5th course on Computational Systems Biology of Cancer: Multimodal data integration

September 26 - 30, 2022 hours are in CEST zone

Institut Curie Training Unit International Course   FEBS ADVANCED LECTURE COURSE

Monday, September 26 Session 1: TBA		
Chair: TBA		
08:50 09:00	Inna Kuperstein Institut Curie, FR	Welcome and opening remarks by organisers (Amphi BDD)
09:00 10:00	**Emmanuel Barillot** Institut Curie, FR	**Didactic introductory lecture: Introduction to Computational Systems Biology of Cancer, Multi-Modal Data Analysis and Artificial Intelligence** (Amphi BDD)
10:00 11:00	**TBA** TBA	**Didactic introductory lecture: Approaches for big data analysis in cancer research** (Amphi BDD)
11:00 11:30		Coffee break / Meet the speaker (Hall BDD)
11:30 12:30	Talks selected from abstracts	15 minutes/presentation (Plenary Hall)
12:30 13:30		Lunch (Hall BDD)
Monday, September 26 Session 2: TBA		
Chair: TBA		
13:30 14:30	**Chloé-Agathe Azencott** Institut Curie, FR	**Machine learning techniques for multi-modal data analysis** (Amphi BDD)
14:30 15:30	**Celine Vallot** Institut Curie, FR	**Studying epigenomes at single-cell resolution** (Amphi BDD)
15:30 16:00		Coffee break / Meet the speaker (Hall BDD)
16:00 17:00	Talks selected from abstracts	15 minutes/presentation (Plenary Hall)
17:00 18:00		Poster session 1 (Poster area BDD)
18:30 20:30		**Welcome cocktail** (Place TBA)

Tuesday, September 27 Session 3: TBA		
Chair: TBA		
09:00 10:00	**Pharma talk: SERVIER, SANOFI** TBA	**TBA** (Amphi BDD)
10:00 11:00	**Joaquin Dopazo** IBIS, ES	**Artificial intelligence and mathematical modeling of biological pathways for the discovery of therapeutic targets in cancer** (Amphi BDD)
11:00 11:30		Coffee break / Meet the speaker (Hall BDD)
11:30 12:30	**Oznur Tastan** Sabanci University, TR	**Multi-Omics Integration via Graph Kernels for Patient Subgroup Identification** (Amphi BDD)
12:30 13:30	Flash Presentations by post-docs	10 minutes/presentation (Amphi BDD)
13:30 14:30		Lunch (Hall BDD)
Tuesday, September 27 Session 4: TBA		
Chair: TBA		
14:30 15:30	**Mark Ibberson** SIB, CH	**Multi-omics analysis for disease biomarkers** (Amphi BDD)
15:30 16:30	**Andrei Zinovyev** Institut Curie, FR	**The geometry of multi-omics data spaces: applications for cancer research** (Amphi BDD)
16:30 17:00		Coffee break / Meet the speaker (Hall BDD)
17:00 18:00	Flash Presentations by post-docs	10 minutes/presentation (Amphi BDD)
18:00 19:00		Poster session 2 (Poster area BDD)

Wednsday, September 28 Session 5: TBA		
Chair: TBA		
09:00 10:00	**Pharma talk: Owkin** TBA	**TBA** (Amphi BDD)
10:00 11:00	**Peter Kharchenko** SEMINAR MARIE CURIE SERIES Harvard University, USA	**Detection of genomic aberrations in single cell transcriptomes with population phasing** (Amphi BDD)
11:00 11:30		Coffee break / Meet the speaker speaker (Hall BDD)
11:30 12:30	Flash Presentations by PhD students	3 minutes/presentation (Amphi BDD)
12:30 13:30		Lunch (Hall BDD)
Wednsday, September 28 Session 6: TBA		
Chair: TBA		
13:30 14:30	**Yvan Saeys KEYNOTE** Inflammation Research Center, VIB, BE	**Multi-omics analysis for disease biomarkers** (Amph BDD)
14:30 15:30	**Zlatko TRAJANOSKI** Medical University of Innsbruck, AT	**Deciphering signaling rewiring in patients with colorectal cancer** (Amphi BDD)
15:30 16:00		Coffee break / Meet the speaker (Hall BDD)
16:00 17:00	Flash Presentations by PhD students	3 minutes/presentation (Amphi BDD)
17:00 18:00		Poster session 3 (Poster area BDD)

Thursday, September 29	**Session 7: TBA**	
Chair: TBA		
09:00 10:00	**Julio Saez-Rodriguez** Heidelberg University, DE	**Title TBA** (Amphi BDD)
10:00 11:00	**Asmund Flobak** NTNU, NO	**Clinical decision support for colon cancer by computational cancer signaling simulation and patient-derived spheroid functional validation** (Amphi BDD)
11:00 11:30		Coffee break / Meet the speaker (Hall BDD)
11:30 12:30	Flash Presentations by PhD students	3 minutes/presentation (Amphi BDD)
12:30 13:30		Lunch (Hall BDD)
Thursday, September 29	**Session 8: TBA**	
Chair: TBA		
13:30 14:30	**Elana J Fertig. KEYNOTE** Johns Hopkins hospital, USA	**Computational modeling of multi-omics for predictive immunotherapy** (Amphi BDD)
14:30 15:30	**María Rodríguez Martínez** IBM Research, CH	**AI-driven approaches for cancer personalized medicine** (Amphi BDD)
15:30 16:00		Coffee break / Meet the speaker (Hall BDD)
16:00 17:00	Flash Presentations by PhD students	3 minutes/presentation (Amphi BDD)
17:00 18:30	Master student's journal club	Presesentation of milestone papers (Parallel sessions: Amphi BDD)
18:30 19:30		Poster session 4 (Poster area BDD)

Friday, September 30	**Session 9: TBA**	
Chair: TBA		
09:00 10:00	**Kim Thrane** KTH Royal Institute of Technology, SciLifeLab, SE	**The spatial and multimodal landscape of tumors and their microenvironments** (Amphi BDD)
10:00 11:00	**Thomas Walter** Institut Curie, FR	**Predictive models to analyze cell and tissue phenotypes from pathology data** (Amphi BDD)
11:00 12:00	**Stéphanie Allassonniere** Université Paris Descartes, FR	**Mixed effect models for the spatio-temporal analysis of manifold valued data: application to cancer treatment followup** (Amphi BDD)
12:00 12:30		Marie Curie Museum visit (starting from Hall BDD)
12:30 13:30		Lunch (Hall BDD)
Friday, September 30	**Session 10: TBA**	
Chair: TBA		
13:30 14:30	**Irène Buvat** INSERM, Institut Curie, FR	**Integration of multi-modal imaging and clinical data into prognostic and predictive models for personalized management of cancer patients** (Amphi BDD)
14:30 15:30	**Vera Pancaldi** CRCT, FR	**Modelling the lung cancer microenvironment using spatial multi-omics approaches** (Amphi BDD)
15:30 16:00		Coffee break / Meet the speaker (Hall BDD)
16:00 17:00	Master student's journal club	Presentation of milestone papers (Amphi BDD)
17:00 18:00	Carreer development workshop	Representatives of academia, pharma, edting bodies andn platforms (Amphi BDD)
18:00 18:30		**Closing remarks, prizes for presentations and posters** (Amphi BDD)
18:30 20:30		Farewell cocktail party (Place: TBA)