Message from the Director:

As the summer kicks off, many of us will renew our focus on research and scholarship. Towards this goal, we draw your attention to a several upcoming events and opportunities focused on Neuroscience. Notably, we offer a full-day symposium on "Traumatic Brain Injury" on May 11. We will continue accepting applications to fund Neuroscience pilot projects until May 11, as detailed below. The following Monday, on May 23, we will host Professor Steve Finkbeiner (UCSF and the Gladstone Institute), who will give a research talk entitled "Using the Past to Predict the Future: Unraveling Mechanisms of Neurodegeneration with Single Cell Analysis and Deep Learning and Patient Stem Cells". Additional details of the seminar (time and place) will be forthcoming. We are still collecting the names of graduate students and postdocs from your research groups, so please share this newsletter with them and encourage them to contact us at neuro@purdue.edu. Finally, as part of our initiative to publicize the Institute on campus and beyond, please list your membership on publications and presentations, share your discoveries and funding success with us, and freely share information about our Institute with colleagues, friends and Purdue alumni.

- Donna Fekete, *Inaugural Director*

Reminder: If you are interested in submitting a proposal to our funding opportunity, it is due on Wednesday, May 11th. Please visit our website for more details.

Featured Faculty Member:

Dr. Jean-Christophe (Chris) Rochet is an Associate Professor in the Department of Medicinal Chemistry and Molecular Pharmacology at Purdue University. He obtained a PhD at the University of Alberta in Biochemistry in 1998 and then worked as a post-doctoral fellow from 1999-2002 studying mechanisms of alpha-synuclein self-assembly in Parkinson's disease in the laboratory of Dr. Peter Lansbury at Harvard Medical School. Dr. Rochet assumed his position at Purdue University in August of 2002. Dr. Rochet's research group has a long-standing interest in CNS disorders including Parkinson's disease. His lab has taken the approach of characterizing gene products involved in aging and neurodegenerative disorders (e.g. alpha-synuclein, DJ-1), with the aim of elucidating mechanisms of neuronal death and dysfunction. His group's research involves an interdisciplinary approach with methods ranging from biochemical analyses of recombinant proteins to characterization of neurotoxic and neuroprotective mechanisms in cellular and animal models. Dr. Rochet's studies in models that reproduce key aspects of PD pathobiology have yielded new insights into genetic and chemical suppressors of neurodegeneration. To learn more about Chris's work, visit his website.

5th Purdue Symposium on Psychological Sciences

Stewart Center, Purdue University, West Lafayette, IN

Monday May 16 and Tuesday May 17, 2016

Emotion Dysregulation: Consequences and Mechanisms

The Department of Psychological Sciences at Purdue University is pleased to announce the fifth installment in its symposium series. This year's symposium will gather leading researchers in behavioral neuroscience and clinical psychology that use animal and human models to investigate the neuroscience of emotions and their impact on behavior.

Despite the multitude of laboratories investigating the neuroscience of emotions, there is a lack of interface between animal and human researchers, who would benefit from working together. The goal for this symposium is to pull together a range of scholars focusing on different aspects of the neuroscience of emotions, in order to encourage collaborations and cross-disciplinary initiatives to advance the field.

Symposium Coordinators: Susan Sangha, PhD Daniel Foti, PhD

Department of Psychological Sciences, Purdue University

ANIMAL BEHAVIOR CORE - We need your input!!!

The Integrative Neuroscience Center is interested in launching an Animal Behavior Core. Please respond to this survey to ensure we are purchasing the necessary equipment.

Upcoming Events:

- Our TBI Symposium "From Biomechanics to Behavior: A Multidisciplinary Approach to Explosive and Concussive Traumatic Brain Injury will be this coming Wednesday, May 11th in 121 Burton Morgan. A full agenda can be found here.

- Friday, May 13th, the 2016 Chicago Symposium on Translation Neuroscience will take place at the Kapp Center for Biomedical Discovery. For more information click here.

Course Offering Announcement for this fall:

PSY 60300 - Psychopharmacology Credit Hours: 3.00. This course will cover core pharmacology concepts and principles, such as neurotransmitters, receptors, drug classes, and mechanisms of drug action, while highlighting recent findings related to pharmacogenetics and sex/gender differences in psychopharmacology. There will also be a primary focus on drug therapy for major psychiatric disorders including addiction, depression, anxiety and schizophrenia. Prerequisites: (BIOL 56200 and PSY 51200) or PSY 61500 or MCMP 57000. Typically offered Fall Spring.

Funding Opportunities:

Michael J. Fox Foundation The Michael J. Fox Foundation works tirelessly to accelerate promising research toward breakthroughs for Parkinson's patients. While our strong emphasis is on funding translational and clinical research, we also support high-risk/high-reward discovery work. Learn more about our priorities on our Research Strategy page.

In addition to funding, awardees benefit from working with our internal research staff and broad network of scientific and industry advisors.

Core funding programs: Target Advancement (novel targets, priority targets, lead pathway target), Therapeutic Development (disease-modifying, symptomatic, clinical ,and pre-clinical), and Outcome Measures (imaging agents, biomarker assay, clinical outcomes).

Pre-proposal deadline: May 18th, 2016

NIH Bioengineering Research Partnerships (U01) This FOA encourages bioengineering applications that will accelerate the development and adoption of promising tools and technologies that can address important biomedical problems. The objectives are to establish these tools and technologies as robust, well-characterized solutions that fulfill an unmet need and are capable of enhancing our understanding of life science processes or the practice of medicine. Awards will focus on supporting multidisciplinary teams that apply an integrative, quantitative bioengineering approach to developing technologies, and engage biomedical researchers or clinicians throughout the project. Deadline: May 18

NIH Preclinical Research on Model Organisms to Predict Treatment Outcomes for Disorders Associated with Intellectual and Developmental Disabilities (R01) This FOA encourages applications from institutions addressing preclinical research in model organisms of neurodevelopmental disorders. Applications submitted to this FOA should propose to develop, validate, and/or calibrate outcome measures, surrogate markers, and biomarkers in model organisms that can inform and effectively translate to human clinical trials for individuals with intellectual and developmental disabilities. Deadline: June 5

NIH Career Development Awards:

NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01) Deadline: June 12

NINDS Advanced Postdoctoral Career Transition Award to Promote Diversity in Neuroscience Research (K22) Deadline: June 12

Competition is now open for HHMI Professors: http://www.hhmi.org/programs/hhmi-professors - Intent to apply is due July 1, 2016

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