

## **Sciex Corporate Session Details**

### ***Combining electron-activated and collision-induced dissociation for lipid structural characterization and improved metabolite identification***

Uri Keshet, Ph.D. Postdoctoral Fellow, UC Davis Genome Center- Metabolomics

*The ZenoTOF 7600 combines electron-activated dissociation (EAD) with collision-induced dissociation (CID), and by doing so it enables users to collect enriched MS/MS spectra that contain diagnostic markers for structural elucidation of lipids. While EAD fragmentation adds information to the MS2 spectra, Zeno trapping improves its sensitivity and ion statistics. This combination results in increased confidence in metabolite identification. We collected EAD+CID spectra for 4000 authentic standards on the ZenoTOF 7600 to generate a library for the identification of lipids and metabolites in complex matrices.*

### ***Global lipidomic and lipid mediator profiling strategies using the high sensitivity SCIEX 7500 system***

Paul Norris, Ph.D. Applications Scientist, SCIEX

*Profiling of structural lipids and lipid mediators can often be challenging due to a multitude of different factors. To effectively gain the depth of coverage and dynamic range needed lengthy sample preparation, multiple injections, and/or complex method development is needed. On the SCIEX 7500 System, sensitivity gains, fast polarity switching, and optimized chromatography provides an average of 20x gains for structural lipids and 40x gains for lipid mediators. These sensitivity gains lend to greater dynamic range for structural lipid analysis and minimal sample preparation for lipid mediators for greater depth of coverage of lower level analytes to provide deeper insights into biological pathways and analysis.*