Message from the Director:

The past few weeks we've had a number of visitors throughout campus of special interest to our neuroscience community. Both faculty and staff have been interviewing, and we hope a number of them will choose to join our ranks. As an Institute, we have brought two candidates to campus for the IPSc Core Facility manager position and we hope to make an offer in the next two weeks or so. Additionally, as many of you are aware, renovations of the third and fourth floor of the Discovery Learning Building has begun. The Neuroscience Institute will occupy the third floor of the building and PI4D (Purdue Institute of Inflammation, Immunology, and Infectious Disease) will be on the fourth. If the schedule keeps, we expect the space to be owner occupied in August of 2018. Finally, this week I had a wonderful visit with Dr. Bruce Lamb, Director of the Stark Neuroscience Research Institute, we hope to move forward with increased collaborations and shared strategic planning about facilities and focus area. Please keep your eyes open for joint scientific meetings and future opportunities for short-term student/postdoc exchanges between neuroscientists at Purdue and IU School of Medicine. Finally, congratulations to the winners of the Collaborative Graduate Research Award (see below for the list of winners!).

- Donna Fekete

PURDUE INSTITUTE FOR
INTEGRATIVE
NEUROSCIENCE
Where science meets engineering

Congratulations to our very own Dr. Donna Fekete, who was named the Krenicki Director for Integrative Neuroscience at this morning's Board of Trustees meeting.

Featured Faculty Member: Dr. Daniel Suter

Daniel Suter is currently an Associate Professor affiliated with the Neuroscience and Physiology area in the Department of Biological Sciences. He grew up in Switzerland, where he received his BS in Biology from the ETH Zurich in 1988 along with a Teaching Diploma in Biology and Chemistry. He conducted his graduate research in cellular neuroscience in the Department of Biochemistry at the University of Zurich and received his PhD in 1995. He moved into the field of advanced live cell imaging during his Postdoc at Yale University with Paul Forscher, where he started to work with the large neurons from *Aplysia.* In 2003, Dr. Suter started his own lab at Purdue University as an Assistant Professor.

Dr. Suter's research centers on the question of how cells integrate chemical and mechanical cues into directional movements. He focuses on the neuronal growth cone, the motile tip of axons and dendrites. Using advanced live cell imaging and biophysical approaches including Atomic Force Microscopy, cellular and molecular techniques, the Suter group investigates signal transduction processes, cytoskeletal dynamics, and mechanics underlying axonal growth and guidance. The lab is using two model systems: cultured *Aplysia* neurons to analyze growth cone motility and zebrafish embryos to investigate the formation of neuronal connections *in vivo*. Recently, their findings revealed a new role for reactive oxygen species in neuronal development, specifically in axonal growth and guidance. The group's work also provided new insights into mechanosensing associated with adhesion-mediated axonal growth.

Dr. Suter is a member of the Purdue Institute for Integrative Neuroscience, the Birck Nanotechnology Center, and the Bindley Bioscience Center. He currently serves as the convener of the Neuroscience and Physiology area as well as of the Departmental Graduate Program. In 2016, he received the J. Alfred and Martha Chiscon Award for Outstanding Undergraduate Teaching and in 2017 the Graduate Student Mentoring Award from Department of Biological Sciences. His research has been funded by both NIH and NSF in addition to Purdue University. He has published 35 articles and has served on several national and international grant review panels. He is currently an editor for *Scientific Reports*and has co-organized three scientific conferences.

Collaborative Research Proposal Winners!!!

Brandon Conventry, Biomedical Engineering
(PI: Ed Bartlett)

Samuel Kissinger, Biological Science
(PI: Alex Chubykin)

Elucidating the Biophysical Mechanisms of Infrared Neural Stimulation in Cortex

Alexander French, Medicinal Chemistry/Molecular Pharmacology
(PI: Val Watts)

Monica P. Soto Velasquez Radhakrishnan, Chemistry
(PI: Mathew Tantama)

Engineering an Optogenetic Tool for High Resolution Studies of Kappa Opioid Receptor Activation

Mee Jung Ko, Medicinal Chemistry/Molecular Pharmacology
(PI: Richard van Rijn)

Logan Ganzen, Biological Science
(Yuk Fai Leung)

A Pharmacological Model of TRPA1-mediated Nociception in the Zebrafish for Therapeutic Discovery

Aswathy Chandran, Medicinal Chemistry/Molecular Pharmacology
(PI: Chris Rochet)

Saranya Radhakrishnan, Chemistry
(PI: Mathew Tantama)

Study of Oxidative Stress in a Human iPSC Model of Parkinson's Disease

Good luck in your research ☺

Foundation Grant Opportunity

American Society of Neuroradiology (ASNR)
The Foundation of the ASNR
Amount **$250,000 USD**

The ASNR anticipates funding multiple awards under this program. Applicants may request up to two years and $250,000 in total costs, inclusive of both direct and indirect costs. Exceptions for particularly

unique projects will be considered, but requests that exceed $100,000 must be well justified in the Budget Justification section of the application. Budgets that exceed $100 ,000 require pre-approval by the Chairs of the Research committee prior to submission. Indirect costs may not exceed 10 percent of direct costs. For additional information please visit: http://www.theaftd.org/research/funding-opportunities

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MCMP Neuro-related Seminar Schedule

February 28th (4:00 PM) RHPH 164: Rong Huang, VCU

(**Selective chemical probes for protein alpha-N-terminal methyltransferases)**

March 7th (4:00 PM) RHPH 164: Yang Yang, Yale School of Medicine

(Curing the pain of the burning man: Pharmacogenomic targeting of Nav1.7 sodium channel from bench to bedside and back)

Special Lectures in Neuroscience Course

Optogenetics: Illuminating Neural Circuit Function in the Visual System

BIOL 69500

The following speakers' seminars will be at different times, mostly on Wednesdays or Thursdays.

Thomas Knopfel **- 3/22-3/23**

Public lecture – March 22, 3pm, MRGN 121

Seminar – March 23, 10am, LILY G-456

Andreas Burkhalter **- 3/29-3/30**

Public lecture – March 29, 4pm, MRGN 121

Seminar – March 30, 10am, LILY G-456

Zhuo-Hua Pan **- 4/19-4/20**

Public lecture – April 19, 4pm, MRGN 121

Seminar – April 20, 10am, LILY G-456

Greater Indiana Chapter - Society for Neuroscience Meeting

March 31st from 8AM to 6PM

Goodman Hall - IU Health Neuroscience Center

355 W 16th St. Indianapolis, IN 46202

For registration and a full agenda, please visit the site.

Funding Opportunities

Opportunity	Award Amount	Deadline
Team-Research BRAIN Circuit Programs – TeamBCP (U19)	Varies	March 1, 2017
New Investigator Awards in Alzheimer's Disease http://www.afar.org/research/funding/new-investigator-awards	100,000	March 6, 2017
Exploratory Targeted BRAIN Circuits Projects – eTargetedBCP (R21)	Varies	March 8, 2017
Simons Foundation Autism Research (SFARI) Initiative 2017 Pilot and Research Awards	70,000-275,000	March 22, 2017
NSF Critical Techniques, Technologies and Methodologies for Advancing Foundations and Applications of Big Data Sciences and Engineering (BIGDATA)	200,000-500,000	March 22, 2017
NIH BRAIN Initiative: Research Career Enhancement Award for Investigators to Build Skills in a Cross-Disciplinary Area (K18)	Varies	April 14, 2017
NIH Eradication of HIV-1 from Central Nervous System Reservoirs (RO1)	Varies	May 7, 2017
***NIH Silvio O. Conte Centers for Basic Neuroscience or Translational Mental Health Research (P50)*	1.75 Million	May 24, 2017
NIH Perception and Cognition Research to Inform Cancer Image Interpretation *R21* *R01*	Varies	May 30, 2017
***NIH-NIMH Biobehavioral Research Awards for Innovative New Scientists (NIMH BRAINS) (R01)*	400, 000	June 20, 2017
NIH Advancing Our Understanding of the Brain Epitransciptome • *R21* • *R01*	Varies	June 2017
http://www.grants.gov/searchgrants.html?agencyCode%3DDOD	Varies	Varies

****Newly Added**