

## **Paul M. Jenkins, Ph.D.**

Assistant Professor

Departments of Pharmacology and Psychiatry

University of Michigan Medical School

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### **EDUCATION AND TRAINING**

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

### **ACADEMIC APPOINTMENTS**

- 3/2015-                Assistant Professor, Department of Pharmacology, University of Michigan Medical School, Ann Arbor, MI.
- 3/2015-                Assistant Professor, Department of Psychiatry, University of Michigan Medical School, Ann Arbor, MI.

### **OTHER RESEARCH EXPERIENCE**

- 9/2001-6/2002        Laboratory Technician, Compound Management, Pfizer Global Research and Development, Ann Arbor, MI.
- 6/2002-9/2003        Research Assistant, Jerry Stitzel Laboratory, Department of Pharmacology, University of Michigan, Ann Arbor, MI.
- 9/2003-6/2004        Research Assistant, Richard Mortensen Laboratory, Department of Pharmacology, University of Michigan, Ann Arbor, MI.

### **RESEARCH INTERESTS**

- Cellular and molecular neuroscience
- Neuropsychiatric disease mechanisms
- Protein trafficking
- Palmitoylation
- Epithelial cell biology
- Membrane structure

## GRANTS AND OTHER FINANCIAL SUPPORT

### *PRESENT AND ACTIVE*

- 2020-2022 Agency: Brain & Behavior Research Foundation  
NCE 2023 Title: Discovering therapies for *ANK3*-associated bipolar disorder  
PI: Paul Jenkins  
Role: PI  
Total Direct Costs: \$70,000
- 2020-2022 Agency: Simons Foundation Autism Research Initiative (SFARI #675594)  
NCE 2023 Title: Investigating a novel link between *ANK2* and *SCN2A*  
PI: Paul Jenkins  
Role: PI  
Total Direct Costs: \$300,000
- 2021-2026 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

### *PREVIOUSLY FUNDED*

- 2008-2010 Agency: NIDCD (F31 DC009524)  
Title: Mechanisms of Ciliary Trafficking of the Olfactory CNG Channel  
PI: Paul Jenkins  
Role: PI  
Total Direct Costs: \$57,000
- 2017-2019 Agency: NINDS (R01 NS088571-02S1)  
Title: Discovering Epilepsy Mechanisms in Dravet Syndrome  
PI: Lori Isom  
Role: Co-investigator (without effort)  
Total Direct Costs: \$90,420
- 2018-2020 Agency: NINDS (R21 NS104774-01A1)  
Title: Exploring Neuron-Specific Histone Methylation Dynamics  
PI: Shigeki Iwase  
Role: Consultant  
Total Direct Costs: \$275,000
- 2019-2020 Agency: Michigan Institute for Clinical & Health Research (MICHR)  
Title: Defining the cellular pathways impacted by bipolar disorder therapeutics in animal and mouse models of *ANK3* dysfunction  
PI: Jenkins, Paul  
Role: PI

Total Direct Costs: \$75,000

2018-2021 Agency: One Mind  
Title: Therapeutic modulation of ANK3-dependent GABAergic circuitry  
PI: Jenkins, Paul  
Role: PI  
Total Direct Costs: \$227,271

2019-2021 Agency: NINDS (R21 NS113022-01)  
Title: Understanding ANK3-associated epileptic encephalopathies  
PI: Paul Jenkins  
Role: PI  
Total Direct Costs: \$275,000 First year: \$150,000

## **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

## **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

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

## **STUDY SECTIONS AND GRANT REVIEW SERVICE**

2017- 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- Member of NIH study section (ZRG1 MDCN-P 57) Molecular and Cellular Substrates of Complex Brain Disorders Special Emphasis Panel (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

## **TEACHING AND MENTORING**

### *LECTURES AND CLASSES*

01/2007-5/2007 Pharmacology 502: Principles of Scientific Communication  
*Graduate Student Teaching Assistant*

10/2007-1/2010 Guest lecturer at Washtenaw Community College  
Psychology 240: Drugs, Society, and Human Behavior  
*Lectured in Introductory Pharmacology and Neuropharmacology*

- 10/5/2015 Human Genetics 632: Genetic Strategies in Biological Research  
*Giant ankyrin-G and GABAergic synaptogenesis: Implications for neuropsychiatric disease*
- 10/7/2016 Dentistry 640: Gastrointestinal System (2 contact hours)  
*Lectured on Drugs acting on the Gastrointestinal tract and on Hepatotoxic drugs.*
- 09/2016-11/2016 Pharmacology 502: Principles of Scientific Communication (10 contact hours)  
*Small group leader*
- 11/07/2016 Department of Neurology Basic Neuroscience Series (1 contact hour)  
*Lectured on Cellular and molecular mechanisms of psychiatric disease*
- 01/17/2017 M1 Gastrointestinal Sequence (1 contact hour)  
*Lectured on antisecretory and antiemetic therapies*
- 03/10/2017 Pharmacology 646: Student Seminar (1 contact hour)
- 04/27/2017 M1 Musculoskeletal Sequence (1 contact hour)  
*Lectured on NSAIDs and acetaminophen*
- 08/16/2017-08/18/2017 Neuroscience 623: Neuroscience Bootcamp (24 contact hours)  
*Lectured on principles of light microscopy*
- 10/6/2017 Dentistry 640: Gastrointestinal System (2 contact hours)  
*Lectured on Drugs acting on the Gastrointestinal tract and on Hepatotoxic drugs.*
- 10/20/2017-10/27/2017 Pharmacology 601: From Molecules to Patients: Basic Quantitative Principles of Pharmacology (5 contact hours)  
*Lectured on Drug targets, structure/function of major receptor classes, and signal transduction.*
- 10/30/2017 Department of Neurology Basic Neuroscience Series (1 contact hour)  
*Lectured on Cellular and molecular mechanisms of psychiatric disease*
- 01/12/2018 M1 Gastrointestinal Sequence (1 contact hour)  
*Lectured on antisecretory and antiemetic therapies*
- 04/30/2018 M1 Musculoskeletal Sequence (1 contact hour)

*Lectured on NSAIDs and acetaminophen*

- 05/30/2018 MICHHR Studio for the Postdoctoral Translational Scholars Program and the KL2 awardees (1 contact hour)  
*Lectured on the Academic Job Applications, Research Talks, and Strategies*
- 08/22/2018-  
08/24/2018 Neuroscience 623: Neuroscience Bootcamp (24 contact hours)  
*Lectured on principles of light microscopy*
- 09/27/2018 Dentistry 640: Gastrointestinal System (2 contact hours)  
*Lectured on Drugs acting on the Gastrointestinal tract and on Hepatotoxic drugs.*
- 10/18/2018 MICHHR Studio for the Postdoctoral Translational Scholars Program and the KL2 awardees (1 contact hour)  
*Lectured on the Academic Job Applications, Research Talks, and Strategies*
- 10/19/2018-  
10/26/2018 Pharmacology 601: From Molecules to Patients: Basic Quantitative Principles of Pharmacology (5 contact hours)  
*Lectured on Drug targets, structure/function of major receptor classes, and signal transduction.*
- 1/18/2019 M1 Gastrointestinal Sequence (1 contact hour)  
*Lectured on antisecretory and antiemetic therapies*
- 2/27/2019-  
4/1/2019 Medicinal Chemistry 510: Principles of Drug Action II (9 contact hours)  
*Lectured on antihistamines, antacids, and NSAIDs*
- 04/23/2019 Neuroscience 700 Weekly Neuroscience Seminar (3 contact hours)  
*Provided guidance and feedback on oral presentation skills.*
- 04/29/2019 M1 Musculoskeletal Sequence (1 contact hour)  
*Lectured on NSAIDs and acetaminophen*
- 08/22/2019-  
08/24/2019 Neuroscience 623: Neuroscience Bootcamp (24 contact hours)  
*Lectured on principles of light microscopy*
- 09/26/2019 Dentistry 640: Gastrointestinal System (2 contact hours)  
*Lectured on Drugs acting on the Gastrointestinal tract and on Hepatotoxic drugs.*
- 10/18/2019-  
10/25/2019 Pharmacology 601: From Molecules to Patients: Basic Quantitative Principles of Pharmacology (5 contact hours)  
*Lectured on Drug targets, structure/function of major receptor*

*classes, and signal transduction.*

- 11/21/2019-  
11/26/2019      Pharmacology 310: Pharmacology and Therapeutics  
(5 contact hours)  
*Lectured on Autacoid pharmacology, asthma, and gout.*
- 1/08/2020      M1 Gastrointestinal Sequence (1 contact hour)  
*Lectured on antisecretory and antiemetic therapies*
- 2/26/2020-  
3/20/2020      Medicinal Chemistry 510: Principles of Drug Action II (9 contact  
hours) *Lectured on antihistamines, antacids, and NSAIDs*
- 04/29/2020      M1 Musculoskeletal Sequence (1 contact hour)  
*Lectured on NSAIDs and acetaminophen*
- 08/14/2020-  
08/16/2020      Neuroscience 623: Neuroscience Bootcamp (24 contact hours)  
*Lectured on principles of light microscopy*
- 10/16/2020-  
10/23/2020      Pharmacology 601: From Molecules to Patients: Basic Quantitative  
Principles of Pharmacology (5 contact hours)  
*Lectured on Drug targets, structure/function of major receptor  
classes, and signal transduction.*
- 11/17/2020      Pharmacology 310: Pharmacology and Therapeutics  
(2 contact hours)  
*Lectured on Autacoid pharmacology and asthma.*
- 1/08/2021      M1 Gastrointestinal Sequence (1 contact hour)  
*Lectured on antisecretory and antiemetic therapies*
- 03/03/2020-  
03/22/2020      Medicinal Chemistry 510: Principles of Drug Action II (9 contact  
hours) *Lectured on antihistamines, antacids, and NSAIDs*
- 09/2021-  
05/2022      Pharmacology 604: Collaborative Projects for PSTP Trainees. (9  
contact hours) *Course Co-Director.*
- 04/2022      Neuroscience 616: Translational Neuroscience (2.5 contact hours)  
*Lectured on Autism Spectrum Disorders and led discussion group.*
- 05/2022      Pharmacology 646: Student Seminar (2.5 contact hours)

**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*

3/2015-7/2019	Andrew Nelson, (Pharmacology) – Postdoctoral Fellow, Kevin Bender laboratory, University of California – San Francisco Genetics Training Program fellowship recipient (T32GM007544) Rackham Predoctoral Fellow
6/2017-5/2021	Julie Philippe (Pharmacology) Pharmacological Sciences Training Program fellowship recipient (T32GM007767), Rackham Merit Fellow, Rackham Predoctoral Fellow, Life Sciences Consultant, Putnam Associates, Boston, MA
3/2021-	Carina Elvira, (Cell and Molecular Biology), Cellular and Molecular Biology Training Grant recipient (T32GM007315)
3/2021	Kendall Perkins, (Cell and Molecular Biology), Cellular and Molecular Biology Training Grant recipient (T32GM007315)

*ROTATING GRADUATE STUDENT MENTORING*

3/2015-6/2015	Andrew Nelson (Pharmacology), joined laboratory
1/2016-5/2016	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)

*MASTERS STUDENT MENTORING*

4/2018-8/2019	Amanda France (Pharmacology)
9/2019-6/2020	Riley Crandall (Pharmacology)
9/2022-	Sarvatha Mukundan (Pharmacology)

*POSTBACCALAUREATE STUDENT MENTORING*

8/2021-	Monica Mesecar (University of Michigan PREP Program)
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*UNDERGRADUATE STUDENT MENTORING*

5/2015-6/2016	Katlin Hahm (University of Michigan)
6/2015-8/2015	Bing Zheng (Truman State University), 2015 ASPET Summer



Fellowship

6/2015-8/2018 Randall Strassburg (University of Michigan)

10/2015-8/2018 Mathew Gologorsky (University of Michigan)

1/2016-8/2018 Shruti Arora (University of Michigan), Bonderman Fellowship Recipient

6/2016-8/2016 Sara Graves (Gustavus Adolphus College), 2016 ASPET Summer Fellowship

9/2016-11/2017 Zach Bernstein (University of Michigan), 2017 Summer UROP Biomedical and Life Sciences Fellowship recipient

9/2016-1/2017 Humza Hemani (University of Michigan)

6/2017-9/2018 Madison O'Donnell (University of Michigan)

6/2018-8/2018 Amanda Gregolynskj (University of Arizona), 2018 NURO Summer Fellowship

9/2018-8/2019 Marissa Martinelli (University of Michigan), 2019 ASPET Summer Fellowship

9/2018-5/2019 Maxwell Tsai (University of Michigan)

9/2018-8/2019 Jaeyoung Choi (University of Michigan)

9/2018-2/2020 Ellie Falahee (University of Michigan)

2/2019-1/2020 Hannah Pearlstein (University of Michigan)

6/2019-8/2019 Richard Daniel Kelly IV (Florida State University), 2019 NURO Summer Fellowship

9/2019-9/2021 Lauren Johnson (University of Michigan)

3/2021-4/2022 Elise McCormick (University of Michigan)

6/2021-8/2021 Ola Bartolik (Kalamazoo College), 2021 NURO Summer Fellowship

9/2021-  
1/2022-  
5/2022-  
6/2022-8/2022 Clayton Kramm (University of Michigan)

6/2022-8/2022 Gabrielle Pough (University of Michigan)

6/2022-8/2022 Luke Granberg (University of Michigan)

6/2022-8/2022 Jean Setenet (Ursinus College), 2022 NURO Summer Fellowship

6/2022-8/2022 Lucas Tittle (University of Michigan), 2022 Charles Ross Fellowship

*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)

*DOCTORAL DISSERTATION COMMITTEES*

2015-2019 Andrew Nelson (Pharmacology), Chair  
2016-2019 Melanie Cheungseekit (Chemistry)  
2017-2021 Julie Philippe (Pharmacology), Chair  
2017- Nichelle Jackson (Pharmacology)  
2018- Daniel Doyle (Neuroscience)  
2018- Sarah Pizzano (Neuroscience), Co-chair  
2018- Jean Carlos Rodríguez Díaz (Neuroscience)  
2018- Taylor Craig (Neuroscience)  
2019 Shuoying Ren (Pharmacology)  
2019-2020 William Walker (Chemistry)  
2020- Hao Chen (Pharmacology)  
2021- Megan Dykstra (Neuroscience)  
2021- Karen Wang (Cell & Developmental Biology)  
2022 Emil Arvedsen (University of Copenhagen, Copenhagen, Denmark)  
2022- A. Kane York (Neuroscience)  
2022- James Teuber (Pharmacology)  
2022- Carina Elvira (Cellular and Molecular Biology, Chair)  
2022- Kendall Dean (Cellular and Molecular Biology, Chair)

*MEMBER OF NIH-FUNDED TRAINING GRANT FACULTIES*

T32 PI: Lori Isom

Role: Participating Mentor

**Interdepartmental Training in Pharmacological Sciences**

T32 PI: Edward Stuenkel

Role: Participating Mentor

**Early State Training in the Neurosciences**

T32 PI: Deneen Wellik

Role: Participating Mentor

**Training Program in Organogenesis**

T32 PI: Bob Fuller

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*

10/2018 Co-organizer, Collaborative Research Consortium SFB 1134  
“Axons in the Hills”, Heidelberg, Germany

### *NATIONAL*

7/2019 Vice chair, FASEB Summer Research Conference, The Protein  
Lipidation Conference: Enzymology, Signaling, and Therapeutics,  
Olean, NY.

12/2020-03/2021 Focus Area Participant, Bipolar Disorder Roadmap Initiative  
(BDRI), Milken Institute

6/2021 Co-Chair, FASEB Summer Research Conference, The Protein  
Lipidation Conference: Enzymology, Signaling, and Therapeutics,  
Virtual Meeting.

6/2022 Co-Chair, FASEB Summer Research Conference, The Protein  
Lipidation Conference: Enzymology, Signaling, and Therapeutics,  
Saxtons River, VT.

### *REGIONAL*

2016 Poster judge, 47<sup>th</sup> Annual Michigan Chapter of the Society for  
Neuroscience Meeting, East Lansing, MI

2016 Poster judge, 43<sup>rd</sup> Annual Pharmacology Research Colloquium, Ann  
Arbor, MI

2017 Poster judge, 48<sup>th</sup> Annual Michigan Chapter of the Society for  
Neuroscience Meeting, Ann Arbor, MI

2017 Poster judge, 44<sup>th</sup> Annual Pharmacology Research Colloquium,  
Detroit, MI

2018 Poster judge, 49<sup>th</sup> Annual Michigan Chapter of the Society for  
Neuroscience Meeting, Detroit, MI

2018 Oral Presentation judge, 45<sup>th</sup> Annual Pharmacology Research  
Colloquium, East Lansing, MI

2019 Poster judge, 50<sup>th</sup> 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 Biological Sciences  
Admissions Committee

2015- Program in Biological Sciences Admissions Committee

2015- 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  
 2017-2022 Voting Member, UMMS Laboratory Safety Executive Committee  
 2019-2022 Chair, UMMS Laboratory Safety Executive Committee  
 2017-2018 Committee Member, Endowment for Basic Sciences Chair  
 Information Technology Working Group

*DEPARTMENTAL*

2007-2008 Graduate student representative, Pharmacological Sciences 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- 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- Poster Judge, Pharmacological Sciences Training Program Annual Symposium  
 2018- Oral Presentation Judge, Pharmacological Sciences Training Program Annual Symposium  
 2021- Neuroscience Graduate Program Diversity, Equity, and Inclusion Education Task Force Faculty Facilitator

**LEADERSHIP AND SKILL DEVELOPMENT**

11/4/2015 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  
 1/22/2016 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
11/2/2018	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
04/3/2019	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.
12/2/2015	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.
9/24/2016	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.

- 2/27/2018 A Rare Variant in *ANK3* from a Family with Bipolar Disorder Leads to Altered Cortical Circuitry. Shriner's Hospital Pediatric Center, Philadelphia, PA. Invited by Dr. Gareth Thomas.
- 2/4/2019 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.
- 3/20/2019 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.
- 9/12/2019 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.
- 1/20/2020 Lithium reverses inhibitory signaling deficits in a mouse with bipolar disorder-associated *Ank3* variant. Hope College, Holland, MI. Invited by Dr. Leah Chase.
- 3/6/2020 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.
- 1/11/2022 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
- 1/19/2022 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

*UPCOMING INVITED SEMINARS*

- 9/19/2022 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.
- 10/3/2022 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.
- 11/2022 Title TBD. University of Utah. Invited by Dr. Karen Wilcox.
- 4/11/2023 Title TBD. Emerging Concepts of the Neuronal Cytoskeleton International Meeting. Santa Cruz, Chile. Invited by Dr. Christophe Leterrier.

\*Postponed due to COVID-19

*INVITED PRESENTATIONS AT INTERNATIONAL/NATIONAL MEETINGS*

- 3/5/2012 Role of alternative splicing in ankyrin-G function at the axon initial segment. Invited Presentation at the 43<sup>rd</sup> 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.
- 7/22/2015 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.
- 2/2/2016 Giant ankyrin-G and GABAergic synapses: Implications for neuropsychiatric disease. 2016 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Anil Malhotra.
- 9/21/2016 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.
- 2/14/2017 Understanding the role of *ANK3* in cortical synaptic connectivity. 2017 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Anil Malhotra.
- 12/4/2017 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.
- 2/14/2018 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.
- 9/10/2018 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.
- 9/15/2018 Therapeutic modulation of *ANK3*-dependent GABAergic circuitry. One Mind Music Festival, Napa Valley, CA.

- 2/11/2019 Understanding effects of therapeutics on forebrain GABAergic signaling. 2019 Translational Psychiatry Meeting. Park City, UT. Invited by Dr. Stephan Sanders.
- 7/11/2019 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.
- 8/8/2019 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.
- 9/15/2021 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
- 6/10/2021 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.
- 10/5/2021 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
- 8/4/2022 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.

*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.

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### 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.
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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. PMID: PMC2000398.
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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.
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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. PMID: PMC2682445.

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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. PMID: PMC2957320.
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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. PMID: 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. PMID: PMC4705390.
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#### WORK IN PROGRESS

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- splanchnic-chromaffin cell synapse. *In revision at Neuroscience Letters*. # Co-corresponding authors.
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  7. Caballero-Florán RN, Nelson AD, and **Jenkins PM**. Lithium therapy restores neuronal excitability by increasing GABAergic transmission in the *Ank3* p.W1989R mouse model. *Complete, being edited for submission*.

#### 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. *26<sup>th</sup> 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. *15<sup>th</sup> International Symposium on Olfaction and Taste*. July 2008, San Francisco, CA.
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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. *43<sup>rd</sup> Annual Pharmacology Research Colloquium*. June 2016, Ann Arbor, MI.
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- GABARAP is critical for the formation of GABAergic synapses in mouse somatosensory cortex. *2016 Annual Society for Neuroscience Meeting*. November 2016, San Diego, CA.
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  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. *44<sup>th</sup> Annual Pharmacology Research Colloquium*. June 2017, Detroit, MI. Best Graduate Student Poster.
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  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.
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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. *29<sup>th</sup> Annual Albert J. Silverman Research Conference*. May 2018, Ann Arbor, MI.
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34. Philippe JM and **Jenkins PM**. Distinct S-palmitoylation mechanisms within the ankyrin family of scaffolding proteins; Implications for cardiomyocyte function. *39<sup>th</sup> Annual Pharmacological Sciences and Bio-Related Chemistry Symposium*, Ann Arbor, MI, March 2019.
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37. 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.
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