

## ***Agenda for the PSI Metabolomics workshop (1<sup>st</sup> Dec 2019)***

Time	Topic	Speaker	Comments
8:30 AM	Registration and set-up		Fill out the <a href="#">form</a>
9:00 AM	Opening and Overview	Prasad Phapale	
9:15 AM	Introduction	Vineeta Rai	Participant introduction and setting agenda
9:30 AM	Introduction: from Metabolomics to Metabolism (in the context of system biology)	Vineeta Rai	20 min talk and 10 min questions
10:00 AM	Experiment design for large-scale metabolomics experiments	Yashwant Kumar	20 min talk and 10 min questions
10:30-11:20 AM	Tutorials on LC-MS based Metabolomics workflows	Prasad Phapale	<p>Sample preparation, metabolite extraction and storage</p> <p>Targeted vs Untargeted metabolomics</p> <p>LC-MS workflow (separation and detection techniques for metabolomic analysis)</p>
11:20-11:30 Tea break			
11:30-12:30 PM	Tutorials on Data analysis workflow	Prasad Phapale	Concepts of data analysis and overview of opensource tools and libraries
12:30 -1:15 PM	Data analysis: Hand-on with EI-Maven	Shubra Agarwal/ Polly team	Data analysis demo and Hand-on data analysis session

<b>Lunch break 1:15-2:00</b>			
2:00 - 3:00 PM	Data analysis: Hand-on with EI-Maven	Shubra Agarwal/ Polly team	Data analysis demo and Hand-on data analysis session. Elaborating concepts on data curation, libraries and data quality checks
<b>Agilent Demo (3:00 - 5:00 PM)</b>			
40 mins	Comprehensive LC/MS-based tools for discovery and targeted metabolomics: Understanding mechanisms and biology of disease	Mr.Saurabh Nagpal, Application Scientist, Mass Spec Division	The talk should emphasize on basic metabolomics research in clinical diagnostics; showcase Agilent's metabolomics workflow including AssayMap
40 mins	Integrating Metabolomics and Proteomics for Comprehensive systems biology approach: MPP	Mr.Saurabh Nagpal, Application Scientist, Mass Spec Division	The topic will cover MPP, Genespring and Pathway Architect; Ingenuity pathways
45 min	Gain a new perspective with rapid measurement of metabolic functions in live cells using Seahorse XF Analyzers	Presentation: Dr. Deepak SA, Product Specialist, Cell Analysis	The talk should showcase how Seahorse can complement LCMS
	Functionality of SeaHorse	Presentation: Dr. Deepak SA, Product Specialist, Cell Analysis	Hands-on workshop
5:00 -5:30 PM	Discussions, questions and Feedback, follow-up Thanks!		