

1st Course on Computational Systems Biology of Cancer - September 24-29, 2018

A Training Unit International Course - Open conferences (in blue or orange)

Monday, September 24 th BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris		Chairs: Inna Kuperstein and Andrei Zinovyev
08:45 09:00	Emmanuel Barillot / Inna Kuperstein Institut Curie-INSERM, Paris, France	Welcome and opening remarks
09:00 10:00	Livia Perfetto EMBL-EBI, Hinxton, UK	SIGNOR: a database of causal relationships between biological entities
10:00 10:30	COFFEE/TEA BREAK (BDD Hall)	
10:30 11:30	Henning Hermjakob EMBL-EBI, Hinxton, UK	EBI resources for network biology
11:30 12:30	Presentation(s) selected from post-docs abstracts	10 minutes/presentation
12:30 13:30	LUNCH (BDD Hall) AND POSTERS PLACEMENT (BDD, Annexes 1-3)	
13:30 14:30	Tom Freeman The Roslin Institute, Edinburgh, UK	Network analysis of the immune landscape of cancer
14:30 15:30	Benno Schwikowski Institut Pasteur, Paris, France	Network biology - concepts and computational tools
15:30 16:00	COFFEE/TEA BREAK (BDD Hall)	
16:00 18:00	Flash presentations of projects by PhD students	5 minutes/presentation
18:00 20:00	WELCOME RECEPTION (Chez Marie)	

Tuesday, September 25 th BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris		Chairs: Emmanuel Barillot and Tatiana Popova
09:00 10:00	Jan Korbel EMBL, Heidelberg, Germany	From genomic variation to molecular mechanism
10:00 10:30	COFFEE/TEA BREAK (BDD Hall)	
10:30 11:30	KEYNOTE LECTURE MARIE CURIE SEMINAR : Alfonso Valencia Spanish National Bioinformatics Institute, Madrid, Spain	Networks based approaches in epigenomics, evolution and biomedicine
11:30 12:30	Flash presentations of projects by PhD students	5 minutes/presentation
12:30 13:30	LUNCH (BDD Hall)	
13:30 14:30	Andrei Zinovyev Institut Curie-INSERM, Paris, France	Deconvolution of heterogeneous cancer data
14:30 15:30	LABEX TALK : Vassili Soumelis Institut Curie-INSERM, Paris, France	Systems biology approach to study heterogeneity of tumour microenvironment
15:30 16:00	COFFEE/TEA BREAK (BDD Hall)	
16:00 17:00	Jérôme Galon Cordeliers Research Center, Paris, France	Integrative cancer immunology and novel concepts of cancer evolution
17:00 18:30	POSTERS (BDD Annexes 1-3)	

Chairs: Laurence Calzone and Denis Thieffry

Wednesday, September 26th
 BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris

09:00	Denis Thieffry IBENS-ENS, Paris, France	Qualitative dynamical modelling of cell fate decisions
10:00		
10:00	COFFEE/TEA BREAK (BDD Hall)	
10:30		
10:30	Gregory Batt Inria-Saclay_Institut Pasteur, Paris, France	Impact of phenotypic variability on commitment to apoptosis
11:30		
11:30	Presentation(s) selected from post-docs abstracts	10 minutes/presentation
12:30		
12:30	LUNCH (BDD Hall)	
13:30		
13:30	Jana Wolf Max Delbrück Center for Molecular Medicine, Berlin, Germany	Mathematical models of signalling pathways and gene regulatory networks involved in cancer
14:30		
14:30	Julio Saez-Rodriguez EMBL-EBI, Hinxton, UK	Dynamic logic models complement machine learning to improve cancer treatment
15:30		
15:30	COFFEE/TEA BREAK (BDD Hall)	
16:00		
16:00	Master student's journal club	15 minutes/pair of students
17:00		
17:00	POSTERS AND BEER (BDD Annexes 1-3)	
18:30		

Thursday, September 27th BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Vassili Soumelis and Thomas Walter		
09:00 10:00	Lodewyk Wessels National Cancer Institute, Amsterdam, The Netherlands	Molecular networks as determinants of response and outcome
10:00 10:30	COFFEE/TEA BREAK (BDD Hall)	
10:30 11:30	Kathleen Marchal Ghent University, Ghent, Belgium	Integrative network-based analysis for subtyping and cancer driver identification
11:30 12:30	Olivier Saut INRIA-CNRS, Bordeaux, France	Evaluating growth and risk of relapse of intracranial tumors
12:30 13:30	LUNCH (BDD Hall)	
13:30 14:30	Dominic Grün Max Planck Institute, Freiburg, Germany	Tracing stem cell differentiation with single-cell resolution
14:30 15:30	Presentations selected from abstracts	15 minutes/presentation
15:30 16:00	COFFEE/TEA BREAK (BDD Hall)	
16:00 18:00	Master student's journal club	15 minutes/pair of students

Friday, September 28th **Chairs: Jean-Phillipe Vert and Gregory Batt**

BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris

09:00	Walter Thomas Centre for Computational Biology, MINES ParisTech, Paris, France	Bioimage Informatics for Computational Phenotyping
10:00		
10:00	COFFEE/TEA BREAK (BDD Hall)	
10:30	KEYNOTE LECTURE : Olli Kallioniemi	Systems medicine for facilitating drug development, drug repositioning and precision cancer therapy
11:30	Karolinska Institutet, Stockholm, Sweden	
11:30	Presentations selected from abstracts	15 minutes/presentation
12:00		
12:00	LUNCH (BDD Hall)	
13:00		
13:00	VISIT OF CURIE MUSEUM	
14:00		
14:00	Jean-Phillipe Vert	Patient stratification from somatic mutations
15:00	Centre for Computational Biology, MINES ParisTech, Paris, France	
15:00	Niko Beerenwikel	Learning tumor phylogenies from single-cell data
16:00	ETH, Zurich, Switzerland	
16:00	COFFEE/TEA BREAK (BDD Hall)	
16:30		
16:30	Master student's journal club	15 minutes/pair of students
18:00		
18:00	Prizes for flash presentations and posters	Closing remarks, Group photo
18:15		
18:30	FAREWELL COCKTAIL (Chez Marie)	
21:00		

Saturday, September 29th

CAREER DEVELOPMENT WORKSHOP

BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris

10:00 10:15	INSERM, CNRS and University representatives	Introduction to career development opportunities in computational systems biology of cancer: if you stay in academics
10:15 10:30	Denis Thiefly IBENS-ENS, Paris, France Vassili Soumelis Institut Curie-INSERM, Paris, France	CV and profile writing: what recruiters like and dis-like
10:30 10:45	Philippe Gesnouin Project Officer EIT Health and EIT Digital Tech Transfer Associate for Life Science and Healthcare, INRIA, France	Research, Industry and society keeps needing new bridges
10:45 11:00	Artémis Llamosi Head of Analytics in big data domain, DREEM, France	Thinking outside of the lab
11:00 11:15	Ivan Moszer Operational manager of bioinformatics platform, Institut du Cerveau et de la Moelle épinière (ICM), GH Pitié-Salpêtrière, France	From microbiology experiments to neuroinformatics core management: a career path in academic Institutes
11:15 11:30	Anne-Claire Haur Software Engineer, Operations Research, Google France	Research in the industry: finding the right role and company
11:30 11:45	Celine Lefebvre Head of Bioinformatics and Computational Biology department, Servier Research Institute, France	Computational Biology for translational research : from academia to industry
11:45 12:00	Philippe Marc Global Head of Integrated Data Sciences, Novartis, Switzerland	Time travel: sending a letter to myself of 1998, the graduate student.
12:00 12:30	PANEL DISCUSSION WITH SPEAKERS (BDD Amphithéâtre)	
12:30 13:50	LUNCH (BDD Hall) AND INDIVIDUAL ROUND TABLE DISCUSSIONS (BDD, Annexes 1-3) Students discuss career paths face-to-face with invited speakers, pharma and scientific editing representatives, platform managers	
13:50 14:00	CLOSURE OF THE COURSE (BDD Amphithéâtre)	