

**Third Bangalore School on Population Genetics and Evolution, March 5-17, 2018**

<b>Venue : Ramanujan Lecture Hall, ICTS Bangalore</b>					
<b>09.00 – 09.30</b>		<b>Registration</b>			
	<b>Mon</b>	<b>Tue</b>	<b>Wed</b>	<b>Thu</b>	<b>Fri</b>
	<b>5 March</b>	<b>6 March</b>	<b>7 March</b>	<b>8 March</b>	<b>9 March</b>
<b>09.30 – 11.00</b>	<b>Joachim Krug</b>	<b>Daniel Fisher (Turing lecture 2 )</b>	<b>Daniel Fisher (Turing lecture 3 )</b>	<b>Daniel Fisher (Turing lecture 5)</b>	<b>Maria Orive</b>
<b>11.00 – 11.30</b>	<b>Coffee/Tea</b>				
<b>11.30 – 13.00</b>	<b>Maria Orive</b>	<b>Joachim Krug</b>	<b>Joachim Krug</b>	<b>Joachim Krug</b>	<b>Joachim Krug</b>
<b>13.00 – 14.00</b>	<b>lunch</b>				
<b>14.00– 15.30</b>	<b>Poster session</b>	<b>Maria Orive</b>	<b>Daniel Fisher (Turing lecture 4 )</b>	<b>Maria Orive</b>	<b>Maria Orive</b>
<b>15.30 - 16.00</b>	<b>Coffee/Tea</b>				
<b>16.00 – 17.30</b>	<b>Daniel Fisher (Turing lecture 1)</b>	<b>Daniel Fisher (Public Lecture)</b>	<b>(16:00 - 16:30) Kavita Jain</b>	<b>(16:00 - 16:30) Tapash Ghosh</b>	<b>(16.00 - 16.30 ) Vaibhav Madhok</b>
			<b>(16:30 - 17:00) Deepa Agashe</b>		
<b>18:30 Onwards</b>			<b>Course Dinner</b>		

<b>Week 1</b>	<b>lecture 1</b>	<b>lecture 2</b>	<b>lecture 3</b>	<b>lecture 4</b>	<b>lecture 5</b>
<b>Daniel Fisher</b>	Statistical Dynamics of Complex Communities: from Random Matrices to Ecological Diversity	Processes and numbers: selection, mutation and drift	Adaptation of large asexual populations	Statistics of asexual diversity and complexities of sexual dynamics	Spatial dynamics and open questions
<b>Joachim Krug</b>	Fitness and epistasis	Empirical fitness landscapes	Probabilistic models of fitness landscape	Genotype-phenotype-fitness maps	Navigating fitness landscapes
<b>Maria Orive</b>	Introduction to age/stage-structured populations	Evolution in age/stage structured populations	Introduction to quantitative genetics (multifactorial model of genotype/phenotype)	Selection on quantitative traits	Effects of clonality on evolutionary lag and evolutionary rescue (research talk)
<b>Research talk</b>			Evolutionary fates of chaperone assisted proteins	Evolution and Diversification in High Dimensional Phenotypic Spaces and the Optimality of Evolution	

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	<b>12 March</b>	<b>13 March</b>	<b>14 March</b>	<b>15 March</b>	<b>16 March</b>
<b>9.30 – 11.00</b>	<b>Santiago Elena</b>	<b>Magnus Nordborg</b>	<b>Santiago Elena</b>	<b>Magnus Nordborg</b>	<b>Magnus Nordborg</b>
<b>11.00 – 11.30</b>	<b>Coffee/Tea</b>				
<b>11.30 – 13.00</b>	<b>Ophelie Ronce</b>	<b>Santiago Elena</b>	<b>Ophelie Ronce</b>	<b>Santiago Elena</b>	<b>Ophelie Ronce</b>
<b>13.00 – 14.00</b>	<b>lunch</b>				
<b>14.00 - 15.30</b>	<b>Magnus Nordborg</b>	<b>Ophelie Ronce</b>	<b>Santiago Elena</b>	<b>Ophelie Ronce</b>	<b>Magnus Nordborg</b>
<b>15.30 - 16.00</b>	<b>Coffee/Tea</b>				
<b>16.00 - 16.30</b>	<b>Poster session</b>	<b>Kavita Isvaran</b>	<b>Kartik Shanker</b>	<b>Subhash Rajpurohit</b>	<b>Chin-Kun Hu</b>
<b>16.30 - 17.00</b>	<b>Poster session</b>	<b>Vishwesh Guttal</b>			
<b>17.00 - 17.30</b>	<b>Poster session</b>				
<b>6.30 onwards</b>		<b>Course Dinner</b>			

<b>Week 2</b>	<b>lecture 1</b>	<b>lecture 2</b>	<b>lecture 3</b>	<b>lecture 4</b>	<b>lecture 5</b>
<b>Santiago Elena</b>	A short introduction to Virology, viral quasispecies and virus population dynamics	Evolutionary genetics of viral emergence	Systems Biology of virus-host interactions	The arm race between host's resistance and virus' virulence	Genome compactness and the evolution of genomic novelty in RNA viruses
<b>Magnus Nordborg</b>	Introduction to coalescent theory	Introduction to coalescent theory	Introduction to coalescent theory	GWAS	GWAS
<b>Ophelie Ronce</b>	Evolution of the niche	Evolution of species range	Evolution of dispersal: introduction	Evolution of dispersal: kin selection	Evolution of dispersal: metapopulations
<b>Research talk</b>	Sexual selection in females	The evolution of cooperation via emergent assortment dynamics	Drivers of diversification of herpetofauna in the Western Ghats Escarpment	Spatiotemporal dynamics and genome-wide association analysis of desiccation tolerance in <i>Drosophila melanogaster</i>	Recent developments in biological evolution