



### Message from the John & Donna Krenicki Director of Integrative Neuroscience:

Welcome to the start of the 2017-2018 academic year at Purdue! This year, our strategic plan includes strengthening ties across units so that collaborations can flourish and we can be better positioned to respond quickly to funding opportunities as they arise. For example, PIIN is sponsoring a seminar series that we hope will be the first of many to focus on areas of excellence in Neuroscience at Purdue. Dr. RiyiShi is organizing a **Brain and Spinal Cord Injury Seminar Series**. Additional details can be found in the announcement section below.

The renovation of the 3<sup>rd</sup> floor of DLR is underway, which will open up new lab space for neuroscience research when it is completed in the summer of 2018. It will soon become the nerve center for PIIN activities!

I would like to offer a warm welcome to Dr. Yang Yang, assistant professor of Medicinal Chemistry and Molecular Pharmacology. Yang was the first of PIIN's joint strategic hires in neuroscience. He seeks to understand how dysfunction of ion channels (channelopathies) underlie neurological diseases (such as chronic pain, epilepsy and autism). He plans to develop novel pharmacogenomic approaches targeting ion channels for disease intervention. Dr. Yang will be a major user of our Cell Engineering Core, located in the Bindley Biosciences Center, which will soon open for business. Dr. Jungil Moon is available to help plan studies that create and/or use human stem cells to differentiate into specific neuronal types or brain organoids.

Finally, a friendly reminder that we prepare monthly reports for the President's office where we hope to highlight one important research story emerging from a PIIN-affiliated lab. We may also include other achievements, awards, presentations, and research. If you have something exciting, please share it with us at [neuro@purdue.edu](mailto:neuro@purdue.edu).

- Donna M. Fekete, Director

## **Special Announcements**

### **Brain and Spinal Cord Injury Bi-weekly Seminar Series**

September 5, 2017 to December 12, 2017

4:00-5:00 pm

DRUG 269

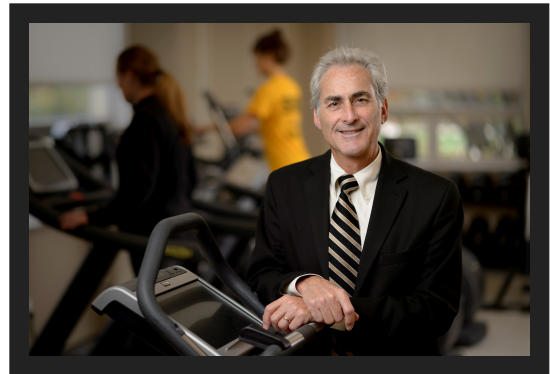
All invited presentations will focus on the mechanisms of central nervous system trauma and related diseases and instituting new diagnostics and treatments through innovative experimentation and pioneering new strategies in the field.

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### **Featured Faculty Member: Dr. Richard Mattes, MPH, PhD, RD**

Dr. Mattes is a Distinguished Professor of Nutrition Science at Purdue University, Adjunct Associate Professor of Medicine at the Indiana University School of Medicine and Affiliated Scientist at the Monell Chemical Senses Center. His research focuses on the areas of hunger and satiety, regulation of food intake in humans, food preferences, human cephalic phase responses and taste and smell. At Purdue, Dr. Mattes is the Director of the Public Health Graduate Program and the Ingestive Behavior Research Center. He also holds numerous external responsibilities including:

Associate editor of *American Journal of Clinical Nutrition*; editorial board of *Chemosensory Perception as well as Ear, Nose and Throat Journal*. He is also Secretary of the Rose Marie Pangborn Sensory Science Scholarship Fund. He has authored over 260 publications. Dr. Mattes earned an undergraduate degree in biology and a Masters degree in Public Health from the University of Michigan as well as a doctorate degree in Human Nutrition from Cornell University. He conducted post-doctoral studies at the Memorial Sloan-Kettering Cancer Center and the Monell Chemical Senses Center.



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TOWARD BETTER LIVES AND STRONGER COMMUNITIES – BRINGING THE PIECES TOGETHER

Tuesday, September 12, 2017

1:30-2:30 p.m.

Burton D. Morgan Center, Room 121

JIM McCLELLAND

Executive Director for Drug Prevention, Treatment, and Enforcement for the State of Indiana

[Please see flyer](#)

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## **Trask Innovation Fund DEADLINE is September 22, 2017!**

The Purdue Research Foundation-managed Trask Innovation Fund (TIF) is a Purdue University development mechanism to assist faculty with work to further commercial potential of technologies disclosed to the Office of Technology Commercialization (OTC). Funds are awarded under the advisement of the TIF Advisory Council, which consists of representatives from the Purdue University Office of the Vice President for Research, Purdue Faculty, Purdue Research Foundation and local business community.

The Fund objective is to support short-term projects (6 months) that will enhance commercial value of Purdue University intellectual property assets for licensing. Financial support is designed to provide an individual technology portfolio up to \$50,000 for a period of six months.

For more details about the Trask Innovation Fund visit our website: <https://www.prf.org/otc/>.

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## **The Indiana State Department of Health requests applications for its *Indiana Traumatic Spinal Cord and Brain Injury Research's Activity-Based Therapy Program***

The overall objective of this program is to foster and encourage activity-based therapy programs for the prevention, treatment and cure of spinal cord and traumatic brain injuries, including acute management, medical complications, rehabilitative techniques, and neuronal recovery. The initiative for funding activity based therapy programs consists of two funding mechanisms: 1) an RFA for programs providing rehabilitative clinical care and employing "activity based" approaches for traumatic spinal cord injury persons, and 2) an RFA for programs providing rehabilitative clinical care and employing "activity based" approaches for traumatic brain injury persons.

Applications for each RFA may be submitted for up to a **maximum requested amount of \$150,000 for the total duration of the project**. Programs must be conducted in compliance with all state and federal laws.

**Details may be found here:** <https://www.indianactsi.org/funding/all-open-rfps#ABT201709>

**Full Submission Deadline: September 29, 2017**

**Contact Information:** [icreate@iu.edu](mailto:icreate@iu.edu) / 317-278-2822

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## Quick Links

- Slack has been "relaunched"! Sign up with your Purdue email. [Click here](#)
- **Join Us for the 11th Annual Parkinson's Disease Therapeutics Conference.** [Register now!](#)
- **Exceptional Scientist Wanted:** Together we look forward to your [application](#) for the new Sartorius & Science Prize for Regenerative Medicine & Cell Therapy.
- [Big Data Neuroscience Workshop 2017](#). **September 8-9, 2017 Indiana University - Bloomington**
- [Eli Lilly/SNRI Fellowship Applications NOW OPEN](#)

## Funding Opportunities

Opportunity	Award Amount	Deadline
<a href="#">DOD-CDMRP Parkinson's Research Program (PRP)</a>	Varies	August 31, 2017
<a href="#">**DOD-CDMRP Peer Reviewed Alzheimer's Research Program (PRARP)</a>	Varies	September 20, 2017
<a href="#">NIH Improvement of Animal Models for Stem Cell-Based Regenerative Medicine (R24)</a>	Varies	September 25, 2017
<a href="#">NSF Research in the Formation of Engineers (RFE)</a>	350,000	September 27, 2017
<a href="#">NSF-Simons Research Centers for Mathematics of Complex Biological Systems (MathBioSys)</a>	15,000	September 29, 2017
<a href="#">NIH Novel Cell Non-autonomous Mechanisms of Aging (R01)</a>	250,000	October 3, 2017
<a href="#">NIH NLM Express Research Grants in Biomedical Informatics (R01)</a>	250,000	October 5, 2017
<a href="#">NIH From Genomic Association to Causation: A Convergent Neuroscience Approach for Integrating Levels of Analysis to Delineate Brain Function in Neuropsychiatry</a>	Varies	October 5, 2017
<ul style="list-style-type: none"> <li>• <a href="#">R01</a></li> <li>• <a href="#">Collaborative R01</a></li> </ul>		
<a href="#">NIH Capturing Complexity in the Molecular and Cellular Mechanisms Involved in the Etiology of Alzheimer's Disease (R01)</a>	Varies	October 5, 2017
<a href="#">NIH BRAIN Initiative: Development and Validation of Novel Tools to Analyze Cell-Specific and Circuit-Specific Processes in the Brain (R01)</a>	Varies	October 13, 2017
<a href="#">NIH BRAIN Initiative: Foundations of Non-Invasive Functional Human Brain Imaging and Recording - Bridging Scales and Modalities (R01)</a>	Varies	October 13, 2017
<a href="#">NIH Cellular and Molecular Biology of Complex Brain Disorders</a>	Varies	October 16, 2017
<ul style="list-style-type: none"> <li>• <a href="#">R21</a></li> <li>• <a href="#">R01</a></li> </ul>		
<a href="#">NIH BRAIN Initiative: New Concepts and Early - Stage Research for Large - Scale Recording and Modulation in the Nervous System (R21)</a>	300,000	October 26, 2017
<a href="#">NIH Global Brain and Nervous System Disorders Research Across the Lifespan</a>	125,000	November 7, 2017
<ul style="list-style-type: none"> <li>• <a href="#">R21</a></li> <li>• <a href="#">R01</a></li> </ul>		
<a href="#">NIH Central Neural Mechanisms of Age-Related Hearing Loss (R01)</a>	500,000	November 8, 2017
<a href="#">**NSF Division of Molecular and Cellular Biosciences: Investigator-Initiated Research Projects</a>	754,000	November 20, 2017
<a href="#">NIH Innovative Research in Cancer Nanotechnology (IRCNI) (R01)</a>	450,000	November 21, 2017
<a href="#">**NIH Blueprint for Neuroscience Research: Dynamic Neuroimmune Interactions in the Transition from Normal CNS Function to Disorders (R01)</a>	400,000	December 7, 2017

<a href="#"><i>NSF Science of Learning (SL)</i></a>	<a href="#">Varies</a>	<a href="#">January 17, 2018</a>
<a href="#"><i>Understanding Alzheimer's Disease in the Context of the Aging Brain (R01)</i></a>	<a href="#">Varies</a>	<a href="#">January 25, 2018</a>

**\*\*Newly Added**

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