

FREDERICK SANGER'S DAY - THURSDAY, NOVEMBER 28, 2013

08:00 am - 09:00 am	Registration	
09:00 am - 09:15 am	Welcome and Opening Remarks by Prof. P. Balaram, Director, IISc, Bangalore	
09:15 am - 10:00 am	Plenary Talk by Prof. Samir K. Brahmachari, DG CSIR, New Delhi	
Session I: Infectious Diseases Chair: Prof. D.N. Rao and Prof. Deepshikha Chakraborty, IISc		
10:00 am - 10:30 am	Prof. Christian Doerig	Kinomics and phosphoproteomics of malaria parasites: Insights into the biology of a divergent eukaryote
10:30 am - 11:00 am	Dr. T.S. Keshava Prasad	Proteogenomic analysis of Indian Vector of malaria, <i>Anopheles stephensi</i>
11:00 am - 11:30 am	Tea Break	
11:30 am - 12:00 noon	Prof. Sandhya S. Visweswariah	Protein Lysine Acetylation in Mycobacteria: the cAMP connection
12:00 noon - 12:30 pm	Prof. Vijaya Lakshmi	Proteomic characterization of Mycobacterium tuberculosis purified protein derivative (PPD) using LC-MS/MS
12:30 pm - 01:00 pm	Prof. Pawan Malhotra	Proteome analysis identify a hemozoin formation complex & novel secretory proteins in <i>Plasmodium falciparum</i> at asexual blood stages
01:00 pm - 03:00 pm	Lunch/Poster/Coffee	
Session II: Pathophysiology & Drug Discovery Chair: Prof. H.S. Savithri, IISc & Prof. Shantanu Sengupta, IGIB		
03:00 pm - 03:30 pm	Prof. Satish Rao	Urine Exosome Paradigm of Kidney Failure: Clinical Utility of Exosome Proteomics
03:30 pm - 04:00 pm	Prof. Kumar Somasundaram	Understanding glioblastoma through proteomic approaches
04:00 pm - 04:15 pm	Dr. Marcus Macht Bruker	Comprehensive characterization of biopharmaceuticals by MALDI and ESI mass spectrometry
04:15 pm - 04:30 pm	Dr. Ravi K. Krovidi Agilent Technologies	Targeted Phosphoproteomics Analysis of Immunoaffinity Enriched Tyrosine Phosphorylation in Mouse Tissues
04:30 pm - 05:00 pm	Prof. Akhilesh Pandey	Unravelling breast cancer signalling pathways using phosphoproteomics
05:00 pm - 05:30 pm	Prof. K. Dharmalingam	Application of Proteomics to understand eye diseases
Panel discussion:		
05:30 pm - 06:30 pm		
Application of Mass-spectrometry in Medical Research		
Chair: Dr. Krishnaswamy, Prof. Ravi Sirdeshmukh, Prof. Satish Rao and Dr. Surekha Zingde		
06:30 pm - 07:00 pm	Tea Break	
07:00 pm - 08:00 pm	Executive Council (EC) Meeting / Cultural Event for rest of the audience	
08:00 pm onwards	Dinner	

JAMES ROTHMAN'S DAY - FRIDAY, NOVEMBER 29, 2013

Session I: Cell Signalling & Gene Regulation | Chair: Prof. K.P. Gopinath, IISc and Prof. Ramaswamy S, NCBS

09:00 am - 09:30 am	Prof. Didier Picard	The impacts of inhibiting a major proteome hub, The molecular chaperone Hsp90
09:30 am - 10:00 am	Prof. Rakesh Mishra	Comparative proteomics of nuclear matrix and mitotic chromosome scaffold: structural basis of epigenetic cellular memory
10:00 am - 10:30 am	Prof. Tapas K. Kundu	Chromatin Meets Cancer: Role of Multifunctional Non-histone Chromatin Protein PC4 in Genome Organization and Breast Cancer Manifestation
10:30 am - 11:00 am	Prof. G. Mugesh	Understanding the Mechanism of Thyroid Hormone De-iodination by Liquid Chromatography and Mass Spectrometry
11:00 am - 11:30 am	Tea Break	

Session II: Ecological Sciences | Chair: Prof. Ramasarma, IISc and Prof. Abhijit Chakrabarti, SINP

11:30 am - 11:45 am	Dr. Michael A. Blank Thermo-scientific	New Strategies for Higher Multiplexing and PTM Modification, Enrichment, Quantitation with isobaric labelling
11:45 am - 12:15 pm	Dr. Kannan Rangiah	Quantitative metabolomics: Understanding the Role of neurotransmitters in Planarian Regeneration
12:15 pm - 12:45 pm	Prof. Renee M. Borges	The volatilome of a nursery for seeds and wasps: how and why scents change
12:45 pm - 01:00 pm	Dr. Akhilesh Pandey	From cells to organisms - Using SILAC and SILAM for quantitative proteomics
01:00 pm - 03:00 pm	Lunch/Poster/Coffee	

Session III: Neurobiology | Chair: Prof. Saumitra Das, IISc and Prof. Surekha Zingde, ACTREC

03:00 pm - 03:30 pm	Dr. Srinivas Bharath	Mitochondrial changes and oxidative damage in a mouse model of muscle degeneration: Implications for neuromuscular disorders
03:30 pm - 04:00 pm	Dr. Stefan Tenzer Johannes Gutenberg University of Mainz (Waters)	Label-free quantification of complex proteomes using ion-mobility enhanced data-independent acquisition
04:00 pm - 04:30 pm	Dr. Mohammed Idris	Bio-mechanism of Epimorphic regeneration
04:30 pm - 05:00 pm	Dr. Jean-Baptiste Vincendet, AB Sciex	SWATH Data Independent Acquisition: A game Changer for Proteomic Research and Biology
05:00 pm - 05:30 pm	Dr. Axel Brockmann	Neuropeptidomics and Honeybee Behaviour
05:30 pm - 06:00 pm	Tea Break	
06:00 pm - 07:00 pm	General Body Meeting (GBM)	

KOICHI TANAKA'S DAY - SATURDAY, NOVEMBER 30, 2013

Session I: Clinical Proteomics | Chair: Dr. Krishnaswamy, KMC and Prof. P.N. Rangarajan, IISc

09:00 am - 09:30 am	Prof. Kalpana Bhargava	Survival at High Altitude: Insight into High Altitude Native Plasma Proteome
09:30 am - 10:00 am	Dr. Mahesh J. Kulkarni	Abundance matters: Low abundance of albumin is associated with increased plasma protein glycation
10:00 am - 10:30 am	Dr. Krishna R. Murthy	Proteomic analysis of ocular tissues
10:30 am - 11:00 am	Prof. Amit Mandal	Mass spectrometry based analysis of hemoglobin variants using customized database
11:00 am - 11:30 am		Tea Break

Session II: Plant Proteomics | Chair: Prof. Appaji Rao and Prof. Usha Vijayraghavan, IISc

11:30 am - 12:00 noon	Dr. Subhra Chakraborty	Quest for nutrient-responsive proteins and cellular networks in pants: A comparative proteomic approach
12:00 noon - 12:30 pm	Prof. Y. Sreelakshmi	Proteomic tools for understanding tomato fruit quality and shelf life
12:30 pm - 01:00 pm	Dr. Niranjana Chakraborty	Proteomics Study of Stress response in the microsomal membrane of Chick pea (<i>Cicer arietinum</i> L): Molecular basis of stress adaptation
01:00 pm - 03:00 pm		Lunch/Coffee

Session III: Mass Spectrometry Applications | Chair: Prof. Dipankar Chatterji and Prof. K.R.K. Easwaran, IISc

03:00 pm - 03:30 pm	Prof. Jayant B. Udgaonkar	Structural characterization of prion protein aggregation using HX-MS
03:30 pm - 04:00 pm	Dr. Akshay Naik	Nanoelectromechanical system for single molecule mass measurements
04:00 pm - 04:30 pm	Dr. Mark A. McDowell Waters	An Integrated Strategy for Multi-Omics Analysis Employing Three Dimensions of Resolution
04:30 pm - 05:00 pm	Prof. Siddhartha P. Sarma	Mass Spectrometric Analysis of Proteins and Peptide Natural Products
05:00 pm - 05:30 pm	Dr. Suman Thakur	High throughput quantitative proteomics and its application in biology and medicine

05:30 pm - 05:45 pm

Valedictory

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