-23 Member, Russek Student Achievement Day Awards Committee, Boston University
2021 Basic Science Review of the departments, Boston University Chobanian & Avedisian School of Medicine.
2022 Grant applications reviewer for Center for Translational Neuroscience Institute (CTSI), Boston University, January 2022
2022 Grant applications reviewer for the Genome Sciences Institute (GSI), Boston University Chobanian & Avedisian School of Medicine, March 2022

OTHER SUPPORT

Current:

05/01/2022-02/28/2027 **U01DA055299** PI: Bryant; MPI: Kantak
Systems genetics of premorbid and cocaine use traits in a rat reduced complexity cross
Costs, Total: $3,520,916
Role: PI
Calendar Months: 2.4

7/01/2020-8/31/2025 **U01DA050243** PI: Bryant
A reduced complexity cross in BALB/c substrains to identify the genetic basis of oxycodone dependence phenotypes
Cost, Total: $3,339,211
Role: PI
Calendar Months: 3.6

08/01/2023-07/31/2026 F31DA056217 PI: Lynch

The role of Zhx2 in CYP2D regulation, oxycodone metabolism, and opioid addiction model behaviors
Role: Sponsor

02/01/2024-12/31/2024 **T32DA055553** PI: Booth
Training Program on Development of Medications for Substance Use Disorder
Role: Sponsor for Dr. Britahny Baskin (postdoc)

Pending

07/01/2025-06/30/2030 1 R01 DA063783-01
PI: Desmond Smith
"Genetic analysis of cocaine misuse, circadian rhythms and sleep using the hybrid mouse diversity panel"
Cost, Total: $2,362,500
Role: Consultant ($5000/year)

Past:

02/01/2018-1/31/2022 (NCE) **R01CA221260** PI: Damaj
Genetic basis of chemotherapy-induced neuropathy in a reduced complexity cross
Cost, Total: $1,692,742
Role: MPI
Calendar Months: 2.4

07/01/2018-06/30/2023 **T32GM008541** PI: Farb
Training in Biomolecular Pharmacology
Cost, Total: $1,152,650
Role: Faculty Mentor
Calendar Months: 0

07/01/2015-06/30/2020 **R01DA039168** PI: Bryant
Bridging Genetic variation with Behavior: Molecular and Functional Mechanisms of Quantitative Trait Gene Regulation of the Stimulant and Addictive Properties of Methamphetamine in Mice
Cost, Total: $3,026,929
Role: PI
Calendar Months: 3.6

09/01/2019-08/31/2020 **Spivack Award** PI: Bryant
Clinical Training and Science Institute (**CTSI**), Boston University
Cost, Total: $25,000
Role: PI

08/01/2019-07/31/2020 **P30DA044223 (pilot)** PI: Bryant
Deep behavioral phenotyping of addiction phenotypes in rat SHR substrains for a Rat Reduced Complexity Cross
Cost, Total: $23,000
***Role*:** Subaward PI

07/01/2017-06/30/2019 **U01DA044399** PI: Peltz (subaward: Bryant)
Computational methods for identification of genetic factors affecting the response to drug abuse
Cost, Total: $1,045,193
***Role*:** Subaward PI

05/01/2016-04/30/2019 **F31DA040324-01A1** PI: Yazdani
Functional mechanisms of *Hnrnph1* in methamphetamine addictive behaviors
Cost, Total: $101,579
Role: Sponsor

09/15/2015-08/31/2017 **R21DA038738** PI: Bryant

Genetic basis of binge eating and its motivational components in a reduced complexity cross
Cost, Total: $464,874
***Role*:** PI

07/01/2015-06/30/2020 **3R01DA039168-03S1** PI: Bryant
Bridging Genetic variation with Behavior: Molecular and Functional Mechanisms of Quantitative Trait Gene Regulation of the Stimulant and Addictive Properties of Methamphetamine in Mice
Cost, Total: $164,243 (supplement)
***Role*:** PI
Calendar Months: 0

06/01/2015-08/30/2015 **R00DA029635 05S1** PI: Bryant
Genetic Basis of Opioid Reward and Aversion in Mice
Cost, Total: $7926 (supplement for NIDA summer undergrad researcher)

01/01/2015-12/31/2015 **Spivack Award** PI: Bryant
Clinical Training and Science Institute (**CTSI**), Boston University
Cost, Total: $8000

07/01/2014-06/30/2016 **R03DA038287** PI: Bryant
Mapping G x E Interactions for Addiction Traits in a Reduced Complexity Cross
Cost, Total: $175,472

05/01/2011-04/30/2016 **R00DA029635** PI: Bryant
Genetic Basis of Opioid Reward and Aversion in Mice
Cost, Total: $737,472

05/01/2011-04/30/2013 **K99DA029635** PI: Bryant
Genetic Basis of Opioid Reward and Aversion in Mice
Cost, Total: $297,387
Role: PI
Calendar Months: 12

06/01/2009-05/31/2010 **F32DA026697** PI: Bryant
Translational Genetics and Dopamine Signaling in Sensitivity to Amphetamines
Cost, Total: $50,054
***Role*:** PI
Calendar Months: 12

INVITED LECTURES, PRESENTATIONS, SYMPOSIA, AND WORKSHOPS

Local Level (since joining Northeastern University)

11/14/2023 "Moving from genetic/genomic discovery to drug targets in opioid addiction model traits: From neonates to adults", Scientific Advisory Board, Center for Drug Discovery, Northeastern University

09/??/2024 "Murine quantitative genetics in near-isogenic rodent substrains for rapid genetic and drug target discovery." Research Showcase, Department of Pharmaceutical Sciences, Northeastern University

12/13/2024 **"**Quantitative genetics of addiction model traits in near-isogenic rodent substrains for rapid genetic and drug target discovery." Joint symposium with Chemical Engineering and Pharmaceutical Sciences to foster collaborations, Northeastern University

National Level

04/03/2013 ***"****Successes and cautionary tales in the congenic approach to high resolution QTL mapping."* **Department of Genetics, University of North Carolina, Chapel Hill, USA**

01/29/2014 *"A role for casein kinase 1-epsilon in the motivational properties of drugs of abuse."*

Winter Conference on Brain Research, Steamboat Springs, CO, USA

04/04/2014 *"From drugs to food: Genetic approaches to the neurobiology of substance abuse in mice."* **Department of Psychology Seminar, Middlebury College, Middlebury, VT**

04/28/2014 *"Mouse genomics and the neurobiology of substance abuse behavior: From drugs to food."* **Center for Studies of Addiction, Department of Psychiatry Penn Public Health, Perleman School of Medicine, University of Pennsylvania, Philadelphia, PA**

05/10/2014 Chair, "Behavioral, neural and genetic studies of compulsive eating in model organisms and humans." Cynthia M. Bulik, Ph.D., Nicole Avena, Ph.D., Iris Bolis, Ph.D., Garret Stuber, Ph.D. **International Behavioural and Neural Genetics Society, Chicago, IL, USA**

01/27/2015 Chair, "Genomic and neurobiological studies of RNA binding proteins in complex traits relevant to psychiatric disorders." Camron D. Bryant, Ph.D., Laura N. Smith, Ph.D., Joseph Dougherty, Ph.D., Vivek Kumar, Ph.D. **Winter Conference on Brain Research, Big Sky, Montana USA**

03/05/2015 *"Quantitative trait gene mapping and transcriptomics of drug and food addiction behaviors."* **University of Massachusetts Chan Medical School, Neuroscience Seminar Series**

02/03/2016 *"Finding new genes and neural mechanisms of addiction traits using quantitative genetics, gene editing, and transcriptomics".* **University of the Virgin Islands**

10/18/2016 *"Systems genetic analysis of drug and food addiction traits in mice".* **McLean Hospital Neuroscience Seminar Series, Harvard Medical School**

03/9/2017 *"Systems genetic analysis of drug and food addiction traits in mice".* **Department of Genetics and Genome Sciences, University of Connecticut**

09/21/2017 *"Harnessing reduced genetic complexity to rapidly identify quantitative trait genes underlying addiction traits".* **James S. McDonnell Department of Genetics Fall Seminar Series, Washington University School of Medicine, St. Louis, MO USA**

08/02/2018 *"Gene mapping made "easy: Reduced complexity crosses for discovering genes influencing opioid and psychostimulant addiction traits".* **3rd Annual Chemistry and Pharmacology of Drug Abuse (CPDA) Conference, Northeastern University, Boston, MA USA**

09/09/2019 *"Power, speed, and precision: Reduced complexity crosses for genetic mapping of complex traits relevant to pain and psychiatric disorders."* **Department of Genetics, Genomics, and Informatics, University of Tennessee Health Science Center**

01/13/2020 *"Expanding reduced complexity crosses from mice to rats".* International Rat Omics Consortium and NIDA Genetics and Epigenetics Consortium, **NIDA Headquarters, Rockville, MD USA**

12/09/2020 *"How to download and use Twitter_An ACNP tutorial".* ACNP Career Development Session- Social Media in Science: Contributing to the Online Social Platforms as a Scientist. I have a social media profile…Now what? **American College of Neuropsychopharmacology**, https://youtu.be/QMi2Wpuj3kc

05/21/2021 *"Embracing genetic simplicity: Systems genetic analysis of thermal nociception and chemotherapy-induced peripheral neuropathy using reduced complexity crosses".* #Pain2021, **Translational Pain Research Consortium of the Gulf Coast Consortia and Texas Pain Research Consortium. May 21, 2021**

09/21/2021 *From lemons to lemonade: Embracing genetic and phenotypic drift in rodent substrains for efficient gene mapping of addiction traits".* **Department of Pharmacology and Toxicology, Virginia Commonwealth University**

09/24/2021 ***"****The curses and blessings of extremely reduced genetic complexity: Landmines and goldmines",* **Division of Neuroscience and Behavior (DNB), NIH/NIDA**

05/18/2022 *"Introspection on my grant writing successes and failures".* NIDA Mock Study Section Workshop. I was invited by my Program Officer, Dr. Amy Lossie, to speak on this issue based on my grant success rate and recently funded awards. **NIH/NIDA**

02/02/2023 *"From landmines to goldmines: Exploiting reduced genetic complexity for rapid gene identification of pharmacogenomic traits."* **Behavioral and Translational Science of**

Addiction, Northeastern University

04/11/2023 *"Exploiting reduced genetic complexity for rapid pharmacogenomic discovery in addiction-relevant traits."* **Center for Drug Discovery, Department of Pharmaceutical Sciences, Northeastern University**

08/03/2023 The dynamic, methamphetamine-induced targetome of the RNA-binding protein hnRNP H and its relationship to methamphetamine behaviors. **Chemistry and Pharmacology of Drug Abuse (CPDA) Conference, Northeastern University**

12/08/2024 **Chair, Symposium,** "Expectations, Contextual, and Placebo Effects: Brain Mechanisms and tangible applications." **ACNP 2024, Phoenix, AZ USA**

01/23/2025 Co-Chair, "Genetic regulators of opioid behaviors and opioid use disorders." Talk: Molecular mechanisms linking Zhx2 dysfunction to brain oxycodone metabolite (oxymorphone) concentrations and oxycodone behaviors. **Winter Conference on Brain Research, Lake Tahoe, CA USA.**

06/14/2025 (applied, symposium member) Third trimester-approximate opioid exposure as a mouse model to identify treatment targets for aversion/dysphoria in neonatal opioid withdrawal syndrome. Symposium submitted by Dr. Da-Yu Wu title, "Fetal and neonatal opioid exposure and its consequences to the developing brain". **CPDD, New Orleans, LA, USA**

International Level

5/21/2013 *"A 0.23 Mb region regulates methamphetamine sensitivity in mice."* Outstanding Junior Faculty Travel Award Presentation, **IBANGS, Leuven, Belgium**

10/18/2013 *"A 0.23 Mb Region Regulates Methamphetamine Sensitivity in Mice."* **World Congress of Psychiatric Genetics, Boston, MA USA**

05/12/2014 *"Genes, brain and addiction traits: Moving from discovery toward validation and mechanism".* Young Scientist Award, **IBANGS, Chicago, IL, USA**

06/11/2015 *"Food, Drugs, and QTLs: Mapping behavioral addiction traits in the reduced complexity cross."* **Complex Trait Community, Portland, OR USA**

05/15/2016 *Chair, Symposium, ""RNA binding proteins in neural development, plasticity and psychiatric disorders." Talk: "Transcriptional and splicing networks associated with methamphetamine behavioral and neuroanatomical dysfunction in Hnrnph1 (heterogeneous nuclear ribonucleoprotein H1) knockouts.* **IBANGS, Bar Harbor, ME USA**

06/15/2017 *"Systems genetics combined with in a rapid fine mapping strategy in a reduced complexity cross identifies Rgs7 and other candidates underlying opioid addiction traits."* **Complex Trait Community, Memphis, TN, USA**

10/14/2018 Chair, Symposium: *"Mammalian Genetics of Eating Disorders: Preclinical and Clinical Genetic and Biological Risk Factors."* Talk: *"Dissecting Cyfip1 and Cyfip2 contributions to compulsive-like behavior and binge eating in mice: Implications for eating disorders and neurodevelopmental disorders with hyperphagia."* **World Congress on Psychiatric Genetics, October 11-15, 2018, Glasgow, Scotland**

05/11/2019 Chair, *"Genetics and neurobiology of disordered eating in mice and humans".* Speakers: Dr. Camron D. Bryant, Dr. Stephanie C. Dulawa, Dr. Andrea Hierenga, Dr. Christopher Hubel. **International Behavioural and Neural Genetics Society, Edinburgh, Scotland UK.**

10/19/2020 *"Systems genetic analysis of binge-like eating in a C57BL/6J x DBA/2J-F2 cross identifies Adipor2 and Plxnd1 as positional and functional candidate genes."* **World Congress on Psychiatric Genetics**

05/15/2021 Chair, "Neonatal Opioid Withdrawal Syndrome in Mice and Humans". Speakers Dr. Julie Blendy, Dr. Elizabeth Yen, Kristyn Borrelli (my student), and Dr. Elisha Wachman. **International Behavioural and Neural Genetics Society**

09/01/2021 *"Genetic basis of thermal nociceptive sensitivity and brain weight in a BALB/c reduced complexity cross."* **Complex Trait Community, Manchester, UK**

07/07/2022 Talk from invited symposium (Chair: Julie Blendy), *"Behavioral and transcriptomic adaptations in outbred CFW mice and inbred FVB substrain differences in a model for*

neonatal opioid withdrawal syndrome". **International Narcotics Research Conference, Valencia, Spain**

06/26/2023 *"Gazing into the crystal BALB": Opportunities for neurobehavioral genetic discovery in near-isogenic BALB/c substrains.".* Symposium: "Recent progress in identifying the genes and genetic pathways that impact addiction-traits". Chaired by Drs. Jared Bagley and J. David Jentsch. **International Behavioral Neuroscience Society, Niagara Falls, Ontario, Canada**

10/09/2023 "Oxycodone addiction model behaviors following constitutive, reciprocal gene editing vs. adult brain/liver overexpression in BALB/cJ substrains.", Session on Addiction, **Complex Trait Community, Memphis, TN USA**

BIBLIOGRAPHY:

***** co-first authorship

My NCBI: https://www.ncbi.nlm.nih.gov/myncbi/camron.bryant.1/bibliography/public/

Original, Peer-Reviewed Articles

1. Wilson SG*****, **Bryant CD***, Lariviere WR, Olsen MS, Giles BE, Chesler EJ, Mogil JS **(2003).** The heritability of antinociception II: Pharmacogenetic mediation of three over-the-counter analgesics in mice. ***Journal of Pharmacology and Experimental Therapeutics*** *305(2):755-64.*

2. Eitan S, **Bryant CD**, Saliminejad N, Yang YC, Vojdani E, Polakiewicz R, Evans CJ **(2003).** Brain region-specific mechanisms of morphine-induced MAPK modulation and distinct patterns of activation during analgesic tolerance and locomotor sensitization. ***Journal of Neuroscience*** *23(23):8360-9.*

3. Lutfy K, Eitan S, **Bryant CD**, Yang YC, Walwyn W, Saliminejad N, Kieffer BL, Takeshima H, Carroll FI, Maidment NT, and Evans CJ **(2003).** Buprenorphine-induced antinociception is mediated by mu receptors and compromised by concomitant activation of opioid-like receptor-1 receptors. ***Journal of Neuroscience*** *23(32):10331-7.*

4. **Bryant CD,** Eitan S, Sinchak K, Fanselow MS, Evans CJ **(2006)**. NMDA receptor antagonism disrupts the development of morphine analgesic tolerance in male, but not female C57BL/6J mice. ***American Journal of Physiology: Regulatory, Comparative and Integrative Physiology*** *292(2):R315-R326.*

5. **Bryant CD**, Roberts KW, Byun JS, Fanselow, MS, Evans CJ **(2006)**. Morphine analgesic tolerance in 129P3/J and 129S6/SvEv mice. ***Pharmacology, Biochemistry and Behavior*** *85(4):769-79.*

6. Gioiosa L, Chen X, Watkins R, Klanfer N, **Bryant CD**, Evans CJ, Arnold AP **(2008).** Sex chromosome complement affects nociception in tests of acute and chronic exposure to morphine in mice. ***Hormones and Behavior*** *53(1):124-130.*

7. **Bryant CD**, Zhang NN, Sokoloff G, Fanselow MS, Ennes HS, Palmer AA, McRoberts JA **(2008)**. Behavioral differences among C57BL/6 substrains: Implications for transgenic and knockout studies. ***Journal of Neurogenetics*** *22(4):315-31.*

8. **Bryant CD**, Graham ME, Distler MG, Munoz MB, Li D, Vezina P, Sokoloff G, Palmer AA **(2009)**. A role for casein kinase 1 epsilon in the locomotor stimulant response to methamphetamine. ***Psychopharmacology*** *203(4):703-11.*

9. **Bryant CD**, Roberts KW, Culbertson CS, Le A, Evans CJ, Fanselow MS **(2009)**. Pavlovian conditioning of multiple opioid-like responses in mice. ***Drug and Alcohol Dependence*** *103:74-83.*

10. Hofford RS, Hodgson SR, Roberts KW, **Bryant CD**, Evans CJ, Eitan S **(2009)**. Extracellular signal-regulated kinase activation in the amygdala mediates elevated plus maze behavior during opioid withdrawal. ***Behavioural Pharmacology*** *20(7):576-583.*

11. **Bryant CD**, Chang HP, Zhang J, Wiltshire T, Tarantino LM, Palmer AA **(2009)**. A major QTL on chromosome 11 influences psychostimulant and opioid sensitivity in mice. ***Genes, Brain and Behavior*** *8(8):795-805.*

12. **Bryant CD**, Parker CC, Zhou L, Olker C, Chandrasekaran RY, Wager TT, Bolivar VJ, Loudon AS, Vitaterna MH, Turek FW, Palmer AA **(2012)**. *Csnk1e* is a genetic regulator of sensitivity to psychostimulants and opioids. ***Neuropsychopharmacology*** *37(4):1026-35.*

13. **Bryant CD**, Kole LA, Guido MA, Sokoloff G, Palmer AA **(2012)**. Congenic dissection of a major QTL for methamphetamine sensitivity implicates epistasis**.** ***Genes, Brain and Behavior*** *11(5):623-32*

14. **Bryant CD**, Kole LA, Guido MA, Cheng R, Palmer AA **(2012).** Methamphetamine-induced conditioned place preference in LG/J and SM/J mouse strains and an F_{45}/F_{46} advanced intercross line. ***Frontiers in Genetics*** *3:126*

15. **Bryant CD**, Guido MA, Kole LA, Cheng R. The heritability of oxycodone reward and concomitant phenotypes in a LG/J x SM/J F48 mouse advanced intercross line **(2014)**. ***Addiction Biology,*** *19(4): 552-561*

16. Zhou L, **Bryant CD**, Loudon AS, Palmer AA, Vitaterna MH, Turek FW **(2014).** The circadian clock gene *Csnk1e* regulates REM sleep and NREM sleep architecture in mice. ***Sleep,*** *37(4): 785-93.*

17. Kirkpatrick SL, **Bryant CD (2015).** Behavioral architecture of opioid reward and aversion in C57BL/6 substrains. ***Frontiers in Behavioral Neuroscience,*** *8:450, 1-11.*

18. Yazdani N, Parker CC, Shen Y, Reed ER, Guido MA, Kole LA, Kirkpatrick SL, Lim JE, Sokoloff G, Cheng R, Johnson WE, Palmer AA, **Bryant CD (2015)**. *Hnrnph1* is a quantitative trait gene for methamphetamine sensitivity. ***PLOS Genetics*** 11(12):e1005713. PMC4675533

19. Yazdani N, Shen Y, Johnson WE, **Bryant CD (2016).** Striatal transcriptome analysis of a congenic mouse line (chromosome 11: 50-60 Mb) exhibiting a reduced locomotor stimulant response to methamphetamine. ***Genomics Data****;* June, 8: 77-80, doi: 10.1016/j.gdata.2016.03.009

20. Young EE, **Bryant CD**, Lee SE, Peng X, Cook B, Nair HK, Dreher KJ, Zhang X, Palmer AA, Chung JM, Mogil JS, Chesler EJ, Lariviere WR **(2016).** Systems genetic and pharmacological analysis identifies candidate genes underlying mechanosensation in the Von Frey test. ***Genes, Brain and Behavior,*** Jul;15(6):604-15 PMC27231153

21. Kirkpatrick SL, Goldberg LR, Yazdani N, Babbs RK, Wu J, Reed ER, Jenkins DF, Bolgioni AF, Landaverde KI, Luttik KP, Mitchell KS, Kumar V, Johnson WE, Mulligan MK, Cottone P, **Bryant CD (2017).** Cytoplasmic FMR1-interacting protein 2 is a major genetic factor underlying binge eating. ***Biological Psychiatry*****,** 81(9): 757-769 PMC5386810

22. Goldberg LR, Kirkpatrick SL, Yazdani N, Luttik KP, Lacki OA, Babbs RK, Jenkins DF, Johnson WE, **Bryant CD (2017).** Casein kinase 1-epsilon deletion increases mu opioid receptor-dependent behaviors and binge eating. ***Genes, Brain and Behavior*** 16(7): 725-238. PMC6180211

23. Apicco DJ, Ash PE, Maziuk B, LeBlang C, Medalla M, Al Abdullatif A, Ferragud Faus A, Botelho E, Balance HI, Dhawan U, Boudeau S, Kashy D, Wong A, Goldberg LR, Yazdani N, Zhang C, Choong YU, Tripodis Y, Kanaan NM, Ikezu T, Cottone P, Leszyk J, Li H, Luebke J**, Bryant CD**, Wolozin B

(2018). Reducing the RNA binding protein TIA1 protects against tau-mediated neurodegeneration *in vivo*, ***Nature Neuroscience,*** 21(1): 72-80. PMC5745051

24. Ruan QT*, Yazdani N*, Beierle JA, Hixson KM, Hokensen KE, Appico DJ, Luttik KP, Zheng K, Ash PEA, Szumlinski KK, Russek SJ, Wolozin B, **Bryant CD (2018).** Changes in neuronal immunofluorescence in the C- versus N-terminal domains of hnRNP H following D1 dopamine receptor activation. ***Neuroscience Letters,*** 684: 109-114. PMC6330092

25. Babbs RK*, Kelliher JC*, Scotellaro JL, Luttik KP, Mulligan, MK, **Bryant CD (2018).** Genetic differences in the behavioral organization of binge eating, conditioned food reward, and compulsive-like eating C57BL/6J and DBA/2J strains. ***Physiology and Behavior***, 197: 51-66. PMC6333425 [Available on 2019-12-01]

26. **Bryant CD,** Bagdas D, Khalefa T, Goldberg LR, Reed ER, Kirkpatrick SL, Kelliher JC, Chen MM, Johnson WE, Mulligan MK, Damaj MI **(2019).** C57BL/6 substrain differences in inflammatory nociception and genetic mapping of a major quantitative trait locus underlying acute thermal nociception, ***Molecular Pain,*** 15: 1-15. PMC6365993

27. Mulligan MK, Abreo TJ, Neuner SM, Parks CL, Watkins CE, Houseal MT, Shapaker TM, Hook M, Tan H, Wang X, Ingels J, Peng J, Lu L, Kaczorowski CC, **Bryant CD**, Homanics GE, Williams RW **(2019).** Identification of a functional non-coding variant in the GABAA receptor α2 subunit of the C57BL/6J mouse reference genome: Major implications for neuroscience research. March 29 ***Frontiers in Genetics*** 10: 188. PMC6449455

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29. Ruan QT, Yazdani N, Blum BC, Beierle JA, Lin W, Coelho MA, Fultz EK, Healy AF, Shahin JR, Kandola AK, Luttik KP, Zheng K, Smith NJ, Cheung J, Mortazavi F, Apicco DJ, Varman DR, Ramanmoorthy S, Ash PEA, Rosene DL, Emili A, Wolozin B, Szumlinski KK, **Bryant CD (2020).** A mutation in Hnrnph1 that decreases methamphetamine reinforcement, reward, and dopamine release and increases synaptosomal hnRNP H and mitochondrial proteins. ***Journal of Neuroscience*** 40(1): 107-130. PMC6939476

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31. Sern KR, Fultz EK, Coelho MA, **Bryant CD**, Szumlinski KK **(2020).** A prior history of binge-drinking increases sensitivity to the motivational valence of methamphetamine in female C57BL/6J mice. ***Substance Abuse*** 14: 1-9. PMC6971957

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ABSTRACTS FOR POSTERS AND TALKS

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***Selected for postdoc talk**

Lynch WB, Kazerani I, Saavedra GA, Bhandari R, Farnan A, Nguyen B, Gerhardt E, Miracle SA, Beierle JA, **Bryant CD (2023).** Testing for validation of Zhx2 in oxycodone metabolite (oxymorphone) brain concentration and behavior via reciprocal gene editing and viral manipulations of gene expression in BALB/c substrains. *Chemistry and Pharmacology of Drug Abuse (CPDA) Conference, Northeastern University, August 3-4 2023.*

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***PhD student. Abstract was selected for a trainee talk at IBANGS**

Lynch WB, Kazerani I, Saavedra G, Farnan A, Nguyen B, **Bryant CD (2022).** Hepatic Zhx2 overexpression reduces acute oxycodone-induced locomotion and enhances state-dependent learning/recall of oxycodone reward in BALB/cJ female mice. *NeuroBoston, local SfN chapter, Boston University, November 4, 2022.*

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Wingfield KK, Richardson KT, Misic T, Rubman MB, Jain K, Abney N, Beierle JA, Yao EJ, **Bryant CD (2022).** Neonatal opioid withdrawal syndrome (NOWS) model traits in FVB substrains and

spectrotemporal characterization of ultrasonic vocalization profiles using DeepSqueak machine learning software. *Genome Sciences Institute, BUSM, November 17, 2022*

Wingfield KK, Richardson KT, Misic T, Rubman MB, Jain K, Abney N, Beierle JA, Yao EJ, **Bryant CD (2022).** Neonatal opioid withdrawal syndrome (NOWS) model traits in FVB substrains and spectrotemporal characterization of ultrasonic vocalization profiles using DeepSqueak machine learning software. *NeuroBoston, local SfN chapter, Boston University, November 4, 2022.*

*****Wingfield KK, Richardson KT, Misic T, Rubman MB, Yao EJ, Beierle JA, **Bryant CD (2022).** Behavioral differences in neonatal opioid withdrawal syndrome (NOWS) model traits in FVB substrains following perinatal morphine exposure. *7th annual Chemistry and Pharmacology of Drug Abuse (CPDA), Northeastern University, August 4-5, 2022*

***PhD student. Abstract was selected for a trainee talk**

Beierle JA, Yao EJ, Goldstein SI, Lynch WB, Scotellaro JL, Shah AA, Sena KD, Wong AL, Linnertz CL, Averin O, Moody DE, Reilly CA, Peltz G, Emili A, Ferris MT, **Bryant CD (2022).** Zhx2 is a candidate gene underlying oxymorphone metabolite brain concentration associated with state-dependent oxycodone reward. *7th annual Chemistry and Pharmacology of Drug Abuse (CPDA), August 4-5, 2022, Northeastern University*

Lynch WB, Ruan QT, Rieger MA, Richardson KT, Cole RH, Cox JW, Beierle JA, Yao EJ, Kandola A, Chen MM, Kelliher JC, Babbs RK, Ash PEA, Wolozin B, Szumlinski KK, Johnson WE, Dougherty JD, **Bryant CD (2022).** The methamphetamine-induced hnRNP H targetome identifies CACNA2D2 as a downstream mechanistic target underlying behavior: Pharmacological validation with pregabalin. *7th annual Chemistry and Pharmacology of Drug Abuse (CPDA), August 4-5, 2022, Northeastern University*

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Shah A, Sena KD, Averin O, Moody DE, Reilly CA, Emili A, Peltz G, Ferris MT, **Bryant CD (2022).** A reduced complexity cross between BALB/c substrains identifies Zhx2 as a candidate gene underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward. *Genes, Brain and Behavior Meeting, International Behavioural and Neural Genetics Society, Memphis, TN, USA May 23-27, 2022*

Lynch WB, Ruan QT, Rieger MA, Cox JW, Beierle JA, Yao EJ, Kandola A, Chen MM, Kelliher JC, Babbs RK, Ash PEA, Wolozin B, Szumlinski KK, Johnson WE, Dougherty JD, **Bryant CD (2022).** The methamphetamine-induced hnRNP H targetome identifies Cacna2d2 as a downstream mechanistic target underlying behavior: Pharmacological validation with pregabalin. *Genes, Brain and Behavior Meeting, International Behavioural and Neural Genetics Society, Memphis, TN, USA May 23-27, 2022*

Sena KD, Beierle JA, Richardson KT, Kantak KM, **Bryant CD (2022).** BALB/cByJ mice show indiscriminate binge-like eating of both sweetened palatable food and chow compared to BALB/cJ mice. *Genes, Brain and Behavior Meeting, International Behavioural and Neural Genetics Society, Memphis, TN, USA May 23-27, 2022*

*****Wingfield KK, Richardson KT, Misic T, Yao EJ, Beierle JA, **Bryant CD (2022).** Behavioral differences in neonatal opioid withdrawal syndrome (NOWS) model phenotypes in FVB substrains following perinatal morphine exposure. *Genes, Brain and Behavior Meeting, International Behavioural and Neural Genetics Society, Memphis, TN, USA May 23-27, 2022*

***PhD student. Abstract was selected for a trainee talk**

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Sena KD, Averin O, Moody DE, Reilly CA, Emili A, Peltz G, Ferris MT, **Bryant CD (2022).** A BALB/c reduced complexity cross identifies Zhx2 as a candidate gene underlying oxymorphone brain concentration and state-dependent learning of oxycodone reward. *NIDA*

Genetics and Epigenetics Cross-Cutting Research Team (GECCRT) Meeting. April 26-27, 2022

Lynch WB, Beierle JA, Cole RH, Bhandari R, Arslan A, Peltz G, **Bryant CD (2022).** Oxycodone behaviors in Cacna1h knockout mice. *NIDA Genetics and Epigenetics Cross-Cutting Research Team (GECCRT) Meeting. April 26-27, 2022*

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Sena KD, Alverin O, Moody DE, Reilly CA, Emili A, Peltz G, Ferris MT, **Bryant CD (2022).** A reduced complexity cross between BALB/c substrains identifies Zhx2 as a candidate gene underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward. *ASPET, Experimental Biology Meeting, Philadelphia, PA USA, April 2-5, 2022*

Borrelli KN, Yao EJ, Zamorano C, Roos M, Sena KD, Beierle JA, **Bryant CD (2021).** Perinatal morphine induces behavioral indices of opioid withdrawal and affects myelin-related gene expression. *Boston Area Neuro Group (BANG), Local SfN Chapter, November 9, 2021*

*****Lynch WB, Ruan QT, Rieger MA, Cole RH, Cox JW, Beierle JA, Yao EJ, Kandola A, Chen MM, Kelliher JC, Babbs RK, Ash PEA, Wolozin B, Szumlinski KK, Johnson WE, Dougherty JD, **Bryant CD (2021).** The methamphetamine-induced hnRNP H targetome identifies CACNA2D2 as a downstream mechanistic target underlying behavior: Pharmacological validation with pregabalin. *Boston Area Neuro Group (BANG), Local SfN Chapter, November 9, 2021*

***PhD student. Abstract was selected for a trainee talk**

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Sena KD, Averin O, Moody DE, Reilly CA, Emili A, Peltz G, Ferris MT, **Bryant CD (2021).** A reduced complexity cross between BALB/c substrains identifies Zhx2 as a candidate gene underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward. *Boston Area Neuro Group (BANG), Local SfN Chapter, November 9, 2021*

Lynch WB, Ruan QT, Rieger MA, Cole RH, Cox JW, Beierle JA, Yao EJ, Kandola A, Chen MM, Kelliher JC, Babbs RK, Ash PEA, Wolozin B, Szumlinski KK, Johnson WE, Dougherty JD, **Bryant CD (2021).** The methamphetamine-induced hnRNP H targetome identifies CACNA2D2 as a downstream mechanistic target underlying behavior: Pharmacological validation with pregabalin. *Genome Sciences Institute Symposium, Boston University, November 18, 2021*

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Sena KD, Averin O, Moody DE, Reilly CA, Emili A, Peltz G, Ferris MT, **Bryant CD (2021).** A reduced complexity cross between BALB/c substrains identifies Zhx2 as a candidate gene underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward. *Genome Sciences Institute Symposium, Boston University, November 18, 2021*

*****Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Sena KD, Wong AL, Averin O, Moody DE, Emili A, Peltz G, Ferris MT, **Bryant CD (2021).** A BALB/c reduced complexity cross identifies Zhx2 as a candidate underlying oxycodone metabolite brain concentration and state-dependent learning. *Complex Trait Community, September 1-3, 2021*

***PhD student. Abstract was selected for a trainee talk**

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Sena KD, Linnertz C, Young EE, Peltz G, Emili A, Ferris MT, **Bryant CD (2021).** Genetic basis of thermal nociceptive sensitivity and brain weight in a BALB/c reduced complexity cross. *Complex Trait Community, September 1-3, 2021*

Cole RH, Lynch WB, Beierle JA, Yao EJ, Bhandari R, Scotellaro JL, Arslan A, Peltz G, **Bryant CD (2021).** Oxycodone behaviors in *Cacna1h* knockout mice. *Boston University's UROP Poster Symposium*

Sena KD, Borrelli KN, Beierle JA, Yao EJ, **Bryant (2021).** A mouse model for neonatal opioid withdrawal

syndrome (NOWS) induces brain region-specific changes in proteins associated with microglial activation (IBA1) and myelin protein expression (MBP). *Boston University's UROP Poster Symposium*

Lynch WB, Beierle JA, Cole RH, Bhandari R, Scotellaro JL, Arslan A, Peltz G, **Bryant CD (2021).** Oxycodone behaviors in Cacnah1 knockout mice. *American College of Neuropsychopharmacology (ACNP Meeting), San Juan, Puerto Rico, December 4-7*

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Averin O, Moody DE, Emili A, Peltz G, Ferris MT, **Bryant CD (2021).** A reduced complexity cross between BALB/c substrains identifies Zhx2 as a candidate gene underlying oxycodone metabolite brain concentration and state-dependent learning of opioid reward. *American College of Neuropsychopharmacology (ACNP Meeting), San Juan, Puerto Rico, December 4-7*

Lynch WB, Beierle JA, Cole RH, Bhandari R, Arslan A, Peltz G, **Bryant CD (2021).** Oxycodone behaviors in *Cacna1h* knockout mice. *Society for Neuroscience, Chicago, IL USA. November 13-16, 2021.*

Beierle JA, Yao EJ, Goldstein SI, Scotellaro JL, Averin O, Moody DE, Emili A, Peltz G, Ferris MT, **Bryant CD (2021).** *Zhx2* is a candidate gene underlying brain oxymorphone concentration and oxycodone state-dependent learning of opioid reward in a BALB/c reduced complexity cross. *Society for Neuroscience, Chicago, IL USA. November 13-16, 2021*

*Beierle JA, Yao EJ, Scotellaro JL, Averin O, Moody DE, Peltz G, Ferris MT, **Bryant CD (2021).** *Zhx2* is a candidate gene underlying brain oxymorphone concentration and oxycodone state-dependent learning of opioid reward in a BALB/c reduced complexity cross. *World Congress of Psychiatric Genetics (WCPG), October 12-14, 2021*

***PhD student. Abstract was selected for a trainee talk**

Beierle JA, Yao EJ, Scotellaro JL, Averin O, Moody DE, Peltz G, Ferris MT, **Bryant CD (2021).** *Zhx2* is a candidate gene underlying brain oxymorphone concentration and oxycodone state-dependent learning of opioid reward in a BALB/c reduced complexity cross. *Another Taste of INRC (International Narcotics Research Conference, July 12-14, 2021*

Beierle JA, Yao EJ, Scotellaro JL, Peltz G, Ferris MT, **Bryant CD (2021).** Genetic architecture of thermal nociception and brain weight in a BALB/c reduced complexity cross. *IBANGS Trainee Day*

*****Beierle JA, Yao EJ, Scotellaro JL, Averin O, Moody DE, Peltz G, Ferris MT, **Bryant CD (2021).** A major QTL on chromosome 15 underlying BALB/c substrain differences in whole brain concentration of the potent oxycodone metabolite oxymorphone: Nomination of Zhx2 as a candidate gene underlying pharmacokinetics and behavior. *Henry Russek Student Achievement Day*

***PhD student. Abstract was selected for a trainee talk. First prize in department.**

Beierle JA, Yao EJ, Scotellaro JL, Averin O, Moody DE, Peltz G, Ferris M, **Bryant CD (2021).** BALB/c substrain differences in whole brain concentrations of the highly potent oxycodone metabolite oxymorphone map to chromosome 15 in a reduced complexity cross. *Genes, Brain and Behavior (IBANGS) Meeting, May 10-May 15, 2021*

Beierle JA, Yao EJ, Scotellaro JL, Averin O, Moody DE, Peltz G, **Bryant CD (2021)**. BALB/c substrain differences in whole brain concentrations of the highly potent oxycodone metabolite, oxymorphone map to chromosomes 5, 10, and 16 in a reduced complexity cross. *NIDA Genetics and Epigenetics Consortium, March 8-10, 2021*

Szumlinski KK, Jiminez Chavez CL, **Bryant CD**, Munn-Chernoff MA **(2021).** Selective inhibition of PDE4B

reduces alcohol intake in two C57BL/6 substrains. *Research Society on Alcoholism (RSA), June 19-23*

Szumlinski KK, Jiminez Chavez CL, **Bryant CD**, Munn-Chernoff MA **(2021).** Selective inhibition of PDE4B reduces binge-drinking in two C57BL/6 substrains. *Society for Neuroscience Global Connectome, January 11, 2021.*

Borrelli KN, Yao EJ, Yen WW, Ruan QT, Kelliher JC, Chen MM, Babbs RK, Beierle JA, Wachman EM, Cruz-Martin A, **Bryant CD (2020).** Neonatal morphine (P1-P14) in CFW mice induces behavioral signs of withdrawal, sex-dependent transcriptomic profiles in brainstem (P15), and altered affective and psychostimulant-induced locomotor phenotypes in adolescence. *Trainee Day, IBANGS, September 23, 12pm-3pm, e.s.t.*

Beierle JA, Yao E, Scotellaro JS, Peltz G, **Bryant CD (2020).** Idnetificaiton of major QTLs underlying BALB/c substrain differences in oxycodone state-dependent conditioned place preference in a reduced complexity cross. *Trainee Day, IBANGS, September 23, 12pm-3pm, e.s.t.*

Borrelli KN, Yao EJ, Yen WW, Ruan QT, Kelliher JC, Chen MM, Babbs RK, Beierle JA, Wachman EM, Cruz-Martin A, **Bryant CD (2020).** Automated facial grimace tracking following neonatal morphine (P1-P14) in CFW mice and altered affective and psychostimulant-induced phenotypes during adolescence. *American College of Neuropsychopharmacology, December 9, 2020*

Ruan QT, Rieger MA, Cox JW, Beierle JA, Yao EJ, Kandola A, Chen MM, Kelliher JC, Babbs RK, Ash PEA, Wolozin B, Szumlinski KK, Johnson WE, Dougherty JD, **Bryant CD (2020).** The dynamic, methamphetamine-induced hnRNP H interactome reveals synaptic RNA-binding targets associated with reduced dopamine release and behavior. *Neurogenetics conference, Nature Publishing Co. (virtual), American College of Neuropsychopharmacology, December 8, 2020*

Ruan QT, Rieger MA, Cox JW, Beierle JA, Yao EJ, Kandola A, Chen MM, Kelliher JC, Babbs RK, Ash PEA, Wolozin B, Szumlinski KK, Johnson WE, Dougherty JD, Bryant CD (2020). The dynamic, methamphetamine-induced hnRNP H interactome reveals synaptic RNA-binding targets associated with reduced dopamine release and behavior. *World Congress on Psychiatric Genetics, October 19-22.*

(selected for a talk) Yao EJ, Babbs RK, Kelliher JC, Damaj MI, Mulligan MK, **Bryant CD (2020).** Systems genetic analysis of binge-like eating in a C57BL/6J x DBA/2J-F2 cross identifies *Adipor2* and *Plxnd1* as positional and functional candidate genes. *World Congress on Psychiatric Genetics, October 19-22.*

Beierle JA, Yao EJ, Scotellaro JS, Peltz G, **Bryant CD (2020)**. Differences in oxycodone state-dependent learning between nearly isogenic BALB/cJ and BALB/cByJ substrains map to chromosomes 14 and 6. *World Congress on Psychiatric Genetics, October 19-22.*

*****Beierle JA, Yao EJ, Scotellaro JS, Peltz G, **Bryant CD (2020)**. Differences in oxycodone state-dependent learning between nearly isogenic BALB/cJ and BALB/cByJ substrains map to chromosomes 14 and 6. *A Taste of INRC, July 22-24*

***PhD student. Abstract was selected for a trainee talk.**

Damaj MI, McKiver B, Mann J, Yao EY, **Bryant CD (2020)**. Genetic variation in paclitaxel-induced peripheral neuropathy in mice. *Peripheral Nerve Society, June 27-30, Miami, FL USA*

Borrelli KN, Yao EJ, Wen WW, Ruan QT, Chen MM, Kelliher JC, Babbs RK, Beierle JA, Wachman EM, Cruz-Martin AC, **Bryant CD (2020).** Neonatal morphine administration in outbred CFW mice induces behavioral signs of withdrawal, delayed development, and a brainstem transcriptomic signature. *NIDA Genetics and Epigenetics Consortium, January 12-13, 2020.*

Beierle JA, Yao EJ, Scotellaro JS, Peltz G, **Bryant CD (2020).** Nearly isogenic BALB/cJ and BALB/cByJ substrains differ in opioid state-dependent learning, spontaneous withdrawal, and weight loss in response to oxycodone: Planning for a reduced complexity cross. *NIDA Genetics and Epigenetics Consortium, January 12-13, 2020.*

Ruan QT, Rieger MA, Cox JW, Beierle JA, Yao EJ, Kandolq A, Zheng K, Blum BC, Lin W, Emili A, Johnson WE, Dougherty JD, **Bryant CD (2020).** Striatal transcriptome-wide profiling of hnRNP H RNA-binding targets via eCLIP-seq in response to methamphetamine identified 3'UTR targets enriched for synaptic plasticity. *NIDA Genetics and Epigenetics Consortium, January 12-13, 2020.*

Borrelli KN, Yao EJ, Yen WW, Ruan QT, Kelliher JC, Chen MM, Babbs RK, Beierle JA, Wachman EM, Cruz-Martin AC, **Bryant CD (2019).** Neonatal morphine administration (P1-P14) in outbred CFW mice induces behavioral signs of withdrawal and delayed development. *Genome Science Institute Symposium, Boston University, November 14, 2019*

Yao EJ, Babbs RK, Kelliher JC, Luttik KP, Mulligan MK, **Bryant CD (2019).** Quantitative trait loci and candidate genes underlying binge eating in a C57BL/6J x DBA/2J-F2 cross. *Genome Science Institute Symposium, Boston University, November 14, 2019*

*Ruan QT, Rieger MA, Cox JW, Kandola A, Beierle JA, Yao EJ, Chen MM, Zheng K, Johnson WE, Dougherty JD, **Bryant CD (2019).** Striatal transcriptome-wide profiling of hnRNP H RNA-binding targets via CLIP-seq in response to methamphetamine identifies Oprk1 as a potential translational target underlying reduced behavior in *Hnrnph1* mutant mice. *Genome Science Institute Symposium, Boston University, November 14, 2019*

***PhD student. Abstract was selected for a trainee talk.**

Beierle JA, Scotellaro JS, Yao EJ, Kelliher JC, Babbs RK, Zheng M, Peltz G, **Bryant CD (2019).** Mouse inbred strain survey of oxycodone addiction traits in an opioid multi-stage addiction assessment protocol. *50th Annual International Narcotics Research Conference, New York, NY USA*

Goldberg LR, Reed ER, Wu Jiayi, Parks C, Watkins C, Dickerson M, Khanam S, Yao EJ, Kelliher JC, Kirkpatrick SL, Chen MM, Homanics GE, Williams RW, Mulligan MK, **Bryant CD (2019).** Gene mapping and validation of a functional intronic variant in *Gabra2* underlying reduced Gabra2 expression, increased naloxone aversion and increased methamphetamine stimulant sensitivity
50th Annual International Narcotics Research Conference, New York, NY USA

Borrelli KN, Yao EJ, Yen WW, Ruan QT, Kelliher JC, Chen MM, Babbs RK, Beierle JA, Wachman EM, Cruz-Martin AC, **Bryant CD (2019).** Neonatal morphine administration in outbred CFW mice induces behavioral signs of withdrawal and delayed development. *50th Annual International Narcotics Research Conference, New York, NY USA*

Bryant CD, Babbs RK, Yao EJ, Chen MM, Kelliher JC, Scotellaro JL, Luttik KP, Ruan QT, Mulligan MK **(2019).** Forward genetic and gene validation studies of binge-like eating in mice: Sex-sensitive genetic loci, including male-specific linkage with the *Tas2r* locus. *International Behavioural and Neural Genetics Society, May 10-14, 2019, Edinburgh, Scotland, UK*.

Borrelli KN, Chartoff EH, Carlezon WA Jr., **Bryant CD (2019).** Reward sensitivity in *Hnrnph1*$^{+/-}$ mice following acute methamphetamine administration as measured via intracranial self-stimulation. *International Behavioural and Neural Genetics Society, May 10-14, 2019, Edinburgh, Scotland, UK*.

*****Ruan QT, Rieger MA, Beierle JA, Chen MM, Zheng K, Kandola A, Johnson WE, Dougherty JD, **Bryant CD (2019).** CLIP-seq analysis of the RNA binding protein hnRNP H in striatum following methamphetamine administration in Hnrnph1 +/- mice. *International Behavioural and Neural Genetics*

Society, May 10-14, 2019, Edinburgh, Scotland, UK.

***PhD Student. Outstanding Graduate Student Award and selected talk**

Beierle JA*****, Yao E, Scotellaro JS, **Bryant CD (2019).** Genetic differences between BALB/cJ and BALB/cByJ substrains in opioid state-dependent reward learning, spontaneous withdrawal, and weight loss in response to oxycodone: Planting the seeds for a reduced complexity cross. *International Behavioural and Neural Genetics Society, May 10-14, 2019, Edinburgh, Scotland, UK*.

***PhD student. Abstract was selected for a trainee talk.**

Scotellaro JL, Beierle JA, Yao E, Kelliher JC, Babbs RK, Zheng M, Peltz G, **Bryant CD (2018).** Mouse inbred strain survey of oxycodone addiction traits in an opioid multi-stage addiction assessment protocol. *Genome Science Institute Symposium, November 15, 2018, NIDA Genetics Consortium Meeting, January 2019*

Ruan QT, Rieger MA, Beierle JA, Chen MM, Zheng K, Kandola A, Dougherty JD, Johnson WE, **Bryant CD (2018).** CLIP-seq analysis of the RNA binding protein hnRNP H in striatum following methamphetamine administration in *Hnrnph1* +/- mice. *Genome Science Institute Symposium, November 15, 2018, NIDA Genetics Consortium Meeting, January 2019*

Borrelli KN, Scotellaro JL, Dubinsky KR, Carlezon Jr., WA, Chartoff EH, **Bryant CD (2018).** Reward sensitivity as measured via intracranial self-stimulation in *Hnrnph1* +/- mice with reduced methamphetamine addictive behaviors. *Genome Science Institute Symposium, November 15, 2018, NIDA Genetics Consortium Meeting, January 2019.*

Beierle JA, Scotellaro JL, Kelliher JC, Babbs RK, Zheng M, Peltz G, **Bryant CD (2018).** Mouse inbred strain survey of oxycodone addiction traits in an opioid multi-stage addiction assessment paradigm. *Society for Neuroscience Meeting, San Diego, CA USA, November 3-7, NIDA Genetics Consortium Meeting, January 2019*

Borrelli KN, Dubinsky KR, Scotellaro JL, Carlezon, Jr. WA, Chartoff EH, **Bryant CD (2018).** Reward threshold as measured via intracranial self-stimulation in Hnrnph1$^{+/-}$ mice showing reduced methamphetamine addictive behaviors. *Society for Neuroscience Meeting, San Diego, CA USA, November 3-7*

Ruan QT, Yazdani N, Beierle JA, Zheng K, Cheung JJ, Coelho MA, Fultz EA, Healy AF, Mortazavi F, Lin W, Ash PEA, Rosene DL, Emili A, Wolozin B, Szumlinski KK, **Bryant CD (2018).** Deciphering the molecular mechanisms underlying Heterogeneous nuclear ribonucleoprotein H1 (hnRNP H1) regulation of methamphetamine-induced dopamine release and addictive behavior. *Society for Neuroscience Meeting, San Diego, CA USA, November 3-7*

Kelliher JC, Babbs RK, Scotellaro JL, Luttik KP, Yazdani N, Ruan QT, Mulligan MK, **Bryant CD (2018).** Genetic differences in the behavioral organization of binge eating, conditioned food reward, and compulsive-like eating in C57BL/6J and DBA/2J substrains. *7th Annual Translational Science Symposium, Clinical and Translational Science Institute (CTSI), Boston University. "Addiction Medicine 2018: Translational Science at the Cutting Edge"*

Ruan, QT, Yazdani N, Coelho MA, Fultz, EA, Healy AF, Beierle JA, Reed ER, Johnson, WE, Rosene DL, Mortazavi F, Szumlinski KK, **Bryant CD (2018).** Exploring the molecular and cellular basis by which *Hnrnph1* haploinsufficiency results in reduced methamphetamine-induced dopamine release and addictive behaviors. *7th Annual Translational Science Symposium, Clinical and Translational Science Institute (CTSI), Boston University. "Addiction Medicine 2018: Translational Science at the Cutting Edge"*

Scotellaro J, Beierle JA, Kelliher JC, Babbs RK, Zheng M, Peltz G, **Bryant CD (2018). Mouse inbred strain survey of oxycodone addiction traits in an opioid multi-stage addiction assessment paradigm** *7th Annual Translational Science Symposium, Clinical and Translational Science Institute (CTSI), Boston University. "Addiction Medicine 2018: Translational Science at the Cutting Edge"*

Babbs RK, Ruan QT, Kelliher JC, Feng AX, Kirkpatrick SL, Benitez FA, Rodriguez FA, Pierre J, Kumar V, Mulligan MK, **Bryant CD (2018).** *Cyfip1* haploinsufficiency increases compulsive-like behavior and interacts with *Cyfip2* genotype and parental origin to modulate palatable food intake: implications for Prader-Willi Syndrome * *7th Annual Translational Science Symposium, Clinical and Translational Science Institute (CTSI), Boston University. "Addiction Medicine 2018: Translational Science at the Cutting Edge"*

Beierle JA, Goldberg LR, Kelliher JC, Luttik KP, Scotellaro JL, Luong AM, Jiayi Wu, Reed ER, Jenkins DF, Ruan QT, Al Abdullatif A, Kirkpatrick SL, Parks C, Watkins C, Dickerson M, Khanam S, Crotts SB, Drescher TA Yazdani N, Williams RW, Homanics GE, Johnson WE, Wolozin B, Mulligan MK, **Bryant CD (2018).** Systems genetics, fine mapping, and validation of candidate genes involved in opioid and psychostimulant addiction traits in a reduced complexity cross. *7th Annual Translational Science Symposium, Clinical and Translational Science Institute (CTSI), Boston University. "Addiction Medicine 2018: Translational Science at the Cutting Edge"*

Fultz EK, Coelho MA, Lieberman D, **Bryant CD**, Szumlinski KK **(2018).** *Hnrnph1* is a novel regulator of behavioral sensitivity to alcohol, *Research Society on Alcoholism. June 16-20, San Diego, CA USA*

Wachman EM, Kelliher JC, Babbs RK, Beierle JA, Kretsge L, Cruz-Martin AC, **Bryant CD (2018).** Mouse Model of Neonatal Abstinence Syndrome: Neonatal Behavioral Phenotypes and Long-term Impact on Opioid Responsiveness in Young Adulthood. *Pediatric Academic Society, May 5-8, 2018, Toronto, CA.*

Bagdas D, Goldberg LR, Toma W, Kelliher JC, **Bryant CD**, Damaj MI **(2018).** Phenotypic and genetic analysis of acute and chronic pain behaviors in C57BL/6J and C57BL/6N mouse strains. *17th World Congress on Pain, IASP, September 12-16, 2018, Boston, MA USA.*

Bryant CD (poster presenter), Goldberg LR, Kelliher JC, Beierle JA, Luttik KP, Scotellaro JL, Luong AM, Wu J, Reed ER, Jenkins DF, Ruan QT, Al Abdullatif A, Kirkpatrick SL, Yazdani N, Williams RW, Homanics GE, Johnson WE, Wolozin B, Mulligan MK **(2018).** Systems genetics, fine mapping, and validation of candidate genes involved in opioid and psychostimulant addiction traits in a reduced complexity cross. *Genetics Society of America, Population, Evolutionary, and Quantitative Genetics Conference. May 13-16, 2018*

Ruan QT, Yazdani N, Coelho MA, Fultz EA, Healy AF, Beierle JA, Reed ER, Johnson WE, Rosene DL, Mortazavi F, Szumlinski KK, **Bryant CD (2018).** Triangulating on the neuroanatomical and cell biological mechanisms by which hnRNP H1 haploinsufficiency results in reduced methamphetamine-induced dopamine release and behavior. *IBANGS 2018, Rochester, MN USA, May 17-21, 2018*

Babbs RK, Kelliher JC, Scotellaro JL, Luttik KP, Yazdani N, Ruan QT, Mulligan MK, **Bryant CD (2018).** Genetic differences in the behavioral organization of binge eating, conditioned food reward, and compulsive-like eating in C57BL/6J and DBA/2J mice and in an F2 cross. *IBANGS 2018, Rochester, MN USA, May 17-21, 2018*

*****Beierle JA, Goldberg LR, Kelliher JC, Luttik KP, Scotellaro JL, Luong AM, Wu J, Reed ER, Jenkins DF, Al Abdullatif A, Parks C, Watkins C, Dickerson M, Khanam S, Kirkpatrick SL, Crotts SB, Drescher TA, Yazdani N, Williams RW, Homanics GE, Johnson WE, Wolozin B, Mulligan MK, Bryant CD **(2018).** Systems genetics, fine mapping, and validation of candidate genes involved in opioid and psychostimulant addiction traits in a reduced complexity cross. *IBANGS 2018, Rochester, MN USA, May 17-21, 2018*

***PhD student. Abstract was selected for a trainee talk.**

Fultz EK, Coelho MA, Lieberman D, Ruan QT, **Bryant CD**, Szumlinski KK **(2018).** Hnrnph1 is a novel regulator of behavioral sensitivity to ethanol. *Research Society on Alcoholism, San Diego, CA USA*

Fultz EK, Ruan QT, Yazdani N, Page A, Lustig E, Healy A, **Bryant CD**, Szumlinski KK **(2018).** The effect of *Hnrnph1* deletion upon reinforcement varies as a function of the reinforcer. *College on Problems of Drug Dependence (CPDD), San Diego, CA USA*

Bryant CD*, Babbs RK, Ruan QT, Kelliher JC, Kirkpatrick SL, Rodriguez FA, Feng AX, and Benitez F **(2018).** *Cyfip1* haploinsufficiency increases compulsive-like behavior and food consumption: Parent-of-origin effects and potential implications for Prader-Willi Syndrome. *NIDA Genetics Consortium Meeting, January 2018*

Maziuk B., Apicco D., Cruz A., Van Vliet E., Yazdani N., Goldberg L., Medalla C., Leblang C., Zhang C., Ung C., Kanaan N.M., **Bryant C**., Luebke J., Ikezu T., Wolozin B. **(2017).** Reduction of RNA binding protein TIA1 rescues RNA dysregulation and proteces against tau-mediated neurodegeneration in the PS19 P301S tau mouse model of Alzheimer's disease. *Society for Neuroscience, November 15, 2017, Washington, D.C. USA*

Bryant CD*, Goldberg LR, Kelliher JC, Stacey L. Kirkpatrick, Luong A, Luttik KP, Wu J, Reed ER, Jenkins DF, Beierle JA, Scotellaro JL, Drescher TA, Yazdani N, Al Abdullatif A, Wolozin B, Johnson WE, Mulligan MK **(2018).** Fine mapping of a distal chromosome 1 region influencing opioid addiction traits in a reduced complexity cross**.** *NIDA Genetics Consortium Meeting, January 2018.*

Goldberg LR, Kirkpatrick SL, Luong AM, Kelliher JC, Luttik KP, Wu J, Reed ER, Jenkins DF, Beierle JA, Scotellaro JL, Drescher TA, Yazdani N, Johnson WE, Mulligan MK, **Bryant CD (2017).** Systems genetic analysis and positional cloning in a reduced complexity cross identifies a major QTL on distal chromosome 1 underlying opioid addiction traits. *American College of Neuropsychopharmacology, Palm Springs, CA USA, December 3-7*

Scotellaro JL, Kelliher JC, Babbs RK, **Bryant CD (2017).** Genetic differences in binge eating behavior in C57BL/6J and DBA/2J mice shown through an F2 cross. *Undergraduate Research Opportunity Program Symposium, Boston, MA USA.*

Goldberg LR, Kirkpatrick SL, Luong AM, Luttik KP, Wu J, Reed ER, Jenkins DF, Kelliher JC, Crotts S, Yazdani N, Johnson WE, Mulligan MK, ***Bryant CD (2017).** Systems genetics combined with in a rapid fine mapping strategy in a reduced complexity cross identifies *Rgs7* and other candidates underlying opioid addiction traits. ***Invited talk**. *Complex Trait Community, Memphis, TN, USA. June 15, 2017*

Maziuk B, Apicco D, Zhang C, Ung C, Le Blang C, Cruz-Lourdes AC, Van Vliek E, Yazdani N, Kanaan N, Luebke J, Medalla M, Li H, **Bryant CD**, Wolozin B **(2017).** Knockdown of RNA binding protein TIA1 rescues RNA dysregulation and protects against tau mediated neurodegeneration in the PS19 P301S tau mouse model of Alzheimer's disease. *Society for Neuroscience, Washington, D.C., USA, November 11-15.*

Wolozin B, Apicco DJ, Zhang C, Ash PEA, Maziuk B, Al Abdullatif A, Balance H, Goldberg LR, Yazdani N, Ung C, Kanaan NM, Ikezu T, **Bryant CD (2017).** Tau-induced neurodegeneration is mediated by RNA binding proteins. *Alzheimer's Association, July 2017*

Ruan QT, Healy A, Lustig E, Szumlinski KK, **Bryant CD (2017).** Hnrnph1 deletion reduces opioid reward and reinforcement but not analgesia. *Society for Neuroscience, Washington, D.C., USA, November 11-15.*

Goldberg LR, Kirkpatrick SL, Luong AM, Luttik KP, Wu J, Reed ER, Jenkins DF, Kelliher JC, Yazdani N, Johnson WE, Mulligan MK, **Bryant CD (2017).** Systems genetic analysis and fine mapping in a reduced complexity cross rapidly leads to the identification of compelling candidate genes underlying behavioral addiction traits. *International Behavioural and Neural Genetics Society, Madrid, Spain, May 15-18 2017*

Goldberg LR, Kirkpatrick SL, Yazdani N, Wu J, Jenkins DF, Luong AM, Luttik KP, Johnson WE, Mulligan MK, **Bryant CD (2017).** Identification of a major QTL influencing oxycodone behavioral sensitivity and dependence in C57BL/6 substrains. *ASPET 2017, Chicago, IL USA, April 25, 2017.*

***Babbs RK,** Kirkpatrick SL, Ruan QT, Rodriguez FA, Pierre J, Benitez FA, **Bryant CD (2017).** Effects of *Cyfip1* haploinsufficiency on binge eating and compulsive behavior. *International Behavioural and Neural Genetics Society, May 15-18, 2017*

***Postdoc. Abstract was selected for a trainee talk.**

Ruan QT, Yazdani N, Luttik KP[1], Cheung J, Reed ER, Hixson K, Hokenson K, Goldberg LR, Russek SJ, Wolozin BW, Johnson WE, **Bryant CD (2017).** Candidate molecular mechanisms linking *Hnrnph1* polymorphisms with psychostimulant and opioid-induced behaviors. *International Behavioural and Neural Genetics Society, May 15-18, 2017*

Damaj MI, Bagdas D, Toma W, **Bryant CD (2017).** A comparative phenotypic analysis of paclitaxel-induced neuropathy in C57BL/6J and C57BL/6N mouse strains. *International Behavioural and Neural Genetics Society, May 15-18, 2017*

Apicco DAJ, Zhang C, Ash PEA, Maziuk B, Al Abullatif A, Balance H, Goldberg LR, Yazdani N, Ung C, Kanaan NM, **Bryant CD**, Li H, Wolozin B **(2017)**. Tau-induced neurodegeneration is mediated by RNA binding proteins. *Alzheimer's Association International Conference, July 16-20, London, England.*

Kirkpatrick SL, Goldberg LR, Yazdani N, Babbs RK, Wu J, Reed ER, Jenkins DF, Bolgioni A, Landaverde KI, Luttik KP, Mitchell KS, Kumar V, Johnson WE, Mulligan MK, Cottone P, **Bryant CD* (2016).** Cytoplasmic FMR1-interacting protein 2 is a major genetic factor underlying binge eating. *presenter, *NIDA Genetics Consortium Meeting, December 1-2, 2016*

Kirkpatrick SL, Goldberg LR, Yazdani N, Babbs RK, Wu J, Reed ER, Jenkins DF, Bolgioni AF, Landaverde KI, Luttik KP, Mitchell KS, Kumar V, Johnson WE, Mulligan MK, Cottone P, **Bryant CD (2016).** Cytoplasmic FMR1-interacting protein 2 is a major genetic factor underlying binge eating. *American College of Neuropsychopharmacology, December 4-8, Hollywood, FL USA*

Ruan Q, Yazdani N, Reed ER, Johnson WE, **Bryant CD (2016).** *Hnrnph1* polymorphisms are associated with differential exon usage of *Hnrnph1* and *Ppp3ca* - a candidate hnRNP H1 splicing target underlying methamphetamine addiction traits. *Genome Science Institute Symposium*

Rahematpura S, Babbs RK, Bryant CD (2016). Allelic interactions of *Hnrnph1* genotype on methamphetamine-induced locomotor behavior. *RISE high school poster session, Boston University.*

Szumlinski KK**,** Shahin J, Fultz EK, Brown CN, Yazdani N, **Bryant CD (2016).** Increased methamphetamine self-administration in *Hnrnph1* heterozygous mice directly implicates this RNA binding protein in genetic susceptibility to methamphetamine addiction. *Society for Neuroscience, San Diego, CA USA*

Bryant CD, Kirkpatrick SL, Goldberg LR, Yazdani N, Landaverde KI, Babbs RK, Wu J, Jenkins DF, Reed ER, Bolgioni A, Luttik KP, Kumar V, Johnson WE, Mulligan MK, Cottone P **(2016).** Cytoplasmic FMR1-interacting protein 2 (*Cyfip2*) is a major genetic factor underlying binge eating. *Society for Neuroscience,*

San Diego, CA USA

Goldberg LR, Kirkpatrick SL, Yazdani N, Luttik KP, Mulligan MK, **Bryant CD (2016)**. Identification of a major QTL influencing oxycodone behavioral sensitivity and dependence. *Society for Neuroscience, San Diego, CA USA*

Luttik KP, Yazdani N, Goldberg LR, Ruan QT, **Bryant CD (2016).** Role of *Hnrnph1* in the locomotor stimulant and rewarding properties of the mu-opioid receptor agonist fentanyl. *Boston University Undergraduate Research Opportunity Program Symposium, Boston, MA USA.*

Bryant CD (2016). Transcriptional and splicing networks associated with methamphetamine behavioral and neuroanatomical dysfunction in *Hnrnph1* (heterogeneous nuclear ribonucleoprotein H1) knockouts. *International Behavioural and Neural Genetics Society, Bar Harbor, ME USA.*

Babbs KR, Yazdani N, Goldberg LR, Chew B, Luttik KP, **Bryant CD (2016).** Test for allelic interaction of a QTL influencing methamphetamine sensitivity using a 112 kb congenic line crossed to gene-edited knockout lines for *Hnrnph1* and *Rufy1***.** *International Behavioural and Neural Genetics Society, Bar Harbor, ME USA.*

Goldberg LR, Kirkpatrick SL, Yazdani N, Mulligan MK, ***Bryant CD (2016).** Quantitative trait locus mapping of oxycodone reward and naloxone aversion in C57BL/6 substrains. *International Behavioural and Neural Genetics Society, Bar Harbor, ME USA.* ****Selected for a talk***

Yazdani N, Reed ER, Ruan QT, Chau M, Mortazavi F, Rosene D, Johnson WE, **Bryant CD (2016).** Neurobiological mechanisms of hnRNP H1 in methamphetamine addictive behaviors. *International Behavioural and Neural Genetics Society, Bar Harbor, ME USA; Society for Neuroscience, San Diego, CA USA*

Yazdani N, Parker CC, Shen Y, Guido MA, Kole LA, Kirkpatrick SL, Lim JE, Sokoloff G, Cheng R, Johnson WE, Palmer AA, **Bryant CD (2015).** *Hnrnph1* is a quantitative trait gene for methamphetamine sensitivity. *American College of Neuropsychopharmacology, December 6-10, Hollywood, FL USA*

Kirkpatrick SL, Goldberg LR, Yazdani N, Bolgioni A, Johnson WE, Mulligan MK, Cottone P, **Bryant CD (2015).** Food, Drugs, and QTLs: Mapping behavioral addiction traits in the Reduced Complexity Cross. *Complex Trait Community, Portland, OR USA.*

Goldberg LR, Kirkpatrick SL, Yazdani N, Mulligan MK, **Bryant CD (2015).** Quantitative trait locus mapping of oxycodone reward and naloxone aversion in C57BL/6 substrains. *Society for Neuroscience, Chicago, IL USA.*

Yazdani N, Parker CC, Shen Y, Guido MA, Kole LA, Kirkpatrick SL, Lim JE, Sokoloff G, Cheng R, Johnson WE, Palmer AA, **Bryant CD (2015)**. *Hnrnph1* is a quantitative trait gene for methamphetamine sensitivity. *Society for Neuroscience, Chicago, IL USA*

Kirkpatrick SL, Goldberg LR, Bolgioni A, Mulligan MK, Cottone P, **Bryant CD (2015).** QTL mapping of binge eating to the *Cyfip2* locus in C57BL/6 substrains: Implications for hyperphagia in Prader-Willi Syndrome. *2015 International Behavioural and Neural Genetics Society Uppsala, Sweden*

Goldberg LR, Yazdani N, Kirkpatrick SL, Lacki O, Johnson WE, **Bryant CD (2015).** Casein kinase 1-epsilon deletion enhances opioid reward and is associated with increased striatal *Oprm1* and *Npas4* expression. *International Narcotics Research Conference, Phoenix, AZ.*

*Yazdani N, Parker CC, Shen Y, Guido MA, Kole LA, Kirkpatrick SL, Lim JE, Sokoloff G, Cheng R, Johnson WE, Palmer AA, **Bryant CD (2015)**. *Hnrnph1* is a quantitative trait gene for methamphetamine

sensitivity. *International Behavioural and Neural Genetics Society Uppsala, Sweden*

***PhD student. Abstract was selected for a trainee talk. Outstanding Awardee for graduate students**

Yazdani N, Shen Y, Johnson WE, **Bryant CD (2014).** Transcriptome analysis and gene targeting of a quantitative trait locus influencing methamphetamine sensitivity: Direct evidence for *Hnrnph1* as the quantitative trait gene*. Society for Neuroscience, Washington, D.C. USA.*

Yazdani N, Shen Y, Johnson WE, **Bryant CD (2014).** Transcriptome analysis and gene targeting of a quantitative trait locus influencing methamphetamine sensitivity: Direct evidence for *Hnrnph1* as the quantitative trait gene*. 2014 International Behavioural and Neural Genetics Society, Chicago, IL.*

Yazdani N, Shen Y, Johnson WE, **Bryant CD (2014).** Transcriptome analysis and gene targeting of a quantitative trait locus influencing methamphetamine sensitivity*. 2014 Boston University Scholars Day, Boston, MA.*

Lacki O, Goldberg LR, Kirkpatrick SL, Yazdani N, **Bryant CD (2014).** Investigating the role of casein kinase 1 epsilon in addiction liability. *Undergraduate Research Opportunity Program (UROP), Boston University.*

Goldberg LR, Kirkpatrick SL, **Bryant CD (2014).** A role for casein kinase 1-epsilon in the motivational properties of opioids. *Boston University Scholars Day, 2014 Apr 15; Boston, MA.*

Goldberg LR, Kirkpatrick SL, **Bryant, CD (2014).** A role for casein kinase 1-epsilon in the motivational properties of opioids. *Boston University Student Achievement Day, 2014 May 2; Boston, MA.*

Goldberg, L.R., Kirkpatrick, S.L., **Bryant, CD (2014).** A role for casein kinase 1-epsilon in the motivational properties of opioids. *International Behavioural and Neural Genetics Society, 2014 May 10-13.*

Kirkpatrick SL, Bolgioni A, Mulligan MK, Cottone P, **Bryant CD (2014).** Quantitative Trait Locus Mapping of Binge-Like Eating and its Motivational Components in a Reduced Complexity Cross: Implications for Genome-Wide Studies of Food “Addiction” and Eating Disorder Traits. *ACNP 2014, Phoenix, AZ.*

Kirkpatrick SL, Bolgioni A, Mulligan MK, Cottone P, **Bryant CD (2014).** A forward genetic mouse model of compulsive eating: Implications for genome-wide studies of eating disorder traits. *Society for Neuroscience, Washington, D.C. USA*

Kirkpatrick SL, Bolgioni A, Mulligan MK, Cottone P, **Bryant CD (2014).** A forward genetic mouse model of compulsive eating: Implications for human GWAS of eating disorder traits. *IBANGS, Chicago, IL USA.*

Goldberg LR, Kirkpatrick SL, **Bryant CD (2014).** A role for casein kinase-1 epsilon in the motivational properties of opioids. *IBANGS, Chicago, IL USA, Society for Neuroscience, Washington, D.C. USA.*

Yazdani N, Shen Y, Johnson WE, **Bryant CD (2014)**. Transcriptome analysis of a congenic mouse line demonstrating decreased methamphetamine sensitivity. *IBANGS, Chicago, IL USA.*

Yazdani N, Goldberg LR, Kirkpatrick SL, Shen Y, Johnson E, **Bryant CD** (**2013**). RNA-seq analysis of a 0.23 Mb region regulating methamphetamine sensitivity in mice. *Genome Science Institute Symposium, Boston University School of Medicine*

Bryant CD, Parker CC, Guido MA, Kole LA, Goldberg LR, Kirkpatrick SL, Mcloed MM, Sokoloff G, Lim JE, Cheng R, Palmer AA **(2013)**. A 0.23 Mb region regulates methamphetamine sensitivity in mice. *World Congress of Psychiatric Genetics, Boston, MA*

Bryant CD, Parker CC, Guido MA, Kole LA, Goldberg LR, Kirkpatrick SL, Sokoloff G, Lim JE, Cheng R, Palmer AA **(2013)**. *Rufy1* or *Hnrnph1* is a likely quantitative trait gene for methamphetamine sensitivity. *Experimental Biology Meeting, Boston, MA. April 24, 2013*

Bryant CD, Parker CC, Guido MA, Kole LA, Lim JE, Sokoloff G, Cheng R, Palmer AA **(2012)**. A 0.23 Mb region on mouse chromosome 11 contains three possible quantitative trait genes influencing methamphetamine sensitivity. *ACNP 2012 Hollywood, FL USA*

Bryant CD, Guido MA, Loren A. Kole[1], Gonzales NM, Davis J, Gopalakrishnan S, Cheng R, Palmer AA **(2012)**. Oxycodone-induced conditioned place preference in an LG/J x SM/J F_{47}/F_{48} advanced intercross line. *Society for Neuroscience, New Orleans, LA USA.*

ABSTRACTS PRIOR TO ARRIVAL AT BOSTON UNIVERSITY SCHOOL OF MEDICINE

Guido MA, **Bryant CD (2012)**. A role for the *Csnk1e* locus in opioid reward. *IBANGS, Boulder, CO USA.*

Gonzales NM, Gopalakrishnan S, **Bryant CD**, Pritchard JK, Palmer AA **(2012)**. Using allele-specific expression analysis to identify cis-eQTLs and parent-of-origin effects in reciprocal F1 crosses of LG/J and SM/J mice. *IBANGS, Boulder, CO USA.*

Bryant CD, Parker CC, Zhou L, Olker C, Chandrasekaran RY, Wager TT, Bolivar VJ, Loudon AS, Vitaterna MH, Turek FW, Palmer AA **(2011)**. *Csnk1e* is a genetic regulator of sensitivity to psychostimulants and opioids. *Society for Neuroscience, Washington, DC USA; NIDA Miniconvention, Frontiers in Addiction Research, ACNP Meeting, Waikoloa Beach, Hawaii USA.*

Bryant CD, Zhou L, Olker C, Vitaterna MH, Turek FW, Palmer AA **(2011).** *Csnk1e* is a genetic regulator of sensitivity to psychostimulants and opioids. *INRC, Hollywood, FL USA*

Bryant CD, Hart A, de Wit H, Palmer AA **(2010).** Fine-scale mapping of a 3 cM genetic locus on mouse chromosome 11 influencing methamphetamine sensitivity. *Society for Neuroscience, San Diego, CA USA.*

Bryant CD, Guido M, Palmer AA **(2010).** The use of multiple mapping populations for fine mapping a QTL for methamphetamine sensitivity on chr. 12**.** *Complex Trait Community, Chicago IL USA.*

Bryant CD, Chang HP, Palmer AA **(2009).** Fine mapping of quantitative trait loci on chromosome 12 influencing methamphetamine sensitivity in two mouse populations. *Society for Neuroscience, Chicago, IL USA.*

Bryant CD, Graham ME, Distler MG, Wing C, Palmer AA **(2009).** Genetic and pharmacological evidence that casein kinase 1 epsilon contributes to locomotor activity in a novel, but not a habituated environment. *IBANGS, Dresden, Germany.*

Bryant CD, Chang HP, Distler MG, Zhang J, Palmer AA **(2009)**. The use of multiple mapping populations to identify candidate genes for a major QTL on chr. 11 influencing psychostimulant and opioid sensitivity. *Complex Trait Community, University of Manchester, Manchester, England.*

Bryant CD, Lim JE, Zhang J, Sokoloff G, Palmer AA **(2008)**. The use of B6.D2 congenics and B6.AJ chromosome substitution strains to confirm and reveal novel quantitative trait loci influencing methamphetamine-induced locomotor stimulation. *Complex Trait Community, Montreal, QC Canada.*

Bryant CD, Roberts KW, Culbertson CS, Evans CJ, Fanselow MS **(2007)**. "Social modulation of

conditional and unconditional opioid behavioral responses." *Society for Neuroscience, San Diego, CA USA*

McRoberts JA, **Bryant CD**, Zhang N, Ennes HS, Vissel B, Fanselow MS, Mayer EA **(2007)**. "Differential nociceptive responses to thermal and mechanical stimuli in two substrains of C57BL/6 mice." *Society for Neuroscience, San Diego, CA USA*

Gioiosa L, Chen X, Watkins R, Klanfer N, **Bryant CD**, Evans CJ, Arnold AP **(2007)**. "Sex chromosome effects in tests of nociception in adult mice." *Society for Neuroscience, San Diego, CA USA.*

Gioiosa L, Chen X, Watkins R, **Bryant CD**, Evans CJ, Arnold AP **(2007)**. "Sex chromosome complement influences nociception in tests of acute and chronic morphine exposure in mice." *Third Annual Scientific Symposium of the Center for Neurovisceral Sciences and Women's Health, UCLA.*

Bryant CD, Roberts KW, Culbertson CS, Evans CJ, Fanselow MS **(2006)**. "A mouse model of the placebo effect: Opioid and non-opioid mechanisms." *INRC, Minneapolis, MN USA.*

Bryant CD, Evans CJ, Fanselow MS **(2005)**. "Conditioned opiate-like locomotion: Dissociation of the amount and pattern reveals a unique role of the dorsal hippocampus." *Society for Neuroscience, Washington, D.C. USA.*

Bryant CD and Evans CJ **(2005)**. "Competitive and non-competitive NMDA receptor antagonists affect morphine tolerance in male, but not female C57BL/6J mice." *Second Annual Scientific Symposium of the Center for Neurovisceral Sciences and Women's Health, UCLA.*

Byun JS, Brennan RJ, **Bryant CD**, and Boulter J **(2005)**. "Behavioral characterization of a nAChR alpha 2 subunit knockout mouse." *California TRDRP Conference, Los Angeles, CA USA*

Evans CJ, Eitan S, **Bryant CD**, Polakiewicz R **(2004)**. "Instatement of morphine-induced MAPK activation in the hippocampus following chronic morphine." *INRC, Kyoto, Japan.*

Bryant CD, Eitan S, Saliminejad N, Polakiewicz R, and Evans CJ **(2003)**. "NMDA receptor-dependent morphine-induced ERK1/2 (MAPK) activation and tolerance in the mouse brain." *Society for Neuroscience, New Orleans, LA USA.*

Bryant CD, Eitan S, Fanselow MS, and Evans CJ **(2003)**. "Context-dependent expression of locomotor sensitization to morphine in C57BL/6J mice." *UCLA Learning and Memory Conference.*

Schwetz I, **Bryant CD**, McRoberts JA, Bradesi S, Sablad M, Ohning G, Mayer EA **(2003)**. "Stress-Induced modulation of visceral and somatic nociception in rats." *UCLA CURE Conference.*

Bryant CD, Evans CJ, Fanselow MS **(2002)**. "Context-dependent associative tolerance to morphine and fentanyl in C57BL/6 mice." *Pavlovian Society, UCLA.*

Bryant CD, Bond C, Eitan S, Arjomand J, Carroll FI, Evans CJ **(2002)**. "Chronic inverse agonism at the delta opioid receptor: A novel mechanism for mimicking aspects of acute agonist signaling. *INRC and Society for Neuroscience, Orlando, FL USA.*

Eitan S, **Bryant CD**, Saliminejad N, Ansonoff M, Yang YC, Keith Jr D, Polakiewicz R, Pintar JE, Evans CJ **(2002)**. "Modulation of MAPK activation in vivo following acute opioid agonist or antagonist treatment." *INRC, Monterey, CA USA.*

Eitan S, **Bryant CD**, Saliminejad N, Ansonoff M, Yang YC, Keith Jr D., Polakiewicz R, Pintar JE, Evans CJ **(2002)**. "Naloxone induces MAPK activation in the amygdala and BNST in wild-type but not

enkephalin-ko mice." *INRC, Monterey, CA and Society for Neuroscience, Orlando, FL USA.*

Bryant CD, Lutfy K, Brine GA, Carroll FI, Evans CJ **(2001)**. "Differential tolerance liabilities of isomers of a superpotent opiate, cis-beta-hydroxy-3-methylfentanyl. *Society for Neuroscience, San Diego, CA USA.*

ADDITIONAL PROFESSIONAL ACTIVITIES

2013- **Speakers that I have hosted at BU:** Dr. Clarissa C. Parker from Middlebury College (2014, TTPAS Seminar), Dr. Elissa J. Chesler from The Jackson Laboratory (2015 TTPAS Seminar), Dr. Jeffrey S. Mogil from McGill University (2015 Sterling Seminar, Dept. of Pharmacology), and Dr. Laura M. Holsen from Harvard Medical School (2016 TTPAS Seminar), Dr. Ream Al-Hasani (2016, Wash U St. Louis), Dr. Matthew Banghart (2015, Harvard), Dr. Matthew Hearing (2015, Marquette University), Dr. Jamie Maguire (2016, Tufts), Dr. Matthew Buczynski (2015, Scripps), Dr. Brandon Henderson (2016, Scripps), Dr. Jordan McCall (2016, Wash U), Dr. Erin Calipari (2016, Mt. Sinai), Dr. Huiping Zhang (Yale), Dr. Barak Caine (2016, McLean Hospital, Harvard Med), Dr. Jay McLaughlin (2017, University of Florida), Dr. Vivek Kumar (2017, TTPAS, The Jackson Laboratory). Dr. M. Imad Damaj (2017, TTPAS, Virginia Commonwealth University), Dr. Ryan W. Logan (2019, Sterling Seminar in Pharmacology), Dr. Venetia Zachariou (2019, Sterling Seminar in Pharmacology), Dr. Joseph Dougherty (2019, Sterling Seminar in Pharmacology, 2019), Dr. Megan K. Mulligan (2021, Sterling Seminar), Dr. Benjamin Scott (NeuroBoston 2021), Dr. Jeffrey S. Mogil (2021; GPN DEIJ Symposium), Britahny Baskin (2022; Postdoc candidate), Dr. Erin S. Calipari (2022-2023 CSN Seminar Series), Dr. Julie Blendy (2023, Sterling Seminar).

2014- Active involvement in Pharmacology and Graduate Program in Neuroscience recruitment of students, including reviewing applications, interviewing students, and giving talks.

2014-15 Awards Committee, International Behavioural and Neural Genetics Society

2015-18 Member at Large, Executive Committee, International Behavioural and Neural Genetics Society

2016 Invited panel discussant for poster session for NIDA Genetics Consortium Meeting

2017 Panel Discussant, Pfizer Symposium on Emerging Technologies, hosted by BUSM Pharmacology, May 1, 2017

2017 Completion of leadership workshop: Emerging Healthcare Leaders Program, Institute for Health System Innovation Policy, hosted at Boston University's Questrom School of Business. August 9-10, 2017.

2019- Chair, IBANGS Program Committee and Local Organizing Committee, Host of the 2020 IBANGS Meeting in Woods Hole, MA (re-scheduled for 2021 due to COVID-19)

2020- Member, Russek Student Achievement Day Award Committee, Boston University

2020- Invitation to teach a Twitter virtual tutorial for #scitwitter a the 2020 ACNP virtual meeting. The tutorial is part of the "Social media in science: Career Development Session Contributing to the online platforms as a scientist."

2021 Basic Science Review of the departments, Boston University School of Medicine.

2021 Chair, Planning Committee, and local host of Boston Area Neuro Group (BANG) a.k.a. NeuroBoston Meeting – a Boston metro neuroscience group and SFN chapter. 11/9/21

2021 Program Committee, IBANGS 2022, Memphis, TN USA

2022 Grant app reviewer for Center for Translational Neuroscience Institute (CTSI), Boston University, January 2022

2022 Grant app reviewer for the Genome Sciences Institute (GSI), Boston University School of Medicine, March 2022

2022 (Declined) Invitation to review grant proposal for the National Science Center, Poland. ID: 537993, OPUS-22, NZ5, Maj Institute of Pharmacology, Polish Academy of Sciences, "Brain GABAB receptors as determinants of obesity phenotypes: Evaluation of adolescent female

and male rats

2022 Served as mentor in Trainee Day “speed mentoring” workshop, Genes, Brain and Behavior Meeting, International Behavioural and Neural Genetics Society, Memphis, TN USA May 23, 2022

2022 Chair, Planning Committee, and local host of Boston Area Neuro Group (BANG) a.k.a. NeuroBoston Meeting – a Boston metro neuroscience group and SFN chapter.

2022 Served as mentor for “speed mentoring” workshop at the 2022 INRC meeting in Valencia, Spain.