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American Society for
Mass Spectrometry

ORGANIZERS

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IMPORTANT DEADLINES

November 29
Travel Stipend Application
for students and post-docs

December 6
Abstract submission for
contributed posters and
short talks

December 20
Conference Registration

December 27
Hotel reservations at
conference venue

32nd SANIBEL CONFERENCE ON MASS SPECTROMETRY

Unravelling the Exposome

January 23 - 26, 2020

South Seas Island Resort, Captiva Island, FL

Exposomics is the application of omics methodologies to characterize and quantify the exposome. The exposome not only comprises all human exposures from birth to death but it also complements the genome and integrates non-genetic exposures with associated biological response pathways in the search for causative factors of chronic human disease. Comprehensive characterization of all chemical exposures in the human internal and external environment is the main objective of the exposome. Within the exposome paradigm, the internal environment is composed of all bio-active chemicals circulating in the body. These include but are not limited to, dietary compounds, persistent environmental pollutants, xenobiotics, pharmaceuticals, metabolites and chemicals and signaling molecules synthesized by the external and internal microbiota (collectively referred to as the microbiome) all humans host. The external environment is composed of all potential exposures ranging from near-field to far-field sources of exogenous chemicals and uses both computational and experimental approaches to associate risk to these exposures leading to a holistic view of the exposome, essentially mapping the chemical space of the world around and inside of humans.

The conference will bring together experts in the fields of exposomics, metabolomics, microbiome research, epidemiology, systems biology and bioinformatics from government, industry and academia. Discussions will include the current status and trends in MS characterization of the exposome and the microbiome with the focus on qualitative and quantitative analyses using targeted, semi-targeted and discovery-based/non-targeted methodologies.

Detailed program at www.asms.org/sanibel-conference/program.

KEYNOTE LECTURES

Lee Ferguson
(Duke University)

Jon Sobus
(US EPA)

Stephen M. Rappaport
(University of California, Berkeley)

Antony Williams
(US EPA)

INVITED SPEAKERS

Manish Arora *(Icahn School of Medicine
at Mt. Sinai)*

Erin Baker *(NC State)*

Silvia Balbo *(University of Minnesota)*

David Balshaw *(NIEHS)*

Jeannie Conry *(FIGO)*

Justin Cross *(Memorial Sloan Kettering
Cancer Center)*

Sonia Dagnino *(Imperial College, London)*

David Graham *(Johns Hopkins University
School of Medicine)*

Thomas Hartung *(Johns Hopkins University
School of Public Health)*

David Humphrey *(The Forum Institute)*

Gary Miller *(Columbia University)*

Katherine Phillips *(US EPA)*

Grazia Piizi *(Merck)*

Julia Rager *(University of North Carolina)*

Doug Walker *(Mount Sinai School of
Medicine)*

John Wambaugh *(US EPA)*

Benedikt Warth *(University of Vienna)*

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