

First International Workshop
on
SYSTEMS BIOLOGY FOR HUMAN & PLANT NUTRITION
CENTER OF EXCELLENCE IN GENOMICS & SYSTEMS BIOLOGY
ICRISAT, Hyderabad, India
March 22-24, 2018

Technical Program

Thursday, March 22, 2018
(212 Conference Hall)

08:30- 09:00 - Registration

09:00 – 10:00 hrs	Inaugural Session	
09:00 – 09:15	Welcome & Introduction	Rajeev Varshney <i>ICRISAT, India</i>
09:15 – 09:20	Inaugural Address	Peter Carberry, DDG- Research <i>ICRISAT, India</i>
09:20 – 09:30	About the workshop	Rajeev Varshney
09:30 – 10:00	Inaugural lecture: The gut microbiome in health and diseases – moving from mice and pigs to humans	Karsten Kristiansen <i>BGI-Shenzhen, China & University of Copenhagen</i> Denmark
10:00 – 10:30	<i>Group photo & Tea / Coffee Break</i>	
10:30 – 12:30 hrs	Session I: Human Gut/ Oral Microbiome Chair: Karsten Kristiansen, BGI-Shenzhen, China & University of Copenhagen, Denmark Rapporteur: Lekha Pazhamala, ICRISAT, India	
10:30 – 11:00 hrs	The Vienna Metabolomics Center – Applications in clinical studies and systems biology	Wolfram Weckwerth <i>University of Vienna</i> Austria
11:00 – 11:30 hrs	Molecular analysis of human Intestinal, oral and skin microbiome across the age groups in Indian patrilineal joint families	Dhiraj Dhotre <i>National Centre for Microbial Resources</i> India
11:30 – 12:00 hrs	The undernutrition story: Gut microbiome perspectives	Sourav Sen Gupta <i>Rajiv Gandhi Centre for Biotechnology</i> India
12:00 – 12:30 hrs	Factors influencing the human microbiome: genetics, environment, diet, and antibiotics	Liam Shaw <i>University College London</i> UK
12:30 – 13:30 hrs	<i>Lunch- 204 Banquet Hall</i>	

13:30 – 15:00 hrs	Session II: Human Gut/ Oral Microbiome <i>Chair: Wolfram Weckwerth, University of Vienna, Austria</i> <i>Rapporteur: Sarita Pandey, ICRISAT, India</i>	
13:30 – 14:00 hrs	Microbial role shift: Gut microbiota can be an asset or a problem to human host	V Deepak Bamola <i>All India Institute of Medical Sciences (AIIMS)</i> India
14:00 – 14:30 hrs	Role of legume derived synbiotic on immune modulation in mouse model- Relevance to gut health in humans	Himaja Nallagatla & Vasanthi Siruguri <i>ICMR-National Institute of Nutrition</i> India
14:30 – 15:00 hrs	Computational genomics of gut pathogens	Sabiha Shaik <i>International Centre for Diarrhoeal Disease Research</i> Bangladesh & <i>University of Hyderabad, India</i>
15:00 – 15:30 hrs	<i>Tea / Coffee Break</i>	
15:30 – 17:10 hrs	Session III: Country reports on nutrition (max 20' min each) <i>Moderator: Rajeev Varshney, ICRISAT, India</i> <i>Rapporteur: Rakesh Kumar, ICRISAT, India</i>	
	India- Country report on nutrition	KV Radhakrishna <i>ICMR- National Institute of Nutrition, India</i>
	Ghana- Country report on nutrition	Kwaku Tano-Debrah <i>University of Ghana, Ghana</i>
	Senegal- Current status of nutrition in Senegal: What is the contribution of the nutrition laboratory?	Nicole Idohou-Dossou <i>University Cheick Anta Diop of Dakar, Senegal</i>
	Mali- Country report on nutrition	Fatou Diawara Mme Traoré <i>Centre for Research and Documentation on Child Survival, Mali</i>
	Gambia- Country report on nutrition	Modou Jobe <i>MRC Unit The Gambia (MRCG), The Gambia</i>
18:00 hrs	Cocktails & Dinner - IMOD Plaza	

Friday, March 23, 2018
(Venue: 307 Conference Hall)

08:30 – 09:00 hrs	Session II: Human Gut/ Oral Microbiome continued <i>Chair: Wolfram Weckwerth, University of Vienna, Austria</i> <i>Rapporteur: Sarita Pandey, ICRISAT, India</i>	
08:30 – 09:00 hrs	Microbiome signatures in colorectal cancer	Manimozhiyan Arumugam <i>University of Copenhagen</i> Denmark

09:00 – 12:00 hrs	Session IV: Plant/Soil Microbiome & Trait Biology <i>Chair: Apparao Podile, University of Hyderabad, India</i> <i>Rapporteur: Pallavi Sinha, ICRISAT, India</i>	
09:00 – 09:30 hrs	Plant microbiome: Unravelling the biota black box	Vadakattu Gupta <i>Commonwealth Scientific and Industrial Research Organisation (CSIRO)</i> Australia
09:30 – 10:00 hrs	A critical role for pore connectivity in microbiome behaviour and metabolism in soil	Andrew Neal <i>Rothamsted Research</i> UK
10:00 – 10:30 hrs	<i>Tea / Coffee Break</i>	
10:30 – 11:00 hrs	Taxonomic structure and functional association of foxtail millet root microbiome	Tao Jin <i>BGI-Shenzhen</i> China
11:00 – 11:30 hrs	Proteomics to understand stress responsive mechanism in plants	Palak Chaturvedi <i>University of Vienna</i> Austria
11:30 – 12:00 hrs	Deciphering the dynamic biology of a pigeonpea environment-sensitive male sterile line	Lekha Pazhamala <i>ICRISAT</i> India
12:00 – 13:00 hrs	<i>Lunch- 204 Banquet Hall</i>	
13:00 – 17:00 hrs	<i>Brainstorming sessions</i>	
13:00 – 13:30 hrs	Proposed research activities @CEGSB-ICRISAT	Rajeev Varshney <i>ICRISAT</i> India
13:30 – 15:00 hrs	Gut Microbiome Brainstorming	Moderator: Manimozhiyan Arumugam <i>University of Copenhagen</i> Denmark
15:00 – 15:30 hrs	<i>Tea / Coffee Break</i>	
15:30 – 16:30 hrs	Soil Microbiome / Trait Biology Brainstorming	Moderator: Tao Jin <i>BGI-Shenzhen</i> China
16:30 – 17:00 hrs	Data Integration Brainstorming	Moderator: Prasad Bajaj <i>ICRISAT</i> India
17:00 – 17:30 hrs	Closing Session	
	Feedback about workshop Closing remarks Vote of thanks	Workshop delegates Peter Carberry Rajeev Varshney
18:00 hrs	<i>Dinner - Academic Court</i>	

Optional Tours

1. ICRISAT Research Facilities

March 21, 2018	14:00 hrs onwards
	<ul style="list-style-type: none">* SAT Venture* Center of Excellence in Genomics & Systems Biology (CEGSB)* Genebank* Platform for Translational Research on Transgenic Crops (PTTC)

2. Hyderabad City / Monuments tour

March 24, 2018	10:00 hrs onwards
	<ul style="list-style-type: none">* Charminar* Golconda Fort* Qutub Shashi Tombs* Shilparamam