



From the Director:

Dear PI4D members,

We have had a number of exciting developments this quarter, perhaps most notably, renovation will begin on Monday on the 4th floor of the Hall for Discovery Learning (HDRL). The 4th floor of HDLR will physically house PI4D starting in August of 2018. As the renovation begins we will take the time afforded over the next year to identify the ideal individuals, capable of collaborative thinking, to occupy the new lab space. As the Institute continues to take shape, we are focusing on a number of key initiatives this summer. Some are mentioned below as well as some additional updates:

- We will be hosting both a student workshop and faculty event later this summer, details will be forthcoming.
- PI4D is excited to announce that we have started a Student Ambassador program. Our open competition had a number of competitive applicants, but three were selected: Diana Cortes-Sleva (Fairfax), Elizabeth Phillips (Linnes Lab), and Priya Prakash (Chopra Lab). Our ambassadors will be responsible for sharing information with our PI4D community and with our leadership, hosting visitors, assisting with communications, and any other ideas they come up with! Congratulations!
- PI4D worked with the Howard Baker Forum to co-host a [round table discussing Zika and emerging infectious disease threats](#).

Finally, our recent jaunt to Capitol Hill reminds us how critical it is to advocate for not only science and evidence-based policies and reasoning, but for funding to perform such important work. I'd urge you all to get involved, contact your congressmen and women and advocate for an investment in the future.

- Dr. Richard Kuhn
Director, PI4D

PI4D Travel Grant Winner from the Summer Symposium- Dr. Delong Zhang

PI4D's grant partially supported Dr. Delong Zhang's invited talk in the 2017 OSA Biophotonics Congress held by the Optical Society, April 2-5 at San Diego, California [1]. Dr. Delong Zhang is a postdoctoral associate in Prof. Ji-Xin Cheng's lab. He was one of the \$500 grant winners of the best poster award in the 2016 PI4D Symposium.

In the invited talk, Dr. Zhang presented his research of high-resolution infrared imaging of living cells and organisms, which was the first demonstration of 3D infrared imaging of live biological samples. Such infrared imaging applications were impossible due to water absorption and long wavelength of infrared light. This work was featured on Purdue News [2]. Dr. Zhang's 30-minute presentation showed the most recent progress on cancer cells imaging and pharmaceutical applications, which was well received. Dr. Delong Zhang would like to express his gratitude to PI4D for the kind support on his research.

References

- [1] Zhang, Delong, and Ji-Xin Cheng. "Depth-Resolved Mid-Infrared Photothermal Imaging of Living Cells and Organisms at Sub-Micron Resolution." *Novel Techniques in Microscopy*. Optical Society of America, 2017. <https://www.osapublishing.org/abstract.cfm?uri=NTM-2017-NM4C.1>
- [2] Purdue News <https://www.purdue.edu/newsroom/releases/2016/Q3/imaging-uses-photothermal-effect-to-peer-into-living-cells.html>
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On April 13th the Purdue Institute of Inflammation, Immunology and infectious Disease hosted a student social at Marriott Hall. We had a turnout of 50 students from multiple disciplines. Snacks and drinks were served when we started with some team building activities of grouping those in the same department/areas, then we mixed it up a bit with matching years at Purdue, we asked them to find students in similar years as themselves. This group became very competitive with each other when it came time to work on the tallest tower competition with spaghetti and marshmallows, there was one group that held on for the win. That group included Corey Moore, Jozlyn Clasman, Kristina Kesely, Brenda Gonzalez, Frank Vago, and Stephanie Angel. Congratulations to them! All around congratulations to the participants, we believe the entire evening was considered a win for all based on the conversations and groups were flowing.



Accepting applications...

Burroughs Wellcome Fund's

Investigators in the Pathogenesis of Infectious Disease

Pre-proposals deadline: July 14, 2017

[Request for Proposals](#)

About the Award

The Investigators in the Pathogenesis of Infectious Disease (PATH) award provides \$500,000 over five years to support accomplished investigators at the assistant professor level to study pathogenesis, with a focus on the interplay between human and microbial biology, shedding light on how human and microbial systems are affected by their encounters.

Details

The Investigators in the Pathogenesis of Infectious Disease program provides opportunities for assistant professors to bring multidisciplinary approaches to the study of human infectious diseases. The goal of the program is to provide opportunities for accomplished investigators still early in their careers to study what happens at the points where the systems of humans and potentially infectious agents connect. The program supports research that sheds light on the fundamentals that affect the outcomes of these encounters: how colonization, infection, commensalism, and other relationships play out at levels ranging from molecular interactions to

systemic ones.

PATH is a highly competitive award program that provides \$500,000 over a period of five years to assistant professors. The awards are intended to give recipients the freedom and flexibility to pursue new avenues of inquiry, stimulating higher risk research projects that hold potential for significantly advancing understanding of how infectious diseases work and how health is maintained.

Eligibility

The competition will employ a two-stage process. After review of pre-proposals, full proposal invitations will be sent by October 2, 2017.

All applicants will be required to complete a web-based questionnaire assessing their eligibility to apply for this award. If eligibility criteria are met, applicants will be automatically directed to the web-based pre-proposal application.

It is strongly recommended that potential applicants review the [Request for Pre-proposals](#) before accessing the eligibility questionnaire.

Questions

BWF staff will hold a final conference call for applicants who have questions about the program:

Dates: **June 26, 2017**

Time: 3:00 p.m. Eastern Daylight Time

Dial in number for all calls: 800-247-5110

Passcode for all calls: BWF

View the [Frequently Asked Questions](#) page.

If your question is not answered after reviewing the FAQs, email vmcgovern@bwfund.org with "2018 PATH" as the subject line.

[BWF PATH RFP Pre proposal.pdf](#)

2017 Linda & Jack Gill Graduate Student Award

Application deadline is **Wednesday, August the 30th**

I would appreciate it if you could pass this e-mail along to faculty in your program who might have an eligible student (a current student predicted to finish within 12 months of nomination or a student who has defended within the last 12 months).

At this year's Gill Symposium, we will once again be presenting the "Linda and Jack Gill Graduate Student Award" to recognize an exceptional graduate student in the Life Sciences from IUB, IUPUI or Purdue. The details of the award and the nomination process are described in a letter that can be found at <http://www.indiana.edu/~gillctr/grAward.php>

Please note that for this year's event, we are not asking the awardee to present his/her thesis work at the symposium. The deadline for application submissions is Wednesday, **August the 30th**.

Thank you,
Cary Lai

A Linda and Jack Gill Scholar of Neuroscience & Professor of Psychological & Brain Sciences
Indiana University
MSBII- Room 150A
702 N. Walnut Grove Ave.
Bloomington, IN 47405

Walther Oncology Physical Sciences & Engineering

Research Embedding Program

Request for Embedding Project Proposals

Initial Tier One Planning Projects (\$40,000 each)

Tier Two Follow-up Projects (Up to \$200,000 - \$250,000 each)

Tier one Due Dates: September 6, 2017, and Jan 10, 2018

The Walther Oncology Physical Sciences and Engineering Research Embedding Program (Walther Embedding Program), a joint program between the Indiana University Simon Cancer Center (IUSCC) and Purdue Center for Cancer Research, announces Phase 2 of the Embedding Program. The program is funded by the Walther Cancer Foundation with the goal of creating an environment where clinical perspectives drive the design of new technologies and predictive models to increase the effectiveness of cancer detection, diagnosis, and treatment. The program funds interdisciplinary, collaborative projects between Purdue University and IUSCC. Each team must include: 1) at least one Purdue faculty PI either from the physical or chemical sciences, computer science, mathematics, or engineering, 2) at least one senior clinical faculty PI from the IUSCC, 3) a Purdue postdoctoral trainee/senior graduate student, and 4) an IUSCC medical fellow/resident/junior faculty. There is an expectation that each funded trainee will spend significant time embedded in the other team members' laboratory/environment or clinic.

Successful Research Embedding Teams will be awarded funds to support the following:

1. Postdoctoral trainee/senior graduate student salary
2. Medical fellow/resident/junior faculty salary
3. Project supplies as appropriate to the project
4. Travel between institutions

The program is structured in a two-tier award system.

Tier One

Tier One projects(\$40,000/project) will support small, "embedding" pilot projects for the development of innovative ideas for the clinical translational of new technologies. Successful Tier One projects, upon completion, will have demonstrated: 1) an in-depth, impactful, and implemented embedding plan for the junior trainees (postdocs, senior graduate students, medical fellows/resident, or IUSCC junior faculty) in each research team; 2) a carefully developed research plan that demonstrates the clinical influence in the design of advanced technologies/models/tools; and 3) preliminary prototype/data/technology that demonstrates the feasibility and clinical impact of the project. The project period is five months and no-cost extensions are not allowed. There are two application deadlines for the Tier One program: September 6, 2017, and Jan 10, 2018. (Online submission will be open on August 1, and December 1, 2017.)

Tier Two

Based on the successful implementation of the embedding plan, and scientific and technical merit, the three most successful Tier One projects will be awarded up to an additional \$200,000 - \$250,000 each during the Tier Two, or implementation phase of the project. During this phase, a continued iterative refinement will occur through scheduled progress meetings with the Walther Embedding Program leadership team. Tier Two project period is one year and six months.

All project are expected to result in a high impact on the career direction of the funded trainees, high quality publications and as appropriate, applications to federal funding agencies for fellowships or grants or advancement to commercialization of new technologies/tools.

Interested faculty in need of collaborators should contact Luanne Bermel at Purdue University (lm1@purdue.edu; 765.496.9316) or Elizabeth Parsons at the IUSCC (eparsons@iupui.edu; 317.278.0078).

Join NIAID and make a difference!

Postdoctoral Position Available

The NIAID Laboratory of Infectious Diseases is soliciting applications for a postdoc intramural research training award position in the Structural Virology Section to study how positive-sense RNA viruses enter human host cells, replicate, and evade the immune response.

Successful applicants should hold a Ph.D. and/or M.D., have less than five years of postdoctoral experience, and experience in immunology or virology.

Applicants may be U.S. citizens or permanent residents; for a visiting fellowship, visa requirements apply.

Visit Office of Intramural Training and Education for more information about the position and to apply.

Visit NIAID Careers for more information about working in NIAID's dynamic atmosphere.

HHS, NIH, and NIAID are equal opportunity employers.

Funding Opportunities

Opportunity	Award Amount	Deadline
<u>**DOD-NMLC Research and Development of Protective Vaccines and Other Countermeasures Against Infectious Disease Agents of Military Importance</u>	<i>Varies</i>	<i>July 21, 2017</i>
<u>NIH Research Education Program Grants for CryoEM Curriculum Development (R25)</u>	<i>Varies</i>	<i>July 25, 2017</i>
<u>NIH Global Infectious Disease Research Training Program (D43)</u>	<i>230,000</i>	<i>July 27, 2017</i>
<u>DOD-Army USSOC Broad Agency Announcement Award</u>		<i>July 28, 2017</i>
<u>NIH Regional Consortia for High Resolution Cryoelectron Microscopy (U24)</u>	<i>Varies</i>	<i>August 7, 2017</i>
<u>NIH Oral HIVacc: Synergistic Strategies to Systemic Vaccination (R01)</u>	<i>Varies</i>	<i>November 24, 2017</i>
<u>NIH Notice of Intent to Publish Funding Opportunity Announcements to Promote Implementation Science (R01) and Dissemination and Implementation Studies (R18)</u>	<i>Varies</i>	<i>Calendar Year</i>
<u>NIH-NIAID Omnibus Broad Agency Announcement</u>	<i>Varies</i>	<i>Varies</i>

****Newly added**

Additional Resources from NIH:
<https://public.csr.nih.gov/Pages/csrwebinar.aspx>

Send us your images and news stories! Images and stories can be deposited [here](#), or email us at pi4d@purdue.edu



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