

# Programme - Day 1

Thursday, 8 September

## Session 1:

- 9:30 **Ard Louis University of Oxford**  
Algorithmic information theory and GP maps
- 10:10 **Marjon de Vos Wageningen University**  
Breaking through evolutionary constraint by environmental fluctuations
- 10:50 **Coffee break**

## Session 2:

- 11:20 **Joshua Payne University of Zürich**  
Exhaustively-enumerated genotype-phenotype maps in transcriptional regulation
- 12:00 **Chico Camargo University of Oxford**  
Gene networks as a GP map
- 12:40 **Lunch**

## Session 3:

- 14:00 **Michael Stich Aston University**  
Replicator dynamics on an RNA fitness landscape under the influence of mutation and recombination
- 14:40 **Jacobo Aguirre CNB-CSIC Madrid**  
Tipping points in the genetic composition of populations induced by environmental changes
- 15:20 **Coffee break & Discussion**

## Session 4:

- 16:00 **Pablo Catalan University Carlos III, Madrid**  
toyLIFE, or the importance of being promiscuous
- 16:30 **Susanna Manrubia CNB-CSIC Madrid**  
A generic distribution of phenotype sizes results from the organization of biological sequences into sites with varying neutrality
- 19:00 **Dinner at Lucy Cavendish College**

# Programme - Day 2

## Friday, 9 September

### Session 5:

9:30 **Jose Cuesta University Carlos III, Madrid**  
Evolution on neutral networks accelerates the ticking rate of the molecular clock

10:10 **Esther Ibañez-Marcelo ISI Foundation, Turin**  
Surviving evolutionary escape on complex genotype-phenotype networks

10:50 **Coffee break**

### Session 6:

11:20 **Iain Johnston University of Birmingham**  
Mitochondrial DNA - a 'collective' GP map governing deadly inherited diseases

12:00 **Daphne Ezer Sainsbury Laboratory Cambridge University**  
Ara-BOX-sis: a computational tool for predicting the regulatory mechanisms of genes downstream of conserved motif boxes

12:40 **Lunch**

### Session 7:

14:00 **Richard Goldstein University College London**  
Sequence Entropy and the Absolute Rate of Amino Acid Substitutions

14:40 **Carolina Diaz Okinawa Institute of Science and Technology**  
Mutational Robustness in Ribozyme Populations

15:20 **Coffee break & Discussion**

### Session 8:

15:50 **Tom McLeish University of Durham**  
The notion of ergodicity in genotype exploration - towards a predictive evolution

16:30 **Bhavin Khatri University College London & Francis Crick Institute**  
A simple genotype-phenotype map for protein-DNA binding, sequence entropy and its role in speeding up speciation

17:10 **Closing remarks**