UF Drug Discovery Symposium – 2017

Thursday 21st September

11.30 – 1.30 pm Registration and setting up posters (Lunch/snacks will be served)

Welcome Address and Introductory Remarks:
1.30 – 2.00 pm 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