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Session 5: Expert Speaker, 20 min presentation followed by 10 min Q/A
15th September 2015 at 14:00 GMT (16:00 CET, 10:00 EDT, 23:00 JST)
Link to Register: <https://attendee.gotowebinar.com/register/5722391043320387074>



Dr. Dmitry Grapov

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Metabolomics and Beyond: Challenges and Strategies for Next-gen Omic Analyses

Robust interpretation of experimental results measuring discrete biological domains remains a significant challenge in the face of complex biochemical regulation processes such as organismal versus tissue versus cellular metabolism, epigenetics, and protein post-translational modification. Integration of analyses carried out across multiple measurement or omic platforms is an emerging approach to help address these challenges. The following presentation will focus on key challenges faced by metabolomics researchers in the areas large-scale studies data normalization, multivariate analysis, visualization and omics data integration.

Speaker Details

Dmitry Grapov received his PhD from the University of California, Davis; focusing on application of quantitative metabolomics and lipidomics for the study of human nutrition and disease. During his post-doctoral research in Oliver Fiehn's laboratory at the NIH West Coast Metabolomics Center he developed methods and software tools for metabolomic data analysis, visualization and omic data integration. Currently he is a Data Scientist in Genome Data Analytics at Monsanto and a free-lance consultant at CDS-Creative Data Solutions (<https://imdevsoftware.wordpress.com/>).

Dmitry Grapov specializes in development of open source software tools for high-dimensional biological data analysis and visualization including, DeviumWeb and MetaMapR (<https://github.com/dgrapov>). He has authored over 30 peer-reviewed publications focused on application of metabolomic, proteomic and genomic analyses to study complex biological states including: metabolic syndrome, diabetes, and cancer.

Please note that the Webinars are presently **free**, courtesy of the Metabolomics Society and will be uploaded to the society's website. All subsequent sessions from our series will be available to members of the Metabolomics Society with the opportunity to revisit live recorded sessions at your own convenience. Please feel free to contact us with any questions or suggestions via info.emn@metabolomicssociety.org