

UF Drug Discovery Symposium – 2017

Thursday 21st September

- 11.30 – 1.30 pm Registration and setting up posters (*Lunch/snacks will be served*)
- 1.30 – 2.00 pm **Welcome Address and Introductory Remarks:**
Hendrik Luesch; *Director, Center for Natural Products Drug Discovery and Development (CNPd3)*
Maureen Keller-Wood; *Associate Dean for Research and Graduate Education, UF College of Pharmacy*
Rolf Renne; *Associate Director, UF Health Cancer Center (UFHCC)*
- 2.00 – 2.45 pm **Plenary 1: Structural Principles of Small Molecule Mediated Ubiquitin Ligase Targeting**
Eric Fischer, *Assistant Professor, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA*
- 2.45 – 3.45 pm **Session 1: Anti-Infective Natural Product Drug Discovery**
- Anti-infective Natural Products from Niche Habitats**
Bill Baker, *Professor, Department of Chemistry, University of South Florida*
- In Search of Next Generation Antimalarials**
Debopam Chakrabarti, *Professor and Division Head, Molecular Microbiology Division, Burnett School of Biomedical Sciences, University of Central Florida*
- 3.45 – 4.45 pm **Graduate Student and Postdoctoral Session**
(Moderator, David Newman)
Presentations by graduate students and postdoctoral fellows (10 min presentations)
- 4.45 – 6.15 pm POSTER session (*Refreshments will be served*)
- 7.00 pm SPEAKERS DINNER

Friday 22nd September

- 7.00 – 8.00 am Registration (*Continental breakfast will be served*)
- 8.15 – 9.00 am **Plenary 2: A New Way to Target the Proteasome for Cancer Chemotherapy**
Thomas Kodadek, *Professor, Department of Chemistry, The Scripps Research Institute, Florida*
- 9.00 – 10.30 am **Session 2: Rational and Natural-Product Based Approaches to CNS Disorders and Addiction**
- Identification of a Negative Allosteric Site on Nicotinic Acetylcholine Receptors and its Implication for Drug Design**
Chenglong Li, *Professor, Department of Medicinal Chemistry, University of Florida*
- Novel Approach for Peptide-Based Drug Delivery to Brain**
Predrag Cudic, *Professor, Department of Chemistry and Biochemistry, Center for Molecular Biology and Biotechnology, Florida Atlantic University*
- Kratom (*Mitragyna speciosa*) as a Potential Therapy for Opioid Dependence**
Chris McCurdy, *Professor, Department of Medicinal Chemistry and Director, UF Translational Drug Development Core, University of Florida*
- 10.30 – 10.45 am BREAK (*Refreshments will be served*)
- 10.45 – 12.45 pm **Session 3: Screening of Marine and Terrestrial Natural Products**
- Discovery of Biologically Active Natural Products from the HBOI Enriched Fraction Library**
Amy Wright, *Professor, Center of Excellence for Biomedical and Marine Biotechnology Research, Harbor Branch Oceanographic Institute, Florida Atlantic University*

Biomedical Potential of Benthic Marine Cyanobacteria: A Chemical Ecologist's Perspective
Valerie Paul, *Head Scientist*, Smithsonian Marine Station, Florida

Metabolic Profiling of Zebrafish Embryos by High-Resolution Magic Angle Spin (HRMAS) NMR: A Promising Tool for Elucidating Mechanisms and Pathways of Biological Activity
John Berry, *Professor*, Department of Chemistry and Biochemistry, Florida International University

Dihydromethysticin (DHM) and Flavokawains, Separating Kava's Lung Cancer Chemopreventive Activity and Hepatotoxic Risk
Chengguo (Chris) Xing, *Professor*, Department of Medicinal Chemistry, University of Florida

12.45 – 1.30 pm LUNCH (*Boxed lunch will be served*)

1.30 – 3.00 pm **Session 4: Synthesis-Driven Drug Discovery**

Heterocyclic Antimalarial Compounds with Novel Mode of Action
Yu Yuan, *Assistant Professor*, Department of Chemistry, University of Central Florida

Synthesis of Anti-infective Agents – Something Old, Something New
James Leahy, *Professor*, Department of Chemistry, The Florida Center of Excellence for Drug Discovery and Innovation, University of South Florida

New Carbohydrate Antigen-Based Cancer Immunotherapies
Zhongwu Guo, *Professor*, Department of Chemistry, University of Florida

3.00 – 3.15 pm BREAK (*Refreshments will be served*)

3.15 – 4.15 pm **Session 5: Assay Development and Screening Initiatives at CNPD3**

Toward an Explanation for Abnormal Nuclear Morphologies in Cancer
Tanmay Lele, *Professor*, Department of Chemical Engineering, University of Florida

Drug Screens Targeting The Early Events In The Development Of Pancreas Cancer
Thomas Schmittgen, *Professor*, Department of Pharmaceutics, University of Florida

4.15 – 5.00 pm **Plenary 3: *Natural Product-Based Drug Development: Examples of Pitfalls and How They Were Overcome***
David Newman; *Retired Chief*, Natural Products Branch at National Cancer Institute
Newman Consulting LLC, Wayne, PA

5.00 – 7.30 pm **RECEPTION and AWARDS CEREMONY** (*All are invited*)

5.30 – 6.00 pm Presentation of awards for best posters and oral presentation
6.00 – 7.30 pm Reception