



SYSTEMS BIOLOGY PROGRAMME

Colloquium on "***Cellular Decision Making***"

Campus Univ. Autónoma de Madrid
C/ Darwin, 3

January 24, 2014

Start of the Morning Session I

(Chairman: Victor de Lorenzo)

09:45 - 10:00 Welcome and General Information

10:00 - 10:30 WILFRIED WEBER

University of Freiburg, Germany
Optical Control of Mammalian Cells

10:30 – 11:00 ALEX DE MENDOZA

EB UPF-CSIC, Spain
Comparative genomics at the origins of multicellularity: transcription factors and signaling systems

11:00 – 11:30 FRANCISCO ROMERO - CAMPERO

University of Seville, Spain
Plant development evolution based on gene co-expression networks

11:30 – 12:00 Coffee

Break

Start of the Morning Session II

(Chairman: Juan F Poyatos)

12:00 – 12:30 PETER SWAIN

University of Edinburgh, UK
Microbial decision-making: phosphorylations and mating in yeast

12:30 – 13:00 **THIERRY EMONET**
Yale University, USA
Functional trade-offs and phenotypic diversity in cellular migration

13:00 – 13:30 **EDO KUSSELL**
New York University, USA
Memory accelerates bacterial adaptation in fluctuating environments

13:30 - 14:30 **Lunch**

Start of the Afternoon Session I
(Chairman: Florencio Pazos)

14:30 - 15:00 **FERNANDO CASARES**
CABD (CSIC-U. Pablo de Olavide), Spain
Gene Network Wiring and Eye Architectures in Drosophila

15:00 - 15:30 **CARSTEN PETERSON**
Lund University, Sweden
Transcriptional regulation of lineage commitment in hematopoiesis - a stochastic model of cell fate decision

15:30 – 16:00 **NADIA MERCADER**
CNIC, Spain
Cardiac regeneration vs. fibrotic repair: learning from the zebrafish

16:00 – 16:30 **Coffee Break**

Start of the Afternoon Session II
(Chairman: Javier Tamames)

16:30 – 17:00 **MARTIN ACKERMANN**
ETH, Switzerland
An Evolutionary Perspective on Bacterial Individuality

17:00 – 17:30 **General Discussion and Conclusions**