

WARWICK SUMMER SCHOOL

1-3 JULY, 2015

The aim of this Summer School is to deliver a set of lectures and tutorials that will endow the participants with sufficient knowledge to develop experimental designs integrating modelling, genetic circuits and customised labware for Synthetic Biology and Directed Evolution.

The Summer School will also present to the wider community the partners, developments and vision of the EVOPROG and PLASWIRES consortia, with the prospect of generating an open discussion and develop collaborations on the core subjects presented.



Alfonso Rodríguez-Patón lecturing at the school



The school had nice experimental sessions to play with phages

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Group photo with the majority of the Summer School participants

SUMMER SCHOOL PROGRAMME

DAY 1 - WEDNESDAY

9 AM
9.30 AM

Welcome and Introduction to the Summer School

Session 1 (Coffee break 11 AM to 11.15 AM)

9.30 AM
1 PM

- "Simulating multicellular genetic circuits with an individual-based model: new features in GRO simulator" Dr Alfonso Rodríguez-Patón (Universidad Politécnica de Madrid, Spain)
- "Diversity Generating Retroelements" Dr Michal Legiewicz (University of Warwick, UK)
- "Synthesizing Programmable Biomolecular Circuits" Dr Vishwesh Kulkarni (University of Warwick, UK)

1 PM
2 PM

Lunch

2 PM
5.30 PM

Session 2 (Coffee break 3.30pm to 3.45pm)

"Computational modeling of multicellular bacterial populations" Dr Alfonso Rodríguez-Patón (Universidad Politécnica de Madrid, Spain); Dr John Duncan (University of Warwick, UK); Mr Pakpoom Subsoontorn (University of Cambridge, UK); Mr Martin Gutierrez (Universidad Politécnica de Madrid, Spain)

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DAY 2 - THURSDAY

Session 3 (Coffee break 11 AM to 11.15 AM)

- 9 AM - "New tools for gene evolution in vivo" Dr Yamal González (CSIC, Spain)
 1 PM - "RNA technologies to engineer gene circuits in bacteria" Prof Alfonso Jaramillo (University of Warwick, UK)
 - "Engineering synthetic patterns inspired by development" Dr Mark Isalan (University of Warwick, UK)

1 PM

Lunch

2 PM

Session 4 (Coffee break 3.30pm to 3.45pm)

- 2 PM "Phage production and analysis of the titer" Dr Andreas Broedel (Imperial College London, UK); Dr Yamal González (Consejo Superior de Investigaciones Científicas, Spain); Dr
 5.30 PM Antonia Sagona (University of Warwick, UK)

DAY 3 - FRIDAY

Session 5

- 9 AM - "Synthetic biology in Cyanobacteria" Dr Rocío López (Institut Pasteur, France)
 10.45 AM - "Designing Portable Gene Expression for Cross-species Application" Dr Michal Legiewicz (University of Warwick, UK)
 - "Synthesizing Programmable Biomolecular Circuits" Dr Manish Kushwaha (University of Warwick, UK)

10.45 AM
 11 AM

Coffee break

Session 6 (Lunch 1pm to 6 pm)

- 11 AM "Creation of reproducible custom components for the lab" Dr Rui Rodrigues (University of
 3.30 PM Warwick, UK) ; Dr Soichiro Tsuda (University of Glasgow, UK) ; Mr Ismael Garcia (Universidad Politécnica de Madrid, Spain)

3.30 PM
 4 PM

Final notes on the Summer School