

ASMS 2016 ORAL SESSION (WOA PM) REPORT

WOA pm: Exposomics: Targeted, Untargeted and Bioinformatics Technologies

- Attendance: > 200
- Chair: David Balshaw (NIEHS)
- Speakers regions: US, Canada, China, Taiwan
- Common Themes: Early childhood exposures, adult exposures
- Models: Fish, rat / mouse, drosophila, human, microbiome
- Methods: Targeted and untargeted mass spectrometry (TOF, Orbi, liquid and gas phase), EWAS, new metrology methods
- Chemical Classes: POPs, phthalates, metabolites, unannotated features
- Bioinformatics: Open source code (R and XCMS), in-house code (primarily in R), commercial packages (Agilent MPP)
- Observations / Future Needs:
 - Data archival, open-access repositories, method harmonization, measures of precision and performance, statistical power requirements
 - Add poster session next year
 - Possibly add a second oral platform session
 - Try not to overlap with environmental sessions