



**Message from the Director:**

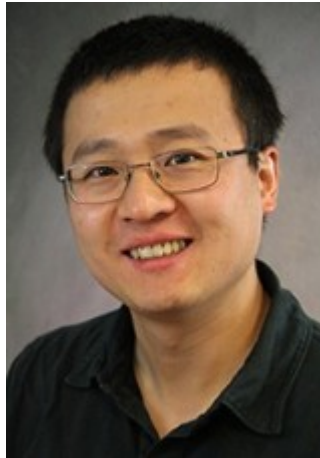
I hope everyone noted that we have 6 more weeks of winter coming our way! As we begin to thaw in the next few weeks, a few reminders of some upcoming activities to get you out of your burrow:

- As mentioned before, we are excited to have some neuro-related faculty searches occurring in our MCMP department. Relevant talks are listed below.
- The Greater Indiana Chapter of SfN will be having a meeting on March 31<sup>st</sup> in Indianapolis. Details are below, but please consider joining the event. Many of you may be aware we have petitioned to re-start our own chapter of SfN making us eligible for travel grants, networking opportunities, etc. We hope to have an update on the status of our application in late March.
- Many of you know we are working on getting our IPSc Core up and running. We have interviewed one candidate and are bringing another to campus in the next few weeks. If you would like to participate in the visit or have any questions, please let us know.
- We are in the process of establishing an external advisory board. The purpose of our board is provide a broader perspective on the field of neuroscience from folks that represent academia, industry, and government agencies. We would welcome suggestions - [neuro@purdue.edu](mailto:neuro@purdue.edu)

Finally, I have a request. You may be aware that we report monthly to the President's office. We want to highlight your experiences, achievements, presentations, and research. If you have something exciting, please share it with us.

- Donna Fekete

**Featured Faculty Member: Dr. Meng Cui**



At Purdue ECE and Bindley Bioscience Center, Meng Cui freely pursues his newfound passion of integrated imaging system development. Currently, Meng is learning to build the synergy of teaching, mentoring and research in a fresh scholarly environment.

For a long time, the advancements of computing and acquisition hardware and algorithm have driven the transformative progress of imaging technology. Take bioimaging as an example, the maturation of low-noise high-QE scientific cameras and the wide availability of computing power make super-resolution microscopy techniques possible; the development of high-throughput electron microscopy and machine learning based image processing enables large scale mapping of the wiring of brains. Despite these successes, the developments of image processing algorithms and imaging systems have been mostly running on parallel tracks. In other words, the image processing research was based on the acquired data from the available imaging systems and the imaging system development simply aims to return the best quality data as quickly as possible. A far more efficient approach is to merge the best technologies from both disciplines and design the imaging system with the image processing algorithm embedded, returning meaningful output effectively instead of merely producing large amount of data.

For more information on Meng's research visit his [website](#).

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## **Brainhack Global**

Take part in a distributed mega-brainhack event at the Beckman Institute at University of Illinois at Urbana-Champaign on March 2-4, 2017. We will be participating simultaneously with 40 sites across 16 countries. Brainhack is a community-organized hackathon and unconference that brings together researchers and technologists from a myriad of disciplines to work together on innovative neuroimaging projects involving large data sets in structural MRI, functional MRI, or other modalities, including EEG and fNIRS/EROS optical imaging. Groups can bring their own data sets or work on public data sets. For registration and more information, visit: <https://publish.illinois.edu/brainhack2017/>

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### MCMP Neuro-related Seminar Schedule

February 7th (4:00 PM) RHPH 164: Michio Kurosu, Univ. of Tennessee-“Future Direction of Nucleoside Antibiotics, Synthesis and Novel Drug Target”

February 9th (4:00 PM) RHPH 164: Wan-Chen Lin, UC Berkeley-Optogenetic manipulation of neural inhibition: from tool development to *in vivo* photo-control

Feb. 16: Benita Sjogren, Department of Pharmacology & Toxicology, Michigan State University

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

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

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## **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

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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](#).

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## Big Ten - Ivy League TBI Research Collaboration 2017

This year's summit we are offering an opportunity for researchers to expand their new or current TBI research to other members in the collaboration. The selected submissions will have an opportunity to present your research to the summit audience, discuss the scope of your research, and address criteria for partnering consideration.

For more information please visit their [website](#).

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## Funding Opportunities

Opportunity	Award Amount	Deadline
<a href="#">Early Stage Testing of Pharmacologic or Device-based Interventions for the Treatment of Mental Disorders (R61/R33)</a>	Varies	February 15, 2017
<a href="#">Development of Psychosocial Therapeutic and Preventive Interventions for Mental Disorders (R61/R33)</a>	Varies	February 15, 2017
<a href="#">Confirmatory Efficacy Clinical Trials of Non-Pharmacological Interventions for Mental Disorders (R01)</a>	Varies	February 15, 2017
<a href="#">Comparative Biology of Neurodegeneration (R21)</a>	275,000	February 16, 2017
<a href="#">HHS-CDC Development and Evaluation of Sports Concussion Prevention Strategies</a>	550,000	February 16, 2017
<a href="#">Team-Research BRAIN Circuit Programs – TeamBCP (U19)</a>	Varies	March 1, 2017
<a href="#">New Investigator Awards in Alzheimer's Disease <a href="http://www.afar.org/research/funding/new-investigator-awards">http://www.afar.org/research/funding/new-investigator-awards</a></a>	100,000	March 6, 2017
<a href="#">Exploratory Targeted BRAIN Circuits Projects – eTargetedBCP (R21)</a>	Varies	March 8, 2017
<a href="#">Simons Foundation Autism Research (SFARI) Initiative 2017 Pilot and Research Awards</a>	70,000-275,000	March 22, 2017
<a href="#">NSF Critical Techniques, Technologies and Methodologies for Advancing Foundations and Applications of Big Data Sciences and</a>	200,000-500,000	March 22, 2017

<a href="#">Engineering (BIGDATA)</a>		
<a href="#">NIH BRAIN Initiative: Research Career Enhancement Award for Investigators to Build Skills in a Cross-Disciplinary Area (K18)</a>	Varies	April 14, 2017
<a href="#">NIH Eradication of HIV-1 from Central Nervous System Reservoirs (RO1)</a>	Varies	May 7, 2017
<a href="#">NIH Quantitative Imaging Tools and Methods for Cancer Response Assessment</a>	Varies	May 9, 2017
<a href="#">NIH Perception and Cognition Research to Inform Cancer Image Interpretation</a> <a href="#">R21</a> <a href="#">R01</a>	Varies	May 30, 2017
<b>**NIH Advancing Our Understanding of the Brain Epitranscriptome</b> <a href="#">R21</a> <a href="#">R01</a>	Varies	June 2017
<a href="http://www.grants.gov/searchgrants.html?agencyCode%3DDOD">http://www.grants.gov/searchgrants.html?agencyCode%3DDOD</a>	Varies	Varies

**\*\*Newly Added**




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