

IUSM-IUB Chemical Biology Day
Friday, February 13, 2015
Bradford Woods

AGENDA

- 8:00-8:30 Registration and Continental Breakfast
- 8:30-8:40 Welcome and remarks
David Wilkes, Executive Associate Dean for Research, IUSM
James Musser, Associate Dean for Natural & Mathematical Sciences and Research,
College of Arts and Sciences, IUB
- 8:40-8:50 Overview of the Center and Chemical Biology at IUSM – Zhong-Yin Zhang
- 8:50-9:00 Overview of Chemical Biology at IUB – David Giedroc
- 9:00-10:30 Scientific Session I – Disease Biology and novel therapeutic approaches
Chair: Zhong-Yin Zhang
- 9:00-9:15 “Small molecule inhibitors of PSD95-nNOS protein- Protein interactions for neuropsychiatric disorders”
Anantha Shekhar (Psychiatry)
- 9:15-9:30 “Targeting the tumor microenvironment to treat plexiform neurofibromas”
Wade Clapp (Pediatrics)
- 9:30-9:45 “Organismal models for foundational and translational research”
Brian Calvi (Biology)
- 9:45-10:00 “Epigenetic strategies in ovarian cancer”
Daniela Matei (Medicine)
- 10:00-10:15 “Sizing up *Streptococcus pneumoniae*: Division mechanisms that impact cell shape, size, and chaining”
Malcolm Winkler (Biology)
- 10:15-10:30 “The next wave of precision medicine: The importance of system pharmacology in drug discovery”
Lang Li (Medical & Molecular Genetics)
- 10:30-11:00 Coffee Break (with poster sessions by core directors)
- 11:00-12:30 Scientific Session II – Chemical Biology and enabling technologies
Chair: David Giedroc
- 11:00-11:15 “Carbohydrates and therapeutics design”
Nikki Pohl (Chemistry)

- 11:15-11:30 “Small molecules to explore protein-protein interactions in cancer and neurological disorders”
Samy Meroueh (Biochemistry and Molecular Biology)
- 11:30-11:45 “Developing antivirals the paradoxical way: Enhancing virus assembly”
Adam Zlotnick (Molecular and Cellular Biochemistry)
- 11:45-12:00 “Investigating the antibacterial potential of GroEL/ES inhibitors”
Steve Johnson (Biochemistry and Molecular Biology)
- 12:00-12:15 “Virus-like Particles: Targeted diagnostic imaging and directed immune responses”
Trevor Douglas (Chemistry)
- 12:15-12:30 “Toward recording hundreds of neurons for chemical assays”
John Beggs (Physics)
- 12:30-2:00 Lunch and faculty speed-networking event
- 2:00-3:00 Three concurrent chaired breakout sessions – to identify needs and develop a roadmap to make the Center unique and first-rate
- Breakout session #1: Opportunities and goals for Center of Chemical Biology and Drug Discovery
- Breakout session #2: Ways to promote and enhance collaboration between the two campuses in the area of Chemical Biology and Drug Discovery
- Breakout session #3: Education and training opportunities for graduate students and fellows
- 3:00-4:00 Executive reports by session chairs to the whole group, rough outline of a roadmap (developed in a way that captures the strengths, developing something unique, coincident with the vision of IBRI, etc.)
- 4:00 Adjourn