

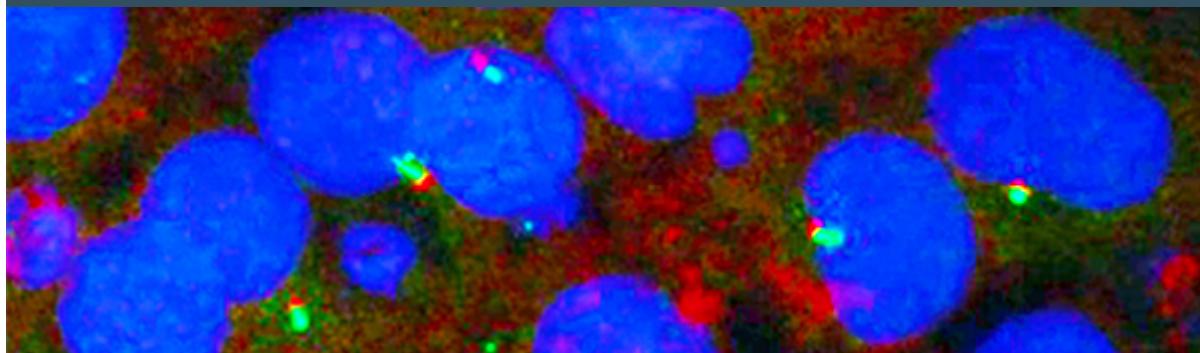


As the semester winds down, we'd like to thank our life science community for their contributions to science, education, and the land-grant mission of Purdue. Additionally, we'd like to congratulate a number of our Life Science Faculty for their recent accomplishments:

- [Dr. Claudio Aquilar named 2018 University Faculty Scholar](#)
- [Exploring Biological Evidence NSF Grant Awarded \\$1.2 Million - Dr. Kari Clase, Dr. Stephanie Gardner, Dr. Nancy Pelaez, and Dr. Ala Samarapungavan](#)
- [Dr. William Cramer's research in the field of photosynthetic energy transduction was honored](#)
- [IU cancer patients to test Purdue smartphone app for anemia detection - Dr. Young Kim & Dr. Md Munirul Haque](#)
- [Dr. Pedro Irazoqui named Reilly Professor of Biomedical Engineering; Dr. Carol Post appointed to distinguished professor; Dr. Richard Kuhn received endowed directorship for his role as director of PI4D](#)

Finally, we'd like to wish all of you a safe and happy holiday season.

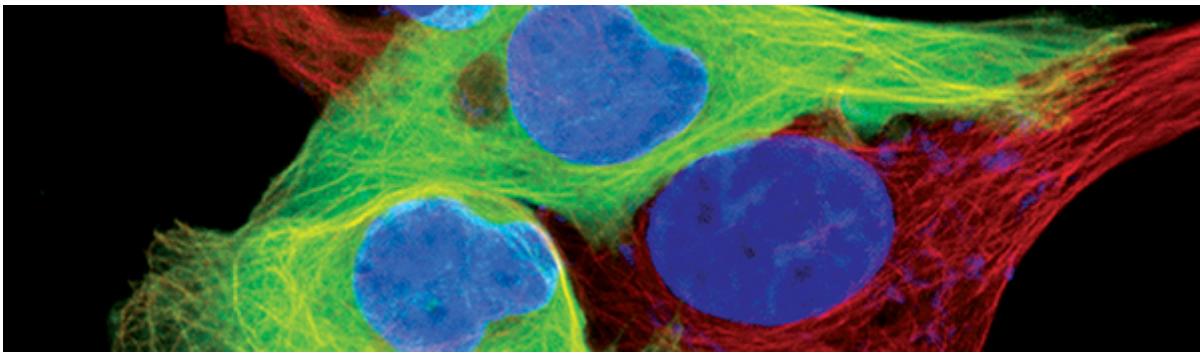
PURDUE INSTITUTE FOR DRUG DISCOVERY



We would again like to thank everyone who participated in our recent Town Hall for your valuable input. We have received summaries from each of the session leaders and are reviewing everyone's feedback. Going forward, we plan on constituting a leadership committee comprised of faculty members who can assist in shaping the direction of the Institute, including the identification of potential solutions to the challenges outlined in the session reports.

Additionally, we are modifying and updating our website to become more useful. For Example, the [Affiliated Core Facilities Page](#) has been updated. Please stay tuned for more changes.

PURDUE INSTITUTE OF INFLAMMATION, IMMUNOLOGY AND INFECTIOUS DISEASE



Dear PI4D members, as the calendar year comes to an end, I reflect on PI4D's growth and progress. It is with much excitement that I report that our current membership is up to 183 members and continually growing. We are hard at work ensuring that this local growth is leveraged by creating significant partnerships regionally and on an international scale. We continue to deepen our partnership with the Indiana Bioscience Research Institute and identifying areas for co-development. As you may recall, we have started to pave avenues for collaboration with various institutes in India and Jordan. Our pursuit for a national and international reputation is based on your excellent work and contributions. Please, don't forget to contact us at PI4D@purdue.edu with any news items, or funding awards. We want to share and promote you and your accomplishments. I wish you and your families a happy holiday season and a successful new year. Warm wishes, Richard Kuhn

Announcements:

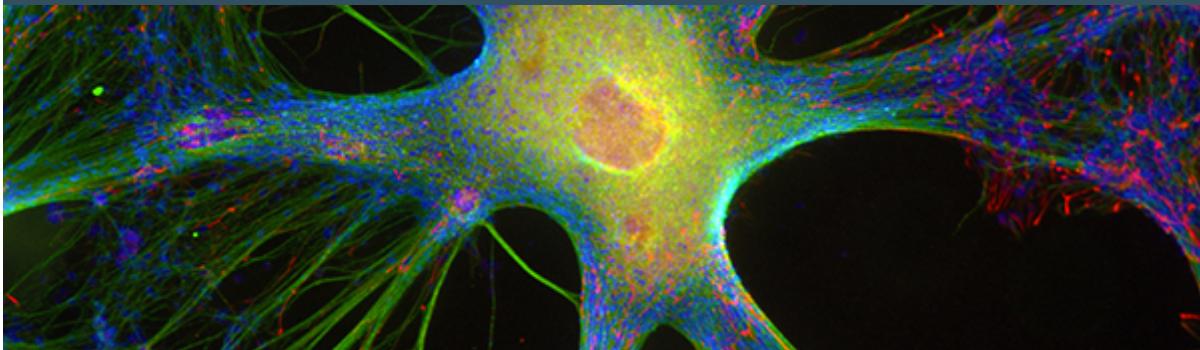
- [CTSI PostDoc Challenge has opened](#)
- The Purdue Lecture Hall Series, for local high school students to come hear current Purdue graduate students highlight their experiences and adventures in research, while also experiencing the university environment by meeting in different lecture halls throughout campus. We want to inspire the youth of today to consider life sciences as a career choice. Our next event will be Thursday, January 25th at 7:00 pm, this TED like talk will be by another PI4D Graduate Student Ambassador, Priya Prakash, Department of Chemistry and PULSe. Her talk will be "Neuro-Immune Interactions in Alzheimer's Disease".
- The PI4D Distinguished Speaker for January has been set. [Dr. Anthony James](#), Donald Bren Professor Microbiology & Molecular Genetics School of Medicine; Donald Bren Professor, Molecular Biology and Biochemistry School of Biological Sciences of University of California, Irvine will be visiting campus on January 18, 2018. A seminar will be given along with faculty meetings scheduled, more information will be provided closer to the date. If you would like to meet with him, please contact us at PI4D@purdue.edu

Other News:

- PI4D hosted a booth at the [2017 Chemical and Biological Defense Science & Technology Conference](#) in Long Beach, CA, November 28-30. Several PI4D members attended the conference including Michael Ladisch, Jackie Linnes, Tamara Kinzer-Ursem, Katherine Clayton, Christina Ferreira, Carmen Gondhalekar (Paul Robinson's PhD candidate), Tommy Sors and retired Brigadier General Leon Robert, special advisor to PI4D. The group met and interacted with multiple military groups to start building relationships and identify areas for partnerships and research.
- [Researchers determine how alphavirus changes into infectious state - Dr. Michael Rossman](#)



PURDUE INSTITUTE FOR INTEGRATIVE NEUROSCIENCE



Hello, PIIN community! As part of strategic effort to create awareness about the growing Brain and Spinal Cord Injury community on campus, and to foster relationships among researchers in this area, the Purdue Institute of Integrative Neuroscience (PIIN) inaugurated a [Brain and Spinal Cord Injury Seminar Series in the Fall of 2017](#). We kicked off the first season of seminars with eight outstanding speakers from four different colleges at Purdue: Vet Med, Engineering, Science, and Pharmacy. Over 100 PIIN members attended one or more of the seminars. As such, this platform achieved its intended initial goal of community building. In addition to continuing the seminar series in the area of CNS injury, the PIIN leadership team is actively seeking to support additional inter-disciplinary research groups with common interests in emerging topics in neuroscience. To learn more about how PIIN will continue strengthening this initiative, please visit our news section. We would like to thank Dr. Riyi Shi, member of our leadership team, for leading this effort. Additional stories and highlights of our faculty and students are featured below.

We wish you and your families a happy holiday season and a happy new year! Finally, a friendly reminder if you have something exciting, please share it with us at neuro@purdue.edu.

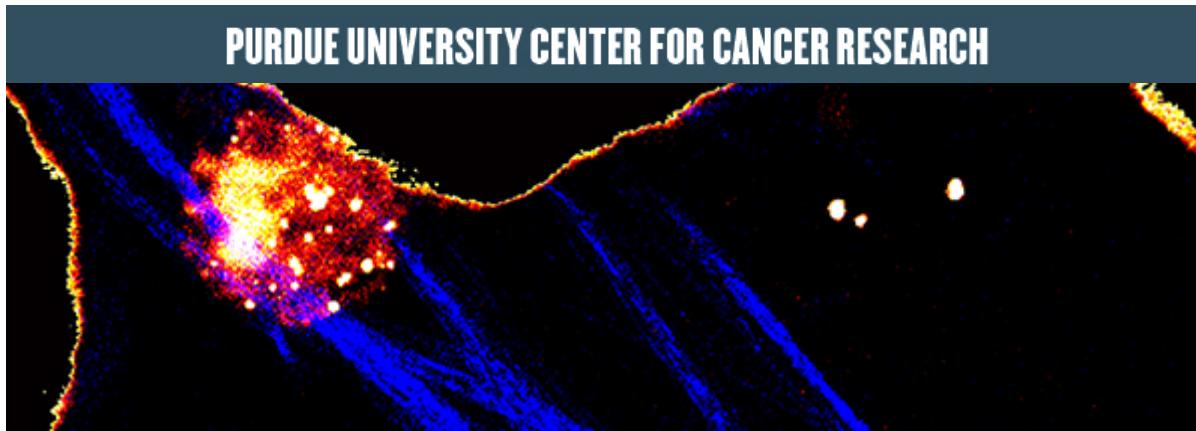
Announcements:

- PIIN is accepting applications for the Neuroscience Research Travel Awards to support graduate student travel to scientific meetings or workshops held February - June 2018. Deadline for submission is December 22, 2017.
- [2017 IU/PU Joint Symposium on Spinal Cord & Brain Injury Research Symposium- December 18th](#)
- [Behavioral & Neural Systems of Learning & Memory course being offered Spring 2018](#)
- [Special Lectures in Neuroscience: Audition - from neural circuits to perception - Spring 2018](#)
- [8th Annual Meeting of the Indiana Physiological Society- February 17,2018](#)
- [2018 Indiana Traumatic Spinal Cord and Brain Injury Research Conference](#)
- [The Michael J. Fox Foundation is accepting pre-proposals for Spring 2018 Parkinson's research fund](#)
- [Indiana Traumatic Spinal Cord & Brain Injury Research Grant Program](#)
- [Big Ten-Ivy League Traumatic Brain Injury Research Collaboration and 2018 TBI summit](#)

Other News:

- [Dr. Vikki Weake and Dr. Donald Ready](#) - Model for Degenerative Ocular Diseases
- [Dr. Zhongming Liu](#) - Musical Imagery Involves Wernicke's Area in Bilateral and Anti-Correlated Network Interactions in Musicians
- [Dr. Raymundo Munquia-Vazquez](#) - Detailed Analysis of a High Frequency Auditory Brainstem Response in Patients with Tinnitus

- [Dr. Susan Sangha](#) - Detailed Analysis of HigAltering D1 receptor activity in the basolateral amygdala impairs fear suppression during a safety cue



The Purdue University Center for Cancer Research (PCCR) was established as an NCI basic science cancer center in 1978. As such, the PCCR's mission focuses on basic discovery - discovery that is the foundation through which the PCCR fosters innovative cancer solutions. Your membership and contributions are key to fighting the cancer problem! Please find updates below and you can always reference information on our [Website](#).

Announcements:

- [Graduate Student Travel Award](#) - Deadline January 9, 2018
- [Shared Resource and Affiliated Facility Projects](#) - Deadline January 19, 2018
- [Phase I Concept Awards](#) - FASTR Meeting Deadline: January 15, 2019, Proposal Deadline: February 1, 2018

Up next in the Cancer Seminar Series, [Dr. Danny Welch](#), professor and chair of the Department of Cancer Biology at the University of Kansas Medical Center, will be giving a talk titled "Cell Autonomous and non-cell-autonomous effects of mitochondrial DNA polymorphisms on cancer metastasis" at 11:30 am, Thursday, January 11th in the Drug Discovery Conference Room.



Other News:

- [Purdue professor receives grants to improve gene therapy for cancer](#)
- [Blu-ray Cancer Detection Could Make Purdue Prof 'Star of the Show'](#)

2018 MIDWEST TUMOR MICROENVIRONMENT MEETING

Dates: Monday, May 21- Wednesday, May 23

Location: University of Iowa, Iowa City, Iowa

Registration is now [OPEN!](#)

Meeting starts at 1 PM on Monday, May 21 and ends at 12 PM on Wednesday, May 23. Visit [our website](#) for full details and important deadlines.

The Midwest Tumor Microenvironment Meeting brings together investigators from Midwestern universities broadly interested in topics related to the tumor microenvironment, including epithelial-stromal interactions, cell-matrix signaling, tumor immunology, and mechanobiology of the tumor microenvironment.

[Link to Calendars](#) for Seminar, Internal and External Funding Opportunities and Events.

REGENSTRIEF CENTER FOR HEALTHCARE ENGINEERING



This past week, the Regenstrief Center for Healthcare Engineering held a mini-retreat to consider three focus areas: Research to Impact, Strategic Engagements, and Building the Purdue Healthcare Advisors-RCHE Bridge. The event, which gathered faculty and staff associated with the Center and Purdue Healthcare Advisors, devoted time to defining goals and metrics in each of the focus areas as well as the resources necessary to achieve these goals. The conversations were quite productive, and we hope to have this event bi-annually.

2017 was a year of change for us; from welcoming a new Director, [Dr. Paul Griffin](#), to defining new directions, to exciting research breakthroughs. We are looking forward to 2018, and continuing to advance the mission of the Center to transform healthcare delivery systems by conducting impactful research guided by national priorities. The Regenstrief Center for Healthcare Engineering's faculty and staff wish you and yours a relaxing and safe holiday season and a happy new year.

Other News:

- [RCHE Faculty Member Kathleen Abrahamson wins Hulman Health Achievement Award](#)

PURDUE MOVES ➤ WORLD CHANGING RESEARCH

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<http://www.purdue.edu/research/life-sciences/>

A banner for "Purdue Moves" featuring a brain and molecular structures. The text "PURDUE MOVES" is on the left, followed by a right-pointing arrow, and "WORLD CHANGING RESEARCH" on the right. Below the banner, the copyright information "© 2017 Purdue University // EA/EOU" and the website "http://www.purdue.edu/research/life-sciences/" are displayed.