

JAN						
	Mon	Tue	Wed	Thu	Fri	Sat
Time	25	26	27	28	29	30
9-9.30	Registration+Welcome address by ICTS Director					
9.30-11	BW: Introduction to mutation, selection and drift	JW: Basic Probability theory	JW: Introduction to gene genealogies and coalescent processes	JW: Gene genealogies with recombination	JW: Structured coalescent processes	JW: Coalescent processes with multiple mergers of ancestral lines
11-11.30	coffee					
11.30-1	Research talks (Sumana Annagiri, Himanshu Sinha)	NB: Sexual vs. asexual reproduction, multiple loci	NB: Population genetics of multiple loci	NB: Diversity of sex & recombination	NB: Stochastic models	open session, problem sets: NB, JW
1-2.30	lunch					
2.30-4	3 pm: leave for JNCASR	BW: Introduction to Quantitative Genetics	open session, problem sets: NB, JW	NB: Deterministic models	Research talks (Nisheeth Vishnoi, Deepa Agashe, Kavita Jain)	
4-4.30	coffee					
4.30-6	Public Lecture at JNCASR: NB (4-5 pm)	IN: Basic biology and sources of genetic variation in microbes	ICTS Special Colloquium: JW	ICTS public lecture	Poster session (4.30-6.30 pm)	
7-8.30						Course dinner
<p>Nick Barton (IST, Austria) : Evolution of sex and recombination</p> <p>Isabel Novella (University of Toledo, USA) : Evolution of RNA virus populations</p> <p>Wolfgang Stephan (LMU Munich, Germany) : Detection of positive selection in the genome</p> <p>John Wakeley (Harvard University, USA) : Coalescent theory</p> <p>Bruce Walsh (University of Arizona, USA) : Quantitative genetics</p>						
FEB						
	Mon	Tue	Wed	Thu	Fri	Sat
Time	1	2	3	4	5	6
9-9.30						
9.30-11	BW: QTL and Association mapping	BW: Univariate and Multivariate selection	BW: Measuring fitness and selection on traits	IN: Adaptation and adaptability under constant environmental conditions	IN: Adaptation and adaptability under changing environmental conditions	open session, problem sets: WS
11-11.30	coffee					
11.30-1	WS: Introduction to molecular population genetics	Research talks (Sutirth Dey, Soumen Roy)	IN: Practical aspects of quasispecies theory	WS: Neutrality tests	WS: Detecting other types of positive selection	open session, problem sets: BW, IN
1-2.30	lunch					
2.30-4	IN: Targets of selection, evolution of virulence	3 pm: leave for NCBS	open session, problem sets: BW, IN	WS: Detecting strong positive directional selection in the genome	Research talks (Areejit Samal, Rahul Siddharthan, Aparup Das)	
4-4.30	coffee					
4.30-6	WS: Population genomics	Science Lecture at NCBS: IN (4-5 pm)	ICTS Special Colloquium: WS	ICTS Special Colloquium: BW	Poster session (4.30-6.30 pm)	
7-8.30						Course dinner