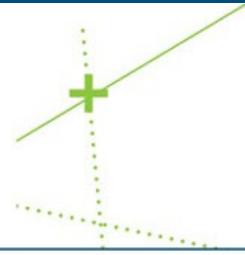


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Sciences Institute**

CLINICAL & TRANSLATIONAL NEUROSCIENCE



NEUROSCIENCE NEWS | AUGUST 2018

In our August newsletter, we highlight an innovative investigator working in the neuroscience space at Illinois, let you know about new funding opportunities from the NIH, share upcoming events of interest, and link you to the latest research news from around campus. Please visit the [program area pages](#) of the IHSI website for the most up-to-date information, and [sign up](#) to receive other IHSI e-newsletters. As always, if you have an item to share with the neuroscience community at Illinois, we would be happy to feature it. Send your item to [Gillian Snyder](#), IHSI research development manager.

HEALTH I.D.E.A.S. LECTURE SERIES | REGISTER TODAY

Imaging Function and Connectivity in the Human Brain with High Magnetic Fields: Spanning Scales from Cortical Columns to Whole Brain

[Kamil Ugurbil, PhD, University of Minnesota](#)

October 24, 2018 | 3:00 - 4:00 p.m.

Reception to follow

Beckman Institute Auditorium

[Register](#) (space is limited)



This lecture is held in partnership with the Beckman Institute, Carle Illinois College of Medicine, Center for Brain Plasticity, and the Neuroscience Program at the University of Illinois, and Carle Health System.

[MORE DETAILS](#)

INNOVATIVE INVESTIGATOR SPOTLIGHT | LAURA RICE

Each Investigator Spotlight features a clinical and translational neuroscience researcher doing important work right here at Illinois.

Professor Laura Rice's research interests are in the area of disability and health. She is specifically interested in the prevention of secondary impairments (e.g. psychosocial function) associated with disability to maximize quality of life and community participation among wheelchair users. A related interest is in examining education techniques to enhance functional mobility, prevent falls and secondary impairments, and effectively utilize assistive technology to promote health and well-being among individuals with disabilities.



[LEARN MORE](#)

BRAIN INITIATIVE SOLICITS YOUR FEEDBACK

As the BRAIN Initiative reaches its halfway point, NIH is [seeking input](#) from stakeholders as to how it can best achieve the goals outlined in the BRAIN 2025 report, a framework for neuroscience research from 2015 to 2025.

The first five years of the BRAIN Initiative have been dedicated to developing new neurotechnologies. The next five years will be focused on using those tools to conduct research into how brain circuits function normally and how they are impacted by disease. Through this RFI, NIH is specifically requesting information related to:



- New tools and technologies that could transform brain circuit research;
- Suggestions for fundamental questions about human brain circuit function or how animal models could be utilized with the new technologies;
- Data sharing infrastructure and policy considerations;
- Topics related to the ethical implications of research supported by the BRAIN Initiative;
- Ways to disseminate new tools and technologies and also how to train the broader neuroscience research community; and
- Other topics related to the BRAIN Initiative strategic plan.

To assure consideration, your responses must be received by **November 15, 2018**. Responses to this RFI must be submitted electronically using [this web-based form](#) or [via email](#) with "BRAIN RFI" in the subject line.

BRAIN INITIATIVE | RENEWED AND NEW OPPORTUNITIES

The Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative is aimed at

revolutionizing our understanding of the human brain. Several FOAs from the initiative were recently renewed: [BRAIN Initiative: Integration and Analysis of BRAIN Initiative Data \(R01 Clinical Trial Not Allowed\)](#). This Funding Opportunity Announcement (FOA) solicits applications to develop informatics tools for analyzing, visualizing, and integrating data related to the BRAIN Initiative or to enhance our understanding of the brain.

[BRAIN Initiative: Data Archives for the BRAIN Initiative \(R24 Clinical Trial Optional\)](#). This Funding Opportunity Announcement (FOA) solicits applications to develop web-accessible data archives to capture, store, and curate data related to BRAIN Initiative activities.

[BRAIN Initiative: Standards to Define Experiments Related to the BRAIN Initiative \(R01 Clinical Trial Not Allowed\)](#). This Funding Opportunity Announcement (FOA) solicits applications to develop standards that describe experimental protocols that are being conducted as part of the BRAIN Initiative.

While new opportunities also opened up:

[BRAIN Initiative: Development of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in Human and Non-Human Primate Brain \(UG3/UH3 Clinical Trial Optional\)](#). The purpose of this BRAIN Initiative funding opportunity announcement is to encourage applications that will develop and validate novel tools to facilitate the detailed analysis and manipulation of complex circuits in large brains.



COLLEGE OF LAS LAB SELECTED FOR GROWTH PROGRAM

The goal of the campus' [Investment for Growth Program](#) is to be responsive to high and emerging demand programs that lead to financial sustainability and additional sources of revenue. In FY18, each college and research institute at Illinois contributed resources to an investment pool of approximately \$11 million. They were then invited to submit proposals for funds to seed net revenue generating activities; to provide bridge funds for the expansion of existing revenue generating activities; to invest in automating processes; to motivate reorganization; and to co-invest in new instructional facilities and projects.

The **Illinois Neuro/Behavioral Assessment Laboratory (IN/BAL)**, part of the College of Liberal Arts and Sciences, was selected for FY19 investment. IN/BAL will support cutting-edge science while enhancing the existing foundation for world-class research at Illinois in social and behavioral science, medicine, neuroscience, and genomics. The laboratory plans to conduct cross-disciplinary, cutting-edge research on neurobehavioral functioning; create a measurement core for the scientific community at the University of Illinois and the public; and enhance the training needs for students. It plans to provide training opportunities that will benefit students from a wide variety of programs, including psychology, education, business, advertising, labor and employment relations, social work, communication and human

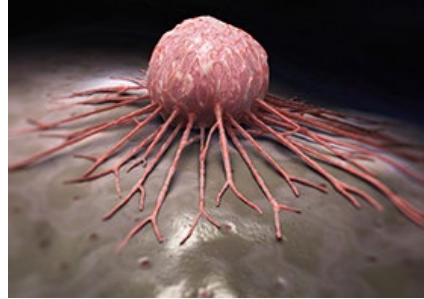


development and family studies.

Stay tuned for updates about IN/BAL in future Neuro News emails.

ADVANCING THE UNDERSTANDING OF THE NERVOUS SYSTEM'S CONTRIBUTION TO CANCER | NEW FOA

A major function of the nervous system is to maintain peripheral organ homeostasis, which it achieves via neuronal circuitry conveying information between the organs and the central nervous system and ultimately regulated by the brain. Whether this regulatory function of the nervous system is altered in the context of cancer however, has not yet been addressed, despite evidence for many years that the nervous system in many peripheral organs acts as a cancer promoter.

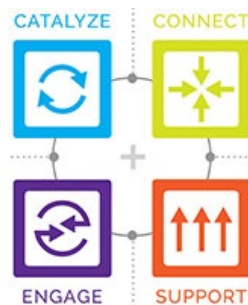


The purpose of these FOAs is to encourage collaborative, transdisciplinary research with both neuroscience and cancer elements to advance current understanding of the nervous system contribution to cancer. It is anticipated that leveraging the current advances in neuroscience research, including knowledge, tools, experimental models and reagents, to uncover novel mechanisms used by the nervous system to promote central and non-central nervous system tumor initiation, progression and metastasis will ultimately inform key areas of cancer research. It is also anticipated that understanding of how the nervous system and molecules typically associated with the nervous system, including neuropeptides, neurotransmitters and axon guidance molecules contribute to these cancer processes will ultimately inform improved strategies for cancer prevention and treatment of both central and non-central nervous system cancers.

[The first FOA](#) will utilize the Research Project Grant (R21) mechanism, and is suitable for early phase, pilot, or exploratory/developmental projects, while [the second](#) is for larger scale, later phase projects based upon strong preliminary data.

NEED HEALTH-RELATED RESEARCH SUPPORT? WE CAN HELP!

IHSI builds and maintains relationships with clinical, community, corporate, and university partners to support Illinois Health Sciences research. If you are looking for collaborators or research support services to conduct your research, submit a grant, find new funding opportunities, or for similar purposes, please submit your information through our brief [online form](#). The appropriate [IHSI staff](#) will follow up with you quickly.



Researchers at Illinois advance work in clinical and translational neuroscience, addressing complex and critical challenges. Here, we highlight recent research news:

8.17.18 [What Can a Soybean Worm Teach us About Neurodegenerative Disease?](#)

8.3.18 [Forgetting Your Most Cringeworthy Moments is Easier Said than Done, but There's an Easy Way to Prevent them from Haunting You for Life](#)

7.30.18 [A Math Theory for Why People Hallucinate](#)

7.23.18 [Study: Resting in Green Space Sharpens Focus—if You Stay Offline](#)



IMPORTANT DATES AND DEADLINES

- Neuroscience Fall Seminar Series at Beckman:
Tuesdays, beginning Sept 4, from 3:45–5 p.m. in Room 1005
- Big Data Neuroscience Workshop: Sept 6–7, 2018
- Health I.D.E.A.S. Lecture with Kamil Ugurbil:
October 24, 3 p.m.

Contact Gillian Snyder, IHSI research development manager, at 217-300-6709 or gcooke@illinois.edu if you have a calendar item or event to share.

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