

**Workshop on
Statistical Methods for Bioinformatics
(December 12 - 14, 2013)**

**Indian Institute of Science
Bangalore**

**December 13, 2013
Friday**

Venue: Lecture Hall – I, Department of Mathematics, IISc, Bangalore

9:00am – 10:15am	Nagasuma R. Chandra IISc	Towards disease prediction modeling - Analysis of host pathogen interactions through integrated genome-scale networks and Boolean dynamics
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10:15am – 10:30am Tea

10:30am – 11:45am	Olga Vitek Purdue University	Statistical methods for quantitative mass spectrometry-based proteomics
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11:45am – 12:45pm Contributed Papers (3 speakers):

Sheikh Taslim Ali Karnatak University	Likelihood and Bayesian Estimates of Reproduction Numbers through Stochastic Modelling for the Pandemic Influenza A/H1N1 2009 in India
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Trinadh Kumar Potina Tata Consultancy Services	Comprehensive statistical and functional annotation analysis of data from Affymetrix Human Genome U133 Plus 2.0 array
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Sandip Shil Gauhati University	Study on different gene selection methods: support vector machine classification approach
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12:45pm – 1:45pm Lunch

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1:45pm – 3:00pm	N. Srinivasan IISc	Filling-in void and sparse regions in protein sequence space by protein- like artificial sequences enables remarkable enhance mentin remote homology detection capability
3:00pm – 4:15pm	T. S. Vasulu ISI	Statistical methods for Phylogenetic analysis
4:15pm – 4:30pm	Tea	
4:30pm-5:45pm	Paul Joyce University of Idaho	The role of statistics in the theory of adaptive evolution informed by experimental data
5:45pm-6:00pm	Discussions	

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Saturday**

Venue: Lecture Hall – I, Department of Mathematics, IISc, Bangalore

9:00am – 10:15am	Susan Holmes Stanford University	The many sides of the Human Microbiome: combining heterogeneous data in meaningful ways
10:15am-10:30am	Tea	
10:30am-11:45am	K. Thangaraj CCMB	Statistical Methods for Human Evolution, Health and Disease
11:45am – 01:00pm	Contributed Papers (4 speakers):	
	Malay Bhattacharya University of Kalyani	Micro RNA Signatures Distinguish Breast Cancer Subtypes
	H.V. Kulkarni Shivaji University	A New Distribution on the Torus with Applications to Paired Circular Genome Data
	Anwasha Pan ISI	Network Analysis wrt PCOS
	Ranjeet Rout ISI	Analysis of Boolean Functions based on Interaction Graphs and their influence in System Biology
01:00pm – 2:00pm	Lunch	
2:00pm – 3:15pm	Sanghamitra Bandopadhyay ISI	Multiobjective Clustering with SVM Based Ensembling for Analysis of Gene Expression Data
3:15pm – 3:45pm	Discussion	
3:45pm – 4:00pm	Concluding Remarks	