

**Institute for Drug Discovery**

**5th Annual Symposium Agenda**

**Friday, September 28th, 2018**

**Stewart Center 218ABCD**

 8:30 a.m. **Registration**

 9:00 a.m. **Welcome**

**Zhong-Yin Zhang**, Head, Department of Medicinal Chemistry and Molecular Pharmacology and Director, Purdue Institute for Drug Discovery

 9:05 a.m. **Opening Remarks**

**Suresh Garimella**, Executive Vice President for Research and Partnerships and the Goodson Distinguished Professor of Mechanical Engineering

 9:15 a.m. **Keynote Presentation**

*“Neuroscience Therapeutics through the 2020 Lens”*

**Min Li**, Senior Vice President for Neuroscience, GlaxoSmithKline

10:15 a.m. **Break**

10:30 a.m. **Session 1 - Purdue Faculty Focus**

10:30 – 10:45 **Philip Low**

*“Involvement of a Novel SH2 Domain in the Pathologies of Malaria, Sickle Cell Disease, Depression and Autism”*

10:45 – 11:00 **Yuk Fai Leung**

*“Discovery new drugs for retinal degeneration by zebrafish research”*

11:00 – 11:15 **Riyi Shi**

*“Development of K+ channel blockers as effective treatments to restore axonal conduction in trauma and disease”*

11:15 – 11:30 **Dave Thompson**

11:30 – 11:45 **Elsje Pienaar**

 *“Computational approaches to infectious disease drug development”*

11:45 – 12:00 **Emily Dykhuizen**

 *“Targeting epigenetic regulation of viral latency”*

12:00 p.m. **Lunch and Poster Session**

1:15 p.m. **Keynote Presentation**

*“AKTivation Mechanisms”*

**Philip Cole**, Professor of Medicine and Biological Chemistry and Molecular Pharmacology, Harvard University

2:15 p.m. **Session 2 - Programmatic Area Winners**

2:15 – 2:20 **Gaurav Chopra**

 *“New inhibitors against cancers harboring secondary kinase mutations”*

2:20 – 2:25 **Bumsoo Han**

*“Program of precision pharmaceutics for precision medicines”*

2:25 – 2:30 **Tiffany Lyle**

*“Development of a novel BBB-on-a-chip model to improve selection of therapeutics”*

2:30 – 2:35 **Greg Hockerman**

“*Discovery of subtype-selective ion channel inhibitors targeting extracellular toxin binding domains”*

2:35 – 2:40 **Seung-Oe Lim**

*“A new strategy of immunotherapy by combining Src homology domain-containing phosphatase 2 inhibition and immune checkpoint blockade”*

2:40 – 2:45 **Amy Brewster**

*“β-arrestin 1 - a novel target for seizure disorders”*

2:45 – 2:50 **Mohamed Seleem**

*"Interdisciplinary program in antimicrobial drug discovery using repurposed small molecule drugs”*

2:50 – 2:55 **Markus Lill**

*“DNA-encoded, drug-like libraries based on privileged scaffolds generated by novel chemistry”*

2:55 – 3:00 **Daisuke Kihara**

*“Deep neural network‐assisted protein structure modeling for drug development from low resolution 3D cryo‐electron microscopy maps”*

3:00 p.m. **Break**

3:15 p.m. **Session 3 – Late Breaking Research**

3:15 – 3:22 **Julia Laskin**

3:22 – 3:29 **Dan Flaherty**

 *“Targeting AC1 for treating chronic pain”*

3:29 – 3:36 **Sulma Mohammed**

*“Lymph-circulating tumor cells show distinct properties to blood-circulating tumor cells and constitute extraordinary efficient metastatic precursors”*

3:36 – 3:43 **Jean Chmielewski**

*“Stalking elusive pathogenic bacteria with cationic amphiphilic polyproline helices: diving into human cells to treat infections”*

3:45 p.m. **New PIDD-Affiliated Faculty Introductions**

 3:45 – 3:52 **Bram Axelrod**

*“The Axelrod Research Group - Laboratory for chemical synthesis and bioorganic chemistry”*

 3:52 – 3:59 **Betsy Parkinson**

*“The Parkinson Lab – Induction of cryptic biosynthetic gene clusters for the discovery of novel bioactive natural products”*

4:00 p.m. **Keynote Presentation**

*“Targeting Protein Degradation for New Therapeutics”*

**Shaomeng Wang**, the Warner-Lambert/Parke-Davis Professor of Internal Medicine, University of Michigan

5:00 p.m. **Announcement of Poster Session Winners**

5:05 p.m. **Closing remarks**

