18TH ANNUAL SYMPOSIUM Clinical & Pharmaceutical Solutions through Analysis



Where Technology and Solutions Meet

Getting Medicines to Patients Faster by Eliminating the Bottlenecks in Drug Discovery and Development

MEETING PROGRAM

October 5 - 8, 2015 Sheraton Bucks County Langhorne, PA

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WELCOME

October 5, 2015

Dear Colleagues:

Inspiration. Collaboration.

On behalf of the organizing committee and our sponsors, it is our pleasure to welcome you to the 18th annual Symposium on Clinical and Pharmaceutical Solutions through Analysis (CPSA USA 2015). The meeting and related events feature lively discussions, memorable interactions, and the sharing of real-world experiences that focus on the unique challenges facing the modern analytical laboratory and the risks – and reality – of personalized healthcare.

The goal of CPSA is to provide timely, in-depth reviews of innovative technology and emerging practices through open discussion of industry related issues and needs. Our program chairs, Chad Briscoe and Naidong Weng, have followed Paul Corcoran and Gary Valaskovic's vision from last year's annual meeting and developed the theme for CPSA USA 2015:Getting Medicines to Patients Faster by Eliminating the Bottlenecks in Drug Discovery and Development

Our intent is to feature scientific leaders within diversified symposia, colloquia, and sponsored events that are 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 extremely delighted to feature a provocative line up of courses, symposia, colloquia, sponsored events, and distinguished guests. On Monday, Douglas Lewis, President and Scientific Director, United States Drug Testing Laboratories, Inc. will deliver the Distinguished Lecture on "Fetal Alcohol Exposure - A 30 Year Search for a Reliable Biomarker." Our Plenary Lecture on Tuesday will feature David Evans, Vice President Pharmacokinetics, Dynamics & Metabolism at Janssen, on "Mechanism Based Drug Disposition – Building Quality into Our Product Pipeline." Don Chace, Pediatrix Analytical, will deliver the Keynote Lecture on Wednesday, "Kicking it Up a Notch" with New Spices in Clinical Chemistry: Multiple Metabolite, Micro Sampling and LC/MS.

The short courses at CPSA continue to focus on specialized training with a unique workshop-style format that promotes open discussion on current industry practices, emerging applications and first-hand experiences with innovative analytical technologies. Symposia sessions provide a unique forum for opinion leaders to openly share and benchmark industry issues and needs as well as early experiences with new technology and methods. Colloquia sessions provide focus on industrial activities related to regulatory issues and emerging laboratory workflows. These sessions further enhance the specialized training from our CPSA Short Courses.

Communications and media have grown with CPSA and the dynamic use of video and interactive surveys are now ready to be fully integrated into CPSA events – worldwide – Brazil, China, Europe, and USA! Also, our Graduate Student Session will now be formally recognized as the Steven A. Hofstadler Graduate Student Session. Finally, we are excited to share our significant progress with our CPSA Charitable Giving and CPSA Institute initiatives during the Sponsors Dinner event.

We encourage you to actively participate, interact, and share ideas during the event. Creativity and imagination have been key ingredients to making CPSA meetings a memorable experience all over the world. 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.

Special thanks go to the sponsors of this unique event. All CPSA sponsors share the passion and commitment for both innovative technologies and the acceleration of product development. CPSA sponsors and participants are dedicated to the spirit of cooperation. Imagination needed! Sincerely,

Mike S. Lee

Chad Briscoe

Naidong Weng



2015 ORGANIZING COMMITTEE

PROGRAM CO-CHAIRS

Chad Briscoe PRA Health Science Naidong Weng Janssen Research & Development

SYMPOSIA & SESSIONS

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Dave Abramowitz SCIEX

Bradley Ackermann Eli Lilly & Company

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Richard King PharmaCadence Analytical Services

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Joe Siple Drummond Scientific

James Small Merck

Matthew Szapacs GlaxoSmithKline Philip Timmerman Janssen Research & Development

Gary Valaskovic New Objective

Roy Vaz Sanofi

Helen Weng Frontage Laboratories

Naidong Weng Janssen Pharmaceuticals

Tracie Williams

Eric Woolf Merck

Eric Yang GlaxoSmithKline

Nathan Yates University of Pittsburgh

Anthony Yeung Fox Chase Cancer Center

Ismael Zamora Molecular Discovery

LOGISTICS & MANAGEMENT

Communications & Media

Carla Marshall-Waggett New Objective

Martin Steel McKinley Scientific Management & Correspondence

Mike Lee Milestone Development Services

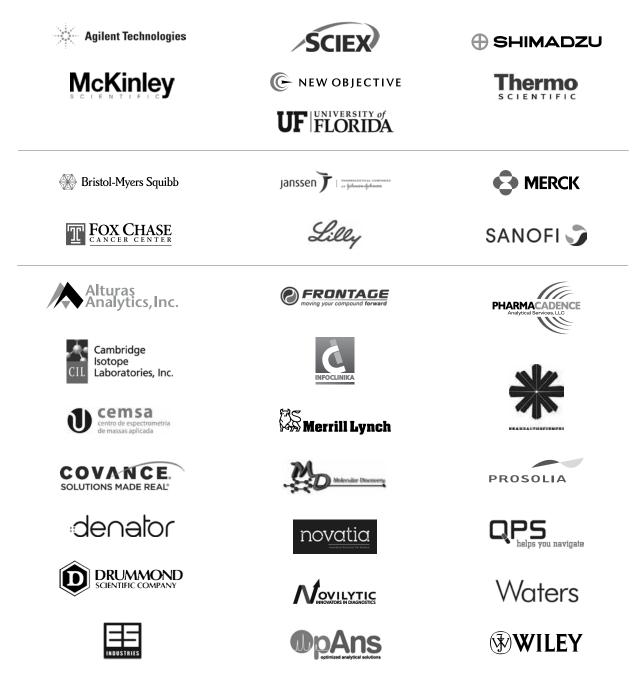
Pols



SPONSORS

Thank You!

The CPSA annual 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.





EXHIBITION

Wednesday October 7

EXHIBITORS	BOOTH
Agilent Technologies	27
Alturas Analytics	1
Biotage	5
Cambridge Isotope Labs	15
Charles River Laboratories	29
Covance	18
Denator	7
Drummond Scientific	4
ES Industries	17
Frontage Laboratories	34
GenTech Scientific	21
InfoClinika	33
InterTek	20
IonSense	11
MAC-MOD Analytical	32
McKinley Scientific	3
Merrill Lynch	23
Molecular Discovery	31
MS Mass Spec Consultants	35
mSpec Group	6
New Objective	2
Novatia	9
Novilytic	25
OpAns	10
PharmaCadence Analytical Services	13
Phytronix Technologies	14
PRA Health Sciences	8
Prosolia	12
QPS	36
Scientific Systems, Inc.	30
SCIEX	16
Shimadzu Scientific	26
Thermo Scientific	37
Titan Software	29
Waters Corporation	19
Wiley & Sons	22

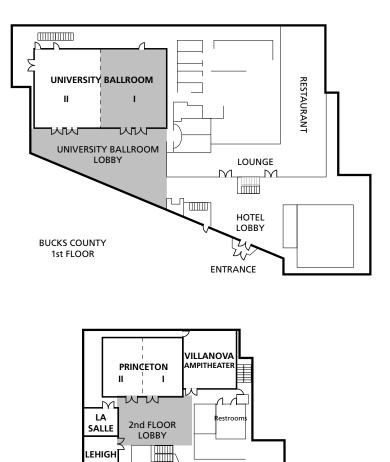
EXHIBIT LOCATIONS

Exhibit booths are located in University I Ballroom, University Ballroom Lobby, and in the 2nd Floor Lobby

Booths 1 - 14 Booths 15 - 27 Booths 28 - 37

University Ballroom I University Ballroom Lobby

2nd Floor Foyer



LEHIGH THE REAL

BUCKS COUNTY 2nd FLOOR

HOTEL

LOBBY (BELOW)

То

Guest Rooms



SHORT COURSES & EVENTS

Monday October 5

7:30 AM - 8:30 AM	REGISTRATION & CONTINENTAL BREAKFAST	
	2nd Floor Lobby	
8:30 AM - 4:00 PM	SHORT COURSES	
Princeton I	Protein ID and Biomarker Analysis by Mass Spectrometry: Challenges and Solutions for Quantification and Differential Analysis Instructors: Nalini Sadagopan, Agilent Technologies, Gary Valaskovic, New Objective, Nathan Yates, University of Pittsburgh	
Princeton II	How to Teach an Old Dog New Tricks: The Use of Traditional and Novel Methods, Practices, Technologies to Quantify Protein Therapeutics in a Regulated Environment Instructors: Shane Needham, Alturas Analytics, Jim Shen, Bristol-Myers Squibb and Dave Abramowitz, SCIEX	
Lehigh	Building a Better Clinical Mass Spectrometry Lab Instructors: Timothy Garrett, University of Florida; Mark Hayward, Active Ingredient Technologies; and Kenneth Lewis, OpAns	
TBA	Human Pharmacokinetic Prediction and Approaches to Identify Rate Determining Step of Drug Absorption and Elimination: Industrial Perspective Instructor: Ayman El-Kattan, Pfizer and Yurong Lai, Bristol-Myers Squibb	
7:30 AM - 9:30 AM NEW	CPSA CHARITY 5K EVENT CPSA Charitable Foundation	
	Tyler State Park, Newtown, PA	
	Organizers: Nicole Matz, PRA Health Science; Guowen Liu, Bristol-Myers Squibb; Naidong Weng, Janssen Research & Development; Helen Weng, Frontage Laboratories	
10:00 AM - 4:00 PM	CPSA CHARITY OPEN GOLF EVENT CPSA Charitable Foundation	
	Makefield Highlands Golf Course, Yardley, PA	
	Organizers: Brad Coopersmith, Waters Corporation; John Butler, Agilent Technologies, and Paul Corcoran, McKinley Scientific	
12:00 PM - 4:00 PM	MOLECULAR DISCOVERY USERS MEETING	
Villanova Amphitheater	Automated Soft-Spot Identification: Success Rate, Limitations, Code Logic and Functionality John Janiszewski, Pfizer	
	► To be announced Christopher Kochansky, Merck	
	What is Molecular Discovery Working on Now in Order to Get More Knowledge from the Same Data Ismael Zamora, Molecular Discovery	



MEETINGS & EVENTS

Monday October 5

4:30 PM - 5:30 PM	EXECUTIVE ROUNDTABLE: WHERE TECHNOLOGY AND SOLUTIONS MEET BUSINESS
University I & II	Hosted by McKinley Scientific
	Discussion Leaders: Lucinda Cohen, Merck; Shane Needham, Alturas Analytics
6:00 PM - 9:00 PM	RECEPTION & SPONSOR'S DINNER
University I & II	Hosted by SCIEX
	Opening Remarks - Disease is the Enemy! Chad Briscoe, PRA Health Science; Naidong Weng, Janssen Research & Development; Mike Lee, Milestone Development Services
	CPSA Charitable Foundation Paul Corcoran, McKinley Scientific; Emily Ehrenfeld, Mozaic Solutions; Joe Fox, SCIEX; Shane Needham, Alturas Analytics; Robyn Rourick, Genentech; Tony Yeung, Fox Chase Cancer Center
	Distinguished Lecture Series
	Fetal Alcohol Exposure - A 30 Year Search for a Reliable Biomarker

Douglas Lewis, United States Drug Testing Laboratories, Inc.





Tuesday October 6

7:30 AM - 8:30 AM	REGISTRATION & CONTINENTAL BREAKFAST
	University Ballroom Lobby
7:30 AM - 8:30 AM	GRADUATE STUDENT / MENTOR BREAKFAST University I & II
8:30 AM – 9:00 AM	WELCOME & OPENING REMARKS - DISEASE IS THE ENEMY!
University I & II	Welcome Mike Lee, Milestone Development Services
	Objectives, Format, and Opening Remarks Chad Briscoe, PRA Health Sciences and Naidong Weng, Janssen Research & Development
9:00 AM - 9:45 AM	PLENARY LECTURE
University I & II	Mechanism Based Drug Disposition – Building Quality into Our Product Pipeline David Evans, Janssen Research & Development

TUESDAY, OCTOBER 6

10:00 AM - 11:45 AM PARALLEL SESSIONS

Track I	Track II	
Symposium Session	Colloquium Session	
Villanova Amphitheater	Princeton I & II	
Future Needs of Mass Spectrometry in Clinical Sciences	PBPK Modeling	
Discussion Leaders: Timothy Garrett, University of Florida and	Discussion Leader: Avijit Ghosh, Janssen Pharmaceuticals	
 Kenneth Lewis, OpAns Achieving Widespread Adoption of MS in the Clinical Laboratory: What Will It Really Take? Lori Bachmann, Virginia Commonwealth University 	 and Tristan Maurer, Pfizer PBPK Model Guided Drug Development and Labeling Optimization 	
 Using MS to Screen Multiple Metabolites:	 Alice Ke, Certara / Symcyp A systems Platform to Predict Pharmacokinetics of	
How to Design Your Assay for the Clinic	Liver Transporter Substrates	
Don Chace, Pediatrix Analytical	Rui Li, Pfizer	
 Digitized LC-MS as an Enabling Tool on the Path to	 Minimal Physiologically-Based Pharmacokinetic	
Precision Healthcare	(mPBPK) Model for a Monoclonal Antibody against	
Gary Valaskovic, New Objective	Interleukin-6 in Mice with Collagen-Induced	
 Understanding Complex Lipid Metabolism through Quantitative Lipidomics Yi Zhang, SCIEX 	Arthritis Xiling Jiang, Janssen Research & Development	



Tuesday October 6

3:15 PM - 4:45 PM

12:00 PM – 1:00 PM	SPONSORED LUNCH & ROUNDTABLE DISCUSSION
University I & II	 Sponsored by Shimadzu Scientific Instruments LCMS-8060: Changes Everything David Colquhoun, Shimadzu Scientific Instruments
	Quantitative Determination of Opioids in Whole Blood using Fully Automated Dried Blood Spot Desorption Coupled to On-line SPE-LC-MS/MS Ruth Verplaetse, Q2 Solutions
1:00 PM – 3:00 PM	POSTER SESSION & ROUNDTABLE DISCUSSION
University Lobby	Discussion Leaders: Mark Cancilla, Merck; Helene Cardasis, Thermo Fisher Scientific; Matthew Szapacs, GlaxoSmithKline; Tracie Williams, CDC

PARALLEL SESSIONS

Track III	Track IV-a	Track IV-b
Symposium Session	Colloquium Session	Colloquium Session
University I	University II	Lehigh
 A Tough Nut to Crack: Bringing New Analytical Approaches to the Clinic Successfully Discussion Leader: Don Chace, Pediatrix Analytical Translating Global Metabolomics to Clinical Diagnostics Timothy Garrett, University of Florida Simplifying Complex Proteomic Workflows for Larger Scale and Speed Nathan Yates, University of Pittsburgh 	 Tiered Approach/Scientific Validation in Bioanalysis – Reaching out our Stakeholders in QA, Clinical and Preclinical PK Discussion Leaders: Eric Woolf, Merck; Philip Timmerman, EBF/Janssen R&D Principles and Status Update of Scientific Validation/Tiered Approach in Bioanalysis Philip Timmerman, EBF/Janssen R&D Contribution Related to a QA perspective on Scientific Validation/Tiered Approach Karen Hencken, Merck 	 Structure Identification Discussion Leaders: David Detlefsen, Novatia and Mark Hail, Novatia Isolation and Structure Elucidation in the Development Environment within Pharma Brian Marquez, Mestrelab Research Challenges in Impurity Isolation and Identification at a Contract Research Lab Ken Ray and Dan Petrillo, Novatia
From Discovery to Patient – A Case Study Roy Vaz, Sanofi	 Fit-for-Purpose Bioanalytical Data in Preclinical Phase Debra R Luffer-Atlas, Eli Lilly and Company Contribution Related to a Clinical PK Perspective on Scientific 	

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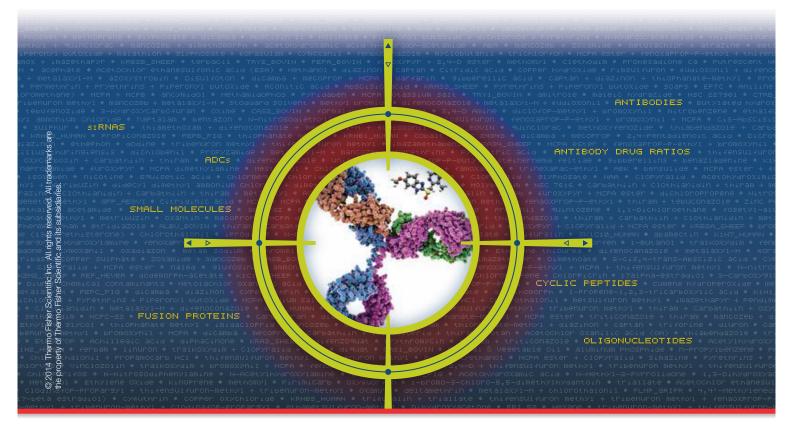


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Tuesday October 6

4:45 PM – 5:15 PM	LET THEM EAT CAKE!
2nd Floor Lobby	Don Chace, Pediatrix Analytical
5:00 PM – 6:00 PM	SOCIAL HOUR & SPONSORED WORKSHOPS
Princeton I	Options and Considerations in Biologics Bioanalysis – When to Try Something Different
	Sponsored by SCIEX
	Large Molecule Bioanalysis: LC-MS or ELISA? A Case Study Zamas Lam, QPS
	Improving Sensitivity in Bio-Analysis using microLC Remco Van Soest, SCIEX
Princeton II	High Performance Meets Personalized Healthcare: Daily Performance Monitoring Sponsored by McKinley Scientific
	Daily Performance Monitoring Martin Steel, McKinley Scientific and Mike Lee, Mozaic Solutions
	 Differential Mass Spectrometry Platform for Personalized Healthcare Nathan Yates, University of Pittsburgh
	Infinite Speed and LC/MS Throughput with Digital LC Technologies Gary Valaskovic, Mozaic Solutions
	Informatics for Personalized Healthcare Andrew Bondarenko, InfoClinika
Villanova Amphitheater	Multimodal Omics Workflows for Translational Research Sponsored by Waters Corporation
	David Heywood, Waters Corporation
Lehigh Ballroom	Improved Workflows for Protein Digestion Sponsored by PharmaCadence Analytical Services
	IAC and Digestion with a Single Reagent Carmen Fernandez-Metzler, PharmaCadence Analytical Services, LLC
	A Controlled Flow 96 Well Plate for Full Automation of Antibody Capture and Protein Digestion Workflow John Laycock, SPEware Corporation



Tuesday October 6

6:30 PM - 9:30 PM	SPONSOR HOSPITALITY & EVENING WORKSHOPS
University I	HIGH RESOLUTION ACCURATE MASS QUANTITATION SUMMIT
	Sponsored by Thermo Scientific Discussion Leaders: Jack Henion, Q2 Solutions and Jonathan Josephs, Thermo Scientific
	Past Present and Future of Interrogating Biological Samples: How HRAM has Become an Essential and Integral Component of the Analytical Arsenal Jack Henion, Q2 Solutions
	Panel Discussion Chaired by Jack Henion, Q2 Solutions and Jonathan Josephs, Thermo Scientific
University II	MICROSAMPLING SUMMIT
	Sponsored by Drummond Scientific and McKinley Scientific
	Discussion Leaders: Qin Ji, Bristol-Myers Squibb and Olga Kavetskaia, Pfizer
	An Integrated Strategy for Implementation of Dried Blood Spots in Clinical Development Programs Yang Xu, Merck
	► To be announced Chris Evans, GlaxoSmithKline
	Comparative Studies for Dried Blood Spot Sampling: Design, Conduct and Statistical Data Analysis Qin Ji, Bristol-Myers Squibb and Carol Gleason, Bristol-Myers Squibb
	Discussion Panel:
	Donald Chace, Pediatrix Analytical Chris Evans, GlaxoSmithKline Kenneth Lewis, OpAns Wenkui Li, Novartis Timothy Olah, Bristol-Myers Squibb Fred Regnier, Purdue University Enaksha Wickremsinhe, Eli Lilly & Company Yang Xu, Merck



Wednesday October 7

7:30 AM – 8:30 AM	REGISTRATION & CONTINENTAL BREAKFAST
	University Ballroom Lobby
8:30 AM – 10:00 AM	SYMPOSIA & ROUNDTABLE DISCUSSION
University I & II	The Future of Mass Spectrometry for Clinical Protein Biomarker Determination (20/20 Vision)
	Discussion Leader: Randall Nelson, Arizona State University
	Next Horizon of Immunoaffinity LC-MS/MS for Protein Biomarkers Hendrick Neubert, Pfizer
	The Future is Now - Monitoring Insulin Levels for Diabetes Clinical Care With High Precision Using Mass Spectrometry Mary Lopez, Nuclea Biotechnologies
	Mass Spectrometric Immunoassays for Discovery, Verification, and Validation of Proteoform Biomarkers

Dobrin Nedelkov, Arizona State University

10:15 AM – 11:45 PM	PARALLEL SESSIONS
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Track V	Track VI-a	Track VI-b
Symposium Session Villanova Amphitheater	Colloquium Session	Colloquium Session
 Rare Diseases Discussion Leaders: Michelle Clasquin, Agios Pharmaceuticals and Roy Vaz, Sanofi Gaucher Disease and Parkinsonism: Insights from a Rare Disease Ellen Sidransky, Nat'l Institutes of Health Analytical Aspects of Phenotypic Screening in Drug Discovery for Rare Diseases Alexei Belenky, Genzyme A Pediatrician's Perspective: Insight into the Diagnosis and Treatment of Metabolic Diseases - Amino Acids & Organic Acids as Biomarkers Holmes Morton, Clinic for Special Children 	Innovation Bootcamp Discussion Leader: Lucinda Cohen, Merck Timothy Olah, Bristol-Myers Squibb Jim Yergey, Yergey Consulting	 Metabolite Identification and Databases: Industrial Workflows and Emerging Trends Discussion Leader: Ismael Zamora, Molecular Discovery Optimized Workflow for a Metabolic Soft Spot Identification Assay Wilson Shou, Bristol-Myers Squibb How to Fit the DMS Dimension into Fluxomic Workflows Richard Kibbey, Yale University To be announced Gary Martin, Merck



Wednesday October 7

12:00 PM -1:00 PM	SPONSORED LUNCH & ROUNDTABLE
University I & II	Sponsored by Agilent Technologies
	Stereospecific Drug Metabolite Analysis Using 2D LC/MS Q-TOF and SFC/QQQ Smriti Khera, Agilent Technologies
1:15 PM – 2:15 PM	SOCIAL HOUR & SPONSORED WORKSHOPS
Princeton I	Differential Ion Mobility – Pushing the Boundaries of Selectivity in Biotherapeutics Sponsored by SCIEX
	Detect More Selectively with SelexION [®] Technology Yves LeBlanc, SCIEX
Princeton II	Six Minutes of Science: Success from Qual to Quan with High-Performance Nanospray and LC-MS Sponsored by New Objective
	Nathan A. Yates, University of Pittsburgh Shane Needham, Alturas Analytics Tim Garrett, University of Florida
Villanova Amphitheater	Using Ion Mobility Separation to Enhance Drug Metabolism Studies - New Approaches for Data Analysis
	Sponsored by Waters Corporation
	Advances in IMS-enabled Workflows For Qualitative and Quantitative DMPK Studies Mark Wrona, Senior Science Manager, Pharmaceutical Business, Waters Corporation
	Processing HDMS(e) Data in Mass-Metasite Ismael Zamora, Molecular Discovery and Paul Rainville, Waters Corporation



Program Chair Nathan A. Yates University of Pittsburgh

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Wednesday October 7

Track VII	Track VIII	
Innovator Award Session University II	Steven A. Hofstadler Graduate Student Session Villanova Amphitheater	
Discussion Leader: Kevin Bateman, Merck The CPSA Innovator Award provides formal recognition for innovative technologies, products and services presented at the CPSA USA annual meeting. The Innovator Award is open to all participants in the CPSA Exhibition. Applicants can apply for consideration either with an abstract for poster session or a stand-alone abstract without participating in the poster session	Inspiring Career Paths in the Sciences for Young Scientists Sponsored by McKinley Scientific, New Objective and OpAns Mentors: Susan Abbatiello, Thermo Fisher Scientific; Brad Ackermann, Eli Lilly & Company; Hong Cai, GlaxoSmithKline; Lucinda Cohen, Merck; Paul Corcoran, McKinley Scientific; Patrick Fromal, Shimadzu; Jonathan Josephs, Thermo Fisher Scientific; Frank Kero, Biotage; Alla Kloss, Genzyme; Kenneth Lewis, OpAns; Eric Milgram, PepsiCo; Shane	
Applications are formally reviewed by the Innovator Award Committee. Awards will be presented during the Awards Presentation Session.	 Direct Sampling of Adherent Cells Using Laser Ablation Electrospray Ionization Mass Spectrometry Rachelle Jacobson, The George Washington University 	
	 Identification of Sirtuin 5 Modulators by Droplet Microchip Electrophoresis Erik Guetschow, University of Michigan 	
	 Lipidomics of Liver Disease Rainey Patterson, University of Florida 	
	 Higher Insight in Cellular Senescence: Defining a New Mass Window for Top Down Quantitative Proteomics Peter Doubleday, Northwestern University 	

PARALLEL SESSIONS

2:30 PM - 3:30 PM

3:45 PM – 4:15 PM	CPSA AWARD PRESENTATIONS
Princeton I & II	Sponsored by McKinley Scientific and New Objective
	Innovator Award Presentation Kevin Bateman, Merck
	Steven A. Hofstadler Graduate Student Award/Recognition Presented by the Mentors
	Program Chair Recognition Mike Lee, Milestone Development Services



Wednesday October 7

4:45 PM – 5:45 PM	KEYNOTE LECTURE PRESENTATION OF THE DISTINGUISHED ANALYTICAL SCIENTIST AWARD	
	Keynote Lecture	
	"Kicking it up a Notch" with New Spices in Clinical Chemistry: Multiple Metabolite, Micro Sampling and LC/MS Don Chace, Pediatrix Analytical	
	Distinguished Analytical Scientist Award Presentation Presented by Russell Grant, LabCorp	
	Pigs 'n Blankets: Mass Spectrometry and the Continuum of Human Health Andy Hoofnagle, University of Washington	
5:45 PM – 6:45 PM	EXHIBITION & SOCIAL HOUR - WHERE TECHNOLOGY AND SOLUTIONS MEET!	
	University I, University Ballroom Lobby, 2nd Floor Lobby,	
6:45 PM – 9:00 PM	VENDOR SESSION - "5 MINUTES OF FAME"	
University II	Hosted by Bernard Hirsh, Merrill Lynch	
	Session Leaders: Mark Hayward, ITSP Solutions, Inc.; Matt Szapacs, GlaxoSmithKline; Nicole Donnelly, PharmaCadence	





Thursday October 8

7:30 AM – 8:30 AM	REGISTRATION & CONTINENTAL BREAKFAST	
	2nd Floor Lobby	
8:30 AM – 10:00 AM	COLLOQUIA & ROUNDTABLES	
Princeton I & II	ADC / PDC	
	Discussion Leaders: Wenying Jian, Janssesn Research & Development and Jim Shen, Bristol- Myers Squibb	
	The Role of Mass Spectrometry in Supporting the Development of Therapeutic Antibodies and Antibody-Drug Conjugates (ADCs) Michael Peddicord, Bristol-Myers Squibb	
	ADC Bioanalysis by Immuno-Capture LC-MS/MS Hybrid Assays	

- Ang Liu, Bristol-Myers Squibb
- ► Next-Generation Drug Conjugates Using the Centyrin Alternative Scaffold Shalom Goldberg, Janssen Research & Development

0:15 AM - 11:45 AM PARALLEL SESSIONS

Track VIII	Track IX
Symposium Session Villanova Amphitheater	Colloquium Session Lehigh
 Biomarkers from Start to Finish Discussion Leader: All Kloss, Genzyme Metabolomic Applications for Discovery of New Targets in Sickle Cell Anemia Annie Evans, Metabolon 	 Traditional and Non-Traditional Strategies to Generate Drug Metabolites for Analytical Characterization Discussion Leader: James Small, Merck Traditional Drug Metabolite Generation Schemes Kerry Fillgrove, Merck
 X-Linked Adrenoleukodystrophy: Biomarkers for Newborn Screening and Development of New Therapies Ann Moser, Kennedy Krieger Institute 	 Non-Traditional Drug Metabolite Generation Schemes Yong Liu, Merck Role of Drug Metabolite Identification in Drug
 Isotopic Labeling Strategies for Biomarker Discovery in Metabolomics Tim Garrett, University of Florida 	Discovery and Development Tom Rushmore, University of the Sciences
 PD Biomarker Measurement by LC/MS/MS – Technological Advancements to Address Sensitivity and Throughput Challenges Barry Jones, Quintiles 	



Thursday October 8

12:00 PM – 1:15 PM	SPONSORED LUNCH & ROUNDTABLE DISCUSSION
Princeton I & II	Sponsored by New Objective and The University of Florida
	Discussion Leaders: Tim Garrett, University of Florida and Petia Shipkova, Bristol-Myers Squibb
	LC-MS and Prenatal Metabolism from Population to Bench Nathaniel Snyder, Drexel University
	Improving Metabolomics Separations with Ion Mobility Mass Spectrometry Chris Chouinard, University of Florida
1:30 PM – 3:00 PM	SYMPOSIA & ROUNDTABLE DISCUSSION
Villanova Amphitheater	New Alternative Instrumentation
	Discussion Leaders: Kevin Bateman, Merck and Rick King, PharmaCadence Analytical Services
3:00 PM	ADJOURN







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