

20th October, 2021 (Wednesday) - Education Day

Time	Talk No.	Speaker	Topic
09:00 - 09:15	Inauguration	Subhra Chakraborty, NIPGR, New Delhi, President-PSI	
09:15 - 09:45	EL-01	Srikanth Rapole, NCCS, Pune	Mass Spectrometry based Proteomics
09:45 - 10:15	EL-02	Ramesh Ummani, CSIR-IICT, Hyderabad	Protein microarrays and its applications
10:15 - 10:45	EL-03	Soumen Kanti Manna, SINP, Kolkata	Metabolomics in Cell Biology
10:45 - 11:00	Break		
11:00 - 11:30	EL-04	Niranjan Chakraborty, NIPGR, New Delhi	Plant Proteomics
11:30 - 12:00	EL-05	Ashok Mohanty, IVRI, Mukteswar	Animal Proteomics
12:00 - 12:30	EL-06	Poonam Goutam, National Institute of Pathology, New Delhi	Clinical Proteomics
12:30 - 13:00	EL-07	Mahesh J Kulkarni, CSIR-NCL, Pune	Targeted Proteomics
13:00 - 14:00	Lunch		
14:00 - 15:30	EL-08	Swasti Raychaudhuri, CSIR-CCMB, Hyderabad	Sample preparation for mass spectrometry based proteomics
15:30 - 15:45	Break		
15:45 - 17:15	EL-09	Amit Kumar Yadav, THSTI, New Delhi	Proteomics data analysis
17:15 - 17:45		Interaction/Q & A/Quiz/Closing remarks	
17:45 - 18:00	Break		
18:00 - 20:00		PSI EC meeting	

21st October, 2021 (Thursday) - International Conference, Day 1

INAUGURATION

Chair	Time	Talk No.	Speaker	Topic
	09:00 - 09:05		Welcome Remarks by Convener, Omics-2021 - Swasti Raychaudhuri, CSIR-CCMB, Hyderabad	
	09:05 - 09:15		Remarks by Director, CSIR CCMB - Vinay K Nandicoori	
	09:15 - 09:25		Remarks by President, PSI - Subhra Chakraborty, NIPGR- New Delhi	

PLENARY SESSION - I

Ravi Sirdeshmukh	09:30 - 10:15	PL-01	Michael P. Snyder, Stanford University School of Medicine, USA	Big data, health and COVID-19
-------------------------	---------------	-------	--	-------------------------------

Break

SESSION - I : OMICS IN COVID-19

R. Nagaraj & R Sankarnarayanan	10:30 - 10:50	IL-01	Tiannan Guo, Westlake University, Hangzhou, China	Proteomic and metabolomic investigation of host responses in COVID-19 patients
	10:55 - 11:15	IL-02	Dipyaman Ganguly, CSIR-IICB, Kolkata	Clinical and immunological outcomes of a RCT on convalescent plasma therapy in severe COVID-19: patho-physiological insights from plasma proteomic studies

Break

SESSION - II : OMICS IN BASIC BIOLOGY (I)

R. Nagaraj & R Sankarnarayanan	11:30 - 11:50	IL-03	Rakesh Mishra, CSIR-CCMB, Hyderabad	Proteomic analysis of nuclear matrix: evolution of nuclear architecture and structural basis of cellular memory
	11:55 - 12:15	IL-04	Kausik Chakraborty, CSIR-IGIB, New Delhi	Metabolism and its role in cellular proteostasis
	12:20 - 12:40	IL-05	Siddhesh Kamat, IISER, Pune	Mapping sphingolipid pathways during phagosomal maturation

Lunch

PLENARY SESSION - II

Subhra Chakraborty	14:00 - 14:45	PL-02	Matthias Mann, Max Planck Institute of Biochemistry, Germany	Ultra-high sensitive and computational workflows for single cell and deep visual proteomics
---------------------------	---------------	-------	--	---

Break

SESSION - III : OMICS IN HEALTHCARE

Surekha Zingde & Krishnan Venkataraman	15:00 - 15:20	IL-06	Shantanu Sengupta, CSIR-IGIB, New Delhi	Proteomics in Clinical Practice: Bridging the gap from discovery to Application
	15:25 - 15:45	IL-07	Alka Rao, CSIR-IMTech, Chandigarh	Protein Glycosylation in <i>Actinobacteria</i> : How Sweet !
	15:50 - 16:10	IL-08	Inderjeet Kaur, L V Prasad Eye Institute, Hyderabad	Identification of predictive marker(s) for an early diagnosis of a blinding disorder in premature children using a multiOMICS approach

Break

SESSION - IV : LIGHTNING TALKS - I (A, B & C)

Santosh Kumar & Saikat Chowdhury	16:45 - 17:45	Parallel sessions	ROOM A - LT 1 to 9	
Md. Idris & Regalla Kumaraswami			ROOM B - LT-10 to 18	
P Chandra Shekar & Mukesh Lodha			ROOM C - LT 19 to 27	

Break

	18:00 - 20:00		PSI GB meeting	
--	---------------	--	----------------	--

22nd October, 2021 (Friday) - International Conference, Day 2

SESSION-V : OMICS IN DISEASE BIOLOGY (I)				
Chair	Time	Talk No.	Speaker	Topic
Manjula Reddy & Geetanjali Sachdeva	09:30 - 09:50	IL-09	Vinay K Nandicoori, CSIR-CCMB, Hyderabad	<i>Mycobacterium tuberculosis</i> virulence and survival & the role of phosphorylation
	09:55 - 10:15	IL-10	Arun Bandyopadhyay, CSIR-IICB, Kolkata	Proteomic approaches for understanding molecular basis of inflammation in Atherosclerosis
	10:20 - 10:40	IL-11	Sanjeeva Srivastava, IIT, Mumbai	Mass spectrometry based proteomics and Fourier transform infrared spectroscopy for diagnosis and prognosis of COVID-19 infection
	10:45 - 11:05	IL-12	Dhanasekaran Shanmugam, CSIR-NCL, Pune	Characterizing evolutionarily distinct and highly diverged proteins with conserved functions from the parasite <i>Toxoplasma gondii</i> .
	11:10 - 11:25	IL-13	Amol Suryawanshi, ISL, Bhubaneswar	Quantitative proteomics approaches leads to identify differentially expressed brain proteins involved in furious rabies virus infection
Break				
SESSION - VI : LIGHTNING TALKS - II (A, B & C)				
Sonal Nagarkar Jaiswal & Venkat R. Chalamcharla	11:45 - 12:45	Parallel sessions	Room A - LT 28 to 36	
Md. Idris & Regalla Kumaraswami			Room B - LT 37 to 45	
Santosh Kumar & Saikat Chowdhury			Room C - LT 46 to 54	
Break				
SESSION - VII: ADVANCED TECHNOLOGIES IN OMICS				
Srikanth Rapole	12:45 - 13:05	TL-01	Nick Morrice, Sciex	Powerful new proteomic workflows enabled by the SCIEX ZenoTOF system
Lunch				
PLENARY SESSION - III				
Jyotsna Dhawan	14:30 - 15:15	PL-03	Agnus Lamond, University of Dundee, UK	Proteomic analyses of human stem cells
Break				

SESSION - VIII : DECODING OMICS - PROTEOGENOMICS, METAPROTEOMICS (I)

Rakesh Mishra	15:40 - 16:10	IL-14	Juergen Cox, Max Planck Institute of Biochemistry, Germany	MaxDIA enables library-based and library-free data-independent acquisition proteomics
	16:15 - 16:45	IL-15	Jyoti Chaudhary, The Institute of Cancer Research, UK	Integrative Proteogenomics: Deconvoluting genetic determinants of protein abundance variation

Break

SESSION - IX: LIGHTNING TALKS - III (A & B)

P Chandra Shekar & Mukesh Lodha	17:00 - 18:00	Parallel sessions	Room A - LT 55 to 64	
Sonal Nagarkar Jaiswal & Venkat R. Chalamcharla			Room B - LT 65 to 75	

Break

SESSION - X : DECODING OMICS - PROTEOGENOMICS, METAPROTEOMICS (II)

Amitabha Chattopadhyay	18:30 - 18:50	IL-16	Jagannath Swaminathan, University of Texas at Austin and Erisyon Inc, USA	Sample preparation for single molecule protein sequencing technology - Fluorosequencing
	19:00 - 19:20	IL-17	Pratik Jagtap, University of Minnesota, USA	Metaproteomics: Promoting functional analysis of microbiome through online educational resources via the galaxy platform
	19:30 - 19:50	IL-18	Shankha Satpathy, Broad Institute of MIT and Harvard, USA	Dissecting proteogenomic vulnerabilities in cancers

23rd October, 2021 (Saturday) - International Conference, Day 3

PLENARY SESSION - IV				
Chair	Time	Talk No.	Speaker	Topic
Suman Kundu	09:00 - 09:45	PL-04	John Yates III, The Scripps Research Institute LA, USA	Proteome Analysis using Combined Single Neuron Patch-Clamp / Mass Spectrometry Analysis (PatchC-MS)
Break				
SESSION - XI : OMICS IN AGRICULTURE				
Subhra Chakraborty & Niranjana Chakraborty	10:00 - 10:20	IL-19	Paul A. Haynes, Macquarie University, Australia	Proteomic analysis of different varieties and species of rice under various stress conditions
	10:25 - 10:45	IL-20	Pengcheng Wang, Chinese Academy of Sciences, Shanghai, China	Study RAF-SnRK2 cascade in Arabidopsis by proteomic strategies
	10:50 - 11:10	IL-21	Paul E. Verslues, Academia Sinica, Taipei, Taiwan	Type 2C Protein phosphatases and their target proteins that regulate plant growth during drought stress
Break				
SESSION - XII : OMICS IN DISEASE BIOLOGY (II)				
Tushar Vaidya & K. Balamurugan	11:30 - 11:50	IL-22	Utpal tatu, IISC, Bangalore	Novel post-translational modifications on flagellar tubulin regulate motilities in neglected infectious disease caused by <i>Trichomonas vaginalis</i> and <i>Giardia lamblia</i>
	11:55 - 12:15	TL-02	Yue Xuan, Thermo Fisher Scientific	Trends in Life Science OMICS Research
	12:20 - 12:35	IL-23	Sandipan Ray, IIT-Hyderabad	Multiplexed quantitative proteomics for mechanistic study of pharmacological modulators of circadian time-keeping machinery
Lunch				
SESSION - XIII : OMICS IN ANIMAL BIOTECHNOLOGY				
Ashok Mohanty	14:00 - 14:20	IL-24	Maya Zachut, Institute of Animal Science ARO, Israel	A proteomics approach to unravel adipose tissue inflammatory responses in peripartum cows
	14:25 - 14:45	IL-25	Ashish Mukherjee, IASST, Guwahati	The Application of Mass Spectrometry and Other Analytical Techniques for the Quality

				Assessment of Commercial AntivenomD
	14:50 - 15:10	IL-26	Srinivas Kiran Ambatipudi, IIT, Roorkee	The Dynamics and Power of the Bovine Milk Components in Health and Disease
Break				
SESSION - XIV : OMICS IN BASIC BIOLOGY (II)				
Mandar V Deshmukh	15:30 - 15:50	IL-27	Amit Kumar Mandal, IISER, Kolkata	Structural analysis of post-translationally modified human hemoglobin: A native mass spectrometry based approach
	15:55 - 16:15	IL-28	Veena Patil, NII, New Delhi	Human CD4+ T cell memory subsets in infectious diseases: Lessons from multi-omics analysis
	16:20 - 16:40	IL-29	Manas Santra, NCCS, Pune	Reaching the drop through the ocean: Proteomic study to capture dynamic interactions for understanding cancer pathogenesis and treatment
Break				
SESSION - XV : PANEL DISCUSSION - "ETHICS IN COMMUNICATING SCIENCE"				
Moderator: Debasis Dash, CSIR-IGIB, New Delhi	17:00 - 18:00		D. Balasubramanian, LVPEI Surekha Zingde, PSI Subhash C Lakhotia, BHU, Varanasi	Ethics in communicating Science
VALEDICTORY				
	18:00 - 18:30		Subhra Chakraborty, Srikanth Rapole, Shantanu Sengupta, Arun Bandyopadhyay	