

Meeting Schedule

Tuesday, May 23, 2023

7:30-8:30 AM Breakfast

8:30 AM Welcoming Remarks, Room 3050

8:35-9:35 AM Podium Session I: *Shirin Shabahang, Presiding*

8:35 AM O1

PSEUROTIN A CULTURE CONDITIONS OPTIMIZATIONS AND VALIDATION AS A METASTATIC CASTRATION-RESISTANT PROSTATE CANCER RECURRENCE-SUPPRESSING LEAD

Ashkan Hassankhani Rad

School of Basic Pharmaceutical and Toxicological Sciences, College of Pharmacy, University of Louisiana at Monroe, 1800 Bienville Drive, Monroe, Louisiana 71201.

8:50 AM O2

DESIGN AND SYNTHESIS OF A VERU-111, GALACTOSE CONJUGATE FOR THE TREATMENT OF LIVER CANCER

Hanxuan Li

Department of Pharmaceutical Sciences, College of Pharmacy, the University of Tennessee Health Science Center, Memphis, TN.

9:05 AM O3

STRUCTURE-BASED DRUG DESIGN TO ENHANCE SELECTIVITY OF THE PYRIDO-PYRIMIDIONE BASED CpCDPK1 INHIBITOR, UH15-16, FOR CRYPTOSPORIDIOSIS

Wissarut Wijitrmektong

Department of Pharmaceutical and Pharmaceutical Sciences, University of Houston, Houston, Texas, 77204. Department of Allergy and Infectious Diseases, University of Washington, Washington, 98109, 3Calibr, a division of The Scripps Research Institute, La Jolla, CA, USA, 4Department of Pediatrics, Emory University, Atlanta, GA, USA; Atlanta VA Medical Center, Decatur, GA, USA

9:20 AM

O4

ELUCIDATING MOLECULAR MECHANISM OF PUFAS MODULATION OF ACID-SENSING ION CHANNEL 3 (ASIC3) THROUGH MOLECULAR DOCKING AND MOLECULAR DYNAMICS SIMULATIONS

Ramya Bandarupalli

Department of BioMolecular Sciences, School of Pharmacy, University of Mississippi, MS 38677

9:35-9:45 AM

Break

9:45-11:00 AM

Poster Session 1, Room 3001/3007

11:00 AM-12:00 PM A. Nelson Voldeng Memorial Lecture

Stephen F. Martin, Ph.D., University of Texas at Austin

“Bridging Known and Unknown Unknowns: From Natural Products to Unmet Needs in Neuroscience”

12:15-1:15 PM

Lunch

1:15-1:45 PM

Reflections by Dr. Hal Kohn

Professor Emeritus, University of North Carolina at Chapel Hill

Recipient of a Lifetime Achievement Award by the University of Houston College of Pharmacy

2:00-3:00 PM

Podium Session 2: Eunsun Park, Presiding

2:00 PM

O5

TRANSIENT RECEPTOR POTENTIAL CANONICAL 3 (TRPC3): A PROMISING TARGET FOR ALZHEIMER’S DISEASE

Jiaxing Wang

¹Department of Pharmaceutical Sciences, College of Pharmacy, the University of Tennessee Health Science Center, Memphis, TN. ²Department of Pharmacology, the University of Tennessee Health Science Center, Memphis, TN. ³Neuroscience Institute, the University of Tennessee Health Science Center, Memphis, TN

2.15 PM

O6

USEFUL APPLICATIONS OF IN SITU FORMATION OF HYDRAZOIC ACID: HYDROLYTIC CLEAVAGE OF AMINES IN N-ACYL AMIDINES AND α,β -UNSATURATED β -AMINES

Benjamin J. Sawyer

Department of BioMolecular Sciences and Research Institute of Pharmaceutical Sciences, School of Pharmacy, University of Mississippi, University, MS 38677, U.S.A.

2:30 PM

O7

THE TOBACCO β -CEMBRENEDIOL: A PROMISING PROSTATE CANCER RECURRENCE SUPPRESSOR LEAD VIA MODULATION OF TRYPTOPHAN CATABOLISM

Ethar A. Mudhish

School of Basic Pharmaceutical and Toxicological Sciences, College of Pharmacy, University of Louisiana at Monroe, 1800 Bienville Drive, Monroe, LA 71201. Department of Integrated Medical Education, Thomas F. Frist, Jr. College of Medicine, Belmont University, 1900 Belmont Boulevard, Nashville, TN 37212

2:45 PM

O8

MOLECULAR MODELING STUDIES TO PREDICT FMLH LECTIN-BINDING SMALL MOLECULE ANTI-ADHESIVES FOR THE PREVENTION OF ESCHERICHIA COLI-INDUCED URINARY TRACT INFECTIONS

Priyanka Samanta

Department of BioMolecular Sciences, School of Pharmacy, University of Mississippi, University, MS, USA, 38677-1848. Research Institute of Pharmaceutical Sciences, School of Pharmacy, University of Mississippi, University, MS, USA, 38677-1848.

3:00-3:15 PM

Break

3:15-4:30 PM

Poster Session 2, Room 3001/3007

6:00-8:00 PM

MALTO Meeting Banquet, UH Student Center South, SC South Ballroom (West)

7:00-9:00 PM

Social Recreation and Relaxation, UH Student Center South, Game Room

Wednesday, May 24, 2023

8:30 AM Breakfast

9:30 – 11:00 AM Podium Session 3: Wissarut Wijitrmektong, Presiding

9:30 AM O9

NOVEL TUBULIN INHIBITORS OVERCOME PACLITAXEL RESISTANT PROSTATE CANCER AND CROSS THE BLOOD BRAIN BARRIER TO TREAT BREAST CANCER BRAIN METASTASIS

Hartman, Kelli

Department of Pharmaceutical Sciences, College of Pharmacy. Department of Pathology, College of Medicine. The University of Tennessee Health Science Center, Memphis, TN.

9:45 AM O10

DEVELOPING ACTIVATORS FOR MIXED LINEAGE KINASE DOMAIN-LIKE (MLKL) AS TERMINAL EFFECTOR OF NECROPTOSIS

Shirin Shabahang

¹Department of Chemistry, University of Houston, Health Building 2, Houston, TX, 77204, USA. ²Department of Developmental, Molecular & Chemical Biology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA, 02111, USA. ³Department of Pharmacological and Pharmaceutical Sciences, University of Houston, Health Building 2, Houston, TX, 77204, USA.

10:00 AM O11

MICROTUBULE DESTABILIZING AGENT SB-216 SHOWS ANTI-CANCER EFFICACY IN PANCREATIC CANCER

Rui Wang

Department of Pharmaceutical Sciences, College of Pharmacy, the University of Tennessee Health Science Center, Memphis, TN.

10:15 AM O12

MORPHOLINE-MEDIATED DEFLUORINATIVE CYCLOADDITION OF GEM-DIFLUORO ALKENES AND ORGANIC AZIDES

Mario Djugovski

*Department of BioMolecular Sciences, University of Mississippi, School of Pharmacy,
University, MS 38677, USA*

10:30 AM O13

NOVEL CYSTEINE-BASED PEPTIDOMIMETICS WITH

Destinee Manning

*Department of Biomolecular Sciences, University of Mississippi School of Pharmacy, USA,
Department of Molecular Microbiology, Washington University in St. Louis School of Medicine,
St. Louis, USA*

10:45 AM O14

DIFLUOROMETHYLATION OF IN SITU FORMALDEHYDE TO CONSTRUCT 2,2-DIFLUOROETHANOLS

Baharul Islam

Department of BioMolecular Sciences, University of Mississippi, University, Mississippi, United States.

11:00 – 11:15 AM Break

11:15 AM –12:15 PM MALTO Business Meeting, Room 3050

12:15-12:30 PM Award Presentations

*2016 Robert A. Magarian Podium Presentation Award
2016 Thomas L. Lemke Poster Presentation Award
2016 Ronald F. Borne Postdoctoral Poster Presentation Award*

12:30 PM Lunch/Adjourn