KOLKATA INTERNATIONAL SCHOOL CUM CONFERENCE ON SYSTEMS BIOLOGY

December 29, 2012 - January 03, 2013

KOLSYSBIO school schedule

December 29th, 2012

Time	Speaker	Title of the Talk
1000 - 1115	J Shapiro	**S01**: Introduction to molecular biology: systems (modularity) all the way down
1145 - 1300	P Venkataraman	**S02**: Structural bioinformatics: tools and principles
1415 - 1530	S Ramachandran	**S03:** Introduction to quantitative analysis for biologists
1600 - 1715	P Venkataraman	**S04:** Structural bioinformatics: applications of tools and principles case studies
1815 - 1945	*Discussion / Tutorial*	

December 30th, 2012

1000 - 1115	S Ramachandran	**S05:** Case examples of cheminformatics, integrated immunoinformatics and single nucleotide variations.
1145 - 1300	K Chakraborty	**S06:** Quantifying outputs from biological experiments
1415 - 1530	C Guet	**S07**: Synthetic genetic engineering
1600 - 1715	V Shahrezaei	**S08:** Modelling intrinsic and extrinsic noise in biochemical networks
1815 - 1945	*Discussion / Tutorial*	

December 31st, 2012

1000 - 1115	J Shapiro	**S09:** DNA-based genetics teaches us how cells control genome change
1145 - 1300	K Chakraborty	**S10:** Quantifying outputs from biological experiments
1415 - 1530	C Guet	**S11**: Synthetic genetic engineering
1600 - 1715	V Shahrezaei	**S12:** Rule-based modeling in systems biology
1815 - 1945	*Discussion / Tutorial*	

Lunch: 1300 – 1415 **Tea Break: 1115 – 1145 & 1530 – 1600** **Dinner: 1945 – 2030**

KOLSYSBIO conference schedule

January 1st, 2013

Conference Inauguration at 9:40 AM

Time	Speaker	Title of the Talk
1000 - 1100	J Shapiro	**C01:** What DNA teaches about evolution
1120 - 1220	P Venkataraman	**C02:** Application of structural bioinformatics in the identification of potential therapeutically vulnerable targets and their experimental validation
1220 - 1320	S Ramachandran	**C03:** Identification of novel adhesins of *M. tuberculosis* H37Rv using integrated approach of multiple algorithms and experimental analysis
1440 - 1540	V Shahrezaei	**C04:** Input-output relations in biochemical networks
1600 - 1700	A Ghose	**C05:** Cytoskeleton dynamics, traction forces and mechanical responses investigating the interface of biochemistry and mechanics in neurons
1700 - 1800	*Cultural programme followed by conference banquet*	

January 2nd, 2013

1000 - 1100	N Jones	**C06:** Mitochondrial variability
1120 - 1220	S Mande	**C07:** TBA
1220 - 1320	N Chandra	**C08:** Systems biology approaches to drug discovery
1440 - 1540	K Chakraborty	**C09:** Chemical chaperones assist intracellular folding to buffer mutational variations
1600 - 1700	K Desai	**C10:** Re-mining data to predict the future our experience with breast cancer
1800 - 2100	*Event on Ganges*	

January 3rd, 2013

1000 - 1100	C Guet	**C11:** Systems biology at the single cell level
1120 - 1220	S Maiti	**C12:** Does a critical peptide fold hold the key to Alzheimers?
1220 - 1320	PS Ray	**C13:** Kinetics of gene regulatory networks predicting novel interactions and understanding signal integration
1440 - 1540	T Michoel	**C14:** Interacting networks from genome- scale data with applications to complex disease genetics

Lunch: 1320 – 1440 **Tea Break: 1100 – 1120 & 1540 – 1600** **Dinner: 1945 – 2030**