

ASMS Exposomics Interest Group

Workshop Report 2019

Moderators: Jarod Grossman, Silvia Balbo, Benedikt Warth

Guest Speakers: Gary Miller, Jon Sobus, Hector Keun

This year's workshop was attended by over 70 scientists, a huge increase from previous years and fitting with the growing interest, international multi-institution projects, and funding in the field. The workshop was organized by the co-chairs Dr. Jarod Grossman from Agilent Technologies, Dr. Silvia Balbo from University of Minnesota, and Dr. Benedikt Warth from University of Vienna. The workshop focused on the common elements of the exposome to highlight different researcher's takes on the meaning of the exposome and their approaches to generating meaningful results. Dr. Jarod Grossman, from Agilent Technologies, gave a 2-3-minute intro highlighting his views on the meaning of exposomics and the exposome. Then he introduced each speaker—three thought leaders in the field of exposomics (Dr. Jon Sobus from US EPA, Dr. Gary Miller from Columbia University, and Dr. Hector Keun from Imperial College London) talked for 5-7 minutes each (using a pre-made powerpoint slide template of a few slides they filled in) about their classification of the exposome, their methodology for study the exposome, challenges they have encountered and overcome as well as limitations they are experiencing in their research and analytical/data analysis capabilities, and future aspirations for the field.

Afterwards, the speakers sat at a table in the front and answered questions from the workshop attendees and facilitated group discussions along with the assistance from the co-chairs for the remaining ~50 minutes. Their topics were directed by the audience and discussion was rich at times and likely could have continued past the allotted time. Many scientists were very interested in the speakers takes on the future of exposomics, funding, and especially current projects/results within the field. They were also interested in their views on differing methodologies and annotation/statistical workflows.

Following the workshop, several attendees continued lively discussions.

Next year we hope to bring in thought leaders once again to talk about the successes being experienced in exposomic research as it is the 15 year mark since the term "exposome" was coined by Dr. Wild.

If you have any suggestions for next years' workshop, either topics or speakers please send them to Jarod Grossman (jarod.grossman@agilent.com), Silvia Balbo (balbo006@umn.edu), and Benedikt Warth (benedikt.warth@univie.ac.at).