

Paul M. Jenkins, Ph.D.

Pfizer Upjohn Research Professor of Molecular Pharmacology
Associate Professor
Departments of Pharmacology and Psychiatry
University of Michigan Medical School
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EDUCATION AND TRAINING

- 09/1997-05/2001 B.S. in General Biology, University of Michigan, Ann Arbor, MI, Conferred May 2001.
- 09/2004-02/2010 Ph.D. in Pharmacology, University of Michigan Medical School, Ann Arbor, MI., Conferred February 2010. Advisor: Professor Jeffrey Martens.
- 05/2010- 02/2015 Postdoctoral Fellow, Duke University and Howard Hughes Medical Institute, Durham, NC. Departments of Cell Biology and Biochemistry. Advisor: Professor Vann Bennett

ACADEMIC APPOINTMENTS

- 03/2015-08/2024 Assistant Professor, Department of Pharmacology, University of Michigan Medical School, Ann Arbor, MI.
- 03/2015-08/2024 Assistant Professor, Department of Psychiatry, University of Michigan Medical School, Ann Arbor, MI.
- 09/2024-present Associate Professor (tenure), Department of Pharmacology, University of Michigan Medical School, Ann Arbor, MI.
- 09/2024-present Associate Professor, Department of Psychiatry, University of Michigan Medical School, Ann Arbor, MI.
- 12/2024-present Pfizer Upjohn Research Professor of Molecular Pharmacology. Department of Pharmacology, University of Michigan Medical School, Ann Arbor, MI.

RESEARCH INTERESTS

- Cellular and molecular neuroscience
- Neuropsychiatric disease mechanisms
- Protein trafficking
- Palmitoylation
- Ion channel biology
- Membrane structure

OTHER RESEARCH EXPERIENCE

- 09/2001-06/2002 Laboratory Technician, Compound Management, Pfizer Global Research and Development, Ann Arbor, MI.
- 06/2002-09/2003 Research Assistant, Jerry Stitzel Laboratory, Department of Pharmacology, University of Michigan, Ann Arbor, MI.
- 09/2003-06/2004 Research Assistant, Richard Mortensen Laboratory, Department of Pharmacology, University of Michigan, Ann Arbor, MI.

GRANTS AND OTHER FINANCIAL SUPPORT

PRESENT AND ACTIVE

- 05/2021-02/2026 Agency: NIMH (R01 MH126960-01)
Title: Convergent mechanisms for neurodevelopmental disorder genes
PI: Multi-PI (Paul Jenkins and Kevin Bender)
Role: Contact PI
Total Direct Costs: \$2,039,935 First year: \$405,983
- 12/2024-11/2026 Agency: NIMH (R21NS136833-01A1)
Title: Probing mechanisms of long QT type 2-associated neuronal dysfunction using gene-edited stem cell-derived neurons
PI: David Jones
Role: Co-investigator
Total Direct Costs: \$270,000 First year: \$125,000

PENDING

- 02/2026-01/2031 Agency: NIMH (R01 MH126960-06)
Title: Convergent mechanisms for neurodevelopmental disorder genes
PI: Multi-PI (Paul Jenkins and Kevin Bender)
Role: Contact PI

PREVIOUSLY FUNDED

- 06/2008-01/2010 Agency: NIDCD (F31 DC009524)
Title: Mechanisms of Ciliary Trafficking of the Olfactory CNG Channel
PI: Paul Jenkins
Role: PI
Total Direct Costs: \$57,000
- 05/2017-04/2019 Agency: NINDS (R01 NS088571-02S1)
Title: Discovering Epilepsy Mechanisms in Dravet Syndrome
PI: Lori Isom

	<p>Role: Co-investigator (without effort)</p> <p>Total Direct Costs: \$90,420</p>
05/2018-04/2020	<p>Agency: NINDS (R21 NS104774-01A1)</p> <p>Title: Exploring Neuron-Specific Histone Methylation Dynamics</p> <p>PI: Shigeki Iwase</p> <p>Role: Consultant</p> <p>Total Direct Costs: \$275,000</p>
04/2019-03/2020	<p>Agency: Michigan Institute for Clinical & Health Research (MICHHR)</p> <p>Title: Defining the cellular pathways impacted by bipolar disorder therapeutics in animal and mouse models of <i>ANK3</i> dysfunction</p> <p>PI: Jenkins, Paul</p> <p>Role: PI</p> <p>Total Direct Costs: \$75,000</p>
12/2018-12/2021	<p>Agency: One Mind</p> <p>Title: Therapeutic modulation of <i>ANK3</i>-dependent GABAergic circuitry</p> <p>PI: Jenkins, Paul</p> <p>Role: PI</p> <p>Total Direct Costs: \$227,271</p>
07/2019-12/2021	<p>Agency: NINDS (R21 NS113022-01)</p> <p>Title: Understanding <i>ANK3</i>-associated epileptic encephalopathies</p> <p>PI: Paul Jenkins</p> <p>Role: PI</p> <p>Total Direct Costs: \$275,000 First year: \$150,000</p>
01/2020-01/2022 NCE 01/2023	<p>Agency: Brain & Behavior Research Foundation</p> <p>Title: Discovering therapies for <i>ANK3</i>-associated bipolar disorder</p> <p>PI: Paul Jenkins</p> <p>Role: PI</p> <p>Total Direct Costs: \$70,000</p>
04/2020-03/2022 NCE 03/2023	<p>Agency: SFARI (#675594)</p> <p>Title: Investigating a novel link between <i>ANK2</i> and <i>SCN2A</i></p> <p>PI: Paul Jenkins</p> <p>Role: PI</p> <p>Total Direct Costs: \$300,000</p>
02/2024-01/2025	<p>Agency: The Orphan Disease Center, University of Pennsylvania (MDBR-24-26-SCN2A)</p> <p>Title: Channel Scaffolding and Its Contribution to <i>SCN2A</i> Disorders</p> <p>PI:: Paul Jenkins</p>

Role: PI
Total Direct Costs: \$61,280

09/2023-05/2024 Agency: Simons Foundation Autism Research Initiative (NC-SURFiN-00003391)
Title: Shenoy Undergraduate Research Fellowship in Neuroscience
PI: Paul Jenkins
Role: Research Mentor
Total Direct Costs: \$12,089

06/2023-06/2024 Agency: Neuropharmaka
Title: Research Collaboration between the University of Michigan and Neuropharmaka.
PI: Jenkins
Role: PI
Total Direct Costs: \$161,142

HONORS AND AWARDS

2005-2007	Pharmacological Sciences Training Program Fellowship
2006	Thomas Baum Travel Award for the 2006 Association for Chemoreception Sciences Meeting in Sarasota, FL
2007-2008	Institutional NRSA from Hearing, Balance, and Chemical Senses Training Grant, University of Michigan
2008-2010	Ruth L. Kirschstein Predoctoral National Research Service Award
2017	Travel Award, American College of Neuropsychopharmacology 56th Annual Meeting, Palm Springs CA
2018	One Mind Rising Star Bipolar Disorder Translational Research Award
2019	NARSAD Young Investigator Award, Brain & Behavior Research Foundation
2022	Shaomeng Wang and Yu-Jun Li Pharmacology Research Award for Junior Faculty
2023	Endowment for Basic Sciences Teaching Award
2024	Pfizer Upjohn Research Professor of Molecular Pharmacology

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2006-2010	Association for Chemoreception Sciences
2008-present	American Society for Pharmacology and Experimental Therapeutics
2009-present	Society for Neuroscience
2010-present	American Society for Cell Biology
2012-present	American Society for Neurochemistry
2018-present	Biochemical Society

STUDY SECTIONS AND GRANT REVIEW SERVICE

2017, 2023	Biotechnology and Biological Sciences Research Council, Swindon, United Kingdom (ad hoc)
2018	NIH Early Career Reviewer Program
2018	Member of NIH study section (SYN) Synapses, Cytoskeleton and Trafficking (ad hoc)
2018	Natural Sciences and Engineering Research Council of Canada (ad hoc)
2019	National Science Center, Poland (ad hoc)
2019-2020	Member of NIH study section (ZRG1 MDCN-P 57) Molecular and Cellular Substrates of Complex Brain Disorders Special Emphasis Panel (ad hoc)
2019, 2023	Natural Sciences and Engineering Research Council of Canada (ad hoc)
2023	Member of NIH study section (NDPR) Neurodifferentiation, Plasticity, Regeneration and Rhythmicity (ad hoc)
2024	Huntington Society of Canada (ad hoc)
2025	Member of NIH study section (F03A-E) Fellowships: Neurodevelopment, Oxidative Stress, and Synaptic Plasticity (ad hoc)

PEER-REVIEW SERVICE

EDITORIAL BOARDS

Molecular Neuropsychiatry, since 2017

JOURNAL REVIEWER

Journal of Neurochemistry (ad hoc), since 2009
Scientific Reports (ad hoc), since 2016
Frontiers in Cellular Neuroscience (ad hoc), since 2016
Behavioural Brain Research (ad hoc), since 2017
Biochemistry (ad hoc), since 2017
British Journal of Pharmacology (ad hoc), since 2017
European Journal of Medical Genetics (ad hoc), since 2017
Journal of Neuroscience (ad hoc), since 2017
Nature Neuroscience (ad hoc), since 2017
International Journal of Medical Sciences (ad hoc), since 2018
Molecular and Cellular Neuroscience (ad hoc), since 2018
Molecular Psychiatry (ad hoc), since 2019
Synapse (ad hoc), since 2019
Frontiers in Physiology (ad hoc), since 2020
Journal of Visualized Experiments (ad hoc), since 2020
iScience (ad hoc), since 2020
eLife (ad hoc), since 2021
Cell Calcium (ad hoc), since 2021
eNeuro (ad hoc), since 2021
Journal of Biological Chemistry (ad hoc), since 2021

The EMBO Journal (ad hoc), since 2021
 Translational Psychiatry (ad hoc), since 2021
 Zoological Research (ad hoc), since 2022
 Biological Psychiatry (ad hoc), since 2022
 Science Signaling (ad hoc), since 2022
 Frontiers in Molecular Neuroscience (ad hoc), since 2023
 Cerebral Cortex (ad hoc), since 2023
 FASEB Journal (ad hoc), since 2023
 FEBS journal (ad hoc), since 2023
 ACS Chemical Biology (ad hoc), since 2023
 Nature Communications (ad hoc), since 2024
 Glia (ad hoc), since 2024
 Neuropsychopharmacology (ad hoc), since 2025

TEACHING AND MENTORING

LECTURES AND CLASSES

01/2007-5/2007	Pharmacology 502: Principles of Scientific Communication <i>Graduate Student Teaching Assistant</i>
10/2007-1/2010	Guest lecturer at Washtenaw Community College Psychology 240: Drugs, Society, and Human Behavior <i>Lectured in Introductory Pharmacology and Neuropharmacology</i>
10/2015	Human Genetics 632: Genetic Strategies in Biological Research <i>Giant ankyrin-G and GABAergic synaptogenesis: Implications for neuropsychiatric disease</i>
10/2016-09/2019	Dentistry 640: Gastrointestinal System (2 contact hours) <i>Lectured on Drugs acting on the Gastrointestinal tract and on Hepatotoxic drugs.</i>
09/2016-11/2016	Pharmacology 502: Principles of Scientific Communication (10 contact hours) <i>Small group leader</i>
11/07/2016	Department of Neurology Basic Neuroscience Series (1 contact hour) <i>Lectured on Cellular and molecular mechanisms of psychiatric disease</i>
01/2017-01/2021	M1 Gastrointestinal Sequence (1 contact hour) <i>Lectured on antisecretory and antiemetic therapies</i>
03/2017	<i>Pharmacology 646: Student Seminar (1 contact hour)</i>
04/2017-04/2020	M1 Musculoskeletal Sequence (1 contact hour)

Lectured on NSAIDs and acetaminophen

08/2017-08/2022	Neuroscience 623: Neuroscience Bootcamp (24 contact hours) <i>Lectured on principles of light microscopy</i>
10/2017-10/2020	Pharmacology 601: From Molecules to Patients: Basic Quantitative Principles of Pharmacology (5 contact hours) <i>Lectured on Drug targets, structure/function of major receptor classes, and signal transduction</i>
10/30/2017	Department of Neurology Basic Neuroscience Series (1 contact hour) <i>Lectured on Cellular and molecular mechanisms of psychiatric disease</i>
05/2018-10/2018	MICHR Studio for the Postdoctoral Translational Scholars Program and the KL2 awardees (2 contact hours) <i>Lectured on the Academic Job Applications, Research Talks, and Strategies</i>
02/2019-03/2022	Medicinal Chemistry 510: Principles of Drug Action II (9 contact hours) <i>Lectured on antihistamines, antacids, and NSAIDs</i>
04/23/2019	Neuroscience 700 Weekly Neuroscience Seminar (3 contact hours) <i>Provided guidance and feedback on oral presentation skills</i>
11/2019-11/2020	Pharmacology 310: Pharmacology and Therapeutics (5 contact hours) <i>Lectured on Autacoid pharmacology, asthma, and gout</i>
09/2021-05/2022	Pharmacology 604: Collaborative Projects for PSTP Trainees. (9 contact hours) <i>Course Co-Director</i>
04/2022-04/2023	Neuroscience 616: Translational Neuroscience (2.5 contact hours) <i>Lectured on Autism Spectrum Disorders and led discussion group</i>
09/2022-05/2023	Pharmacology 646: Student Seminar (48 contact hours) <i>Course Director</i>
09/2023-05/2024	Pharmacology 646: Student Seminar (35 contact hours) <i>Course Director</i>
11/2023-05/2024	PIBS 800: Surviving and Succeeding in Graduate School (5 contact hours)

Course Co-Director

09/2024 Neuroscience 616: Translational Neuroscience (4 contact hours)
Lectured on Autism Spectrum Disorders and led discussion group

POSTDOCTORAL FELLOW MENTORING

01/2017-05/2020 René Caballero-Florán, Ph.D. – Research Investigator, Jenkins Lab
05/2017-03/2019 Angela Carter, Ph.D. - Data Analyst Manager, CDC Foundation, Atlanta, GA

DOCTORAL STUDENT MENTORING

03/2015-07/2019 Andrew Nelson, (Pharmacology) – Postdoctoral Fellow, Kevin Bender laboratory, University of California – San Francisco
Genetics Training Program fellowship recipient (T32GM007544)
Rackham Predoctoral Fellow
06/2017-05/2021 Julie Gupta, née Philippe (Pharmacology)
Pharmacological Sciences Training Program fellowship recipient (T32GM007767), Rackham Merit Fellow, Rackham Predoctoral Fellow, Life Sciences Consultant, Putnam Associates, Boston, MA
03/2021-present Carina Elvira, (Cell and Molecular Biology), Cellular and Molecular Biology Training Grant recipient (T32GM007315)
03/2021-present Kendall Dean, née Perkins, (Cell and Molecular Biology), Cellular and Molecular Biology Training Grant recipient (T32GM007315)
05/2023-present Kalynn Bird, (Pharmacology), Pharmacological Sciences Training Program fellowship recipient (T32GM007767)

ROTATING GRADUATE STUDENT MENTORING

03/2015-06/2015 Andrew Nelson (Pharmacology), joined laboratory
01/2016-05/2016 Jon Dean (Molecular and Integrative Physiology)
10/2016-01/2017 Julie Philippe (Pharmacology), joined laboratory
01/2017-05/2017 Nnamdi Edokobi (Pharmacology)
05/2017-06/2017 Logan Morrison (Neuroscience)
01/2018-04/2018 Katherine Bonefas (Neuroscience)
09/2018-12/2018 Sophie Hill (Neuroscience)
09/2018-12/2018 Kelsey Kochan (Pharmacology)
01/2019-05/2019 Rachel Springsdorf (Pharmacology)
01/2020-04/2020 Shreeya Bakshi (Pharmacology)
08/2020-10/2020 Kendall Perkins (Cellular & Molecular Biology), joined laboratory
10/2020-12/2020 Carina Elvira (Cellular & Molecular Biology), joined laboratory
10/2020-12/2020 Chrystian Phillips (Molecular & Integrative Physiology)
01/2021-03/2021 Megan Dykstra (Neuroscience)
09/2021-10/2021 Brianna Ramos (Neuroscience)
01/2022-03/2022 Lisa Leung (Pharmacology)
01/2022-03/2022 Christen Snyder (Neuroscience)
03/2022-05/2022 Emily Peirent (Neuroscience)
10/2022-12/2022 Alexander Ford (Neuroscience)

01/2023-03/2023	Ola Bartolik (Neuroscience)
03/2023-05/2023	Kalynn Bird (Pharmacology), joined laboratory
09/2023-10/2023	Kendall Coden (Neuroscience)
11/2023-12/2023	Sid Ramesh (Cellular & Molecular Biology)
11/2023-12/2023	Maxwell Miyasoto (Neuroscience)
08/2024-10/2024	Gracie Kmeic (Pharmacology), joined laboratory

MASTERS STUDENT MENTORING

04/2018-08/2019	Amanda France (Pharmacology)
09/2019-06/2020	Riley Crandall (Pharmacology)
09/2022-07/2023	Sarvatha Mukundan (Pharmacology)

POSTBACCALAUREATE STUDENT MENTORING

08/2021-11/2022	Monica Mesecar (University of Michigan PREP Program)
09/2022-present	Cooper Stinson (University of Michigan MEDPREP Program)

UNDERGRADUATE STUDENT MENTORING

05/2015-06/2016	Katlin Hahm (University of Michigan)
06/2015-08/2015	Bing Zheng (Truman State University), 2015 ASPET Summer Fellowship
06/2015-08/2018	Randall Strassburg (University of Michigan)
10/2015-08/2018	Mathew Gologorsky (University of Michigan)
01/2016-08/2018	Shruti Arora (University of Michigan), Bonderman Fellowship Recipient
06/2016-08/2016	Sara Graves (Gustavus Adolphus College), 2016 ASPET Summer Fellowship
09/2016-11/2017	Zach Bernstein (University of Michigan), 2017 Summer UROP Biomedical and Life Sciences Fellowship recipient
09/2016-01/2017	Humza Hemani (University of Michigan)
06/2017-09/2018	Madison O'Donnell (University of Michigan)
06/2018-08/2018	Amanda Gregolynskyj (University of Arizona), 2018 NURO Summer Fellowship
09/2018-08/2019	Marissa Martinelli (University of Michigan), 2019 ASPET Summer Fellowship
09/2018-05/2019	Maxwell Tsai (University of Michigan)
09/2018-08/2019	Jaeyoung Choi (University of Michigan)
09/2018-02/2020	Ellie Falahee (University of Michigan)
02/2019-01/2020	Hannah Pearlstein (University of Michigan)
06/2019-08/2019	Richard Daniel Kelly IV (Florida State University), 2019 NURO Summer Fellowship
09/2019-09/2021	Lauren Johnson (University of Michigan)
03/2021-04/2022	Elise McCormick (University of Michigan)
60/2021-08/2021	Ola Bartolik (Kalamazoo College), 2021 NURO Summer Fellowship
09/2021-05/2023	Clayton Kramm (University of Michigan)
01/2022-05/2025	Gabrielle Pough (University of Michigan)

05/2022-05/2024	Luke Granberg (University of Michigan)
06/2022-8/2022	Jean Setenet (Ursinus College), 2022 NURO Summer Fellowship
06/2022-8/2022	Lucas Tittle (University of Michigan), 2022 Charles Ross Fellowship
05/2023-08/2023	Josephine Levey (Bates College)
09/2023-05/2025	Elizabeth Cervantes (University of Michigan)
09/2023-08/2025	Sarah Verduci (University of Michigan)
05/2024-08/2024	Grace Dossou (Yale University), 2024 UM-SMART Fellow

PRELIMINARY EXAMINATION COMMITTEES

05/2015	Rachel Altschuler (Pharmacology)
02/2016	Katelyn Green (Cellular and Molecular Biology)
03/2016	Melanie Cheungseekit (Chemistry)
09/2016	Sijin Ren (Neuroscience Graduate Program)
09/2016	James Delorme (Neuroscience Graduate Program, Chair)
05/2017	Alex Stanczyk (Pharmacology)
09/2017	Dalia Murra (Neuroscience Graduate Program)
09/2017	Jean Carlos Rodriguez-Diaz (Neuroscience Graduate Program)
04/2018	Mirella Hernandez-Lima (Neuroscience Graduate Program)
05/2019	Joshua Lott (Pharmacology)
12/2019	Wenhui Wei (Pharmacology, Chair)
02/2020	Jonathon McBride (Cellular and Molecular Biology)
07/2020	Caroline Hernandez-Casner (Pharmacology)
03/2021	Anthony Robinson (Cellular and Molecular Biology, Chair)
04/2021	Shreeya Bakshi (Pharmacology, Chair)
08-11/2021	Chante Liu (Pharmacology, Chair)
02/2022	Najia Elakalah (Cellular and Molecular Biology)
03/2022	Adele Correia (Cellular and Molecular Biology)
04/2022	Karen Wang (Cell & Developmental Biology)
04/2022	Tyler Bernadyn (Pharmacology)
03/2023	Curtis Kuo (Cellular and Molecular Biology)
04/2023	Christian Martinez Ramos (Pharmacology)
04/2024	Kaitlyn Digsby (Pharmacology)
08/2024	Jennifer Smith (Public Health)

DOCTORAL DISSERTATION COMMITTEES

2015-2019	Andrew Nelson (Pharmacology), Chair
2016-2019	Melanie Cheungseekit (Chemistry)
2017-2021	Julie Gupta, née Philippe (Pharmacology), Chair
2017-2023	Nichelle Jackson (Pharmacology)
2018-2023	Daniel Doyle (Neuroscience)
2018-2022	Sarah Pizzano (Neuroscience), Co-chair
2018-2023	Jean Carlos Rodríguez Díaz (Neuroscience)
2018-present	Taylor Craig (Neuroscience)
2019	Shuoying Ren (Pharmacology)
2019-2020	William Walker (Chemistry)

2020-2024	Hao Chen (Pharmacology)
2021-2025	Megan Dykstra (Neuroscience)
2021	Karen Wang (Cell & Developmental Biology)
2022	Emil Arvedsen (University of Copenhagen, Copenhagen, Denmark)
2022-present	A. Kane York (Neuroscience)
2022-present	James Teuber (Pharmacology)
2022-present	Carina Elvira (Cellular and Molecular Biology, Chair)
2022-present	Kendall Dean, née Perkins (Cellular and Molecular Biology, Chair)
2022-present	Ikenna Njoku (Neuroscience)
2022-present	Nat Rogers (Biophysics)
2023-present	Emily Januck (Neuroscience, Co-chair)
2023-present	Joey Tidei (Loyola University Chicago, Chicago, Illinois)
2024-present	Ola Bartolik (Neuroscience)
2024-present	Jennifer Smith (Public Health)
2024-present	Kalynn Bird (Pharmacology), Chair
2025-present	Gracie Kmeic (Pharmacology), Chair

MEMBER OF NIH-FUNDED TRAINING GRANT FACULTIES

T32 PI: Lori Isom

Role: Participating Mentor

Interdepartmental Training in Pharmacological Sciences

T32 PI: Les Satin

Role: Participating Mentor

Early State Training in the Neurosciences

T32 PI: Jason Spence, Marina Pasca Di Magliano

Role: Participating Mentor

Training Program in Organogenesis

T32 PI: Manoj Puthenveedu

Role: Participating Mentor

Cellular and Molecular Biology at Michigan

T32 PI: John Moran

Role: Participating Mentor

Michigan Predoctoral Training in Genetics

COMMITTEE, ORGANIZATIONAL, AND VOLUNTEER SERVICE

INTERNATIONAL

2018 Co-organizer, Collaborative Research Consortium SFB 1134
“Axons in the Hills”, Heidelberg, Germany

NATIONAL

2019 Vice chair, FASEB Summer Research Conference, The Protein
Lipidation Conference: Enzymology, Signaling, and Therapeutics,
Olean, NY.

2020-2021	Focus Area Participant, Bipolar Disorder Roadmap Initiative (BDRI), Milken Institute
2021	Co-Chair, FASEB Summer Research Conference, The Protein Lipidation Conference: Enzymology, Signaling, and Therapeutics, Virtual Meeting.
2022	Co-Chair, FASEB Summer Research Conference, The Protein Lipidation Conference: Enzymology, Signaling, and Therapeutics, Saxtons River, VT.

REGIONAL

2016	Poster judge, 47 th Annual Michigan Chapter of the Society for Neuroscience Meeting, East Lansing, MI
2016	Poster judge, 43 rd Annual Pharmacology Research Colloquium, Ann Arbor, MI
2017	Poster judge, 48 th Annual Michigan Chapter of the Society for Neuroscience Meeting, Ann Arbor, MI
2017	Poster judge, 44 th Annual Pharmacology Research Colloquium, Detroit, MI
2018	Poster judge, 49 th Annual Michigan Chapter of the Society for Neuroscience Meeting, Detroit, MI
2018	Oral Presentation judge, 45 th Annual Pharmacology Research Colloquium, East Lansing, MI
2019	Poster judge, 50 th Annual Michigan Chapter of the Society for Neuroscience Meeting, Kalamazoo, MI
2019-2022	Councilor, Michigan Chapter of the Society for Neuroscience

INSTITUTIONAL

2008-2009	Pharmacology representative, Rackham Graduate Student Council
2022-	Associate Director for Biological Sciences, Heinz C. Prechter Bipolar Research Program

MEDICAL SCHOOL

2008-2009	Graduate student representative, Program in Biomedical Sciences Admissions Committee
2015-present	Program in Biological Sciences Admissions Committee
2015-present	Medical Scientist Training Program Candidate Interviewer
2016-2018	Committee Member, Faculty Search Committee Committee (FSC2)
2016-2018	Committee Member, Scientific Advisory Board, Microscopy and Image Analysis Core
2017-2025	Voting Member, UMMS Laboratory Safety Executive Committee
2019-2025	Chair, UMMS Laboratory Safety Executive Committee
2017-2018	Committee Member, Endowment for Basic Sciences Chair Information Technology Working Group
2023-present	Associate Director, Program in Biomedical Sciences (PIBS)

DEPARTMENTAL

2007-2008	Graduate student representative, Pharmacological Sciences
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	Training Program committee
2015	ASPET and Charles Ross Summer Undergraduate Fellowship Program Admission Committee
2015	Reviewer, Strategic Translational Research Awards, University of Michigan Comprehensive Depression Center
2015	Oral presentation judge, Annual Pharmacology Research Colloquium
2015	Poster judge, Cellular and Molecular Biology Fall Symposium
2015-2020	Co-chair of Graduate Recruiting for Department of Pharmacology through Program in Biomedical Sciences
2015-2018	Committee Member, Department of Pharmacology Education Leadership Committee
2015-2018	Committee Member, Department of Pharmacology Departmental Advisory Committee
2016-2018	Committee Member, Neuroscience Program Preliminary Examination Committee
2017-2019	Poster Judge, Pharmacological Sciences Training Program Annual Symposium
2018-2019	Oral Presentation Judge, Pharmacological Sciences Training Program Annual Symposium
2021-2023	Neuroscience Graduate Program Diversity, Equity, and Inclusion Education Task Force Faculty Facilitator
2022-2023	Co-chair of Graduate Recruiting for Department of Pharmacology through Program in Biomedical Sciences
2015-2018	Committee Member, Department of Pharmacology Departmental Advisory Committee
2023-present	Committee Member, Department of Pharmacology Graduate Program Committee

LEADERSHIP AND SKILL DEVELOPMENT

11/04/2015	Graduate Admissions for Excellence and Diversity – Rackham Graduate School, University of Michigan
11/10/2015	Writing Research Grant Proposals in the New Era of Competition – Faculty Development, University of Michigan
01/22/2016	Distress Signals: Supporting Students Facing Mental Health Challenges – ADVANCE Program, University of Michigan
02/19/2016	Mentoring Workshop for New Faculty – ADVANCE Program, University of Michigan
04/19/2016	Managing Time across Multiple Universes – ADVANCE Program, University of Michigan
10/10/2016	Communicating Science to Non-Scientists – Faculty Development, University of Michigan
10/10/2016	Making the Most of Your Presentation – Faculty Development, University of Michigan
10/20/2016	Essential Skills for Leadership – Faculty Development, University of Michigan

11/18/2016	Teaching Skills: Disrespect and Disruption in the Classroom - Strategies for Prevention and Response – ADVANCE program, University of Michigan
03/24/2017	Developing the Educator's Portfolio – Faculty Development, University of Michigan
11/09/2017	Communicating the Value of Your Research to a Broad Audience – Faculty Development, University of Michigan
03/15/2018	Optimizing the Philanthropic Opportunity at Michigan Medicine – Michigan Medicine Office of Development
11/02/2018	Research Impact for Early Career Investigators – Faculty Development, University of Michigan
11/13/2018	Moving the Needle: Promoting Culture Change to Prevent Sexual Harassment – CRLT and college of LSA, University of Michigan
04/03/2019	Moving the Needle: Enacting your Personal Responsibility – CRLT and college of LSA, University of Michigan
09/2021-11/2021	Culturally Aware Mentoring Workshop – National Research Mentoring Network and Diversity Program Consortium
09/27/2021	Shoulda, Woulda, Coulda: Moving Beyond Failure and Actively Cultivating a More Equitable Academy – CRLT and college of LSA, University of Michigan
10/25/2021	Graduate Admissions for Excellence and Diversity, Rackham Graduate School

SEMINARS AND EXTRAMURAL INVITED PRESENTATIONS

EXTRAMURAL INVITED SEMINARS

10/09/2014	Scaling up through teamwork: Ankyrin-G microdomains control large-scale cellular patterning through opposing endocytosis. University of Michigan, Ann Arbor, MI. Invited by Dr. Lori Isom.
12/02/2015	Giant ankyrin-G and the organization of critical neuronal domains: Link to neuropsychiatric disease? Ruprecht-Karls-Universität Heidelberg (Heidelberg University), Heidelberg, Baden-Württemberg, Germany. Invited by Drs. Maren Engelhardt and Christian Shultz.
09/24/2016	Standing PAT: palmitoylacyltransferases, ankyrin-G, and the control of membrane protein localization. Imperial College London, London, UK. Invited by Dr. Tony Magee.
10/11/2017	Understanding the effects of a bipolar disorder-associated <i>ANK3</i> variant on cortical circuitry. Michigan State University, East Lansing, MI. Invited by Dr. Adam Lauver.
02/27/2018	A Rare Variant in <i>ANK3</i> from a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. Shriner's Hospital Pediatric Center, Philadelphia, PA. Invited by Dr. Gareth Thomas.

- 02/04/2019 Understanding synaptic dysfunction in an ankyrin-G loss-of-function model: implications for bipolar disorder. University of Texas Health-San Antonio, San Antonio, TX. Invited by Dr. Manzoor Bhat.
- 03/20/2019 Understanding synaptic dysfunction in an ankyrin-G loss-of-function model: implications for bipolar disorder. University of Florida, Gainesville, FL. Invited by Drs. Erica Levitt and Jeffrey Martens.
- 09/12/2019 Understanding synaptic dysfunction in an ankyrin-G loss-of-function model: implications for bipolar disorder. University of California – San Francisco. Invited by Dr. Kevin Bender.
- 01/20/2020 Lithium reverses inhibitory signaling deficits in a mouse with bipolar disorder-associated *Ank3* variant. Hope College, Holland, MI. Invited by Dr. Leah Chase.
- 03/06/2020 Lithium reverses inhibitory signaling deficits in a mouse with bipolar disorder-associated *Ank3* variant. University of British Columbia, Vancouver, Canada. Invited by Dr. Shernaz Bamji.
- 01/11/2022 Molecular convergence in autism: ankyrin-B controls Nav1.2 subcellular localization and neuronal function. EpiCenter seminar series. University of California-Irvine. Invited by Dr. Robert Hunt. *Virtual due to COVID-19
- 01/19/2022 Molecular convergence in autism: ankyrin-B controls Nav1.2 subcellular localization and neuronal function. University of Guelph, Guelph, Ontario, Canada. Invited by Dr. Shaun Sanders. *Virtual due to COVID-19
- 09/19/2022 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. Northwestern University Feinberg School of Medicine, Chicago, IL. Invited by Dr. Al George.
- 10/03/2022 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. University of Colorado Anschutz Medical Campus, Denver, CO. Invited by Dr. Kate Smith.
- 10/13/2022 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. Central Michigan University, Mount Pleasant, MI. Invited by Dr. Shasta Sabo.
- 03/13/2023 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. University of Utah. Invited by Dr. Karen Wilcox.
- 05/31/2024 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. University of Iowa. Invited by Drs. Chris Ahern and Aislynn Williams.

- 01/13/2025 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. University of South Carolina. Invited by Dr. Dan Foster.
- 01/14/2025 Molecular convergence of two high-risk autism genes in the control of dendritic excitability. Carolina Autism and Neurodevelopment (CAN) Research Center. Invited by Dr. Caitlin Hudac.

UPCOMING INVITED SEMINARS

INVITED PRESENTATIONS AT INTERNATIONAL/NATIONAL MEETINGS

- 03/05/2012 Role of alternative splicing in ankyrin-G function at the axon initial segment. Invited Presentation at the 43rd Annual American Society for Neurochemistry Meeting, Baltimore, MD. Invited by Dr. Matthew Rasband.
- 12/19/2012 Micropatterning of Plasma Membranes of Differentiated Vertebrate Cells. Invited Presentation at the American Society for Cell Biology Annual Meeting, San Francisco, CA.
- 07/22/2015 Dynamic spectrin/ankyrin-G microdomains promote lateral membrane assembly by opposing endocytosis. Invited Presentation at the Protein Lipidation FASEB Summer Research Conference, Saxton's River, VT. Invited by Dr. Michael Shipston.
- 02/02/2016 Giant ankyrin-G and GABAergic synapses: Implications for neuropsychiatric disease. 2016 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Anil Malhotra.
- 09/21/2016 Ankyrin-G, zDDH5, and zDDHC8 and the Control of Plasma Membrane Dynamics. British Biochemical Society Meeting "Protein S-palmitoylation: from mechanism to application". Oxford, UK. Invited by Drs. Will Fuller and Piers Hemsley.
- 02/14/2017 Understanding the role of *ANK3* in cortical synaptic connectivity. 2017 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Anil Malhotra.
- 12/04/2017 A Rare Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. 2017 Annual American College of Neuropsychopharmacology Meeting, Palm Springs, CA.

- 02/14/2018 Translating a genetic association to cellular mechanisms: a loss-of-function *ANK3* variant from a family with bipolar disorder causes impaired forebrain circuitry. 2018 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Stephan Sanders.
- 09/10/2018 Control of ankyrin family subcellular localization by zDHHC palmitoylation. Acylation of intracellular and secreted proteins: mechanisms and functional outcomes meeting. Brighton, UK. Invited by Dr. Will Fuller.
- 09/15/2018 Therapeutic modulation of *ANK3*-dependent GABAergic circuitry. One Mind Music Festival, Napa Valley, CA.
- 02/11/2019 Understanding effects of therapeutics on forebrain GABAergic signaling. 2019 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Stephan Sanders.
- 07/11/2019 Defining mechanisms of synaptic dysfunction in an *Ank3* loss-of-function model: does acylation play a role? FASEB Protein Lipidation Conference: Enzymology, Signaling and Therapeutics, Olean, NY. Invited by Dr. Mark DiStefano.
- 08/08/2019 Defining mechanisms of synaptic dysfunction in an *Ank3* loss-of-function model: does acylation play a role?. 2019 International Society for Neurochemistry (ISN) and the American Society for Neurochemistry (ASN) meeting. Montreal, Quebec. Invited by Dr. Shernaz Bamji.
- 09/15/2021 Ankyrin-B is lipid-modified by S-palmitoylation to promote dendritic membrane scaffolding of voltage-gated sodium channel Nav1.2 in neurons. 2021 Lipidation in cell biology and disease meeting. UK. Invited by Drs. Jennifer Greaves and Dale Martin. *Virtual due to COVID-19
- 06/10/2021 Life beyond the AIS: ankyrin-dependent scaffolding of Nav1.2 in neocortical dendrites. Dutch Neuroscience Annual Meeting, Netherlands. Invited by Dr. Amélie Fréal. Keynote speaker.
- 10/05/2021 To the axon and beyond: Understanding regulation of Nav1.2 localization. EMBO Workshop Axons 2021: Structure and function. Tuscany Il Ciocco, Italy. Invited by Dr. Maren Engelhardt. *Virtual due to COVID-19
- 08/04/2022 Palmitoylation-dependent regulation of ankyrin-B controls dendritic excitability. 2022 FASEB Protein Lipidation Conference: Enzymology, Signaling and Therapeutics, Saxtons River, VT. Invited by Dr. James Hougland.
- 04/11/2023 Life beyond the AIS: ankyrin-dependent scaffolding of Nav1.2 in

neocortical dendrites. Emerging Concepts of the Neuronal Cytoskeleton International Meeting. Santa Cruz, Chile. Invited by Dr. Christophe Leterrier. *Postponed due to COVID-19

10/26/2023 Life beyond the AIS: ankyrin-dependent scaffolding of Nav1.2 in neocortical dendrites. Axons in the Desert, Ben-Gurion University & Kibbutz Ein Gedi, Israel. Invited by Dr. Ilya Fleidervish. *Canceled because of Israel-Hamas Conflict

06/06/2024 Convergence of Nav1.2 and ankyrin-B in the control of dendritic excitability. 2024 Gateway Ion Channel Symposium. Grand Rapids, MI. Invited by Dr. Juan Du.

INTRAMURAL INVITED SEMINARS

10/27/2015 Ankyrin and spectrin: critical players in the formation of polarized epithelia. University of Michigan, Ann Arbor, MI. Nephrology Basic Science Seminar. Invited by Dr. Ben Margolis.

11/9/2015 *ANK3* and neuropsychiatric disease. University of Michigan, Ann Arbor, MI. Neuroscience Graduate Program Seminar. Invited by Dr. Ed Stuenkel.

2/23/17 Understanding the role of *ANK3* in cortical synaptic connectivity. University of Michigan, Ann Arbor, MI. Hearing Balance and Chemical Senses Program Seminar Series. Invited by Drs. Gabriel Corfas and Susan Shore.

3/28/2018 Translating a genetic association to cellular mechanisms: a loss-of-function *ANK3* variant from a family with bipolar disorder causes impaired forebrain circuitry. Grand Rounds. University of Michigan Department of Psychiatry. Invited by Dr. Stephan Taylor.

BIBLIOGRAPHY

(Co-First Author *; Co-Last author #)

PEER-REVIEWED PUBLICATIONS

1. Li XC, Karadsheh MS, **Jenkins PM**, and Stitzel JA. Genetic correlation between the free-choice oral consumption of nicotine and alcohol in C57BL/6JxC3H/HeJ F2 intercross mice. *Behav Brain Res*. 2005 Feb 10;157(1):79-90.
2. **Jenkins PM**, Hurd TW, Zhang L, McEwen DP, Brown RL, Margolis B, Verhey KJ, and Martens JR. Ciliary targeting of olfactory CNG channels requires the CNGB1b subunit and the kinesin-2 motor protein, KIF17. *Curr Biol*. 2006 Jun 20;16(12):1211-6.
3. Li XC, Karadsheh MS, **Jenkins PM**, Brooks JC, Drapeau JA, Shah MS, Lautner MA, and Stitzel JA. Chromosomal loci that influence oral nicotine consumption in

- C57BL/6J x C3H/HeJ F2 intercross mice. *Genes Brain Behav.* 2007 Jul; 6(5):401-10.
4. Mexal S, **Jenkins PM**, Lautner MA, Iacob E, Crouch EL, Stitzel JA. Alpha7 nicotinic receptor gene promoter polymorphisms in inbred mice affect expression in a cell type-specific fashion. *J Biol Chem.* 2007 May 4;282(18):13220-7.
 5. McEwen DP, Koenekoop RK, Khanna H, **Jenkins PM**, Lopez I, Swaroop A, Martens JR. Hypomorphic CEP290/NPHP6 mutations result in anosmia caused by the selective loss of G proteins in cilia of olfactory sensory neurons. *Proc Natl Acad Sci U S A.* 2007 Oct 2;104(40):15917-22. PMCID: PMC2000398.
 6. McEwen DP, Li Q, Jackson S, **Jenkins PM**, Martens JR. Caveolin regulates kv1.5 trafficking to cholesterol-rich membrane microdomains. *Mol Pharmacol.* 2008 Mar;73(3):678-85. Epub 2007 Nov 28.
 7. McEwen DP, Jenkins PM, Martens JR. Olfactory cilia: our direct neuronal connection to the external world. *Curr Top Dev Biol.* 2008;85:333-70.
 8. Yi L, **Jenkins PM**, Leichert LI, Jakob U, Martens JR, Ragsdale SW. The heme regulatory motifs in heme oxygenase-2 form a thiol/disulfide redox switch that responds to the cellular redox state. *J Biol Chem* 284(31):20556-61, 2009. Epub 2009 May 27. PMCID: PMC2742820.
 9. **Jenkins PM**, McEwen DP, Martens JR. Olfactory cilia: linking sensory cilia function and human disease. Review in *Chem Senses.* 2009 Jun;34(5):451-64. PMCID: PMC2682445.
 10. Levitt ES, Clark MJ, **Jenkins PM**, Martens JR, Traynor JR. Differential effect of membrane cholesterol removal on mu and delta opioid receptors: A parallel comparison of acute and chronic signaling to adenylyl cyclase. *J Biol Chem.* 2009 Aug 14;284(33):22108-22. PMCID: PMC2755935.
 11. **Jenkins PM**, Zhang L, Thomas G, Martens JR. PACS-1 mediates phosphorylation-dependent ciliary trafficking of the CNG channel in olfactory sensory neurons. *J Neurosci.* 2009 Aug 26;29(34):10541-51. PMCID: PMC2749268.
 12. Dishinger JF, Kee HL, **Jenkins PM**, Fan S, Hurd TW, Hammond JW, Truong YN, Margolis B, Martens JR, Verhey KJ. Ciliary entry of the kinesin-2 motor KIF17 is regulated by importin-beta2 and RanGTP. *Nat Cell Biol.* 2010 Jul;12(7):703-10. PMCID: PMC2896429.
 13. Hurd TW, **Jenkins P**, Liu CJ, Pennington J, Gattone VH 2nd, Khanna H, Martens JR, Swaroop A, Margolis B. The Retinitis Pigmentosa Protein RP2 Regulates Cilia Trafficking Of Polycystin 2. *Hum Mol Genet.* 2010 Nov 15;19(22):4330-44. PMCID: PMC2957320.

14. Kaplan OI, Molla-Herman A, Cevik S, Ghossoub R, Kida K, Kimura Y, **Jenkins P**, Martens JR, Setou M, Benmerah A, Blacque OE. AP-1 adaptor aids cilium formation and functions with RAB-8 in *C. elegans* ciliary membrane transport. *J Cell Sci.* 2010 Nov 15;123(Pt 22):3966-77. PMCID: PMC2972276.
15. **Jenkins PM**, Zhang L, Anantharam A, Arendt KL, Carruthers CJL, Kerppola TK, Iñiguez-Lluhí JA, Holz RW, Sutton MA, Martens JR. Subunit-dependent axonal trafficking of distinct alpha tetrameric potassium channel complexes. *J Neurosci.* 2011 Sep 14;31(37):13224-35. PMCID: PMC3415696.
16. Ragsdale SW, Yi L, Bender G, Gupta N, Kung Y, Yan L, Stich TA, Doukov T, Leichert L, **Jenkins PM**, Bianchetti CM, George SJ, Cramer SP, Britt RD, Jakob U, Martens JR, Phillips GN Jr, Drennan CL. Redox, haem and CO in enzymatic catalysis and regulation. Review in *Biochem Soc Trans.* 2012 Jun 1;40(3):501-7. PMCID: PMC3553215.
17. He M, **Jenkins P**, Bennett V. Cysteine 70 of ankyrin-G is S-palmitoylated and is required for function of ankyrin-G in membrane domain assembly. *J Biol Chem.* 2012 Dec 21;287(52):43995-4005. PMCID: PMC3527982.
18. McIntyre JC, Davis EE, Joiner A, Williams CL, Tsai IC, **Jenkins PM**, McEwen DP, Zhang L, Escobado J, Thomas S, Szymanska K, Johnson CA, Beales PL, Green ED, Mullikin JC, Program NC, Sabo A, Muzny DM, Gibbs RA, Attié-Bitach T, Yoder BK, Reed RR, Katsanis N, Martens JR. Gene therapy rescues cilia defects and restores olfactory function in a mammalian ciliopathy model. *Nat Med.* 2012 Sep;18(9):1423-8. PMCID: PMC3645984.
19. **Jenkins PM**, Vasavda C, Hostettler J, Davis JQ, Abdi K, Bennett V. E-cadherin polarity is determined by a multi-function motif mediating lateral membrane retention through ankyrin-G and apical-lateral transcytosis through clathrin. *J Biol Chem.* 2013 May 17;288(20):14018-31. PMCID: PMC3656260.
20. Williams CL, McIntyre JC, Norris SR, **Jenkins PM**, Zhang L, Pei Q, Verhey KJ, Martens JR. Direct evidence for BBSome-associated IFT reveals unique transport properties of native mammalian cilia. *Nat Comm.* 2014 Dec 15;5:5813. PMCID: PMC4284812.
21. **Jenkins PM**, Kim N, Jones SL, Tseng WC, Svitkina T, Yin H, Bennett V. Giant ankyrin-G: a critical innovation in vertebrate evolution of fast and integrated neuronal signaling. *Proc Natl Acad Sci U S A.* 2015 Jan 27;112(4):957-64. PMCID: PMC4313853.
22. Tseng WC, **Jenkins PM**, Tanaka M, Mooney R, Bennett V. Giant ankyrin-G stabilizes somatodendritic GABAergic synapses through opposing endocytosis of GABA_A receptors. *Proc Natl Acad Sci U S A.* 2015 Jan 27;112(4):1214-9. PMCID:

PMC4313813.

23. **Jenkins PM***, He M*, Bennett V. Dynamic spectrin/ankyrin-G microdomains promote lateral membrane assembly by opposing endocytosis. *Sci Adv.* 2015 Sep 11;1(8):e1500301. PMCID: PMC4624203.
24. Cadwell CM, **Jenkins PM**, Bennett V, Kowalczyk AP. Ankyrin-G inhibits endocytosis of cadherin dimers. *J Biol Chem.* 2016 Jan 8;291(2):691-704. PMCID: PMC4705390.
25. Nelson AD and **Jenkins PM**. The Splice Is Right: *ANK3* and the Control of Cortical Circuits. Invited Commentary in *Biol Psychiatry.* 2016 Aug 15;80(4):263-265. PMCID: PMC5103303.
26. Nelson AD and **Jenkins PM**. Axonal membranes and their domains: assembly and function of the axon initial segment and node of Ranvier. Review in *Front. Cell. Neurosci.* 2017 May 9;11:136. PMCID: PMC5422562.
27. Tom CT, Crelin JE, Motiwala HF, Stone MB, Davda D, Walker W, Kuo YH, Hernandez JL, Labby KJ, Gomez-Rodrigues L, **Jenkins PM**, Veatch S, Martin BR. Chemoselective ratiometric imaging of protein S-sulfenylation. *Chem Commun (Camb).* 2017 June 29;53(53): 7385-7388. PMCID: PMC5765544.
28. Rao TC, Schmidtke MW, Dahl PJ, **Jenkins PM**, Chapman ER, Giovannucci DR, Anantharam A. Synaptotagmin isoforms confer distinct activation kinetics and dynamics to chromaffin cell granules. *J Gen Physiol.* 2017 Aug 7;149(8):763-780. PMCID: PMC5560776.
29. Zhu S, Corder ZA, Xiong J, Chiu CT, Artola A, Zuo Y, Nelson AD, Kim TY, Zaika N, Woolums BM, Hess EJ, Wang X, Chuang DM, Pletnikov MM, **Jenkins PM**, Tamashiro KL, Ross CA. Genetic disruption of ankyrin-G in adult mouse forebrain causes cortical synapse alteration and behavior reminiscent of bipolar disorder. *Proc Natl Acad Sci U S A.* 2017 Sep 26;114(39):10479-10484. PMCID: PMC5625892.
30. Wang Y, Ji T, Nelson AD, Glanoskwa K, Murphy GG, **Jenkins PM**, Parent JM. Critical roles of α II spectrin in brain development and epileptic encephalopathy. *J Clin Inv.* 2018 Feb 1;128(2):760-773. PMCID: PMC5785268.
31. Nelson AD, Caballero-Florán RN, Rodríguez Díaz JC, Li J, Chen K, Walder KK, Bennett V, Lopez-Santiago LF, McInnis MG, Isom LL, Wang C, Zhang M, Jones KS, **Jenkins PM**. Ankyrin-G regulates forebrain connectivity and network synchronization via interaction with GABARAP. *Mol Psychiatry.* 2020 Nov;25(11):2800-2817. PMCID: PMC6542726.
32. Philippe JM and **Jenkins PM**. Spatial organization of palmitoyl acyl transferases

- governs substrate localization and function. Review in *Mol Membr Biol*. 2019 Dec;35(1):60-75. PMCID: PMC7031816.
33. Bendahmane M, Kreutzberger AJ, Chapman-Morales A, Philippe JM, Schenk N, Zhang S, Kiessling V, Tamm L, Giovannucci DR, **Jenkins PM**, Anantharam A. Synaptotagmin-7 endows a population of chromaffin cell vesicles with enhanced calcium sensing and delayed content release properties. *J Neurochem*. 2020 Sep;154(6):598-617. PMCID: PMC7426247.
 34. Essandoh K, Philippe JM, **Jenkins PM**, and Brody MJ. Palmitoylation: A Fatty Regulator of Myocardial Electrophysiology. Review in *Front Physiol*. 2020 Feb 19;11:108. PMCID: PMC7042378.
 35. Bouza AA, Philippe JM, Edokobi N, Pinsky AM, Offord J, Calhoun JD, Lopez-Floran M, Lopez-Santiago LF, **Jenkins PM**, and Isom LL. Voltage-gated sodium channel $\beta 1$ subunits are post-translationally modified by tyrosine phosphorylation, S-palmitoylation, and regulated intramembrane proteolysis. *J Bio Chem* 2020 Jul 24;295(30):10380-10393. PMCID: PMC7383382.
 36. Caballero-Florán RN, Bendahmane M, Gupta JP, Chen X, Wu X, Morales A, Anantharam A#, **Jenkins PM**#. Synaptotagmin-7 facilitates acetylcholine release in splanchnic nerve-chromaffin cell synapses during nerve activity. *Neurosci Lett*. 2023 Mar 13;800:137129. PMCID: PMC10145958.
 37. Gupta JP and **Jenkins PM**. Ankyrin-B is lipid-modified by S-palmitoylation to promote dendritic membrane scaffolding of voltage-gated sodium channel Nav1.2 in neurons. *Front in Physiol*. 2023 March 30;14:959660. PMCID: PMC10098127.
 38. Liu H*, Caballero-Florán RN*, Yang T, Hull JM, Pan G, Li R, Veling MW, Isom LL, Kwan KY, Huang ZJ, Fuerst PG, **Jenkins PM**#, and Ye B#. Dscam gene triplication causes neocortical overinhibition in Down syndrome. *PLOS Biol*. 2023 Apr;21(4):e3002078. PMCID: PMC10118173
 39. Best MN, Lim Y, Ferenc NN, Kim N, Min L, Wang DB, Sharifi K, Wasserman AE, McTavish SA, Siller KH, Jones MK, **Jenkins PM**, Mandell JW, Bloom GS. Extracellular Tau Oligomers Damage the Axon Initial Segment. *J Alzheimers Dis*. 2023;93(4):1425-1441. PMCID: PMC10357156.
 40. Rodríguez Díaz JC, **Jenkins PM**, Pritchett DL, Jones KS. A Novel Approach to Study Coherence of Gamma Band Oscillations in *Ex Vivo* Brain Slices. *eNeuro* 2-23; Jun 20;ENEURO.0167-23.2023. PMCID: PMC10368148.
 41. Yocum AK, Anderau S, Bertram H, Burgess HJ, Cochran AL, Deldin PJ, Evans SJ, Han P, **Jenkins PM**, Kaur R, Langenecker SA, Marshall DF, Mower Provost E, Sue O'Shea K, Ryan KA, Sperry SH, Smith SN, Tso IF, Versha KM, Wright BM, Zöllner S, McInnis MG. Cohort Profile Update: The Heinz C. Prechter

- Longitudinal Study of Bipolar Disorder. *Int J Epidemiol*. 2023 Aug 4;. doi: 10.1093/ije/dyad109. PMID: PMC10749747.
42. Inhibitory synaptic transmission is impaired in the Kölliker-Fuse of male, but not female, Rett Syndrome Mice. Whitaker-Fornek JR, **Jenkins PM**, Levitt ES. *J Neurophysiol*. 2023 Dec 1;130(6):1578-1587. doi: 10.1152/jn.00327.2023. PubMed Central PMID: PMC11068392.
 43. Nelson AD, Catalfio AM, Gupta JP, Min L, Caballero-Florán RN, Dean KP, Elvira CC, Derderian KD, Kyoung H, Sahagun A, Sanders SJ, Bender KJ[#], **Jenkins PM[#]**. Physical and functional convergence of the autism risk genes *Scn2a* and *Ank2* in neocortical pyramidal cell dendrites. *Neuron*. 2024 Apr 3;112(7):1133-1149.e6. doi: 10.1016/j.neuron.2024.01.003. PMID: PMC11097922.
 44. **Jenkins PM**, Bender KJ. Axon initial segment structure and function in health and disease. Review in *Physiol Rev*. 2025 Apr 1;105(2):765-801. doi: 10.1152/physrev.00030.2024. PMID: 39480263.
 45. Thome C, Janssen JM, Karabulut S, Acuna C, D'Este E, Soyka SJ, Baum K, Bock M, Lehmann N, Roos J, Stevens NA, Hasegawa M, Ganea DA, Benoit CM, Gründemann J, Min LY, Bird KM, Schultz C, Bennett V, **Jenkins PM[#]**, Engelhardt M[#]. Live imaging of excitable axonal microdomains in ankyrin-G-GFP mice. *Elife*. 2025 Feb 3;12:RP87078. doi: 10.7554/eLife.87078. PMID: PMC11790247.
 46. Bird KM and **Jenkins PM**. Regulation of neuronal ankyrin localization and function by post-translational modifications. Review in *Biochem Soc Trans* (2025) 53 (02): 497–507. doi: 10.1042/BST20253016.

WORK IN PROGRESS

1. Caballero-Florán RN, Nelson AD, and **Jenkins PM**. Lithium therapy restores neuronal excitability by increasing GABAergic transmission in the *Ank3* p.W1989R mouse model. bioRxiv 2023.10.26.564203; doi: 10.1101/2023.10.26.564203. In preparation.
2. Tamura S, Nelson AD, Spratt P, Hamada E, Zhou X, Kyoung H, Li Z, Arnould C, Barskyi V, Krupkin B, Young K, Zhao J, Holden S, Sahagun A, Keeshen C, Lu C, Ben-Shalom R, Taloma S, Schamiloglu S, Li Y, Min L, **Jenkins PM**, Pan J, Paz J, Sanders SJ, Matharu N, Ahituv N, Bender KJ. CRISPR activation therapeutics for ASD-associated SCN2A haploinsufficiency. In revision at *Nature*.
3. Elvira CC and **Jenkins PM**. Cytoskeletal scaffolding of Navs and Kvs in Neocortical Pyramidal Neurons: Implications for Neuronal Signaling and Plasticity. Review in revision at *Curr Opin Cell Biol*.

ABSTRACTS

1. **Jenkins PM**, Hurd TW, Zhang L, McEwen DP, Brown RL, Margolis B, Verhey

- KJ, Martens JR. Ciliary targeting of olfactory CNG channels requires the CNGB1b subunit and the kinesin motor protein, KIF17. *26th Annual Association for Chemoreception Sciences Meeting*. April 2006, Sarasota, FL.
2. **Jenkins PM** and Martens JR. Role of PACS-1 in Ciliary Localization of Olfactory Cyclic Nucleotide-Gated Channel. *15th International Symposium on Olfaction and Taste*. July 2008, San Francisco, CA.
 3. **Jenkins PM**, Zhang L, Thomas G, Martens JR. PACS-1 Mediates Phosphorylation-Dependent Ciliary Trafficking of the CNG Channel in Olfactory Sensory Neurons. *Experimental Biology Annual Meeting*. April 2009, New Orleans, LA.
 4. **Jenkins PM**, Zhang L, Thomas G, Martens JR. PACS-1 Mediates Phosphorylation-Dependent Ciliary Trafficking of the CNG Channel in Olfactory Sensory Neurons. *Society for Neuroscience Annual Meeting*. October 2009, Chicago, IL.
 5. **Jenkins PM**, Nilsson KR, Vasavda C, Davis JQ, Bennett V. Ankyrin-G Mediates a Conserved yet Versatile Pathway for Assembly of Specialized Membrane Domains in Epithelial Cells and Neurons. *American Society for Cell Biology Annual Meeting*. December 2011, Denver, CO.
 6. **Jenkins PM**, Tseng W, Bennett V. Role of Alternative Splicing in Ankyrin-G Function at the Axon Initial Segment. *American Society for Neurochemistry Annual Meeting*. March 2012, Baltimore, MD.
 7. **Jenkins PM**, Nilsson KR, Vasavda C, Davis JQ, Abdi K, Bennett V. Micropatterning of Plasma Membranes of Differentiated Vertebrate Cells. *American Society for Cell Biology Annual Meeting*. December 2012, San Francisco, CA.
 8. **Jenkins PM**, Walder KK, Tseng WC, Bennett V. A Vertebrate- and Neural-Specific Giant Exon of 480 kDa Ankyrin-G is Required for Assembly of the Axon Initial Segment in vitro and in vivo. *American Society for Cell Biology Annual Meeting*. December 2013, New Orleans, LA.
 9. **Jenkins PM**, He M, Bennett V. Ankyrin-G and β 2 Spectrin Control MDCK Cell Lateral Membrane Height by Opposing Clathrin-Mediated Endocytosis. *American Society for Cell Biology Annual Meeting*. December 2013, New Orleans, LA.
 10. Tseng W, **Jenkins PM**, Walder KK, Bennett V. Somato-dendritic axon initial segment outposts dependent on 480 kDa ankyrin-G organize GABAergic synapses in hippocampal neurons. *American Society for Cell Biology Annual Meeting*. December 2013, New Orleans, LA.

11. **Jenkins PM**, He M, Tseng WC, Bennett V. Scaling Up Through Teamwork: Ankyrin-G Microdomains Control Large-Scale Cellular Patterning Through Opposing Endocytosis. *American Society for Cell Biology Annual Meeting*. December 2014, Philadelphia, PA.
12. Nelson AD, Walder KK, Bennett V, **Jenkins PM**. Understanding the role of giant ankyrin-G in GABAergic synaptogenesis. *27th Annual Albert J. Silverman Research Conference*. April 2016, Ann Arbor, MI.
13. Nelson AD, Walder KK, Bennett V, **Jenkins PM**. Understanding the role of giant ankyrin-G in GABAergic synaptogenesis. *2016 Michigan Chapter Society for Neuroscience Meeting*. May 2016, East Lansing, MI.
14. Nelson AD, Walder KK, Bennett V, **Jenkins PM**. Understanding the role of giant ankyrin-G in GABAergic synaptogenesis. *43rd Annual Pharmacology Research Colloquium*. June 2016, Ann Arbor, MI.
15. Nelson AD, Walder KK, Bennett V, **Jenkins PM**. Giant ankyrin-G interaction with GABARAP is critical for the formation of GABAergic synapses in mouse somatosensory cortex. *2016 Annual Society for Neuroscience Meeting*. November 2016, San Diego, CA.
16. Nelson AD, Caballero-Florán RN, **Jenkins PM**. A Rare Variant Identified within the Giant Exon of *ANK3* in a Patient with Bipolar Disorder Leads to Altered GABAergic Inhibitory Circuits. *2017 Michigan Chapter Society for Neuroscience Meeting*. May 2017, Ann Arbor, MI.
17. Nelson AD, Caballero-Florán RN, **Jenkins PM**. A Rare Variant Identified within the Giant Exon of *ANK3* in a Patient with Bipolar Disorder Leads to Altered GABAergic Inhibitory Circuits. *27th Annual Albert J. Silverman Research Conference*. June 2017, Ann Arbor, MI. Best Graduate Student Poster.
18. Nelson AD, Caballero-Florán RN, **Jenkins PM**. A Rare Variant Identified within the Giant Exon of *ANK3* in a Patient with Bipolar Disorder Leads to Altered GABAergic Inhibitory Circuits. *44th Annual Pharmacology Research Colloquium*. June 2017, Detroit, MI. Best Graduate Student Poster.
19. Nelson AD, Caballero-Florán RN, Wang C, Bennett V, McInnis MG, **Jenkins PM**. A Rare Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. *2017 Annual Society for Neuroscience Meeting*. November 2017, Washington, D.C.
20. Nelson AD, Caballero-Florán RN, Wang C, Bennett V, McInnis MG, **Jenkins PM**. A Rare Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. *2017 Annual American College of Neuropsychopharmacology Meeting*. December 2017, Palm Springs, CA.

21. Nelson AD, Caballero-Florán RN, Rodríguez Díaz JC, Li J, Chen K, Bennett V, McInnis MG, Isom LL, Wang C, Jones KS, **Jenkins PM**. A Loss-of-Function Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. *38th Annual Pharmacological Sciences and Bio-Related Chemistry Symposium*. March 2018, Ann Arbor, MI.
22. Philippe JM, Gologorski, M, Martin B, **Jenkins PM**. The Role of Ankyrin-G S-Palmitoylation in Neuronal Cell Function. *38th Annual Pharmacological Sciences and Bio-Related Chemistry Symposium*. March 2018, Ann Arbor, MI.
23. Arora S, Nelson AD, **Jenkins PM**. The Mechanisms of GABAergic Synapse Loss in Neurons Lacking Functional Ankyrin-G. *University of Michigan Neuroscience & Biological Sciences Undergraduate Poster Session*. April 2018, Ann Arbor, MI.
24. Gologorsky M, Philippe J, **Jenkins PM**. Understanding the Equilibrium of Ankyrin-G Palmitoylation. *University of Michigan Neuroscience & Biological Sciences Undergraduate Poster Session*. April 2018, Ann Arbor, MI.
25. Caballero-Florán RN, Nelson AD, Philippe JM, **Jenkins PM**. Lithium partially restores presynaptic GABAergic signaling deficits in the *Ank3* W1989R mouse model. *2018 Michigan Chapter Society for Neuroscience Meeting*. May 2018, Detroit, MI.
26. Nelson AD, Caballero-Florán RN, Rodríguez Díaz JC, Li J, Chen K, Bennett V, McInnis MG, Isom LL, Wang C, Jones KS, **Jenkins PM**. A Loss-of-Function Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. *2018 Michigan Chapter Society for Neuroscience Meeting*. May 2018, Wayne State University, Detroit MI. Best Graduate Student Poster.
27. Caballero-Florán RN, Nelson AD, Philippe JM, **Jenkins PM**. Lithium partially restores presynaptic GABAergic signaling deficits in the *Ank3* W1989R mouse model. *29th Annual Albert J. Silverman Research Conference*. May 2018, Ann Arbor, MI.
28. Nelson AD, Caballero-Florán RN, Rodríguez Díaz JC, Li J, Chen K, Bennett V, McInnis MG, Isom LL, Wang C, Jones KS, **Jenkins PM**. A Loss-of-Function Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. *29th Annual Albert J. Silverman Research Conference*. May 2018, Ann Arbor, MI.
29. Philippe JM, Gologorski, M, Martin B, **Jenkins PM**. The Role of Ankyrin-G S-Palmitoylation in Neuronal Cell Function. *29th Annual Albert J. Silverman Research Conference*. May 2018, Ann Arbor, MI.
30. Caballero-Florán RN, Nelson AD, Philippe JM, **Jenkins PM**. Lithium partially

- restores presynaptic GABAergic signaling deficits in the *Ank3* W1989R mouse model. *45th Annual Pharmacology Research Colloquium*. June 2018, East Lansing, MI.
31. Nelson AD, Caballero-Florán RN, Rodríguez Díaz JC, Li J, Chen K, Bennett V, McInnis MG, Isom LL, Wang C, Jones KS, **Jenkins PM**. A Loss-of-Function Variant in *ANK3* in a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. *45th Annual Pharmacology Research Colloquium*. June 2018, East Lansing, MI.
 32. O'Donnell MP, Ignatoski KM, Jutkiewicz EM, **Jenkins PM**. The Role of Ankyrin-G in Diseases of the Epithelial Origin. *2018 45th Annual Pharmacology Colloquium*. May 2018, East Lansing, MI.
 33. Philippe JM, Gologorski, M, Martin B, **Jenkins PM**. The Role of Ankyrin-G S-Palmitoylation in Neuronal Cell Function. *44th Annual Pharmacology Colloquium*. June 2018, East Lansing, MI.
 34. Caballero-Florán RN, Nelson AD, Philippe JM, **Jenkins PM**. Lithium Partially Restores Presynaptic Gabaergic Signaling Deficits in the *Ank3* W1989R Mouse Model. *2018 Annual American College of Neuropsychopharmacology Meeting*, December 2018, Hollywood, FL.
 35. Philippe JM and **Jenkins PM**. Distinct S-palmitoylation mechanisms within the ankyrin family of scaffolding proteins; Implications for cardiomyocyte function. *39th Annual Pharmacological Sciences and Bio-Related Chemistry Symposium*, Ann Arbor, MI, March 2019.
 36. Philippe JM and **Jenkins PM**. Distinct S-palmitoylation mechanisms within the ankyrin family of scaffolding proteins; Implications for cardiomyocyte function. *Gordon Research Conference on Cardiac Arrhythmia Mechanisms*. April 2019. Renaissance Tuscany II Ciocco in Lucca (Barga), Italy.
 37. Philippe JM and **Jenkins PM**. Distinct S-palmitoylation mechanisms within the ankyrin family of scaffolding proteins; Implications for cardiomyocyte function. *46th Annual Pharmacology Research Colloquium*. June 2019. University of Toledo, Toledo, OH,
 38. Philippe JM and **Jenkins PM**. Distinct S-palmitoylation mechanisms within the ankyrin family of scaffolding proteins; Implications for cardiomyocyte function. *FASEB Summer Research Conference: The protein lipidation conference: Enzymology, Signaling, and Therapeutics*. July 2019, St. Bonaventure University, Olean, NY.
 39. Caballero-Florán RN, Nelson AD, Philippe JM, **Jenkins PM**. Lithium partially restores presynaptic GABAergic signaling deficits in the *Ank3* W1989R mouse

- model. *2019 Annual Society for Neuroscience Meeting*. November 2019, Chicago, IL.
40. Caballero-Florán RN, Bendahmane M, Kreutzberger AJ, Chapman-Morales A, Philippe JM, Schenk N, Zhang S, Kiessling V, Tamm L, Giovannucci DR, **Jenkins PM**, Anantharam A. A potential role for synaptotagmin-7 in plasticity of the sympathoadrenal synapse. *2019 Annual Society for Neuroscience Meeting*. November 2019, Chicago, IL.
 41. Caballero-Florán RN, Nelson AD, Philippe JM, **Jenkins PM**. Lithium Partially Restores Presynaptic Gabaergic Signaling Deficits in the *Ank3* W1989R Mouse Model. *2019 Annual American College of Neuropsychopharmacology Meeting*, December 2019, Orlando, FL.
 42. Gupta JM, **Jenkins PM**. Ankyrin-B is lipid-modified by S-palmitoylation to promote dendritic membrane scaffolding of voltage gated sodium channel Nav1.2 in neurons. *FASEB Summer Research Conference: The protein lipidation conference: Enzymology, Signaling, and Therapeutics*. June 2021, Virtual.
 43. Elvira CC, **Jenkins PM**. Ankyrin-G in Developmental and Epileptic Encephalopathies. *2022 Michigan Chapter of the Society for Neuroscience (MISfN) Annual Meeting*. June 2022, Mount Pleasant, MI.
 44. Sperry S, Yocum A, **Jenkins PM**, Ryan K, Tso I, McInnis M. The Heinz C. Prechter Bipolar Research Program: A Comprehensive Ontological Approach to the Study of Bipolar Disorder. *2022 Annual American College of Neuropsychopharmacology Meeting*, December 2022, Phoenix, AZ.
 45. Nelson AD, Catalfio AM, Gupta JP, Min L, Caballero-Florán RN, Dean KP, Elvira CC, Derderian KD, Kyoung H, Sahagun A, Sanders SJ, Bender KJ, **Jenkins PM**. Physical and Functional Convergence of the Autism Risk Genes *SCN2A* and *ANK2* in Neocortical Pyramidal Cell Dendrites. *2022 Annual American College of Neuropsychopharmacology Meeting*, December 2022, Phoenix, AZ.
 46. Elvira CC, **Jenkins PM**. The Coordination of Voltage-Gated Sodium Channels via Ankyrin Protein Interactions. *2023 Michigan Chapter of the Society for Neuroscience (MISfN) Annual Meeting*. June 2023, East Lansing, MI.
 47. Gupta JP, Nelson AD, Catalfio AM, Min L, Caballero-Florán RN, Dean KP, Elvira CC, Derderian KD, Kyoung H, Sahagun A, Sanders SJ, Bender KJ, **Jenkins PM**. Palmitoylation as a Central Regulator of Localization and Function of Two Top ASD Risk Genes. *2023 Annual American College of Neuropsychopharmacology Meeting*, December 2023, Tampa, FL.
 48. Nelson AD, Catalfio AM, Gupta JP, Min L, Caballero-Florán RN, Dean KP, Elvira CC, Derderian KD, Kyoung H, Sahagun A, Sanders SJ, Bender KJ, **Jenkins PM**.

Physical and Functional Convergence of the Autism Risk Genes *SCN2A* and *ANK2* in Neocortical Pyramidal Cell Dendrites. *2023 American Society for Cell Biology Annual Meeting*. December 2023, Boston, MA.

49. Elvira CC, Mukundan S, **Jenkins PM**. The Coordination of Voltage-Gated Sodium Channels via Ankyrin Protein Interactions. *2023 American Society for Cell Biology Annual Meeting*. December 2023, Boston, MA.