Jason R. Cannon, Ph.D.

Curriculum Vitae

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Purdue:
http://www.purdue.edu/hhs/hsci/directory/faculty/cannon_jason.html
https://www.purdue.edu/gradschool/pulse/groups/profiles/faculty/cannon.html

NCIB: https://www.ncbi.nlm.nih.gov/myncbi/jason.cannon.1/bibliography/public/
Google Scholar: https://scholar.google.com/citations?user=l3f_ixcAAAAJ&hl=en
ORCID: https://orcid.org/0000-0003-1907-4555

Place of Birth: Flint, MI, USA
Nationality: U.S. Citizen

EXPERTISE

Dr. Cannon is trained in toxicology and neuroscience. He is an expert on how toxic exposures adversely affect the nervous system. Dr. Cannon teaches the following subjects: general toxicology, analytical toxicology (quantification of drugs of abuse, environmental and industrial toxicants), biochemical toxicology (mechanisms of toxic action) toxicologic pathology, neurotoxicology, neurodegeneration. Dr. Cannon conducts research on how toxic exposures impact neurologic function and may influence the onset and progression of neurological diseases. He provides scientific expertise on toxicology and neurodegeneration to government, nonprofit, industry, and legal sectors.

EDUCATION

2006-2011 **Postdoctoral Fellowship**
Pittsburgh Institute for Neurodegenerative Diseases, University of Pittsburgh, Pittsburgh, PA 15260

Postdoctoral Mentor: J. Timothy Greenamyre, M.D., Ph.D.

2001-2006 **Doctorate of Philosophy in Toxicology (December, 2006)**
University of Michigan, Ann Arbor, MI, 48109

Dissertation Title: "Thrombin preconditioning in a 6-hydroxydopamine rat model of Parkinson's disease"

Dissertation Committee:
Richard F. Keep, Ph.D. (Co-Chair and Cognate)
Rudy J. Richardson, Sc.D. (Co-chair)
Guohua Xi, M.D. (Member,)
Martin A. Philbert, Ph.D. (Member)
Timothy J. Schallert, Ph.D. (External Advisor)

2000-2001 Occupational and Industrial Health Sciences (Industrial Toxicology, no degree), Wayne State University, Detroit, MI, 48202

1994-1998 **Bachelor of Science with Honor, Physiology (May, 1998)**
Lyman Briggs School of Science, Michigan State University, East Lansing, MI, 48824

PROFESSIONAL EXPERIENCE and ACADEMIC APPOINTMENTS

08/2022-present	**Professor of Toxicology** (tenured), School of Health Sciences, Purdue University
08/2022-present	**Consultant (toxicology)**, Forensic Psychology Consultants, LLC
08/2021-present	**Co-leader**, Healthy Lifestyles and Vital Longevity – College of Health and Human Sciences Signature Area, Purdue University
06/2021-present	**Mentor**, National Institute of Health (NIH) funded Toxicology Mentoring and Skills Development Training Program (ToxMSDT)
07/2020-present	**Courtesy Appointment**, Department of Public Health, Purdue University
07/2020-present	**Member**, Neurotoxicity Technical Working Group, Botanical Safety Consortium (BSC), Health and Environmental Sciences Institute (HESI)
04/2019-present	**Member**, Fulbright Specialist Roster, U.S. Department of State's Bureau of Educational and Cultural Affairs (ECA) and World Learning
12/2018-12/2019	**Fellow**, Faculty Leadership Academy for Interdisciplinary Research, Office of the Executive Vice President for Research and Partnerships, Purdue University
07/2017-present	**Head**, Purdue University Interdisciplinary Life Science Program (PULSe)
09/2016-08/2017	**Chair, Integrative Neuroscience Training Group**, Purdue University Interdisciplinary Life Science Program (PULSe)
08/2016-present	**Director of Toxicology Graduate Program**, School of Health Sciences, Purdue University
08/2016-12/2018	**Director of Graduate Studies**, School of Health Sciences, Purdue University
08/2016-08/2022	**Associate Professor of Toxicology** (tenured), School of Health Sciences, Purdue University
01/2016-present	**Faculty Associate**, Integrative Neuroscience Center, Purdue University
06/2013-present	**Faculty Associate**, Center on Aging and Life Course, Purdue University
02/2012-present	**Administrative Member**, Integrative Neuroscience Training Group, Purdue University Interdisciplinary Life Science Ph.D. program (PULSe)
01/2012-07/2016	**Assistant Professor of Toxicology**, School of Health Sciences, Purdue University
09/2010-12/2011	**Research Associate**, Pittsburgh Institute for Neurodegenerative Diseases, Department of Neurology, University of Pittsburgh
09/2010-12/2011	**Research Associate**, Department of Veteran's Affairs, VA Pittsburgh Healthcare System
09/2006-09/2010	**Postdoctoral Associate**, Pittsburgh Institute for Neurodegenerative Diseases, Department of Neurology, University of Pittsburgh
09/2005-08/2006	**Graduate Student Research Assistant**, Department of Neurosurgery, University of Michigan
09/2001-08/2005	**NIEHS Predoctoral Research Trainee**, Environmental Health Sciences, Toxicology Program, University of Michigan
09/2001-05/2003	**Polysomnographic Research Analyst**, University of Michigan School of Nursing

07/2000-08/2001 **Lead Research Polysomnographic Technologist**, General Clinical Research Center, Medical School, University of Michigan

08/1999-01/2000 **Teaching Assistant**, Capstone laboratory in Physiology, Physiology Department, Michigan State University

06/1998-07/2000 **Polysomnographic Technologist**, Ingham Regional Medical Center, Lansing, MI

ACADEMIC AND PROFESSIONAL HONORS

Awards

2022 Travel Award ($1,000), Incoming Mobility Commission, Office of Science and Art, University of Rijeka
2019 Purdue Research Foundation International Travel Grant
2017 University Faculty Scholar (2017-2022), total award of $100k in discretionary funds
2017 Showalter Faculty Scholar (2017-2022) – subset of University Faculty Scholars (excellence in life sciences)
2016 Seed for Success Award, Purdue University (external sponsor award >$1M)
2015 Travel award ($1700), Elucidating Environmental Dimensions of Neurological Disorders and Disease: Understanding New Tools from Federal Chemical Testing Programs, Environmental Defense Fund, NIEHS/NTP
2015 Outstanding Reviewer – Elsevier (top 10th percentile, number of reviews completed for *Neurobiology of Disease* in the past two years)
2014 Early Career Reviewer (2nd selection), Clinical Neuroplasticity and Neurotransmitters Study Section, Center for Scientific Review, National Institutes of Health
2013 Early Career Reviewer 1st selection, Clinical Neuroplasticity and Neurotransmitters Study Section, Center for Scientific Review, National Institutes of Health
2013 Appointed as Faculty Associate, Center on Aging and Life Course, Purdue University
2013 Certificate of Excellence in Reviewing, *Experimental Neurology*
2011 NIH (NIEHS) Individual Career Development Award (K99/R00)
2011 AstraZeneca Travel Award (100% funding for travel and attendance), Gordon Research Conference, Cellular & Molecular Mechanisms of Toxicity Understanding Innovative Mechanistic Toxicology in the Post-Genomic Era
2011 Abstract chosen for oral presentation. Gordon Research Conference, Cellular & Molecular Mechanisms of Toxicity Understanding Innovative Mechanistic Toxicology in the Post-Genomic Era
2011 1st place in poster competition. Gordon Research Conference, Cellular & Molecular Mechanisms of Toxicity Understanding Innovative Mechanistic Toxicology in the Post-Genomic Era
2010 Best Overall Poster, 2010 Annual Spring Meeting, Allegheny-Erie Society of Toxicology
2008 Postdoctoral Fellowship, American Parkinson's Disease Association, Inc.
2007 Institutional Postdoctoral Training Fellowship, NIMH Training Grant the Neurobiology of Psychiatric Disorders, University of Pittsburgh
2006 Rackham Travel Award, Society of Toxicology's 45th annual meeting, Rackham Graduate School, University of Michigan
2005 Rackham Travel Award, Society of Toxicology, Society of Toxicology's 44th annual meeting, Student Scholarship, 13th International Symposium on Brain Edema and Conference on Intracerebral Hemorrhage
2004 Rackham Travel Award, Society of Toxicology's 43rd annual meeting, Rackham Graduate School, University of Michigan
2003 Rackham Travel Award, Society of Toxicology's 42nd annual meeting, Rackham Graduate School, University of Michigan
2001 Institutional Predoctoral Training Fellowship (3 competitive renewals), NIEHS Environmental Toxicology Research Training Grant, The University of Michigan
1998 Bachelor of Science Degree, *with honor*
1996 Tower Guard: Sophomore Honor Service Society, Michigan State University

Society Memberships

2006-Present	Society for Neuroscience
2002-Present	Society of Toxicology, Neurotoxicology Specialty Section
2002-Present	International Neurotoxicology Association

Professional Activities

Associate Editor

Frontiers in Toxicology (2019-)

NeuroToxicology (2019-)

Editorial Board Membership

Journal of Biochemical and Molecular Toxicology (2021- present)

Toxicology, (2019-present)

Toxics, Editorial Board Member (2019 – present)

NeuroToxicology (2018-2019)

Neurotoxicology & Teratology (2018-present)

Frontiers in Environmental Science, Toxigogenomics section, Review Member, Editorial Board (2017 – 2019)

Frontiers in Genetics, Toxicogenomics section, Review Member, Editorial Board (2017 – present)

Toxicological Sciences, Editorial Board Member (2015 – present)

Experimental Biology and Medicine, Member, Pharmacology & and Toxicology Section (2013-2016)

Guest Editor

Neurotoxicology and Teratology (2019-2020), Special Issue entitled, *"Leveraging non-mammalian models for developmental neurotoxicity testing"*

Editorial Review for Scientific Journals

Aging Cell
Analytical Methods
Archives of Toxicology
Biochemical Pharmacology
Biological Trace Element Research
Biomedicine & Pharmacotherapy
BMC Neurology
BMC Neuroscience
Brain Research
Cell Death & Disease
Chemical Communications
Clinical Neurology & Neurosurgery
Current Cancer Drug Targets
Disease Models & Mechanisms
Environmental Pollution
Environment International
Experimental Biology and Medicine
Experimental Brain Research
Experimental Neurology
Food & Function
Frontiers in Genetics
Frontiers in Immunology
Frontiers in Neuroscience
Free Radical Biology and Medicine

Glia
Gerontology & Geriatric Medicine
IBRO Reports
International Journal of Developmental Neuroscience
International Journal of Environmental Research and Public Health
Journal of Functional Foods
Journal of Integrative Neuroscience
Journal of Neural Transmission
Journal of Neurochemistry
Journal of Neurogenetics
Journal of Neuroinflammation
Journal of the Neurological Sciences
J Neuropath and Experimental Neurology
Journal of Nervous and Mental Disease
Journal of Neuroscience Research
Journal of Toxicology
Marine Pollution Bulletin
Meat Science
Metabolic Brain Disease
Metallomics
Molecular and Cellular Neuroscience
Neurobiology of Aging
Neurobiology of Disease
Neurochemical Research
Neurochemistry International
Neuropharmacology
Neuroscience
Neuroscience Letters
Neurotoxicity Research
Neurotoxicology
Neurotoxicology & Teratology
Organic & Biomolecular Chemistry
Pesticide Biochemistry and Physiology
Pharmacology & Therapeutics
Physiology & Behavior
PloS ONE
PNAS
PNAS Nexus
Psychopharmacology
Scientific Reports
Toxicology
Toxicology & Applied Pharmacology
Toxicology Research
Toxicological Sciences

Editorial Review for Textbooks

Jones and Bartlett Learning

Grant Review

2023 Toxic Exposures Research Program, Congressionally Directed Medical Research Programs, Department of Defense
2022 Purdue Reviewer, Overseas Visiting Doctoral Fellowship (OVDF) Program, Purdue and India's Science and Engineering Research Board
2022 F03A-E (20) L, *Fellowships: Neurodevelopment, Synaptic Plasticity and Neurodegeneration*, Fall, 2022
2022 Dutch research foundation ParkinsonNL, Fall, 2022
2022 ZRG1 F03B-L (20) L, *Fellowships: Biophysical, Physiological, Pharmacological and Bioengineering Neuroscience*, Summer, 2022
2022 ZRG1 F03B-L (20) L, *Fellowships: Biophysical, Physiological, Pharmacological and Bioengineering Neuroscience*, Winter, 2022
2021 *Open Competition Domain Science*, Dutch Research Council, Netherlands, Fall, 2021
2021 NIEHS P42 Superfund Research Program – Phase I and Phase II review, National Institutes of Health, Fall, 2021
2021 ZRG1 F03B-R (20) L, *Fellowships: Biophysical, Physiological, Pharmacological and Bioengineering Neuroscience,* Center for Scientific Review, National Institutes of Health, *ad hoc,* Summer, 2021
2021 *Showalter Review Panel*, Purdue Research Foundation, Spring, 2021
2021 Core Pilot review, Translational Research Development Program, Indiana Clinical and Translational Sciences Institute (CTSI), Spring, 2021
2021 National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs), United Kingdom, *Ad hoc* Reviewer, Spring, 2021
2020 Investigating Environmental Risk Factors, The Michael J. Fox Foundation, Fall, 2020
2020 ZRG1 F03A-E (20) L, *Fellowships: Neurodevelopment, Synaptic Plasticity and Neurodegeneration Fellowship Panel* (F03A), Center for Scientific Review, National Institutes of Health, *ad hoc,* Summer, 2020
2020 *Showalter Review Panel*, Purdue Research Foundation, Spring, 2020
2020 ZRG1 F03A-E (20) L, *Fellowships: Neurodevelopment, Synaptic Plasticity and Neurodegeneration Fellowship Panel*, Center for Scientific Review, National Institutes of Health, *ad hoc,* Spring, 2020

2019 K99/R00 Pathway to Independence Award Panel, National Institute of Environmental Health Sciences, National Institutes of Health, *ad hoc,* Summer, 2019
2019 IMM-K (50) *US-Brazil Collaborative Research Program*, National Institutes of Health, Summer, 2019
2019 *Swiss National Science Foundation*, *ad hoc* reviewer
2019 *Early Life Stressors and Alcohol Use Disorders* [ZRG1 IFCN-C (07) S] Study Section, Center for Scientific Review, National Institutes of Health, *ad hoc,* Spring, 2019
2019 *Neurotoxicology and Alcohol* (NAL) Study Section, Center for Scientific Review, National Institutes of Health, *ad hoc,* Spring, 2019
2018 *Environmental Factors (EF),* peer review panel of the 2018 Parkinson's Disease Research Program (PRP) for the Department of Defense Congressionally Directed Medical Research Programs (CDMRP)
2018 K99/R00 Pathway to Independence Award Panel, National Institute of Environmental Health Sciences, National Institutes of Health, *ad hoc,* Fall, 2018
2018 *Neurobiology – E,* VA Merit Review Panel, Summer 2018
2018 *Neurobiology of Alcohol Toxicity and Chemosensation member conflict Special Emphasis Panel* Study Section [2018/05 ZRG1 IFCN-N (03) M], Center for Scientific Review, National Institutes of Health, *ad hoc,* Spring, 2018
2017 Department of Defense Congressionally Directed Medical Research Programs, Metals Toxicology, Teleconference
2017 *Neurotoxicology and Alcohol* (NAL) Study Section, Center for Scientific Review, National Institutes of Health, *ad hoc,* Fall, 2017
2017 Department of Defense Congressionally Directed Medical Research Programs, Metals Toxicology, FP-MT
2017 Indiana Alzheimer Disease Center (IADC) Pilot Project Grant Review
2017 Department of Defense Congressionally Directed Medical Research Programs, Discovery Metals Toxicology Metals Toxicology
2017 Department of Defense Congressionally Directed Medical Research Programs, Pre-application Metals Toxicology Metals Toxicology
2017 *Neurotoxicology and Alcohol* (NAL) Study Section, Center for Scientific Review, National Institutes of Health, *ad hoc,* Summer, 2017
2017 Reviewer, New R01 Incentive Program, Office of the Executive Vice President for Research and Partnerships
2017 *Neuroplasticity & Compensation/Progression & Heterogeneity (NPC-PH)* peer review panel of the 2016 Parkinson's Disease Research Program (PRP) for the Department of Defense Congressionally Directed Medical Research Programs (CDMRP)
2016 *Neurobiology – E,* VA Merit Review Panel, Winter 2016
2016 *Systemic Injury and Environmental Exposures* (SIEE), Study Section, Center for Scientific Review, National Institutes of Health, *ad hoc,* Fall, 2016
2016 Department of Defense Congressionally Directed Medical Research Programs Metals Toxicology Metals Toxicology (Discovery Award)
2016 Department of Defense Congressionally Directed Medical Research Programs, Pre-application Metals Toxicology Metals Toxicology [Investigator-Initiated Research Award (IIRA), Technology/Therapeutic Development Award (TTDA)]
2016 *Clinical Neuroplasticity and Neurotransmitters Study Section*, Center for Scientific Review, National Institutes of Health, *ad hoc,* Summer, 2016
2016 Target Advancement Panel, The Michael J Fox Foundation
2016 Health Research Council of New Zealand
2015 Department of Defense Congressionally Directed Medical Research Programs, Metals Toxicology Metals Toxicology [Investigator-Initiated Research Award (IIRA), Technology/Therapeutic Development Award (TTDA)]
2015 Department of Defense Congressionally Directed Medical Research Programs, Metals Toxicology (Discovery Award)
2015 Department of Defense Congressionally Directed Medical Research Programs, Pre-Application Metals Toxicology [Investigator-Initiated Research Award (IIRA), Technology/Therapeutic Development Award (TTDA)]
2015 Parkinson's disease Society – *UK; ad hoc* grant reviewer, Summer, 2015
2015 Indiana Spinal Cord and Brain Injury Fund, Indiana State Department of Health, Spring, 2015

2014 *Clinical Neuroplasticity and Neurotransmitters Study Section*, Center for Scientific Review, National Institutes of Health, *ad hoc,* Summer, 2014
2013 Joint Research Actions, The French Community of Belgium, University of Liège, *ad hoc* Spring, 2013
2013 *Clinical Neuroplasticity and Neurotransmitters Study Section*, Center for Scientific Review, National Institutes of Health, *ad hoc,* Spring, 2013
2012 The Medical Research Council (MRC) of South Africa – External Grant Reviewer
2012 Collaborative Incentive Research Grant (CIRG), CUNY – *ad hoc* External Reviewer, 5/2012
2010 Parkinson's disease Society – *UK; ad hoc* grant reviewer, Fall, 2010

Program/other External Review

2022 External Reviewer/Focus Group Member, Strategic Plan Review, Lyman Briggs College, Michigan State University

Consortium Memberships

2012-2015 LRRK2 Biology Program, the Michael J. Fox Foundation

ACTIVE/PENDING RESEARCH SUPPORT

NAME OF INDIVIDUAL

Project Number (Principal Investigator) Source Title of Project *(or Subproject)* Major goals	Dates of Approved/Proposed Project Annual Direct Costs	Person Months (Cal/Academic/ Summer)

ACTIVE*

PD211037 [mPIs, Cannon (contact) and Wells] 09/30/2022 – 09/29/2025 1.8 Summer
DOD ~$250,000

Role Of Military Relevant Chlorpyrifos Exposure In Parkinson's Disease Relevant Dopaminergic Neurotoxicity.
The goal is to understand whether military-related chlorpyrifos exposure may influence PD risk. Role = PI. Total cost = $1,199,999.

R21AG068787S-1 (Cannon, PI) 09/01/2021 – 05/31/2023 (NCE) 1.0 Summer
NIA/NIH $137,500

PFOS-induced dopaminergic neurodegeneration across nematode, amphibian, and rodent models
The goal is to assess relevance of PFAS neurotoxicity to Alzheimer's disease. Role = PI. Total cost = $308,499.

R21AG068787 (Cannon, PI) 09/01/2020 – 05/31/2023 (NCE) 1.0 Summer
NIA/NIH $137,500

PFOS-induced dopaminergic neurodegeneration across nematode, amphibian, and rodent models
The goal is to advance understanding of PFAS neurotoxicity through comparative biology approaches. Role = PI. Total cost = $409,222.

1R01AG080917 (Bowman Yuan, and Zhang, mPIs) 09/22/2022 – 05/31/2027 0.23 Academic
NIA/NIH 0.07 Summer
Modeling functional genomics of susceptibility to the persistent effects of environmental toxins in an elderly rural Indiana neurodegenerative cohort
The goal is to advance understanding of how gene-environment interactions influence neurodegeneration in rural patients. Role = co-I. Total cost = 3,737,946, $264,306 to cannon lab.

PR21136 (PI, Little) 09/15/2022 – 09/14/2026 0.5 Academic
DOD $400,000 0.5 Summer
Role Of Comorbid Military-Relevant Stressors In Osteoarthritis. The goal is to investigate psychological stress-induced mechanisms of accelerated development of end-stage post-traumatic knee osteoarthritis (OA). Role = co-I. Total cost = $2,431,591, $363,735 to Cannon lab.

1937986 02/15/2020 - 01/31/2023 0.23 Summer
NSF (Webb, PI) $104,000
Super-resolution in vivo optical imaging as a window to Parkinson's disease pathogenesis. The goals are to identify and image novel pathogenetic mechanisms to PD. Role = co-I. Total cost = $400,000, ~$105,000 to Cannon lab.

SUBMITTED/PENDING

R01 ES025750-06A1 (Cannon, PI) 09/01/2022 – 08/31/2027 1.0 Academic
NIEHS/NIH $448,464 3.0 Summer
Mechanisms of PhIP-induced dopaminergic neurotoxicity
The major goals are to test whether the heterocyclic amine PhIP induces selective dopaminergic toxicity and determine mechanisms of action. Role: PI. Total cost = $3,011,066. Competitive renewal resubmitted on 03/21/2022; Impact = 32; Percentile = 18; awaiting post-council decision.

R01 ES035019 (Cannon and Foti - mPIs) 04/01/2023 – 03/31/2028 2.0 Summer
NIEHS/NIH ~$410,178
PFAS induced alterations in reward processing
The goal is to determine whether PFAS exposure may be a risk factor for anhedonia through translationally connected animal and human studies. Role = PI. Total cost = $3,050,037. Impact = 44; Percentile = 32. Will revise and resubmit.

R01ES035502 (Cannon, PI) 07/01/2023 – 06/30/2028 2.0 Academic
NIEHS/NIH $452,218 1.0 Summer
Neuromelanin modulation of heterocyclic aromatic amine neurotoxicity
The major goals are to determine how neuromelanin impact heterocyclic aromatic amine neurotoxicity and relevance to Parkinson's disease. Role: PI. Total cost = $3,030,924

RM1NS132973 [Bowman, Cannon, Huber (contact), Rajwa, Rochet – mPIs]

07/01/2023 – 06/30/2028 1.4 Academic

NINDS/NIH $1,193,696 1.0 Summer

Pathogenic mechanisms of the locus coeruleus-noradrenergic system underlying vocal communication deficits in PD. The goal is to identify the neuropathological correlates of vocal communication deficits that occur in Parkinson's disease, with a focus on damage to the locus coeruleus. Role = mPI, Total cost = 8,963,438.

PREVIOUS RESEARCH SUPPORT

No number (Rochet, PI) 07/01/2021-12/31/2022

Branfman Foundation

Neuroprotective efficacy of XJB-5-131 in rodent Parkinson's disease models.

The goal is to test a novel therapeutic approach in PD. Role = co-I. Total cost = $112,019, $60,071 to Cannon lab.

R03NS108229 (Rochet, PI) 05/15/2020-04/30/2022

NINDS/NIH

Role of endosulfine-alpha expression and phosphorylation in Parkinson's disease

The goal is to understand the neurobiology of endosulfine, relative to Parkinson's disease. Role: co_I. Total Cost = 155,000. $8,613 to Cannon lab.

R01ES025750 (Cannon, PI) 06/01/2016 – 05/31/2022 (NCE)

NIEHS/NIH

Mechanisms of PhIP-induced dopaminergic neurotoxicity

The major goals are to test whether the heterocyclic amine PhIP induces selective dopaminergic toxicity and determine mechanisms of action. Role: PI. Total cost = $1,683,647.

R01ES025750-S1 (Cannon, PI) 09/01/2018 – 05/31/2022 (NCE)

NIA,NIEHS/NIH

Mechanisms of PhIP-induced dopaminergic neurotoxicity – Alzheimer's disease supplement

The major goals are to test whether heterocyclic amines may produce neuropathology indicative of Alzheimer's disease. Role: PI. Total cost = $336,582

No Number (Cannon, PI) 07/01/2019 – 12/31/2021

Office of the Executive Vice President for Research and Partnerships, Purdue University

NIH Competing Renewal Program - Mechanisms of PhIP-induced dopaminergic neurotoxicity

The goal is to develop a novel animal model to elucidate mechanisms of heterocyclic amine neurotoxicity. Development of this model is expected to increase competitiveness of NIH applications. Total cost = $30,000.

No Number (Rochet, PI) 08/01/2019 - 12/31/2020
Branfman Family Foundation
Role of alpha-synuclein-mediated membrane permeabilization in the propagation of PD neuropathology
The goal was to determine how aSyn aggregates in Parkinson's disease. Role: co-I. Total cost = $101,638; $30,762 to Cannon Lab.

R21 NS105048 (Webb, PI) 10/01/2018 – 09/30/2021
NINDS/NIH
In Vivo Optical Imaging of Alpha-Synuclein Aggregation
This project entails the application of a high-resolution whole brain optical molecular imaging method to determine the pathogenic mechanism involved in the temporal and spatial development of Parkinson's disease (PD). Role = co-I. Total cost = $403,204, $48,614 to Cannon lab.

R21NS106319 (Tantama, PI) 09/15/2018 – 08/31/2020
NINDS/NIH
LRRK2 Kinase Activity and Mitochondrial Oxidative Stress
The goal was to utilize novel probes to image mitochondrial mechanisms of Parkinson's disease relevant neurodegeneration. Role = Co-I (Purdue site PI). Total cost = $424,301, $95,380 to Cannon.

No Number (Rochet, PI) 09/01/2018 - 08/31/2019
Branfman Family Foundation
Role of alpha-synuclein-mediated membrane permeabilization in the propagation of PD neuropathology
The goal is to determine how aSyn aggregates in Parkinson's disease. Role: co-I. Total cost = $50,000; $8,232 to Cannon Lab.

No number (Webb, PI) 05/01/2018 - 12/31/2018
NIH-targeted Funding Opportunities Initiative
Office of the Executive Vice President for Research and Partnerships, Purdue University
In Vivo Optical Imaging to Solve Mysteries of Parkinson's Disease
The major goal is to collect preliminary data for an extramural submission on novel imaging approaches to visualize Parkinson's disease pathology. Role: co-I. Total cost = $30,000. No direct funds to Cannon lab.

No Number (Rochet, PI) 06/01/2018 – 07/31/2019
Michael J. Fox Foundation
Neuroprotective effects of NFE2L1 in PD models
The goal is to test whether NFE2L1 modulation is protective in PD models.
Role: co-I. Total cost = $57,000. ~$3,000 to Cannon lab.
No Number (Rochet, PI) 11/01/2016 – 06/30/2019
Michael J. Fox Foundation
Neuroprotective effects of endosulfine-alpha in PD models
The goal is to test whether endosulfine-alpha alleviates aSyn-mediated neurodegeneration by inhibiting aSyn self-assembly at membrane surfaces. Role: co-I. Total cost = $66,706. $3,200 to Cannon lab.

No Number (Rochet, PI) 08/01/2015 - 01/31/2018
Branfman Family Foundation
Vesicle permeabilization associated with membrane-induced aSyn aggregation: Role in Parkinson's disease
The goal is to determine how aSyn aggregates in Parkinson's disease. Role: co-I. Total cost = $200,000; $41,989 to Cannon Lab.

No Number (Tantama, PI) 07/01/2015 – 06/30/2018
Showalter Trust
Imaging mitochondrial oxidative stress in Parkinson's disease
The major goal was to develop and test novel in vitro and in vivo probes for assessing PD-relevant oxidative stress. Role: co-I. Total cost = $75,000; $7,500 to Cannon lab.

No Number (Rochet, PI) 05/01/2015 – 12/31/2016
Purdue University, new R01 program
Membrane-induced aSyn aggregation in Parkinson's disease
The goal was to collect preliminary data on mechanisms of neurodegeneration for an R01 submission. Role: co-I. Total cost = $30,000; $7,500 to Cannon lab.

R03ES022819 (Cannon, PI) 01/17/2014 - 12/31/2016
NIEHS/NIH
PhIP-induced neurodegeneration: mechanisms and relevance to Parkinson's disease
The goal of this proposal was to preliminarily examine the neurotoxicity of PhIP. A major goal is to produce preliminary data for this more expansive R01 proposal to mechanistically examine PD-relevant neurotoxicity. Role: PI. Total cost = $154,000

No Number; The Michael J. Fox Foundation; 11/01/2012-10/31/2015; PI (Cannon)
Parkinson's and inflammatory bowel diseases: interaction in LRRK2 transgenic rats
The goal was to identify immunological links between Parkinson's disease and inflammatory bowel disease mediated by disease causing mutations in LRRK2. Total cost: $250,000

No number; Showalter Research Trust; 07/01/2013-06/30/2014; PI (Cannon)
Mechanisms of PhIP-mediated neurotoxicity and relevance to Parkinson's disease
The goal of this proposal is to preliminarily examine the neurotoxicity of PhIP and generate data for more expansive future studies. Total cost = $75,000

R00ES019879 (Cannon, PI) 02/10/2012 - 01/31/2017
NIH/NIEHS
New Approaches to Gene-environment Interaction Modeling in Parkinson's Disease
The major goals of the project were to develop and characterize new *in vivo* gene-environment interaction models of Parkinson's disease to identify new mechanisms of interactions and therapeutic targets. Role: PI. Total Cost = $783,978

No number; 08/01/2011-07/31/2013; PI (Cannon)
Phenotypic Characterization of BAC LRRK2 Transgenic Pre-clinical Models
The University of Pittsburgh (subcontract from Michael J. Fox Foundation to Greenamyre)
The main goals of this work were to characterize the behavioral, neurochemical, and pathological features of rats expressing LRRK2 mutations. Total cost: $95,900

1 K99 ES019879; 06/01/2011-02/09/2012; PI (Cannon)
NIEHS/NIH
New Approaches to Gene-environment Interaction Modeling in Parkinson's Disease
The purpose of this grant was to develop new-gene environment interaction models of PD and transition Cannon to an independent faculty position. Total cost: $90,000 utilized, $180,000 awarded (early transition to independence)
No number; 7/1/2008-12/31/2009; PI (Cannon)
Postdoctoral Fellowship, American Parkinson Disease Association, Inc.
Genetic and environmental interactions in Parkinson's disease: potential for new therapeutic pathways
The goal of this project was to develop and test gene-therapy vectors in the rotenone model of Parkinson's disease. Total cost: $35,000

T32 MH18273; 6/29/2007-6/30/2008; PI (Zigmond)
Institutional Training Grant, NIH
The purpose of this training grant was to support the trainee's postdoctoral training and research.

T32 ES07062; 9/1/2001-8/31-2005; PI (Richardson)
Institutional Training Grant, NIEHS
The purpose of this training grant was to support the trainee's doctoral training and research.

ACTIVE/PENDING SUPPORT FOR OTHER ACTIVITIES

ACTIVE

No number (Cannon, PI) 09/20/2019 – present
International Program and School of Health Sciences, Purdue University
Study Abroad Intercultural Learning (SAIL) Subsidy Grant
Neuroscience and Toxicology in Croatia
This grant reduces student costs for this study abroad. Total award = $10,666

No number (Cannon, PI) 07/01/2017 - present
Office of Interdisciplinary Graduate Programs
Discretionary funding for effort as Head of Purdue University Interdisciplinary Life Science Program (PULSe). Award: $3,750, year 1, $4,000 year 2; total to date = $7,750
Discretionary funding deposited to my research incentives account that I use to support new collaborative research initiatives.

SUBMITTED

No number (Cannon, PI) 10/30/2022 – 10/29/2023
International Program and School of Health Sciences, Purdue University
Study Abroad Intercultural Learning (SAIL) Subsidy Grant
Neuroscience and Toxicology in Croatia
This grant reduces student costs for this study abroad. Total award = $8,000

COMPLETED

No number (Cannon, PI) 07/01/2017 – 06/30/2022
Office of the Provost/Showalter Trust
Discretionary funding as *Showalter Faculty Scholar/University Faculty Scholar*. Total award = $50,000 ($10,000 dispersed/year)
Discretionary funding that I use to support new collaborative research initiatives.

No number (Cannon, PI) 09/20/2019 – 09/19/2020
International Program
Study Abroad Intercultural Learning (SAIL) Intercultural Pedagogy Grant (IPG)
Neuroscience and Toxicology in Croatia
This grant provides discretionary funding to add intercultural learning objectives to a study abroad. Total award = $2,000

No number (Cannon, PI) 09/24/2018 – 08/01/2019
International Program and College of Health and Human Sciences, Purdue University
Exploratory Study Abroad Intercultural Learning (SAIL) grant
Neuroscience and Toxicology in Croatia
This grant funds exploratory travel to Croatia to develop of a study abroad program focused on neuroscience and toxicology. Total award = $4,000

PUBLICATIONS

*Articles receiving published editorials or commentaries
#Figure chosen for cover art

Peer-reviewed publications

1. Sammi, S. R., Syeda, T., Conrow, K. D., Leung, M. C. K., and Cannon, J. R. (2022). Complementary biological and computational approaches identify distinct mechanisms of chlorpyrifos versus chlorpyrifos oxon induced dopaminergic neurotoxicity. *Toxicological sciences : an official journal of the Society of Toxicology* doi: 10.1093/toxsci/kfac114.
2. Cannon, J. (2022). Invited Perspective: Long-Lasting Legacy of Banned Contaminants in Alzheimer's Disease Etiology-Convergence of Epidemiological and Toxicological Findings. *Environmental health perspectives* **130**(8), 81303.
3. Brown-Leung, J. M., and Cannon, J. R. (2022). Neurotransmission Targets of Per- and Polyfluoroalkyl Substance Neurotoxicity: Mechanisms and Potential Implications for Adverse Neurological Outcomes. *Chemical research in toxicology* **35**(8), 1312-1333.
4. Sammi, S. R., Jameson, L. E., Conrow, K. D., Leung, M. C. K., and Cannon, J. R. (2022). Caenorhabditis elegans Neurotoxicity Testing: Novel Applications in the Adverse Outcome Pathway Framework. *Front Toxicol* **4**, 826488.
5. Syeda, T., and Cannon, J. R. (2022). Potential Role of Heterocyclic Aromatic Amines in Neurodegeneration. *Chemical research in toxicology* **35**(1), 59-72.
6. Adamson, S. X., Zheng, W., Agim, Z. S., Du, S., Fleming, S., Shannahan, J., and Cannon, J. (2021). Systemic Copper Disorders Influence the Olfactory Function in Adult Rats: Roles of Altered Adult Neurogenesis and Neurochemical Imbalance. *Biomolecules* **11**(9).
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8. Lawana, V., Um, S. Y., Foguth, R. M., and Cannon, J. R. (2020). Neuromelanin formation exacerbates HAA-induced mitochondrial toxicity and mitophagy impairments. *Neurotoxicology* **81**, 147-160.
9. Foguth, R., Sepulveda, M. S., and Cannon, J. (2020). Per- and Polyfluoroalkyl Substances (PFAS) Neurotoxicity in Sentinel and Non-Traditional Laboratory Model Systems: Potential Utility in Predicting Adverse Outcomes in Human Health. *Toxics* **8**(2).
10. Foguth, R. M., Hoskins, T. D., Clark, G. C., Nelson, M., Flynn, R. W., de Perre, C., Hoverman, J. T., Lee, L. S., Sepulveda, M. S., and Cannon, J. R. (2020). Single and mixture per- and polyfluoroalkyl substances accumulate in developing Northern leopard frog brains and produce complex neurotransmission alterations. *Neurotoxicology and teratology* **81**, 106907.
11. Syeda, T., Foguth, R. M., Llewellyn, E., and Cannon, J. R. (2020). PhIP exposure in rodents produces neuropathology potentially relevant to Alzheimer's disease. *Toxicology* **437**, 152436.
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14. Sammi, S. R., Foguth, R. M., Nieves, C. S., De Perre, C., Wipf, P., McMurray, C. T., Lee, L. S., and Cannon, J. R. (2019). Perfluorooctane Sulfonate (PFOS) Produces Dopaminergic Neuropathology in Caenorhabditis elegans. *Toxicological sciences : an official journal of the Society of Toxicology* **172**(2), 417-434, 10.1093/toxsci/kfz191.
15. Patel, S. H., Yue, F., Saw, S. K., Foguth, R., Cannon, J. R., Shannahan, J. H., Kuang, S., Sabbaghi, A., and Carroll, C. C. (2019). Advanced Glycation End-Products Suppress Mitochondrial Function and Proliferative Capacity of Achilles Tendon-Derived Fibroblasts. *Sci Rep* **9**(1), 12614, 10.1038/s41598-019-49062-8.
16. Foguth, R. M., Flynn, R. W., de Perre, C., Iacchetta, M., Lee, L. S., Sepulveda, M. S., and Cannon, J. R. (2019). Developmental exposure to perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) selectively decreases brain dopamine levels in Northern leopard frogs. *Toxicology and applied pharmacology* **377**, 114623, 10.1016/j.taap.2019.114623.
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20. Wise, J. P., Jr., Price, C. G., Amaro, J. A., Cannon, J. R., (2018). Autophagy Disruptions Associated With Altered Optineurin Expression in Extranigral Regions in a Rotenone Model of Parkinson's Disease. *Front Neurosci*. **12,** 289.
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24. #Sammi, S. R., Agim, Z. S., and Cannon, J. R. (2018). From the Cover: Harmane-Induced Selective Dopaminergic Neurotoxicity in Caenorhabditis elegans. *Toxicological sciences : an official journal of the Society of Toxicology* **161**(2), 335-348, 10.1093/toxsci/kfx223.

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Submitted

1. Sammi, S. R., Syeda, T., Foguth, R., and Cannon, J. (2022). Heterocyclic aromatic amines (HAAs) target mitochondrial physiology. *bioRxiv* doi: 10.1101/2022.03.17.484822, 2022.03.17.484822.

Book Chapters

1. Foguth, R., and Cannon, J. (2022). Emerging Contaminants as Contributors to Parkinsonism: Heterocyclic Amines. In Parkinsonism and the Environment (pp. 19-37. Springer.
2. Lawana, V., and Cannon, J. R. (2020). Rotenone Neurotoxicity: Relevance to Parkinson's Disease. *Advances in Neurotoxicology*; In *Neurotoxicity of Pesticides* (M. Aschner, and L. G. Costa, Eds.), Vol. 4. Elsevier. 209-254.
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EDITORIAL (inclusive of non-peer reviewed)

1. Volz, D. C., Cannon, J., and Tal, T. (2021). Introduction to leveraging non-mammalian models for developmental neurotoxicity testing. In (Vol. 87, pp. 107001.

ABSTRACTS

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2. Sammi, S. R., Cannon, J. R., 2022. Mitochondrial Targets of Perfluorooctane Sulfonic Acid (PFOS)-Mediated Neurotoxiciy. The Toxicologist. 186**,** 3071.
3. Brown, J. M., Syeda, T., Cannon, J. R., 2022. Perfluorooctanesulfonic Acid (PFOS)-Induced Catecholaminergic Neurotransmission Changes in Female Mice. The Toxicologist. 186**,** 3074.
4. Rubinchik, A. B., Tukker, A. M., Sammi, S. R., Cannon, J. R., Bowman, A. B., 2022. Chlorpyrifos and Chlorpyrifos-Oxon Exposure Leads to the Dysregulation of Basal Glutamate Release in Human-Induced Pluripotent Stem Cell-Derived Glutamatergic Neurons. The Toxicologist. 186**,** 3854.
5. Jameson, L., Rivera, A., Conrow, K., Pinhasova, N., Jourabchin, S., Johnson, A., Davis, A., Wiegers, T., Sammi, S., Mattingly, C., Afia, I., Orser, I., Cannon, J., Leung, M., 2022. Mechanism of Neurological Hazards from Insecticide Exposure in Cannibus The Toxicologist. 186**,** 3861.
6. Sammi, S. R. , Syeda, T., Cannon, J. R., 2021. Chlorpyriphos and Chlorpyriphos-Oxon Produce Dopaminergic Toxicity in C. elegans. The Toxicologist. 180**,** 2653.
7. Syeda, T., Min, S., Rochet, J. C., Cannon, J. R., 2021. Heterocyclic Aromatic Amines Promote Protein Aggregation and Induce Alzheimer's Disease-Relevant Neurotoxicity. The Toxicologist. 180**,** 2655.
8. Brown, J. M., Hoskins, T. D., Foguth, R. M., Syeda, T., Perez, M. S., Sepulveda, M. M., Cannon, J. R., 2021. Characterization of the Gray Tree Frog (Hyla versicolor) as a Potential Model for Developmental Neurotoxicity. The Toxicologist. 180**,** 2436.
9. Foguth, R., Hoskins, T. D., Clark, G. C., Nelson, M., de Perre, C., Lee, L., Sepulveda, M. M., Cannon, J. R., 2020. Effects of Developmental Exposure to Perfluoroalkyl Substances on Brain and Heart Innervation in Northern Leopard Frogs. The Toxicologist. 174**,** 2439.
10. Lawana, V., Um, S., Chandran, A., Shannahan, J. H., Cannon, J. R., 2020. Mitochondrial and Autophagolysosomal Dysfunction Induced by Heterocyclic Aromatic Amine Exposure Is Modulated by Neuromelanin Formation. The Toxicologist. 174**,** 1450.
11. Sammi, S. R., Nieves, C. S., Cannon, J. R., 2020. Mitochondrial Mechanisms of Harmane-Induced Dopaminergic Neurotoxicity in C. elegans. The Toxicologist. 174**,** 1442.
12. Syeda, T., Foguth, R., Cannon, J., 2020. PhIP Exposure: Alzheimer's Disease Relevant Neurotoxicity. The Toxicologist. 174**,** 1429.
13. Lawana, V., Um, S. Y., Shannahan, J., Cannon, J. R., 2019. The potential role of neuromelanin in modulating heterocyclic amine-induced dopaminergic neurotoxicity. Gordon Research Conference, Parkinson's disease: Pathogenesis, Pathophysiology and Experimental Therapeutics in Parkinson's Disease.
14. Syeda, T., Foguth, R., Cannon, J., 2020. PhIP Exposure: Alzheimer's Disease Relevant Neurotoxicity. The Toxicologist. 174**,** 1429.
15. Sammi, S. R., Cannon, J. R., 2019. PFOS produces selective dopaminergic neurotoxicity in C. elegans. Gordon Research Conference, Parkinson's disease: Pathogenesis, Pathophysiology and Experimental Therapeutics in Parkinson's Disease.
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18. Chandrasekaran, C., Montenegro-Larrea, P. C., Hensel, J., Dutta, S., Faggiani, E., Acosta, G., Herr, S., Tang, J., Shi, R., Dehay, B., Bezard, E., Cannon, J., Rochet, J. C., 2019. Effects of the alpha-synuclein-interacting protein endosulfine-alpha on PD-related neuropathology. Cerebbral Symposium, Purdue University. 04.

19. Foguth, R. M., Flynn, R. W., Sepulvada, M. S., Cannon, J. R., 2019. Developmental exposure to PFOS and PFOA produces selective dopamine decreases in Northern leopard frogs. Cerebbral Symposium, Purdue University 03.
20. Syeda, T., Foguth, R. M., Cannon, J. R., 2019. Systemic PhIP exposure produces neurotoxicity of potential that is relevant to Alzheimer's disease. Annual Meeting of the Greater Indiana Society for Neuroscience. 2, 42.
21. Sammi, S. R., Cannon, J. R., 2019. PFOS produces selective dopaminergic neurotoxicity in C. elegans. Annual Meeting of the Greater Indiana Society for Neuroscience. 2, 38.
22. Lawana, V., Um, S. E., Shannahan, J., Cannon, J., 2019. The potential role of neuromelanin in modulating heterocyclic amineinduced dopaminergic neurotoxicity. Annual Meeting of the Greater Indiana Society for Neuroscience. 1**,** 49.
23. Sammi, S. R., Cannon, J. R., 2019. Perfluorooctanesulfonic Acid (PFOS) Is Selectively Neurotoxic to Dopaminergic Neurons in C. elegans. The Toxicologist. 168**,** 1722.
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PRESS

"DO 'FOREVER CHEMICALS' PFOS AND PFOA SAP DOPAMINE?" *Futurity*. February 5th, 2020. https://www.futurity.org/pfos-pfoa-forever-chemicals-2272732-2/

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INVITED PRESENTATIONS/SESSION LEADERSHIP

02/01/2023 "*Adverse neurological outcomes of PFAS-induced monoamine alterations*", Department of Environmental Sciences, University of California, Riverside

11/18/2022 "*Critical roles of neuromelanin in the neurobiology and neurotoxicology of Parkinson's disease*", Department of Anatomy and Neurobiology, Virginia Commonwealth University

09/21/2022 "*Translational impact of neurotoxicant-neuromelanin interactions critical to catecholaminergic neurotoxicity*", Department of Environmental Medicine, University of Rochester.

07/03/2022 "*Role of environmentally induced mitophagy alterations in neurodegeneration*", invited speaker at: Inflammation and Proteinopathy in ALS FTD spectrum Disorder, Joint International Center for Genetic Engineering and Biotechnology (ICGEB) and ALS Society of Canada meeting, Rijeka, Croatia.

07/03/2022 Session Chair, Awarded Young Researcher Talks and Online Selected Speed Talks at: Inflammation and Proteinopathy in ALS FTD spectrum Disorder, Joint International Center for Genetic Engineering and Biotechnology (ICGEB) and ALS Society of Canada meeting, Rijeka, Croatia.

10/01/2021 "*Linking primary mechanisms of environmentally induced neurotoxicity to human neurological disease relevance*", Health and Environmental Sciences Institute (HESI)/Combined Interdisciplinary and Translational Expertise (CITE) Keynote Lecture at EUROTOX 2021

10/01/2021 "*Translation of mechanistic data into in vivo systems to predict risk for neurodegeneration*", Symposium entitled "*Predictive systems to identify etiological factors and pathogenic mechanisms of neurodegeneration*"; served as co-Chair, EUROTOX 2021

06/17/2021 "*C elegans neurodegeneration/neurotoxicity assays*", Neurotoxicity Technical Working Group, Botanical Safety Consortium (BSC), Health and Environmental Sciences Institute (HESI)

01/19/2021 "*C elegans in neurotoxicity screening*", Neurotoxicity Technical Working Group, Botanical Safety Consortium (BSC), Health and Environmental Sciences Institute (HESI)

02/15/2020 "*Neurodegenerative diseases: identifying risk factors and new treatments*", Purdue President's Council, Back to Class, Naples, FL

02/07/2020 "*Mechanisms of environmentally induced neurodegeneration*". Purdue University Center for the Environment; Chemical Exposures Signature Research Area Lunch Group Meetings

01/31/2020 "*Per- and polyfluoroalkyl substances (PFAS) neurotoxicity in laboratory and sentinel models*". Department of Biomedical Sciences, Grand Valley State University

11/06/2019 "*Mechanisms of heterocyclic aromatic amine-induced dopaminergic neurotoxicity*". Department of Molecular pharmacology & Neuroscience, Loyola University

10/03/2019 Chair, Session at the 2019 International Neurotoxicology Association Meeting. Entitled, "*Immune dysregulation as a primary mechanism of early neurotoxicity – relevance to disease*". Individual talk entitled, "*Interactions between neuroinflammation and mitophagy in Parkinson's disease models*".

04/11/2019 "*Environmentally-induced Parkinson's disease: unique features and overlap with other neurodegenerative diseases*", Department of Biotechnology, University of Rijeka

04/08/2019 "*Parkinson's disease: environmental factors and pathogenic mechanisms*", Croatian Institute for Brain Research and Croatian Society for Neuroscience, University of Zagreb

04/08/2019 "*Neurotoxicity of per- and polyfluoralkyl substances (PFAS)*", Institute for Medical Research and Occupational Health and Croatian Society of Toxicology, University of Zagreb

06/14/2018 "Neurotoxicity of Dietary Heterocyclic amines and potential relevance to Parkinson's disease", Department of Pharmacological and Biomolecular Sciences, University of Milan

06/11/2018 "*Neurotoxicity of Heterocyclic Amines: Potential Relevance to Parkinson's Disease*", Plenary Speaker, World Summit on Toxicology, Rome, Italy

06/04/2018 "*Neurotoxicity of Heterocyclic Amines*", Department of Pharmacology and Toxicology, Michigan State University

03/14/2018 "*Potential for Autophagy as a Primary Mechanism of Environmentally-Induced Neurodegeneration*", Symposium at 2018 Annual Society of Toxicology Meeting – "*Mechanisms of Autophagic Function and Dysfunction in Neurotoxicity and Neurodegeneration*"

03/05/2018 "*Dopaminergic neurotoxicity of heterocyclic amines*", Environmental Toxicology Department, University of California, Davis

01/09/2018 "*Heterocyclic amine-induced dopaminergic neurotoxicity*", Graduate Seminar, School of Health Sciences, Purdue University

12/16/2017 "*Neurotoxicology of Heterocyclic Amines*", Department of Environmental Health Sciences and Brain Behavior & Environment-FIU Emerging Preeminent Program, Florida International University

05/18/2017 "*Identification of new etiological factors and new targetable mechanisms in Parkinson's disease*", *Inaugural Retreat, Purdue Institute for Integrative Neuroscience*, Saint Joseph, MI

03/24/2017 "*Environmental and mechanistic Investigations of Early-stage Parkinson's Disease*", Center for Urban Responses to Environmental Stressors, Institute of Environmental Health Sciences, Wayne State University

09/09/2016 *"Optineurin in preclinical to end-stage Parkinson's disease models"*, Department of Pharmaceutical Sciences Seminar Series, Northeast Ohio Medical University

07/13/2016 "*Mechanisms of environmentally-induced dopaminergic neurodegeneration*", NeuroNetworking, Purdue Institute for Integrative Neuroscience.

03/14/2016 Chair, Workshop at the 2016 Society of Toxicology Annual Meeting. Entitled, "*Dietary exposures to heterocyclic amines as a potential risk factor for neurological disease*". Individual talk entitled, "*PhIP exposure and dopaminergic neuron toxicity*".

02/05/2016 "*Developmental TCE exposure and Parkinson's disease*", P42 External Advisory Team and Members of the P42 team.

01/25/2016 "*Behavioral Core at Purdue: Some Possibilities*", Integrative Neuroscience Center Kickoff, Purdue University

12/12/2015 "*Dr. Schallert's Legacy in One LAB: How Lesioned Rats Behave and…How Scientists Should Behave*", SchallertFest, Symposium honoring Dr. Tim Schallert, University of Texas at Austin

03/31/2015 *"Environmentally-induced dopaminergic neurotoxicity"*, Medicinal Chemistry & Molecular Pharmacology Seminar Series, Purdue University

02/06/2015 *"Environmental mechanisms of Parkinson's disease*", College of Health and Human Sciences Dean's Visit, School of Health Sciences Faculty Meeting.

01/23/2015 *"Training for Success: Getting the Most Out Of Your Ph.D. and Postdoctoral Fellowship"*, Exposure to Mixtures and the Exposome Symposium, Department of Environmental Health Sciences, The University of Michigan

11/19/2014 "*Development and utilization of preclinical models of Parkinson's disease*", Behavioral Neuroscience Seminar, Department of Psychological Sciences, Purdue University

11/04/2014 "Dietary factors in the development of Parkinson's disease", Confronting Our Environmental Health Risks, Ted^{x}PurdueU

09/17/2014 "*PhIP-mediated Neurotoxicity and Relevance to Parkinson's Disease*", Showalter Selection Committee Annual Purdue Meeting

04/05/2014 "*Neurodegeneration, Neurotoxicity, Gene-Environment Interactions*", Purdue Student Pugwash, Midwest Regional Conference

03/26/2014 "*Accumulation of Manganese in Substantia Nigra and Alterations in Brain Neurochemistry following Subchronic Manganese Exposure in Rats*", 2014 Society of Toxicology Annual Meeting, Workshop Session - Is Manganese-Induced Parkinsonism Mediated via Dopamine Neuron Degeneration or Dysfunction?

02/21/2014 "*The Role of Aging in Susceptibility to Neurotoxic Exposures and Neurodegenerative Diseases*". Center on Aging and the Life Course Colloquium, Purdue University

10/17/2013 "*Parkinson's and inflammatory bowel diseases: interaction in LRRK2 transgenic rats*". The Michael J. Fox Foundation, LRRK2 Awardee Meeting, New York, NY, USA.

09/27/2013 "*Neurotoxicity of 2-Amino-1-methyl-6-phenylimidazo [4,5-b]pyridine (PhIP)*", Department of Biological Sciences, Duquesne University

03/29/2013 "Neurotoxicity of 2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine (PhIP)". Biochemistry Seminar Series, Purdue University

09/25/2012 "*The Role of Alpha-Synuclein in Gene-Environment Interactions: Pathogenesis and Protection in Parkinson's Disease*". Purdue School of Health Sciences Seminar: HSCI 696.

09/18/2012 *"Potentiation and Protection in Gene-Environment Model of Parkinson's Disease"*. Molecular, Cellular and Integrative Neuroscience Program Seminar, Colorado State University, Fort Collins, CO, USA.

05/18/2012 *"Modeling gene-environment interactions in Parkinson's disease"*. Midwest Regional Chapter, Society of Toxicology, Chicago, IL, USA. Spring, 2012 meeting.

01/31/2012 "Neurotoxicant, genetic, and gene-environment interaction models of Parkinson's disease". Purdue School of Health Sciences Seminar: HSCI 696.

08/11/2011 *"Transgenic rats expressing Parkinson's disease genes: characterization and toxicant sensitivity"*. Gordon Research Conference, Cellular & Molecular Mechanisms of Toxicity Understanding Innovative Mechanistic Toxicology in the Post-Genomic Era

05/08/2009 "*Modeling Parkinson's disease: systems to test gene-environment interactions*", 22nd Annual Spring Meeting, Allegheny-Erie Society of Toxicology, Morgantown, WV, Host: Nicolas A. Stewart, Ph.D., President of AESOT, Research Instructor, University of Pittsburgh, Center for Clinical Pharmacology

09/05/2007 "*Improving the rotenone model*", Data Club, Pittsburgh Institute for Neurodegenerative Diseases

04/13/2006 "*Mechanisms of thrombin preconditioning in a 6-hydroxydopamine model of Parkinson's disease*", National Institute on Drug Abuse Training Program, The University of Chicago, Host: Un Jung Kang, M.D., Associate Professor of Neurology

04/03/2006 "*Mechanisms of thrombin preconditioning in a 6-hydroxydopamine model of Parkinson's disease*", Laboratory Meeting of Wei Zheng, Ph.D., Professor and University Faculty Scholar, School of Health Sciences, Purdue University

12/20/2005 "*Thrombin preconditioning, PARs and Parkinson's disease*", Neurosurgery Laboratory Conference, University of Michigan

12/14/2004 "*Protease-activated receptor-1 activation mediates the protective effects of thrombin preconditioning in a model of Parkinson's disease*", Current Topics in Toxicology, EHS 728, The University of Michigan, School of Public Health

01/27/2004 "*Thrombin preconditioning provides protection against 6-OHDA*". Current Topics in Toxicology, EHS 728, The University of Michigan, School of Public Health

03/18/2003 "*Neuroprotection in Animal Models of Parkinson's Disease*", Current Topics in Toxicology, EHS 728, The University of Michigan, School of Public Health

02/11/2003 "*Thrombin preconditioning in a 6-OHDA Parkinson's disease model*", Neurosurgery Laboratory Conference, University of Michigan

EXTERNAL CONSULTING

07/2022- Expert Witness, BUNGER & ROBERTSON. Services to date: initial discussion on delta-8 tetrahydrocannabinol (THC) – formulation, detection, adverse effects; especially in relation to how contamination and use may relate to assault.

05/2021-08/2021 Expert Witness, CIYOU & DIXON, P.C.; Analytical toxicology expertise relative to screen results for drugs of abuse. Services included: drug screen results review; literature review; determination of likelihood of use cessation relative to urine, oral fluid, and hair (head and body) screen results; determination of whether video evidence of alleged drug use was supported by screen data; pre-trial conferences with attorneys and clients; expert testimony in court on 08/19/2021 on the above items and also adverse effects during cross-examination. Case No. 53C04-1601-DR-000031; Monroe County Circuit Court VI, Indiana.

11/2020-04/2022 Expert witness. Perkins Coie/Winston & Strawn/Boeing. Services included: complaint review; expertise on neurotoxicology relevant to possible etiology of an amyotrophic lateral sclerosis case; literature review; medical and scientific records review; plaintiff deposition review; plaintiff disclosure review; pre-trial conferences; development and submission of expert witness scientific report; deposition; trial slide development and input; and mock direct and cross examinations. Case settled prior to trial. Case No. 18 L 8347; Circuit Court of Cook County, Illinois.

04/2019 GLG Group. Provided consultation on biomarkers of exposure and neurodegenerative disease development.

05–06/2017 Expert witness. Lewis & Brisbois/Womble Carlyle Sandridge & Rice [*now Womble Bond Dickinson*]/Goodyear Tire and Rubber Company. Provided expertise on neurotoxicology relevant to possible etiology of an amyotrophic lateral sclerosis case. Services included: complaint review; pretrial consultation, and preparation as an expert witness. Case settled prior to trial. Case No. 15CV2760; County of Multnomah, Circuit Court for the State of Oregon.

TEACHING

Classroom:

2023

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Biochemical Toxicology[a]	HSCI562	2	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
PULSe Lab Rotations[a]	GRAD590	2	PULSe Head	Spring
PULSe Dissertation Res (1st year)[a]	GRAD699	6	PULSe Head	Spring

[a] Instructor of record

2022

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Analytical Tox and Path[a]	HSCI562	3	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
PULSe Lab Rotations[a]	GRAD590	2	PULSe Head	Spring
PULSe Dissertation Res (1st year)[a]	GRAD699	6	PULSe Head	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
Neuroimmunology[d]	EBIL164	3	Guest Lecturer	Summer
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
PULSe Lab Rotations[a]	GRAD590	2	PULSe Head	Fall
PULSe Dissertation Res (1st year)[a]	GRAD699	6	PULSe Head	Fall
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Fall
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall
Toxicology[b]	HSCI560	3	Guest lecturer	Fall

[a] Instructor of record

[b] Delivered 2 lectures

[c] Delivered 1 lecture

[d]Delivered 2 lectures to 4th year undergraduates and masters students in the Department of Biotechnology at the University of Rijeka, Croatia.

2021

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Biochemical Toxicology[a]	HSCI671	2	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
PULSe Lab Rotations	GRAD590	2	PULSe Head	Spring
PULSe Dissertation Res (1st year)	GRAD699	6	PULSe Head	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Toxicology[b]	HSCI560	3	Guest lecturer	Fall
PULSe Lab Rotations[a]	GRAD590	2	PULSe Head	Fall
PULSe Dissertation Res (1st year)[a]	GRAD699	6	PULSe Head	Fall
Health In The Time Of Pandemics:	PUBH202	3	Guest Lecturer	Fall

An Introduction[c]				
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall

[a] Instructor of record
[b] Delivered 2 lectures
[c] Delivered 1 lecture

2020

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Analytical Tox and Path[a]	HSCI562	3	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
PULSe Lab Rotations[a]	GRAD590	2	PULSe Head	Spring
PULSe Dissertation Res (1st year)[a]	GRAD699	6	PULSe Head	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Toxicology[b]	HSCI560	3	Guest lecturer	Fall
PULSe Lab Rotations[a]	GRAD590	2	PULSe Head	Fall
PULSe Dissertation Res (1st year)[a]	GRAD699	6	PULSe Head	Fall
Health In The Time Of Pandemics:	PUBH202	3	Guest Lecturer	Fall
An Introduction[c]				
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall

[a] Instructor of record
[b] Delivered 2 lectures
[c] Delivered 1 lecture

2019

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Biochemical Toxicology[a]	HSCI671	2	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
PULSe Lab Rotations	GRAD590	2	PULSe Head	Spring
PULSe Dissertation Res (1st year)	GRAD699	6	PULSe Head	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
(PET) training programme[d]			Guest Lecturer	Spring
PULSe Lab Rotations	GRAD590	2	PULSe Head	Fall
PULSe Dissertation Res (1st year)	GRAD699	6	PULSe Head	Fall
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Toxicology[b]	HSCI560	3	Guest lecturer	Fall
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall
Neurol & Neuropsych Dis Seminar[c]	BIOL695	2	Guest lecturer	Fall

[a] Instructor of record
[b] Delivered 2 lectures
[c] Delivered 1 lecture

[d]Developed one electronic lecture, entitled, "*Neurodegenerative effects of toxic metals*" for the Postgraduate Education in Toxicology (PET) training programme offered by the Netherlands Society of Toxicology for registration as a professional expert in toxicology (European Registered Toxicologist, ERT). The aim of this course is to familiarize participants with consequences of neurotoxicity, mechanisms of neurotoxicity and neurotoxicity testing methods. The course will consist of e-lectures and webinars that allow for offsite participation as well as (active) classes that require physical attendance of participants for 3 days. As the course will be accredited by Eurotox, it will be accessible for participants from across Europe. It is expected to be accessible for participants worldwide.

2018

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Analytical Tox and Path[a]	HSCI562	3	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
PULSe Lab Rotations	GRAD590	2	PULSe Head	Spring
PULSe Dissertation Research (1st year)	GRAD699	6	PULSe Head	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Toxicology[b]	HSCI560	3	Guest lecturer	Fall
Neurol & Neuropsych Dis Seminar[c]	BIOL695	2	Guest lecturer	Fall
PULSe Lab Rotations	GRAD590	2	PULSe Head	Fall
PULSe Dissertation Research (1st year)	GRAD699	6	PULSe Head	Fall

[a] Instructor of record

[b] Delivered 2 lectures

[c] Delivered 1 lecture

2017

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Biochemical Toxicology[a]	HSCI671	2	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
Toxicology[b]	HSCI560	3	Guest lecturer	Fall
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall
PULSe Lab Rotations	GRAD590	2	PULSe Head	Fall
PULSe Dissertation Research (1st year)	GRAD699	6	PULSe Head	Fall

[a] Instructor of record

[b] Delivered 2 lectures

[c] Delivered 1 lecture

2016

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Analytical Tox and Path[a]	HSCI562	3	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall
Toxicology[d]	HSCI560	3	Guest lecturer	Fall

[a] Instructor of record
[b] Delivered 2 lectures
[c] Delivered 1 lecture
[d] Delivered 3 lectures

2015

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Biochemical Toxicology[a]	HSCI671	2	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
Principles of Public Health Science[b]	HSCI201	3	Guest Lecturer	Spring
Toxicology[c]	HSCI560	3	Guest lecturer	Fall
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Intro Occupat&Environ Health Sci[b]	HSCI345	2	Guest Lecturer	Fall

[a] Instructor of record
[b] Delivered 1 lecture
[c] Delivered 3 lectures

2014

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Analytical Tox and Path[a]	HSCI562	3	Course Master	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
Principles of Public Health Science[b]	HSCI201	3	Guest Lecturer	Spring
Freshman Scholars Project Seminar[b]	HSCI195	1	Guest Lecturer	Fall
Intro Occupat&Environ Health Sci[c]	HSCI345	2	Guest Lecturer	Fall
HSCI Graduate Seminar[a]	HSCI696	1	Guest lecturer	Fall
Toxicology[d]	HSCI560	3	Course Master	Fall

[a] Instructor of record
[b] Delivered 1 lecture
[c] Delivered 2 lectures
[d] Delivered 3 lectures

2013

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
Analytical Tox and Path[a]	HSCI562	3	Course Master	Spring
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Spring
Intro to Environmental Health[b]	HSCI575	3	Guest Lecturer	Spring
Toxicology[a]	HSCI560	3	Course Master	Fall
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Intro Occupat&Environ Health Sci[b]	HSCI345	2	Guest Lecturer	Fall
Special Lectures in Neuroscience	BIOL695	2	Instructor	Fall
Freshman Scholars Project Seminar[c]	HSCI195	1	Guest Lecturer	Fall

[a] Instructor of record

[b] Delivered 2 lectures

[c] Delivered 1 seminar

2012

Course Description	*Course Code*	*Credit*	*Role*	*Semester*
HSCI Graduate Seminar[a]	HSCI696	1	Course Master	Fall
Toxicology[b]	HSCI560	3	Guest Lecturer	Fall

[a] Instructor of record

[b] Delivered 2 lectures

2011 *Survival Skills and Ethics Workshop on Grant Writing*, University of Pittsburgh, Discussion leader, Ethics over lunch Session

2004 ENVIRON 310/NRE 310, *Environmental Chemicals and Disease*, 3.0 hrs, School of Natural Resources and Environment, University of Michigan, 1 lecture

1999 Physiology 475, *Capstone Laboratory in Physiology,* 2.0 hrs, Department of Physiology, Michigan State University, Teaching Assistant

Mentorship:

Postdoctoral Fellows, as Primary Mentor

Vivek Lawana, Ph.D. (Iowa State University) 01/2019-11/2019
Current position: Toxicology Study Director, American Preclinical Services, Minneapolis, MN

Syeda Tauqeerunnisa begum, Ph.D. (The Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico City, Mexico) 11/2018-present

Shreesh Raj Sammi, Ph.D. (Life Sciences CSIR-Central Drug Research Institute, Lucknow, India) 11/2016- 01/2023. Current position: Assistant Professor, Department of Translational Neuroscience, Michigan State University.

Amy Griggs, Ph.D. (Chemistry, Purdue University) 12/2012-5/2013
Current Position: Clinical Scientist, Cook MED Institute, West Lafayette, IN

Jang-Won Lee, Ph.D. (Toxicology, UC Davis) 04/2012-12/2014
Current position: Assistant Professor, Graduate School of Integrated Bio-industry, Sejong University, Seoul, Korea

Changhe Xiao, Ph.D. (Chemistry, Rutgers University) 01/2012-10/2012
Current Position: Sr. Chemist, Medtronic, Minneapolis, MN

Doctoral Students, as Major Professor

Josephine Brown, predoctoral student, Toxicology (M.S., Toxicology, University of Cincinnati) 08/2020-present

Emily K. McDonald, predoctoral student, Integrative Neurosciences and Toxicology (B.S., Biochemistry, Purdue University) 04/2018-09/2018
Current position: Decided to withdraw from Ph.D. study for family reasons.

Rachel M. Foguth, predoctoral student, Integrative Neurosciences and Toxicology (B.S., Biochemistry, Benedictine College) 04/2016-10/2020 (Graduation, 12/2020)
Current position: Regulatory Scientist, Cook Biotech, West Lafayette, IN

Johnny P. Wise, Jr., predoctoral student, Toxicology (B.S., Biology, University of Southern Maine) 08/2013-6/2018
Current position: Assistant Professor, Pediatric Research Institute, Department of Pediatrics, University of Louisville

Zeynep Sena Ağim, predoctoral student, Integrative Neurosciences and Toxicology (M.Sc., Molecular Biology and Genetics, Boğaziçi University, Turkey) 04/2013-12/2017
Current position: Postdoctoral fellow, University of Massachusetts, Worcester

Masters Students, as Major Professor

Angela Cruz-Hernandez, M.S. – thesis, Toxicology (B.A., Chemistry, Florida International University) 08/2015 – 05/2017.
Current position: Ph.D. student (toxicology) at the University of Colorado.

Menghan Liu, M.S. – non-thesis, Toxicology (B.S., Biology, Purdue University) 08/2013-05/2015
Current position: Statistical Analyst, Fred Hutchinson Cancer Research Center

Xindi Ding, M.S. – non-thesis, Toxicology (B.S., Public Health, Capital Medical University, China) 08/2013-05/2015. Current position: Medical Science Liaison at Janssen Inc., Beijing City, China

Visiting Scholars, as site Mentor

Fatema Currim, Ph.D. Student at MS University of Baroda, India. Overseas Visiting Doctoral Fellowship (OVDF) Program, Purdue and India's Science and Engineering Research Board

(SERB). Mentor – Mentee team amongst 25/127 applicants chosen.

Purdue School of Health Sciences Undergraduate Honors Program (as research mentor):
Lorraine Prevost, 2021-present
Krista Snyder, 2021
Claudia Nieves, 2018-2020
Niharika Kaul, 2016-2018
Charles Price, 2016-2020. Med Student, IU School of Medicine
Morgan Kramer, 2014-2016
Joey Amaro, 2013-2017
Samantha Watson, 2012

Additional undergraduate researcher mentorship (Purdue University, unless otherwise noted)

2020-	Leah Van Zant, Biology, Purdue University
2020-	Hannah Welp, Biology, Purdue University
2020-	Alexis Wazniak, Biology, Purdue University
2020-	Mia Utayde, Biology, Purdue University
2019-	Hannah Welp, Biology
2019	Se Young Um, Biology
2019	Claudia Nieves, Purdue University, Purdue Summer Research Opportunities Program
2019	Georgia 'Cali' Clark, Morehead State University, Purdue Summer Research Opportunities Program. Recently Accepted to the University of Kentucky Medical School.
2019	Emily Llewellyn, Utah Valley University, Purdue Summer Research Opportunities Program
2018-2019	Madison Nelson, Health Sciences, Pre-med. Accepted to Lincoln Scholars Program. Doctor of Medicine track for Southern Illinois University School of Medicine.
2018-2020	Benjamin Clarke, Health Sciences, Pre-med.
2017	Bahati Nkera, University of Massachusetts, Purdue Summer Research Opportunities Program
2016	Mariella A Mestres Villanueva, University of Puerto Rico, Purdue Summer Research Opportunities Program. Current position: Ph.D. student at Ohio State University
2016	Erika Kischuk, Summer Internship Student, DePauw University
2016-2018	Eva Yezerets. Biomedical engineering
2015	Nickolas Anderson, Chemistry undergraduate student (Boston University)
2014	Saerom Kim, Chemistry undergraduate student
2013	Kyung-Min Lee, Pharmacy undergraduate student
2013-2014	Ker Ming Chew, Biochemistry undergraduate student
2013-2015	Adam Horin, Biology undergraduate student
2012	Vasin Dumrongprechachan, Health Sciences undergraduate student
2012	Monica Bomber, Biochemistry undergraduate student

Laboratory rotations

Purdue University Interdisciplinary Life Sciences Ph.D. Program/Toxicology

2020	Josephine Brown (Toxicology)
2018	Emily Malek (Integrative Neuroscience)
2018	Yiming Miao (Integrative Neuroscience)
2017	Chandnee Chandrasekaran (Integrative Neuroscience)
2017	Jennifer Hensel (Integrative Neuroscience)
2016	William Saloom (Integrative Neuroscience)
2016	Cynthia Alvarado (Integrative Neuroscience)
2016	Lisa Kobos (Toxicology)
2015	Rachel Foguth (Integrative Neuroscience)
2013	Sasha Vega Alvarez (Integrative Neuroscience)
2013	Marcus Weera (Integrative Neuroscience)

2013 Zeynep Sena Agim (Integrative Neuroscience)

University of Pittsburgh
2010 Paras Minhas, Neuroscience undergraduate/GA medical (University of Pittsburgh)
2010-2011 Salik Malik, Biological Sciences undergraduate student (University of Pittsburgh)
2008-2011 Laura Montero B.S. (West Virginia University), Technician
2008 Rupali Kumar, Neuroscience undergraduate student (University of Pittsburgh)
2008 Jayesh Madrecha, Neuroscience undergraduate student (University of Pittsburgh)
2008-2011 Nestor Tomycz, M.D., (University of Pittsburgh)
2009-2011 Thomas Sew, Neuroscience undergraduate student (University of Pittsburgh)

Awards won by students/postdocs while being mentored by Cannon:

Utayde, Mia
- 3rd Place poster at the Spring Undergraduate Research Conference, Office of Undergraduate Research, Purdue University, 2022

Brown, Josephine
- 1st Place Poster Presentation (Toxicology). 3rd HSCI Annual Research Retreat, 2022

Sammi, Shreesh
- Postdoctoral Travel Grant, Purdue Postdoctoral Association, 2018
- Abstract chosen for oral presentation at the Society of Toxicology Annual Meeting. 2019 Scientific Program Committee Highlights Emerging Scientists: Adverse effects of Perfluorinated Alkyl Substances
- Postdoctoral Supplemental Travel Grant, Purdue Postdoctoral Association, 2019
- 3rd place in the Society of Toxicology, Neurotoxicology Specialty Section Poster Competition, 2019
- 3rd place, Postdoctoral Research Blitz Presentation, 2019 Purdue School of Health Sciences Retreat.
- Neurotoxicology Specialty Section (NTSS) Narahashi Travel Award to the Society of Toxicology (SOT) 2020 meeting
- 2rd place in the Society of Toxicology, Neurotoxicology Specialty Section Postdoctoral Poster Competition, 2020
- NIH/NIEHS Pathway to Independence Award (K99/R00), 2021-2026

Vivek Lawana
- 2nd place, Postdoctoral Research Blitz Presentation, 2019 Purdue School of Health Sciences Retreat.

Tauqeerunnisa Syeda
- 1st place, Postdoctoral Research Blitz Presentation, 2019 Purdue School of Health Sciences Retreat.

Foguth, Rachel
- 2018 Travel Grant, Purdue Institute for Integrative Neuroscience – to SOT 2019.
- 3rd place, Graduate Student Research Blitz Presentation, 2019 Purdue School of Health Sciences Retreat.
- 3rd place Neurotoxicology Specialty Section Graduate Student Poster Competition, 2020

Wise, J.
- Frederick N. Andrews Fellowship (2 years tuition and annual $18,000 stipend), Purdue Graduate School, 2013
- Compton Travel Award ($500), to 2015 Society of Toxicology Annual Meeting
- Purdue Research Foundation Fellowship (2016-2017), total award = $28,662
- Purdue Institute of Integrative Neuroscience Travel Award ($500), to 2016 SOT Annual Meeting

- Purdue Graduate Student Government Travel Grant ($250), to 2016 SOT Annual Meeting
- Bilsland Dissertation Fellowship (2017-2018), total award = valued >$62,000 due to forgiven tuition remits
- Winner of the Abstract Competition/travel award for Greater Indiana Chapter of the Society for Neuroscience's annual meeting; #1 graduate student abstract out of 122 submissions; "*Autophagic dysfunction in brainstem nuclei in a preclinical rotenone Parkinson's disease model*"
- Chair, of selected symposium at the 2018 Society of Toxicology Annual Meeting. Symposium entitled, "*Mechanisms of Autophagic Function and Dysfunction in Neurotoxicity and Neurodegeneration*"

Agim, Z.S.

- Women in Science Programs Travel Grant ($500), to 2014 Society of Toxicology Annual Meeting
- Purdue University Interdisciplinary Life Sciences Program Travel Grant ($150) to 2014 Society of Toxicology Annual Meeting
- Honorable mention (top 20% - ~70 contestants), Health and Disease: Science, Culture and Policy graduate student poster competition, Purdue University.
- Society of Toxicology Travel Award ($1000) to 2015 annual meeting
- Purdue Research Foundation Fellowship (2015-2016), total award = $28,662
- Compton Graduate Travel Award ($500) to 2016 SOT Annual Meeting
- Andrews Environmental Travel Grant ($1500) to 2016 IUTOX Annual Meeting
- A. H. Ismail Interdisciplinary Program Doctoral Research Travel Award ($1500) to 2016 SOT Annual Meeting
- Purdue University Interdisciplinary Life Sciences Program Travel Grant ($350) to 2017 SOT Annual Meeting
- Purdue Student Government Travel Grant ($500) to 2017 SOT Annual Meeting

Villanueva, M.A.

- 2017 Pfizer SOT Undergraduate Student Travel Award. Full funding for travel and all expenses to 2017 SOT Annual Meeting.

Amaro, J.A.

- 1st Place Poster, College of Health and Human Sciences, 2017 Undergraduate Research Symposium

Nieves, Claudia

- 2018 Paul L. Ziemer for Outstanding Freshmen Scholastic Performance

Student Committees:

Ph.D. Dissertation Committees

2020-	Xueqi Tang, Purdue University Interdisciplinary Life Science Ph.D. Program
2019-2022	Saeed Alqahtani, Toxicology, School of Health Sciences, Purdue University
2018-	Janiel Ahkin Chin Tai, Tox, Purdue University Interdisciplinary Life Science Ph.D. Program
2018-	Jennifer Hensel, Purdue University Interdisciplinary Life Science Ph.D. Program
2018-	Luqing Liu, Toxicology, School of Health Sciences, Purdue University
2016-2022	Cynthia Alvarado, Integrative Neurosciences, Purdue University Interdisciplinary Life Science, PhD. Program converted to M.S.
2016- 2019	Kaushik Muralidharan, Department of Biological Sciences, Purdue University
2016-2020	Saranya Radhakrishnan, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program
2016-2022	Chandnee Chandrasekaran, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program
2016-2022	Aswathy Chandran, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program
2015-2018	Paola Montenegro, PULSe/MCMP
2015-2019	David Edmondson, Imaging Sciences and Toxicology, School of Health Sciences, Purdue University

2015-2019 Daniel Cholger, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program
2014-2016 Sara Wirbisky, Toxicology, School of Health Sciences. Current position: Sr. Toxicologist, WIL Research
2014-2018 Xinxin Liu, Health Sciences, School of Health Sciences
2014-2018 Katharine Horzmann, Toxicology, School of Health Sciences, Purdue University.
2014-2018 Kathryn Thompson, Purdue University Interdisciplinary Life Science, Ph.D. Program, Molecular Signaling and Cancer Biology
2014-2019 Dennis Claddis, Nutrition
2013-2016 Jinyoung Lee, Toxicology, School of Health Sciences, Purdue University
2013-2016 Ruoyun Ma, Medical Physics, School of Health Sciences, Purdue University
2013-2014 Gyeon Oh, Medicinal Chemistry and Molecular Pharmacology
2013-2017 Sasha Vega Alvarez, Purdue University Interdisciplinary Life Science, Ph.D. Program, Integrative Neuroscience
2012 Hilary Broderick, Purdue University Interdisciplinary Life Science, Ph.D. Program, Integrative Neuroscience
2012-2015 Stefanie O'Neil, Purdue University Interdisciplinary Life Science Ph.D. Program, Integrative Neuroscience. Current position: Sr. Associate, S.C. Johnson

Ph.D. Preliminary Exam Committees

2022 Alishia Aroor, Psychological Sciences, Ph.D. Program
2021- Ruilin Yu, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program (Committee Member)
2019 Lisa Kobos, Toxicology, School of Health Sciences, Purdue University
2016 Daniel Cholger, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program
2016 David Edmondson, Imaging Sciences and Toxicology, School of Health Sciences, Purdue University (Committee Chair)
2015 Amy Godfrey, Molecular Signaling and Cancer Biology, Purdue University Interdisciplinary Life Science Ph.D. Program
2015 Kathryn Thompson, Molecular Signaling and Cancer Biology, Purdue University Interdisciplinary Life Science Ph.D. Program
2015 Katharine Horzmann, Toxicology, School of Health Sciences, Purdue University.
2014 Sasha Vega Alvarez, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program
2013-2014 Stefanie O'Neil, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program (Committee Chair)
2012-2013 Glen Acosta, Integrative Neurosciences, Purdue University Interdisciplinary Life Science Ph.D. Program (Committee Member)

M.S. Committees

2018- Li Xia, Toxicology, School of Health Sciences
2012-2013 Sara Wirbisky, Toxicology, School of Health Sciences

ENGAGEMENT

International Service

2022 Poster Judge, invited speaker at: Inflammation and Proteinopathy in ALS FTD spectrum Disorder, Joint International Center for Genetic Engineering and Biotechnology (ICGEB) and ALS Society of Canada meeting, Rijeka, Croatia, 06/30/2022 – 07/03-2022.

2022 Oral Presentation Judge, invited speaker at: Inflammation and Proteinopathy in ALS FTD spectrum Disorder, Joint International Center for Genetic Engineering and Biotechnology (ICGEB) and ALS Society of Canada meeting, Rijeka, Croatia, 06/30/2022 – 07/03-2022.

National Service

2022 Panel Member, Interactive Panel - The PI Crash Course, SHARP Training Program (Skills for Health and Research Professionals) at Columbia University, 06/10/2022
2021-2023 Representative Specialty Section Collaboration and Communication Group (SS-CCG), Society of Toxicology
2021- Counselor, International Neurotoxicology Association
2021 Society of Toxicology Annual Meeting, Chat with an Expert
2021 Society of Toxicology Annual Meeting, Graduate School Virtual Career Fair
2020- Vice President (Presidential Chain), Neurotoxicology Specialty Section, Society of Toxicology
2020 Distinguished Neurotoxicologist Committee, Neurotoxicology Specialty Section, Society of Toxicology
2020 Mentor, Mentor Match, Society of Toxicology

2018-2020 Councilor, Neurotoxicology Specialty Section, Society of Toxicology
2017 External Reviewer, 2016 Neurotoxicology Specialty Section poster judging
2016 External Reviewer, 2016 Neurotoxicology Specialty Section poster judging
2015 External Reviewer, 2015 Neurotoxicology Specialty Section poster judging
2013 Ohio Valley Society of Toxicology, *Postdoctoral Poster Judge*, Annual Meeting
2013 External Reviewer, 2014 Best Postdoctoral Publication Award, The Society of Toxicology

Institutional Service

Purdue University

2021- Member, Core Strategic Planning Committee, Purdue Animal Behavior
2020- Faculty Advisory Committee for the Bindley Imaging Facility
06/28/2017 Facilitator, Graduate Student and Postdoc Forum at NeuroNetworking, Purdue Institute for integrate Neuroscience
2017 Panel Member, Newly Tenured Professors, Faculty Advancement, Success and Tenure (FAST), ADVANCE Center for Faculty Success
2016- 2017 Member, Subcommittee on animal behavior core, Purdue Institute for Integrative Neuroscience
04/14/2015 Judge, Undergraduate Research Symposium and Poster Session
07/21/14 *Experience Purdue*, Instructor, High ability High School student recruitment/short course, "Environmental exposures and brain damage"
03/2014 Purdue ME Assistance, High-School Recruitment, Featured Laboratory
02/2014 *Ad hoc* Reviewer, Journal of Undergraduate Research
2013-2015 Featured laboratory/tour leader, Neuroscience-Philosophy-Intelligence-Society, Purdue University

College of Health and Human Sciences – Purdue University

2022 - Member, Advisory Board, Center for Research on Brain, Behavior, and NeuroRehabilitation (CEREBBRAL)2021-2021 Member, Associate Dean for Research Faculty Search Committee, HHS

2020-2021 Member, Faculty Search Committee, Department of Public Health
2019-2020 Member, "Advance Research to Improve Health, Human Functioning, and Quality of Life (including doctoral education)", HHS Strategic Planning Working Group
2017-present Member, Public Health Graduate Program Evaluation Committee
2016 School representative, HHS Fall Welcome
2016-2018 Member, HHS Career Advisory Council
2016-2018 Member, HHS Graduate Education and Curriculum Committee
2014 HHS Scholarship Committee - Presidential Scholarship Selection
2014 HHS Family Day – Faculty Representative

Graduate School – Purdue University

2017- Executive Chair, Executive Committee, Purdue University Interdisciplinary Life Science Program (PULSe)
2017 Judge, 5 Minute Thesis Competition, Purdue University Interdisciplinary Life Science Program (PULSe)
2017 Judge, PULSe Outstanding Teaching Award
2016-2017 Integrative Neuroscience Training Group Representative (training group Chair), Executive Committee, Purdue University Interdisciplinary Life Science Program (PULSe)2012 HSCI Graduate School Admissions, *Ad hoc reviewer*
2014 Presenter, Preliminary Exam Panel (PULSe), "Oral defense of proposal", 02/11/2014
2013 Judge, PULSe Outstanding Graduate Student in Research Award
2012-2014 PRF Research Grant, *Ad hoc reviewer*
2012- Bilsland Dissertation Fellowship, *Ad hoc reviewer*
2012 Faculty representative, Integrative Neuroscience, PULSe Fall Open House

School of Health Sciences and Additional Committees

2022 Member, Compton Travel Award Committee
2022- Chair, Search Committee, Translational and Biomedical Toxicology
2021 Chair, Search Committee, Dual Career Search (Toxicology)
2021- Chair, Search Committee, Computational Toxicology
2019-2020 Chair, Search Committee, Computational or Systems Toxicology
2019- Member, Graduate Committee on Curricula, Admissions and Research policy, School of Health Sciences, Purdue University
2017-2019 Chair, School of Health Sciences Committee to Revise Tenure and Promotion Guidelines
2017-2018 Chair, Search Committee, Exposure Science/Industrial Hygiene Faculty position
2018- Member, Graduate Committee on Curricula, Admissions and Research policy, School of Health Sciences, Purdue University
2016-2018 Chair, Graduate Committee on Curricula, Admissions and Research policy, School of Health Sciences, Purdue University
2016-present Member, HSCI Primary Committee (Tenure and Promotion)
2015-2016 Chair, HSCI Web Page & Library Committee
2015-2016 Member, Search Committee, Industrial Hygiene/Toxicology Faculty position
2015–present Member, Committee on International Exchange Programs
2014 *Ad hoc* member, PULSe Executive Committee, Integrative Neuroscience
2014 Discussion Leader, Scholarly Excellence, Faculty Retreat, School of Health Sciences, Purdue University
2012-2021 Member, Nominations and Awards, School of Health Sciences, Purdue University
2012-2013 Member, Safety Committee, School of Health Sciences, Purdue University
2012-2016 Member, Graduate Committee on Curricula, Admissions and Research policy, School of Health Sciences, Purdue University
2003-2004 Member, Toxicology Symposium Committee, "Fetal Origins of disease", The 9th Annual Toxicology Research Symposium, The University of Michigan
2002-2003 Chair, Toxicology Symposium Committee, "Toxicants as Tools", The 8th Annual Toxicology Research Symposium, The University of Michigan
2001-2002 Rackham Academic Appeals Panel, The University of Michigan

Other institutional service

2013 Lead effort updating Plans of Study for Toxicology degrees. Created a nonthesis MS plan of study with laboratory-focus and Public Health focus tracks. Gained Graduate Committee and Full Faculty approval.

2012 Faculty representative (School of Health Sciences), August graduation, Purdue University

Service to the Community

2022 Lay presentation "Modifiable Risk Factors in Parkinson's Disease Development", Well-Informed Educational Program, Westminster Village, West Lafayette, IN

2022 Lay presentation "Genetic and Environmental Interactions in the Development and Progression of Parkinson's Disease", Parkinson's Awareness Association of Central Indiana, Inc.

2014 Lay presentation "Etiology and Pathology of Parkinson's disease", Parkinson's disease support group, Westminster Village, West Lafayette, IN

2013 Lay presentation "Role of genes and Environment in Parkinson's Disease", Parkinson's disease support group, Westminster Village, West Lafayette, IN

2012 Faculty representative, College of Health and Human Sciences, Indiana State Fair

2009 Medicine / Health / Microbiology Category Judge - Senior (9th-12th grade), 70th Pittsburgh Regional Science & Engineering Fair. 4/3/2009

2008 Lay presentation; education to outpatient drug addicts; "Effects of drug use on the brain", Night Intensive Outpatient Program at Gateway Rehabilitation Center, Pittsburgh, PA. 5/22/08