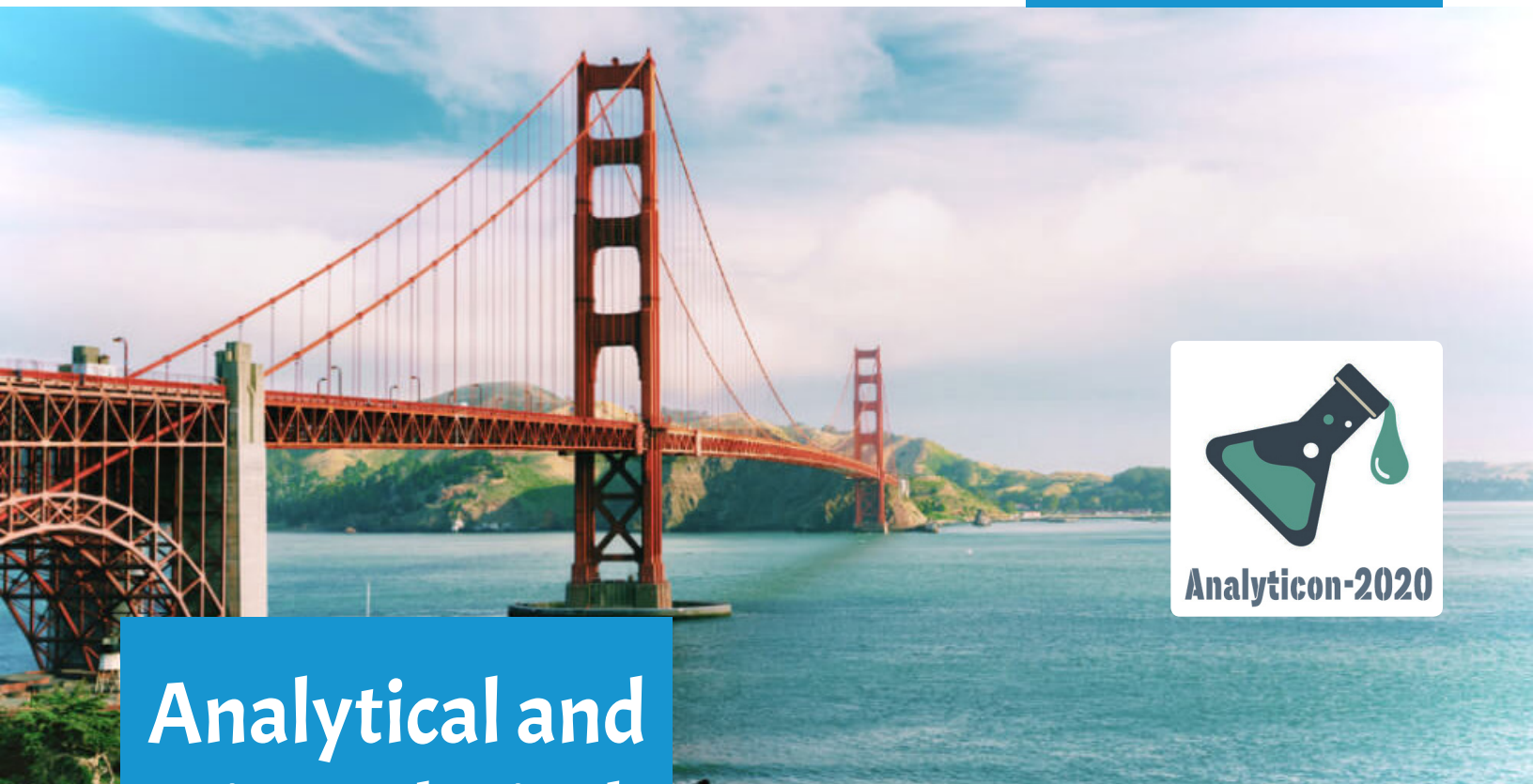




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Scientific
Group



Analytical and Bioanalytical Methods Conference

Tentative program

April **27-29**, 2020

Venue

DoubleTree by Hilton Hotel San Francisco Airport
835 Airport Blvd, Burlingame, CA 94010-9949,
United States

Publishing Partner



Exhibitor



08:00-10:30 Registration
09:00-09:15 Conference Introduction

09:15-12:00 Keynote Session

09:15-09:45 **Shane Needham**, Alturas Analytics, ID
The Latest Tools for the LC-MS/MS Bioanalysis of Biologics: Humira and Anti-Body Drug Conjugates Case Studies
Functional Nanomaterials for Chemical Sensing and Electrochemical Energy Technologies

09:45-10:15 **Yehia Mechref**, Texas Tech University, TX
LC-MS/MS of Glycan and Glycopeptide Isomers

10:15-10:30 Coffee Break

10:30-11:00 **Nianqiang Wu**, University of Massachusetts Amherst, MA
Fluorescence- and SERS-Based Paper Lateral Flow Strips for Point-of-Care Testing

11:00-11:30 **Xian Chen**, University of North Carolina at Chapel Hill, NC
Mass Spectrometry-Based Multi-Omics Discovery of New-Generation Cancer Markers for Predicting Personalized Prognosis

11:30-12:00 **Boguslaw Buszewski**, Nicolaus Copernicus University, Poland
Consideration of Biological Activity in terms of Chromatographic Relationships between Retention and Structure via New Generation of Stationary Phases

12:00-12:10 Exhibitor Introduction**12:10-13:10 Lunch & Networking Session**

Session: Biomedical Analysis

Chairs: *Gilles Muller, San Jose State University, CA*
Pao-Chi Liao, National Cheng Kung University, Taiwan

13:10-13:35 **James Rudge**, Neoteryx, CA
Volumetric Absorptive Microsampling - Enabling Patient Centric Sampling for Personalised Healthcare and At-Home Clinical Trials

13:35-14:00 **Jayakumar Rajadas**, Stanford University, CA
TBA

14:00-14:25 **Itaru Yazawa**, Imtakt Corp., Japan
Several Unique Separation Columns for Underivatized Direct LC-MS Analysis of Polar Ionic Compounds such as Amino Acids and Related Compounds

14:25-14:50 **Gilles Muller**, San Jose State University, CA
Circularly Polarized Luminescence Technique: a Sensitive and Selective Tool as a Probe of Biomolecular Structures

14:50-15:15 **Adam Frankel**, The University of British Columbia, Canada
The Application of Differential Scanning Fluorimetry in Exploring Bisubstrate Binding to Protein Arginine N-Methyltransferase 1

15:15-15:35 Coffee Break

- 15:35-16:00 **Pao-Chi Liao**, National Cheng Kung University, Taiwan
High-Resolution Mass Spectrometry-Based Metabolomics Strategy for Comprehensively Screening Biomarkers of Toxicant Phthalate Exposure and their Applications
- 16:00-16:25 **Jordy J. Hsiao**, Agilent Technologies, CA
LC/MS Methods Optimized for Discovery Metabolomics
- 16:25-16:50 **Jin Ouyang**, Beijing Normal University, China
Fluorescent Nanoprobes for Biochemical Applications
- 16:50-17:15 **Wen-Ping Peng**, National Dong Hwa University, Taiwan
Detection and Analysis of Micro- and Submicroparticles using Ion Trap Mass Spectrometry
- 17:15-17:40 **Caigan Du**, The University of British Columbia, Canada
Chemical Profiling of Serum and Urine from Patients with Chronic Kidney Disease by using Surface-Enhanced Raman Spectroscopy
- 17:40-18:00 **Medicharla V. Jagannadham**, CSIR-Centre for Cellular and Molecular Biology, India
Structural and Functional Analysis of Membrane Vesicles of *Listeria Monocytogenes*
- 18:00-18:15 **Hsien-Wei (Andy) Yeh**, University of Washington, WA
Generalizable Platform for Biosensor Design Using de novo Switches

DAY-2 • TUESDAY

**April 28
2020**

08:30-11:00 Keynote Session

- 08:30-09:00 **Shaowei Chen**, University of California, Santa Cruz, CA
Functional Nanomaterials for Chemical Sensing and Electrochemical Energy Technologies
- 09:00-09:30 **Joel Tellinghuisen**, Vanderbilt University, TN
Calibration: Detection, Quantification, and Confidence Limits are (Almost) Exact when the Data Variance Function is Known
- 09:30-10:00 **Ting Guo**, University of California, Davis, CA
Fluorescence Spectroscopy for Sensing, Nanochemistry and X-ray Nanochemistry
- 10:00-10:30 **Jean-Christophe P. Gabriel**, French Alternative Energies and Atomic Energy Commission (CEA), France
An Integrated Liquid-Liquid Microfluidic Solution for the Fast Exploration of Kinetics and Thermodynamics of Extraction Processes
- 10:30-11:00 **Rui Fausto**, Coimbra University, Portugal
Light-Induced In Situ Generation of Reactants in Cryogenic Matrices and Spectroscopic Analysis of Products of Chemical Reactions Following the Quantum Tunneling Mechanism

11:00-11:15 Coffee Break

11:15-11:45 **Panel Discussion on "Finding the Best Routes to Commercialize Innovation"**
Shane Needham, Alturas Analytics, ID
Nianqiang Wu, West Virginia University, WV
Xian Chen, University of North Carolina at Chapel Hill, NC
James Rudge, Neoteryx, CA

Session: **Environmental and Food Analysis and Applications**

Chairs: **Ting Guo**, University of California, Davis, CA
Rui Fausto, Coimbra University, Portugal

11:45-12:10 **Jonathan Wingfield**, AstraZeneca, UK
Developing a Sound Idea to Deliver a High Throughput Mass Spectrometry Platform

12:10-12:35 **Scott K. Cushing**, California Institute of Technology, CA
Recent Advances in Transient X-ray and Entangled Spectroscopy

12:35-13:00 **Jana Falkenhagen**, Federal Institute for Materials Research and Testing (BAM), Germany
Microstructure Characterization of Oligomers by Analysis of UPLC / ESI-TOF-MS Reconstructed Ion Chromatograms

13:00-14:00 Lunch & Networking Session

14:00-14:25 **Maria Carmen Blanco-Lopez**, University of Oviedo, Spain
Immunochromatographic Tests based on Magnetic Nanoparticles

14:25-14:45 **Jingjing Qiu**, San Francisco State University, CA
Direct In Situ Measurement of Interfacial Charge Transfer with Dual Working Electrode Technique

14:45-15:05 **Gulce Ogruc Ildiz**, Istanbul Kultur University, Turkey
Spectroscopic Biomarkers for Psychiatric and Neurodevelopmental Disorders Differentiation

15:05-15:25 Coffee Break

15:25-15:50 **Giuseppe Perretti**, University of Perugia, Italy
The Set-Up of Novel Quality Control in the Old Food Chain of Beer

15:50-16:15 **Bjorn Maxeiner**, Olfasense GmbH, Germany
What is the Smell here? Identification of Malodors via GC-Sniffing

16:15-16:35 **Patricia Forbes**, University of Pretoria, South Africa
Novel Nanomaterial-Based Fluorescence Sensors for Aquatic Pollutants

16:35-16:50 **Kornelia Kaczmarska**, The Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia
Meat vs Plant-Based Foods - Flavor and Nutritional Characteristics

CALL FOR ABSTRACTS FOR ORAL PRESENTATION

17:00-18:00 Poster Presentation

CALL FOR ABSTRACTS FOR POSTER PRESENTATION

Session: Pharmaceutical and Biomedical Analysis

Chair: Linlin Dong, Takeda Pharmaceuticals, MA

- 09:00-09:25 **Linlin Dong**, Takeda Pharmaceuticals, MA
Unexpected Drug Clearance Pathway: Identification of a Covalently Modified Protein in Rat Blood
- 09:25-09:50 **Takuya Kubo**, Kyoto University, Japan
Rapid and Effective Separation of Targeting Proteins/Glycoproteins Using A Macroporous Sponge-Monolith in Liquid Chromatography
- 09:50-10:15 **Jintang He**, Genentech, CA
High-Resolution Accurate-Mass Mass Spectrometry Enabling In-Depth Characterization of in Vivo Biotransformations for Intact Antibody-Drug Conjugates
- 10:15-10:40 **Guannan Li**, Agilent Technologies, CA
Two-Dimensional Liquid Chromatography (2D-LC) for Various Applications
- 10:40-11:05 **Christina Shen**, Amgen, CA
In vitro Measurement of Cytokine Receptors turnover by LC-MS to guide PK-PD Modeling
- 11:05-11:25 **Feng Shen**, Shanghai Jiao Tong University, China
SlipChip Microfluidic Systems for Digital Nucleic Acid Analysis
- 11:25-11:45 **Pierre Dramou**, China Pharmaceutical University, China
Preparation of Novel Molecularly Imprinted Magnetic Graphene Oxide and their Application for Quercetin Determination
- 11:45-12:05 **Simon Corrie**, Monash University, Australia
Creating Optical Nano-Biosensors from Engineered Antibodies for Protein Detection
- 12:05- Lunch & Departures**



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