



Workshop and School on Cancer, Development and Complexity



Lake Como Workshop and School on Cancer Development and Complexity 2016
May 24 – May 27, 2016 – Villa del Grumello , Como

Program

Tuesday, May 24

12:30: *Registration*

13:30: *Lunch break*

14:30: Welcome by **Bud Mishra** and **Marco Antoniotti**

15:30: **Rory Stark**: “*Demo: Overview of Bioconductor for analysis of high-throughput cancer experiments*”

16:30: *Coffee break*

16:45: **Giovanni Tonon**: “*Synthetic lethality approaches exploiting DNA damage*”

Wednesday, May 25

9:00: **Charles Cantor**: “*Sensitive detection of low levels of cancer- specific DNA sequence differences*”

10:00: **Oliva Alberti**: “*From life science to molecular diagnostics: a tailored approach*”

11:00: *Coffee break*

11:30: **Antonina Mitrofanova**: “*Computational Approaches to Investigate Mechanisms of Progression and Drug Response in Human Cancer*”

13:30: *Lunch break*

14:30: Participants’ presentations

16:30: *Coffee break*

16:45: **Francesca Demichelis**: “*Single base resolution data and allele-specific analysis for the reconstruct of tumor evolution charts and the quantification of intra- and inter-tumor molecular heterogeneity (part I)*”

Thursday, May 26

9:00: **Pietro Liò**: *“Inflammatory events and cancer: a statistical Bioinformatics perspectives”*

10:00: **Pietro Liò**: *“Combining Bioinformatics and cancer survival analysis”*

11:00: *Coffee break*

11:30: **Giulio Caravagna**: *“Algorithmic methods to infer the evolutionary trajectories in cancer progression”*

13:30: *Lunch break*

14:30: **Rory Stark**: *“Lecture: Analysis of regulatory protein binding dynamics in cancer”*

15:30: **Rory Stark**: *“Practical: differential binding analysis”*

16:30: *Coffee break*

20:00: Social dinner @ Ristorante Sociale, via Rodari 6, Como

Friday, May 27

9:00: **Andrea Sottoriva**: *“Functional versus non-functional intra-tumour heterogeneity”*

11:00: *Coffee break*

11:30: **Francesca Demichelis**: *“Single base resolution data and allele-specific analysis for the reconstruct of tumor evolution charts and the quantification of intra- and inter-tumor molecular heterogeneity (part II)”*

12:30: Round table

13:30: *Lunch break*

website: <http://cdac.lakecomoschool.org/>