Dear Colleagues:

On behalf of the organizing committee, our sponsors, and the University of Florida, it is our pleasure to welcome you to the 3rd Annual Metabolomics Symposium on Clinical and Pharmaceutical Solutions through Analysis (CPSA Metabolomics 2017). Our meeting promises to be timely with regard to unique analytical perspectives in the field and feature lively discussions, memorable interactions, and the sharing of real-world experiences.

The goal of CPSA Metabolomics is to provide timely, in-depth reviews of innovative technology and emerging practices in the clinic through open discussion of industry related issues and needs. Our aim is to feature scientific leaders within diversified symposia and sponsored events specially designed to be highly interactive where professionals can openly share their experiences and visions in a collegial setting – where technology and solutions meet!

We are delighted to feature, Dr. Irwin Kurland of the Albert Einstein College of Medicine, as our plenary speaker. His lecture “Metabolic Phenotyping: From Model Organisms to Man” will provide insight into his premier research and his novel stable isotope based flux phenotyping methodology on a mass spectrometry platform.

The symposia sessions provide a wonderful opportunity to interact with industry leaders as well as openly share experiences – from the laboratory to the clinic. Specific issues and needs from previous CPSA annual meetings in the USA, China and Brazil will continue at CPSA Metabolomics and feature: 1) clinical applications and workflows; 2) crossover technologies and methods derived from proteomics; 3) biomarker discovery; 4) informatics and multiplex/patterned data sets; 5) preferred analytical platform; 6) sample preparation and chemistries; and 7) novel multianalyte quantitation approaches.

Our annual meeting will once again feature poster sessions, an interactive sponsors exhibition, and a graduate student workshop that highlights experiences and lessons learned by our distinguished Mentors – what they wish they would have known when they were students! Pre-conference events – CPSA OPEN and CPSA 5K – along with our Workshop and Metabolomics Lecture Series will help set the stage for our annual meeting.

We are in the midst of a most challenging time in healthcare. Please help lead the way by actively participating, freely interacting, and sharing ideas during the event and afterwards. Creativity and imagination have been key ingredients to making CPSA meetings – here in Gainesville and all over the world – a memorable experience. In this way, a genuine passion for the analytical sciences can lead to personal growth as well as opportunities to significantly impact the field through participation and leadership.

Finally, special thanks go to the sponsors of CPSA Metabolomics. In particular, we wish to thank Bruker Daltonics, McKinley Scientific, New Objective, SCIEX, Thermo Fisher Scientific, Waters Corporation, and the University of Florida for giving this meeting life. Thank you! All CPSA sponsors share the passion and commitment for both innovative technologies and relationships.

Enjoy the meeting – a celebration of the sciences – and of course, where technology and solutions meet!

Sincerely,

Mike S. Lee, Ph.D.
CPSA Founder

Timothy J. Garrett, Ph.D.
CPSA Metabolomics Program Chair
2017 ORGANIZING COMMITTEE

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SYMPOSIA & SESSIONS

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Martin Steel
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Milestone Development Services

Thank You!

The CPSA Metabolomics Symposium is made possible by the broad-based support of industry sponsors. The passion for the analytical sciences and the accelerated discovery and development of pharmaceuticals is shared by each sponsor. As a result, the event is dedicated to promoting awareness and understanding of the issues and needs associated with research and development in the hopes of inspiring significant advances in the field.
EVENTS

Sunday March 12

4:00 PM - 6:00 PM CPSA 5K CPSA Charitable Foundation
Meet & Start at UF Hilton and Conference Center
Where Technology and Relationship Meet the Road
Join us for the CPSA 5K! Walk, run or bike the scenic course through the beautiful UF campus.
Organizers: Timothy Garrett, University of Florida; Nicole Matz, PRA Health Sciences; Michelle Reid, University of Florida; Martin Steel, McKinley Scientific; Shane Needham, Alturas Analytics;
Together We Can Go Farther!

Monday March 13

9:00 AM CPSA OPEN GOLF EVENT CPSA Charitable Foundation
Mark Bostick Golf Course
Organizers: Paul Corcoran, McKinley Scientific and Steve Fannin, Bruker Daltonics

WORKSHOP & RECEPTION

10:00 AM REGISTRATION 3rd Floor Lobby
1:00 PM - 4:00 PM PRE-CONFERENCE WORKSHOP
Don Chace, Medolac Laboratories, and Mike Lee, Milestone Development Services
5:00 PM - 7:00 PM RECEPTION & METABOLOMICS LECTURE SERIES
Hosted by Waters Corporation
- Opening Remarks Timothy Garrett, University of Florida and Mike Lee, Milestone Development Services
- Welcome and Introduction Suraj Dhungana, Waters Corporation
- Applications of Metabolomics for Clinical and Translational Research Amrita Cheema, Georgetown University

Harness the power of metabolomics to gain in-depth biological insights and advance scientific research
By collaborating with the scientific community, we’ve developed pioneering Thermo Scientific™ Orbitrap™ MS solutions combined with the most comprehensive breadth of chromatographic separations to detect and resolve chemically diverse compounds in the metabolome. These industry-leading solutions deliver the most precise, accurate, and confident metabolite profiles and identifications more quickly so you can go beyond the limit of what was ever thought possible.

Learn more at booth #1 and be sure to attend our lunch seminar on Tuesday, March 14th from 11:30 a.m. to 1:30 p.m.

Find out more at thermofisher.com/metabolomics
Routine Metabolomics with the X500R
Identify and quantify large numbers of metabolites on a routine basis—fast.

The SCIEX X500R QTOF is an everyday, robust, integrated benchtop system with the performance needed for metabolic profiling and requires minimal MS expertise.

Simplified Operation
Engineered for simplicity and service accessibility—Single Injection Flow and an N-optic design, heated TOF, integrated calibration all with a minimized footprint.

Routine and Robust
Automated and integrated mass calibration allows enhanced stability while new diagnostic and tuning tools allow for more uptime.

Libraries Enable Higher Confidence in Metabolite Identification
Get to actionable results quickly with user-friendly processing software and a validated biologically relevant metabolite library that can be expanded with other validated libraries.

Maximize your Lab’s Efficiency
The X500R QTOF, with its TOF technology has a compact TOF tube and a footprint of 25 cubic-feet, it occupies less lab space than any other HRMS on the market today.

Visit the SCIEX booth to learn how to simplify your metabolomics workflow. Measure, process, characterize, and translate your research into biological knowledge fast.

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- Structure elucidation for bio and chemical research in small and peptide molecules
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MetaSite/MassMetaSite/MassChemSite/Webmetabase
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Bruker Is the Smart Solution For All Your Metabolomics Challenges

- Gain deeper biological insight into complex samples
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Innovation with Integrity
PROGRAM

Tuesday March 14

11:30 AM - 1:30 PM  LUNCH: VENDOR SPOTLIGHT & POSTER REVIEW
Sponsored by Thermo Fisher Scientific
- Removing the Data Processing Bottleneck: Move Efficiently from Data to Structure to Pathway with NEW Thermo Scientific™ Compound Discoverer™ 2.0
  Amanda Souza, Thermo Fisher Scientific
- Profiling of Organic Acids in Mouse Muscle Using Ion Chromatography/MS
  Christopher Petucci, Sanford Burnham Prebys Medical Discovery Institute
- Using Proteometabolomics to Examine Mechanisms of Drug Resistance in Multiple Myeloma
  John Koomeen, H. Lee Moffitt Cancer Center and Research Institute
  Lunch served in lobby. Join the session, mix and mingle with our vendors and poster authors

1:45 PM - 3:00 PM  SYMPOSIUM SESSION
Personalized Metabolism
Discussion Leaders: Don Chace, Medolac Laboratories and Emily Ehrenfeld, New Objective
- Using Proteometabolomics to Examine Mechanisms of Drug Resistance in Multiple Myeloma
  John Koomeen, H. Lee Moffitt Cancer Center and Research Institute
- Translational Metabolomics in Biopharma
  Michael Reij, Bristol-Myers Squibb
- Metabolomics in the Clinic: Discriminating Between Research/Development and Application/Service
  Don Chace, Medolac Laboratories

3:30 PM - 5:00 PM  SYMPOSIUM SESSION
Clinical Applications of Metabolomics and It's Role on Diagnosis and Therapeutic Response and Monitoring
Discussion Leader: Gustavo Maegawa, University of Florida
- Use of Ion Chromatography/Mass Spectrometry for Targeted Metabolite Profiling of Polar Organic Acids
  Chris Petucci, Sanford-Burnham Medical Research Institute
- Routine Discovery Metabolomics Workflows on X500R QTOF System
  Matthew Skaley, SCIEX

6:00 PM  SPONSORED SOCIAL EVENT
McKethan Stadium
First pitch: 6:30 pm
Play Ball! Gators vs. Florida State Seminoles
McKethan Stadium on the University of Florida campus

PROGRAM

Wednesday March 15

7:30 AM - 8:30 AM  REGISTRATION & WAKE-UP COFFEE

8:30 AM - 10:00 AM  SYMPOSIUM SESSION
Investigating Homeostasis: Technologies and Methodologies for Drug Discovery
Discussion Leader: John Janiszewski, Pfizer
- Using Metabolism To Support Drug Discovery: From Target Identification To Biomarker Validation
  David Pirman, Agios
- Leveraging MIMOSA-Based Fluxomics To Unravel The Mechanism Of Action of Lead Matter In Early Drug Discovery
  Darren Dunlin, Pfizer
- Fluxing Around: Creating Computational Infrastructure for Metabolic Labeling Experiments
  Abhishek Jha, Elucidata

10:15 AM - 11:45 AM  SYMPOSIUM SESSION
Multi-Omic Integration in the Clinical Sciences
Discussion Leader: Irwin Kurland, Albert Einstein College of Medicine
- Propionate Induces an Apparent Conflict Between Fluxomic and Metabolomic Measures in the Perfused Mouse Heart
  Matthew Merritt, University of Florida
- The Age Of Multi-Omics Has Arrived - Accelerating Integrated Perspectives In Biology
  Devin Drew, Thermo Fisher Scientific
- OneOmics™: Integrate Multi-Omics Data Seamlessly in the Cloud
  Matthew Skaley, SCIEX

12:00 PM - 2:00 PM  LUNCH: VENDOR SPOTLIGHT & POSTER REVIEW
Sponsored by Bruker Daltonics
- A Multi-Omics Study Elucidates an Increase in Pio-Production Efficiency
  Gary Kruppa, Bruker
  Lunch served in lobby as you mix and mingle with our vendors and poster authors
PROGRAM

Wednesday March 15

215 PM - 3:45 PM  SYMPOSIUM SESSION

Customers Meet Vendors
Discussion Leader: Alla Kloss, Genzyme

Customer Panel
Darren Dumiao, Pfizer
Harvey Lieberman, Sanofi
David Piman, Agios Pharmaceuticals

Vendor Panel
Ralf Bogumil, Biocrates
Suraj Dhungana, Waters Corporation
Faith Hays, Shimadzu Scientific Instruments
Ken Jones, SCIEX
Gary Knappa, Bruker
Christine Miller, Agilent Technologies
Matthew Skaley, SCIEX
Amanda Souza, Thermo Fisher Scientific

4:00 PM - 5:00 PM  GRADUATE STUDENT SESSION

Catalyzing Curiosity: Bridging Passion and Discovery
Curiosity is perceived to be an innate quality and essential characteristic of any scientist. The ideas, which flow from imagination into high-impact research, are seemingly natural; graduate school, and specifically doctoral education, is the ideal environment to cultivate this creativity and intuition. Let’s examine the relationships between initial questions, unexpected developments, and the growth of new curiosity-driven chemistry.

Mentors: Don Chace, Medolac Laboratories; Paul Carcoran, McKinley Scientific; Gabriele Cruciani, University of Perugia; Steve Fannin, Bruker; Todd Gillespie, Eli Lilly & Co.; Faith Hays, Shimadzu; David Heywood, Waters; Eugene Inman, Eli Lilly and Co. (Ret); John Janszewsks; Pfizer; Alla Kloss, Genzyme; Yuta Li, Merck; Carla Marshall-Waggett, New Objective; Nalini Sadagopan, Agilent Technologies; Martin Steel, McKinley Scientific; Jeremiah Tipton, BioTech & OMIC Solutions; Baljit Ubhi, SCIEX; Richard Yost, University of Florida

5:15 PM   CLOSING REMARKS

Timothy Garrett, University of Florida
From the first precision-crafted SilicaTip™ twenty years ago to the revolutionary PicoChip®, our extraordinary attention to detail and uncompromised performance have provided our collaborators and customers with the dependability and quality they have come to rely upon.

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“We need this to be easy to use... But we don’t want to give up any performance.”

Nathan Yates
University of Pittsburgh

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