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<tr>
<td>7.30 am – 8.30 am</td>
<td>Registration &amp; Breakfast <em>(Continental breakfast will be served; Posters will be set up)</em></td>
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| 8.30 am – 8.55 am | **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  
                   Jonathan Licht, *Director*, UF Health Cancer Center (UFHCC) |
| 8.55 am – 9.40 am | **KEYNOTE ADDRESS:** Challenges and Opportunities for Natural Products and Drug Discovery in the Genomic Era  
                   Ben Shen, *Professor, Director, Natural Products Initiative*, Scripps Research, Jupiter, Florida |
| 9.40 am – 12.00 noon | **SESSION 1: FROM GENOMES TO NATURAL PRODUCTS**  
                         Synthetic Biology Approaches for Translating Microbial Genomes into Chemicals  
                         Yousong Ding, *Assistant Professor, Department of Medicinal Chemistry, University of Florida, Gainesville, FL*  
                         Structure and Mechanism of the Biosynthesis Pathway to Microbiome-Produced, Genotoxic Colibactins  
                         Steve Bruner, *Professor, Department of Chemistry, University of Florida, Gainesville, FL* |
| 12.00 noon – 1.00 pm | **LUNCH** *(Boxed lunch will be served)* |
PLENARY 1: Discovery of Selective Non-Small Cell Lung Cancer Toxins
John McMillan, Professor, Department of Chemistry and Biochemistry, University of California, Santa Cruz, CA

SESSION 2: CANCER DRUG DISCOVERY AND TRANSLATION

Structurally Defined Fluorogenic Probe Enables High-Throughput Screening of Inhibitors for Heparanase
Lina Cui, Assistant Professor, Department of Medicinal Chemistry, University of Florida, Gainesville, FL

Combining Experimental and Computational Systems Pharmacological Approaches to Dissect Anti-Cancer Drugs Effects and Associated Toxicities
Sihem Bihorel, Assistant Professor, Department of Pharmaceutics, University of Florida, Orlando, FL

Targeting Polyamine Metabolism in Pancreatic Cancers
Otto Phanstiel, Professor, Department of Medical Education, University of Central Florida, Orlando, FL

COFFEE BREAK (Refreshments will be served)

Discovery of PROTAC Bcl-xL Degraders
Guangrong Zheng, Associate Professor, Department of Medicinal Chemistry, University of Florida, Gainesville, FL

Bcl-xl Proteolysis Targeting Chimeras are Potent Senolytic and Better Anti-cancer Agents
Daohong Zhou, Professor, Department of Pharmacodynamics, University of Florida, Gainesville, FL

Covalent Inhibitors of ER Stress Response: Cancer Can’t Cope
Juan Del Valle, Associate Professor, Department of Chemistry, University of South Florida, Tampa, FL

SHORT BREAK (5 minutes)

On the Trail of a Killer of Metastatic Breast Cancer
Brian Law, Associate Professor, Department of Pharmacology and Therapeutics, University of Florida, Gainesville, FL

Genomic Approaches to Identify Markers Predictive of Response and Novel Targets in AML
Jatinder Lamba, Associate Professor, Department of Pharmacotherapy and Translational Research, University of Florida, Gainesville, FL

Screening for Novel Compounds and Discovering New Targets in Acute Myeloid Leukemia
Christopher Cogle, Professor, Department of Hematological Malignancies & Bone Marrow Transplantation, University of Florida, Gainesville, FL

POSTER SESSION (Drinks and light refreshments will be available)
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| 8.30 am – 9.15 am | **PLENARY 2: Synthetic Sideromycins: Hijacking Microbial Iron Transport for Development of Targeted Antibiotics**
Marvin Miller, *Professor Emeritus, Department of Chemistry & Biochemistry, University of Notre Dame, Notre Dame, IN* |
| 9.15 am – 11.05 am | **SESSION 3: ANTIBIOTICS AND INFECTIOUS DISEASE: FROM DISCOVERY TO THE CLINIC**             |
|               | *Phenazine Antibiotic Inspired Discovery of Bacterial Biofilm-Eradicating Agents*         |
|               | Robert Huigens, *Assistant Professor, Department of Medicinal Chemistry, University of Florida, Gainesville, FL* |
|               | *TB and not TB: Discovering New Drugs for Bad Bugs*                                      |
|               | Kyle Rohde, *Associate Professor, Burnett School of Biomedical Sciences, University of Central Florida, Orlando, FL* |
|               | *Antibiotic Agents Developed Based on AApeptides*                                         |
|               | Jianfeng Cai, *Professor, Department of Chemistry, University of South Florida, Tampa, FL* |
|               | *Title TBD*                                                                               |
|               | Charles Peloquin, *Professor, Department of Pharmacotherapy and Translational Research, University of Florida, Gainesville, FL* |
| 11.05 am – 12.10 pm | **GRADUATE RESEARCH PRESENTATIONS** *(PhD candidates)*                                   |
| 12.10 pm – 1.10 pm | **LUNCH** *(Boxed lunch will be served)*                                                  |
| 1.10 pm – 1.50 pm | **POSTGRADUATE RESEARCH PRESENTATIONS** *(Postdoctoral Fellows)*                          |
| 1.50 pm – 2.35 pm | **PLENARY 3: Development of Novel Therapeutics for Substance Use Disorders**             |
|               | Paul Kenny, *Professor, Department of Neuroscience, Icahn School of Medicine, Mt. Sinai, NY* |
| 2.45 pm – 5.05 pm | **SESSION 4: DRUG ABUSE AND PAIN**                                                        |
Characterization of ADME Properties of Mitragynine, the Major Alkaloid of *Mitragyna speciosa* (Kratom)
Abhisheak Sharma, *Research Assistant Professor, Department of Pharmaceutics, University of Florida, Gainesville, FL*

*Kratom Alkaloids: In vitro and In vivo Pharmacological Mechanisms*
Lance McMahon, *Professor, Department of Pharmacodynamics, University of Florida, Gainesville, FL*

NOP-Related Agonists as a Treatment Option for Pain and Opioid Abuse in Non-Human Primates
Holden Ko, *Professor, Department of Physiology and Pharmacology, Wake Forest School of Medicine, Winston-Salem, NC*

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**Short Break (5 minutes)**

The Diversity of Cyclic Tetrapeptides: Structure-Activity Relationship Lessons Learned for Safer Analgesics
Jane Aldrich, *Professor, Department of Medicinal Chemistry, University of Florida, Gainesville, FL*

Refinement of Cyclic Tetrapeptide Multifunctional Opioid Agonist/Antagonists as Safer Analgesics and Treatments for Opioid Addiction
Jay McLaughlin, *Associate Professor, Department of Pharmacodynamics, University of Florida, Gainesville, FL*

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5.10 pm – 5.45 pm  **SPECIAL TOPIC: Intestinal Microbiota: The Barometer of Health and Disease**  
Christian Jobin, *Professor, Department of Medicine, University of Florida, Gainesville, FL*

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5.45 pm – 7.30 pm  **AWARD CEREMONY & RECEPTION**