

SYSTEMS AND SYNTETIC BIO WEEK GABBA Jan 2018

Monday 15.01.2018

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| 9:30-10:00 | Systems and Synthetic Biology Week |
| 10:00-11:15 | Introduction to Systems Biology |
| 11:15-11:30 | Break |
| 11:30-12:30 | Bioinformatics and machine learning 1 |
| 12:30-13:30 | Lunch break |
| 13:30-14:30 | Bioinformatics and machine learning 2 |
| 14:30-17:30 | Hands on: Paper exercise |

Tuesday 16.01.2018

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| 9:30-13:00 | Hands on: Programming |
| 13:00-14:00 | Lunch break |
| 14:00-15:30 | Design principles in biological systems |
| | Break |
| 16:00-17:00 | Synthetic Biology - engineering biological circuits |

Wednesday 17.01.2018

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| 9:30-12:30 | Omics. High Throughput methods and their applications |
| 12:30-13:30 | Lunch break |
| 13:30-17:00 | Hands on: Project proposal |

Thursday 18.02.2018

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| 9:30-11:30 | Hands on: Project proposal |
| 11:30-12:00 | Hands on: Project proposal presentation |
| 12:30-13:30 | Lunch break |
| 13:30-17:00 | Hands on: How to write an abstract |

Friday 19.01.2018

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| 9:00 | Lectures by guest speakers |
| 9:00-10:00 | Jonathan Woodsmith – Large scale interaction mapping |
| 10:00-11:00 | Pedro Beltrao – Post-translational regulation |
| 11:00-11:20 | Break |
| 11:20-12:20 | Chris Bakal – High content microscopy |
| 12:30-13:30 | Lunch break |
| 14:00-15:30 | The academic track – open discussion |

Reading Material

Please read the following short commentary paper Monday:

Can a biologist fix a radio?--Or, what I learned while studying apoptosis. Lazebnik Y. Cancer Cell. 2002 Sep;2(3):179-82.

Bioinformatics

For the "Hands on: Programming" please bring your laptop to the classes. We will focus on an introduction to scientific programming with Python