

## **OCTOBER 1-3, 2018**

SHORT COURSES - SEPTEMBER 30

### SHERATON BOSTON HOTEL

39 DALTON STREET • BOSTON, MA 02199

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## **WELCOME TO APA 2018!**

### MONDAY, OCTOBER I

**REGISTRATION & Breakfast** 

Workshop Introduction

**REGULATED BIOANALYSIS** 

**SESSION I: Regulatory Guidance** 

Common BA/BE Inspection Obervations and their Mitigation Strategies Arindam Dasgupta, FDA

Recent Inspectorial Observations on Immunogenicity Michael F. Skelly, FDA

Unique Aspects and Case Studies of Bioanalysis in **Support of Veterinary Products** Valerie Kvaternick, Merial

#### Panel Discussion

#### **SESSION II: Bioanalytical Support for Novel Therapies**

CART-ography: Lessons Learned from the Analytical Characterization of the First Two FDA Approved Chimeric Antigen Receptor Therapies Sadik Kassim, MustangBio

When the Cell is the Drug, Challenges for Bioanalysis Keith Sutton, Charles River Laboratories UK

Bioanalytical Support for Gene Therapy Program **Using AAV Delivery Vectors** Lilia Macovei, Pfizer

Development of a Robust Neutralizing Antibody (NAb) Assay with High Drug and Target Tolerance to Support Clinical Development of an anti-TFPI Therapeutic Monoclona Antibody (mAb) Yuhong Xiang, Pfizer

#### SESSION III: Challenges of Immunogenicity in a **Regulated Environment**

Monitoring the Function of Single Immune Cells -How to Tackle Daunting Task and Apply Cutting-Edge Developments for Obtaining Meaningful Data Sylvia Janetz, Zellnet Consulting

Cell Line Characterization to Support Immunogenicity Testing Cynthia Inzano, BMS

Navigating the Development and Validation of Neutralizing Antibody Assays in Support of Biosimilar Assessment Dominique Gouty, BioAgilytix Labs

#### **Poster Session & Evening Reception**

MECHANISTIC ADME WORKSHOP **REGISTRATION & Breakfast** Workshop Introduction

SESSION I: Toxicology, Clinical Safety Prediction, and SM Biomarkers

#### **Plenary Lecture:**

Safety Lead Optimization: What We have Learned from Kinase Inhibitors Donna Dambach, Genentech

Systems Approaches to Translation of Preclinical Safety Signals to Inform Compound Discovery and **Early Development** lay Mettetal, Astra Zeneca

An ADME Perspective on DILI Hazard Identification Debra Luffer-Atlas, Eli Lilly

Discovery Toxicology: Input and Impact in Early Drug Development Yvonne Dragan, Takeda

#### SESSION II: Unusual Metabolic Pathways: Time to Expect the Unexpected?

Systematic Characterization of Uncommon Metabolites: Case Studies with Paritaprevir and Ombitasvir lianwei Shen, AbbVie

Late-Occurring and Long-Circulating Major Metabolites Formed by Metabolic Cyclization and Aromatization from a CNS Candidate Drug of AstraZeneca Chuck Gu, Biogen

N-methylation of BI 187004 by thiol S-methyltransferase Holly Maw, Boehringer Ingelheim

SESSION III: Speciality Molecules; Going Beyond Rule of 5

Title TBA John Link, Gilead

# **WELCOME TO APA 2018!**

Working Beyond the Rule of 5: Designing Cyclic Peptide C5a Antagonist with Oral Bioavailability Kevin Beaumont, Pfizer

ADME Screening Paradigm for Covalent Inhibitor Drugs – Role of Traditional vs Non-Traditional Assays Ashutosh Kulkarni, Allergan

BEYOND ADME AND BIOANALYSIS WORKSHOP "GLOBAL HEALTH" Antiparasitic Drug Discovery from Marine Cyanobacteria

William Gerwick, Scripps Institution of Oceanography and Skaggs School of Pharmacy and Pharmaceutical Sciences, UC San Diego

Attention to Neglected Tropical Diseases: The Impact of the Pharmaceutical Industry and the mission of Celgene Global Health

Vikram Khetani or Joseph Camardo, Celgene

#### Title TBA

Arnab Chatterjee, California Institute for Biomedical Research

**Poster Session & Evening Reception** 

### **TUESDAY, OCTOBER 2**

#### **Mentoring Breakfast**

#### **REGULATED BIOANALYSIS WORKSHOP**

#### **Plenary Lecture:**

The Impact of a Reagent Center of Excellence on Bioanalysis, and a Company's Strategy around Variabilization

Binodh DeSilva, Bristol-Myers Squibb

SESSION IV: Utility of Clinical Biomarkers to Support Drug Development

"Total" or "Free" PD Biomarker Assay in Biotherapeutic Drug Development: From Platform Selection to Methodology Evaluation Jenny Zhang, Pfizer

Target Engagement and Receptor Occupancy Based Translational Strategy for Therapeutic Biologics Weirong Wang, [&] Sensitive and Robust Trapping-Micro-LC-MS for the Quantification of Biomarkers and Antibody Biotherapeutics Jun Qu, SUNY-Buffalo

SESSION V: New Technologies and Applications Enhanced Immuno-affinity for Hybrid LBA-LC-MS: Considerations and Challenges

Ang Liu, BMS

LC/MS Intact Quantitation of Biologics in Developmen Beth Groeber, Charles River Laboratories

New Developments in Patient Centric Sampling and Their Application in Clinical Trials Melanie Anderson, Merck

MECHANISTIC ADME WORKSHOP SESSION IV: Software for Met ID

Automated Metabolite Identification for Design Ideation

Christopher Kochansky, Merck

Accelerating the Delivery of Small Molecule High Resolution Accurate Mass Structure Elucidation Results Through the Use of Thermo Scientific  $^{\text{TM}}$  Compound Discoverer Software  $^{\text{TM}}$  Jonathan Bauman, Pfizer

Fast and Comprehensive Detection and Characterization of Cyclic Peptide Metabolites using Software-Aided Data Processing Tools Ming Yao, BMS

#### **Evening Reception & Posters**

DISCOVERY WORKSHOP
REGISTRATION & Mentoring Breakfast

#### **SESSION I: New Technologies**

Biomarkers of Neurodegeneration – a Single Molecule Approach via Quanterix Platform Krishna Midde, PPD

Immunocapture-LC/MS Based Target Engagement Measurement in Tumor Plasma Membrane Hiroshi Sugimoto, Takeda

Title TBA Giovanna Scapin, Merck SESSION II: Predictive Tools and Novel Approaches to Evaluate Immunogenicity Response of Biotherapeutics

Title TBA

Jochem Gokemeijer, BMS

Current Perspectives on Preclinical Predictive Tools for Immunogenicity Risk Assessment and their Clinical Translation

Vibha Jawa, Merck

Human Leukocyte Antigen class II-associated Immunopeptidomics for Immunogenicity Studies of Biologics

Andrea Casasola-LaMacchia, Pfizer

#### **Plenary Lecture:**

New Developments in Ion Mobility-Mass Spectrometry Enabling Higher Throughput and More Sensitive Proteomics and Pan-Omics Measurements for Clinical Diagnostics and Personalized Medicine Richard Smith, Pacific Northwest National Laboratory

#### **SESSION III: Omics**

Chemoproteomics An Chi. Merck

Application of Targeted Mass Spectrometry to the Quantitative Assessment of Internalization Kinetics for Cell-surface Membrane Protein Targets Dhiman Ghosh, Takeda

Title TBA
David Pirman, Agios

**Evening Reception & Posters** 

## WEDNESDAY, OCTOBER 3

Registration & Breakfast

BEYOND ADME AND BIOANALYSIS WORKSHOP "NASH"

Research Models for NASH Joe Cornicelli, Charles River Laboratories

NASH Biomarkers Name, Company

NASH Pathology Name, Company

## DISCOVERY BIOANALYSIS AND NEW TECHNOLOGIES WORKSHOP

SESSION IV: IT/Information/Knowledge

Progress in Proteogenomics
Daniel Liebler, Protypia

Topic in Modeling and Simulation of Exposure/ Response to Model Disease and Translation Fei Hua, Applied BioMath

Computational and Statistical Approaches to Multi-Dimensional Data

Bing Zhang, Baylor College of Medicine

Vendor Presentation idbs



## DISCOVERY AND MECHANISTIC ADME COMBINED WORKSHOP

SESSION V: Role of DMPK in New Modalities Gene Therapy/Biodistribuition Nag Chemuturi, Novartis

Mechanistic ADME of siRNA-GalNAc Conjugates Jing Tao Wu, Alnylam

Role of DMPK in the Development of Cell Therapies Sarah Voytek, Bluebirdbio

SESSION VI: Biomarkers: Discovery and Implementation

Use of In Vitro Tools and Genetic Data to Identify Transporter Endogenous Biomarkers Xiaomin Liang, Gilead

Evaluation of Endogenous Biomarkers for Transporter Inhibition: Current State and Future Considerations Xiaoyan Chu, Merck

Absolute Quantitation of 2-HG, an Oncometabolite, in Human Brain Tumors to Support Clinical Development Guowen Liu, Agios

Raffle Drawing

Closing Remarks for the 14th Annual Applied Pharmaceutical Analysis Conference

## **APA 2018 SHORT COURSE • SUNDAY, SEPTEMBER 30**

#### **SHORT COURSE:**

Challenges and Solutions to Biomarker Bioanalysis: Exploratory, Decision Making, Companion Diagnostics to C-Path Initiative

What are Biomarkers? What is the Role of Biomarkers in Drug Development? Darshna Jani, Pfizer

Challenges to Transition from Clinical Biomarkers to Companion Diagnostics Flora Berisha, Daiichi Sankyo Pharma Inc.

Title

Paul Rhyne, Biologics Development Services

Biomarker Analysis using Flow Cytometry Focused on Preclinical Study Martin Schwickart, Celgene

**Vendor Presentation** 

Biomarker Quantitation by LC-MS: Solutions to Challenges Name, Company

Q & A Session





## HTTP://BOSTONSOCIETY.ORG/APA/REGISTRATION.HTML

## **REGISTRATION**

## Online registration will close at 5:00 pm on Wednesday, September 26th.

	SOCIETY RATE	AFFILIATE RATE *	SPONSOR RATE	STUDENT RATE FULL ACCESS	FREE STUDENT PASS (LIMITED)	SHORT COURSE
Before 7/1/18	\$700	\$1000	\$700	\$250	\$0	\$400
7/1/18 - 9/26/18	\$800	\$1500	\$800	\$300	\$0	\$400
On-site Registration	\$900	\$1600	\$900	\$350	\$0	\$400

<sup>\*</sup>This rate is for software vendors, consultants, CRO's, and instrumentation companies who have a commercial interest in the meeting. It does not apply to FDA, pharmaceutical, or academic scientists, who are invited to apply at the Attendee rate.

## **ORGANIZING COMMITTEES**

#### PRESIDING CHAIRS

Chair: Johanna Mora, Bristol-Myers Squibb Chair-Elect: Mehran Moghadam, Orox Bioscience

#### Regulated Bioanalysis

 $\textbf{Chair:} \ \mathsf{C.T.Viswa} \\ \text{and Associates,} \\$ 

Chair-Elect: Fumin Li, PPD

Committee: Jakal Amin, Charles River Laboratories; Stephanie Pasas Farmer, BioData Solutions; Andre Iffland, Vertex; Darshana Jani, Pfizer; Ang Liu, BMS; Johanna Mora, BMS; Diana Najarian, Shire; Lori Payne, Intertek; Farhad Sayyarpour, Concord Biosciences; Joseph Tweed, Pfizer; Jenifer Vija, Charles River Laboratories; Eric Woolf, Merck; Yongjun Xue, Celgene

#### Discovery Bioanalysis & New Technologies

Chair: Hongying Gao, Innovo Bioanalysis LLC

Chair-Elect: Dieter Drexler, BMS

Committee: Mark Cancilla, Merck; Montserrat Carrasco-Triguero, Genentech; Scott Fountain, Charles River Laboratories; Elizabeth Groeber, Charles River Laboratories; Hanlan Liu, Catabasis Pharmaceuticals; Mark Qian, Takeda; Jing Tu, PPD; Liyu Yang, Vertex

#### Mechanistic ADME

Chair: Mehran Moghaddam, OROX Biosciences

Chair-Elect: Eric Ballard, Pfizer

Committee: Silvi Chacko, BMS; Lisa Christopher, BMS; James Driscoll, MyoKardia; Kirk Henne, Denali Therapeutics; Cyrus Khojasteh, Genentech; Mark Milton, Novartis; Chandra Prakash, Agios Pharmaceuticals; David Stresser, AbbVie; Richard Voorman, RMLV Partners; Greg Walker, Pfizer; Cindy Xia, Takeda; Hongbin Yu, Boehringer-Ingelheim