

10:00-10:15	Speaker Introduction	Prof. Dr. M. Qaiser Fatmi
SESSION I		
How can meta*omics help understand microbial ecology in an environmental and medical context?		
*10:15-10:45	Understanding microbial communities through <i>in situ</i> omics data synthesis- An introduction Sources of variation, platforms, technologies, and protocols Data analytics-basic approaches/advanced validation	Dr. Umer Z. Ijaz
10:45-11:15	Microbial community assembly mechanisms – How do you link microbes to ecology?	Dr. Umer Z. Ijaz
11:15-11:45	Understanding stability and complexities in microbial ecosystems	Dr. Umer Z. Ijaz
11:45-12:15	Advanced statistical analyses including mediation analysis	Dr. Umer Z. Ijaz
12:15-12:45	Shotgun metagenomics to go beyond what is there and understand what it is doing	Dr. Umer Z. Ijaz
12:45-13:00	Q&A	Open forum
SESSION II		
Designing a project		
How can I generate the most impact out of a meta-analysis driven projects?		
How can I get the most information out of my survey data? Best practices and recommendations		
13:00-13:15	Software projects/products/engineered systems harnessing microbiome – Portfolio showcase, opportunities, new avenues, and capacity building	Dr. Umer Z. Ijaz
13:15-13:30	Statistics and research direction – What exactly is the potential of microbial informatics these days?	Dr. Umer Z. Ijaz
13:30-13:45	Meta-analyses strategies – safeguarding research endeavours in a volatile funding climate	Dr. Umer Z. Ijaz
13:45-14:00	Good practices/recommendations for community surveys including statistical approaches	Dr. Umer Z. Ijaz
14:00-14:15	Q&A	Open forum
SESSION III		
Ongoing projects		
14:30-14:45	Lessons learnt: Human gut microbiome and paediatric stunting/ CRC	Prof. Dr. Habib Bokhari/ Dr. Zobia Noreen/
14:15-14:30	Lessons learnt: What defines a healthy gut microbiome? Psychosocial drivers of microbial gut health in Pakistan	Dr. Sundus Javed
14:45-15:00	Lessons Learnt: Human gut/tissue microbiome and Thalassemia	Dr. Aamira Tariq
15:00-15:15	Lessons learnt: Poultry farming practices, disease incidence and cecal microbiome	Dr. Sundus Javed
15:15-15:30	Way forward	Open forum

To receive your participation certificate, kindly submit the form below with your feedback

(Form Link: <https://forms.gle/GQsyPGqTGUUpKc9GQ9>)

***all times are Pakistan Standard Time**