

**6th course on Computational Systems Biology of Cancer: models of data, data for models**  
**September 25 - 29, 2023 hours are in CEST zone**

Institut Curie Advanced International Course (All lectures are in Amphi BDD\*)

<b>Monday, September 25</b>		
Chairs: Emmanuel Barillot and Laurence Calzone		
08:50 09:00	<b>Inna Kuperstein</b> Institut Curie, Paris, FR	Welcome and opening remarks by the organisers
09:00 09:30	<b>Emmanuel Barillot</b> Institut Curie, Paris, FR	<b>Introduction to Computational Systems Biology of Cancer, Multi-omics and Artificial Intelligence</b>
09:30 10:00	<b>Laurence Calzone</b> Institut Curie, Paris, FR	<b>Introduction to modelling tumorigenesis</b>
10:00 10:30	Coffee break / Meet the speaker (Hall BDD)	
10:30 11:30	<b>Vera Pancaldi</b> Centre de Recherches en Cancérologie de Toulouse, Toulouse, FR	<b>Network-based multi-omics integrative approaches in immunology</b>
12:30 13:30	<b>Valentina Boeva</b> ETH Zürich, Zürich, CH	<b>Discovery of shared transcriptional states across cancer patients from RNA sequencing data</b>
13:30 14:30	Lunch (Hall BDD)	
<b>Monday, September 25</b>		
14:30 15:30	Flash Presentations by post-docs	15 minutes/presentation
15:30 16:30	<b>Luca Pinello Marie Curie Lecture Session</b> Harvard University, Cambridge, US	<b>Learning gene regulatory circuits and cell fate decisions from single-cell multi-omics data</b>
16:30 17:30	Coffee break / Meet the speaker (Hall BDD)	
17:30 18:30	Poster session 1 (Poster area BDD)	
19:00 20:30	Welcome cocktail	
<b>Tuesday, September 26</b>		
Chair: Ina Koch		
09:00 10:00	<b>Julio Saez-Rodriguez</b> University of Heidelberg, Heidelberg, DE	<b>Knowledge-based machine learning on single-cell omics to understand cancer</b>
10:00 11:00	Flash Presentations by post-docs	15 minutes/presentation
11:00 11:30	Coffee break / Meet the speaker (Hall BDD)	
11:30 12:30	<b>Hatzimanikatis Vassily</b> École Polytechnique Fédérale de Lausanne, Lausanne, CH	<b>From receptors to metabolism: reconstruction, modeling and data integration in signaling networks around metabolism</b>
12:30 13:30	Flash Presentations by post-docs	15 minutes/presentation
13:30 14:30	Lunch (Hall BDD)	
<b>Tuesday, September 26</b>		
14:30 15:30	<b>Ina Koch</b> Goethe University Frankfurt, Frankfurt, DE	<b>Modeling of signaling pathways in cancer applying Petri nets</b>
15:30 16:00	<b>Swati Gupta</b> Talk selected from abstract VIB-KU Leuven, Leuven, BE	<b>From morphology to transcriptomics: Understanding Breast cancer through Single-cell RNA sequencing of PIK3CA-H1047R and Kras-G12D Mutants</b>
15:00 16:30	<b>Maria Masid</b> Talk selected from abstract University of Lausanne, Lausanne, CH	<b>Developing systems biology models and methods to investigate the metabolic state of cancer cells and immune cells in the context of improving immunotherapies for cancer</b>
16:30 17:00	Coffee break / Meet the speaker (Hall BDD)	
17:00 18:00	<b>Reka Albert</b> Pennsylvania State University, State College, US	<b>Network-based dynamic models of oncogenic signaling in epithelial-mesenchymal transition and breast cancer suggest therapeutic interventions</b>
18:00 19:00	Poster session 2 (Poster area BDD) and Master's journal club (Amphi BDD)	

\* Entrance through 11 rue Pierre et Marie Curie - 75005 PARIS

**Wednesday, September 27**

Chair: Ozgur Tastan

09:00 10:00	<b>Ozgun Babur</b> University of Massachusetts, Boston, US	<b>Learning from multi-omic measurements using prior knowledge</b>
10:00 11:00	<b>Fatima Al-Shahrour KEYNOTE</b> Spanish National Cancer Research Centre, Madrid, ES	<b>Bioinformatics strategies to target cancer genomes for precision medicine</b>
11:00 11:30	Coffee break / Meet the speaker (Hall BDD)	
11:30 12:30	Flash Presentations by PhD students	10 minutes/presentation
12:30 13:30	Lunch (Hall BDD)	

**Wednesday, September 27**

13:30 14:30	Flash Presentations by PhD students	10 minutes/presentation
14:30 15:30	<b>Ozgun Tastan</b> Sabanci University, Istanbul, TR	<b>From Cell-Lines to Cancer Patients: Personalized Drug Synergy Prediction with Deep Learning</b>
15:30 16:00	Coffee break / Meet the speaker (Hall BDD)	
16:00 17:00	Flash Presentations by PhD students	10 minutes/presentation
17:00 18:00	Poster session 3 (Poster area BDD) and Master's journal club (Amphi BDD)	

**Thursday, September 28**

Chair: Thomas Walter

09:00 10:00	<b>Thomas Walter</b> Institut Curie, Paris FR	<b>Predictive models in Computational Pathology</b>
10:00 11:00	Flash Presentations by PhD students	10 minutes/presentation
11:00 11:30	Coffee break / Meet the speaker (Hall BDD)	
11:30 12:30	Flash Presentations by PhD students	10 minutes/presentation
12:30 13:30	Lunch (Hall BDD)	

**Thursday, September 28**

13:30 14:30	<b>Kim Thrane</b> KTH Royal Institute of Technology, Stockholm, SE	<b>Spatial Transcriptomics and the mapping of T and B cell receptor sequences in human tissue</b>
14:30 15:30	<b>Giovanni Ciriello</b> University of Lausanne, Lausanne, CH	<b>Chromatin plasticity in cancer evolution</b>
15:30 16:00	Coffee break / Meet the speaker (Hall BDD)	
16:00 17:00	Flash Presentations by PhD students	10 minutes/presentation
17:00 18:00	Poster session 4 (Poster area BDD) and Master's journal club (Amphi BDD)	

**Friday, September 29**

Chair: Denis Thieffry

09:00 10:00	<b>Asmund Flobak</b> Norwegian University of Science and Technology, Trondheim, NO	<b>Clinical decision support for colon cancer by computational cancer signaling simulation and patient-derived spheroid functional validation</b>
10:00 11:00	<b>Connie R. Jimenez</b> Amsterdam University Medical Center, Amsterdam, NL	<b>Inferring kinase activity from phosphoproteomics data for target discovery and treatment response prediction in cancer</b>
11:00 11:30	Coffee break / Meet the speaker (Hall BDD)	
11:30 12:30	<b>Denis Thieffry (demo/tutorial)</b> Institut de Biologie de l'Ecole Normale Supérieure, Paris, FR	<b>Reproducible model analyses with the CoLoMoto software container and Jupiter notebook</b>
12:30 13:30	Lunch (Hall BDD)	

**Friday, September 29**

13:30 14:30	<b>Lodewyk Wessels</b> Netherlands Cancer Institute, Amsterdam, NL	<b>Combination treatment response</b>
14:30 15:00	<b>Ihab Bendidi</b> Talk selected from abstract Institute of Biology of Ecole Normale Supérieure, Paris, FR	<b>No Free Lunch in Self Supervised Learning for Image-based Phenotype Analysis</b>
15:00 15:30	<b>Martina Tosi</b> Talk selected from abstract University of Eastern Piedmont, Novara, IT	<b>A Multi-Omics Approach To Study Complex Diseases</b>
15:30 16:00	Coffee break / Meet the speaker (Hall BDD)	
16:00 17:00	Career development workshop	Representatives of academia, pharma, editing bodies and platforms
17:00 17:30	Closing remarks, prizes for journal club, presentations and posters (Amphi BDD)	
17:30 19:00	Farewell cocktail	