2nd Course on Computational Systems Biology of Cancer - September 23-28, 2019 A Training Unit International Course - Open conferences (in blue or orange)

	Monday, September 23th Session 1: Pathway databases for single cell research 3DD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Emmanuel Barillot		
	Training Unit and Emmanuel Barillot Institut Curie, Paris, France	Welcome and opening remarks	
	Loredana Martignetti Didactic Introductory lecture Imagine Insitut, Paris, France	Approaches in computational single cell genomics data analysis	
10:00 10:30	COFFEE/TEA BREAK	(BDD Hall) AND POSTERS PLACEMENT (odd numbers, BDD, Annexes 1-3)	
10:30 11:30	Augustin Luna Harvard Medical School, Boston, USA	Pathway Commons resource for single cell data analysis and network-based interpretation	
11:30 12:30	Flash presentations of projects by post-docs	7 minutes/presentation	
12:30 13:30	LUNCH (BDD	Hall) AND POSTERS PLACEMENT (odd numbers, BDD, Annexes 1-3)	
	Monday, September 23th Session 2: Visualization and interpretation of single cell cancer data BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Vassili Soumelis		
	Reinhard Schneider LCSB, Belval, Luxembourg	Data integration and knowledge management in Biomedicine	
14:30 15:30	Flash presentations of projects by post-docs and PhD students	7 minutes/presentation and 4 minutes/presentation	
15:30 16:00		COFFEE/TEA BREAK (BDD Hall)	
16:00 17:00	POSTER SESSION 1 (odd numbers, BDD Annexes 1-3)	Master student's journal club - session 1 (BDD Amphithéâtre)	
17:30 19:00		WELCOME RECEPTION (Chez Marie)	

	Tuesday, September 24th Session 3: Single cell omics data analysis in tumor heterogeneity studies (1) BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Denis Thieffry		
	Julio Saez-Rodriguez EMBL-EBI, Hinxton, UK	Pathway-based analysis of single-cell data	
10:00 10:30			
	Luca Pinello Harvard Medical School, Boston, USA	Single Cell Trajectory Reconstruction Exploration and Mapping of omics data	
11:30 12:30	Flash presentations of projects by PhD students	4 minutes/presentation	
12:30 13:30			
	Tuesday, September 24th Session 4: Single cell omics data analysis in tumor heterogeneity studies (2) BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Denis Thieffry		
	Thomas Höfer Deutsches Krebsforschungszentrum, Heidelberg, Germany	Tumorigenesis driven by aberrant stem cell dynamics	
	Andrew Teschendorff UCL, London, UK	Towards the quantification of Waddington's epigenetic landscape at the single-cell level	
15:30 16:00			
	loannis Xenarios UNIL, Lausanne, Switzerland	Cellular decision process using single data to build up cellular automata of differentiations and responses	
17:00 18:00	POSTER SESSION 2 (odd numbers, BDD Annexes 1-3)	Master student's journal club - session 2 (BDD Amphithéâtre)	

Vednsday, September 25th Session 5: Exploring tumor microenvironment using single cell data (1)		
3DD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Laurence Calzone		
Denis Thieffry IBENS-ENS, Paris, France	Qualitative dynamical modeling of T-helper cell differentiation and reprogramming	
COFFEE/TEA BREAK (BDD Hall) AND POSTERS PLACEMENT (even numbers, BDD, Annexes 1-3)		
Veronique Thomas-Vaslin Sorbonne University, Paris, France	Systems biology for cell proliferation quantification and modeling of lymphocyte dynamics: T-cell heterogeneity dynamics across aging and genetic origins	
Flash presentations of projects by PhD students	4 minutes/presentation	
LUNCH (BDD Hall), POSTERS PLACEMENT (even numbers, BDD, Annexes 1-3) AND VISIT OF MARIE CURIE MUSEUM (Group 1)		
Wednsday, September 25th Session 6: Exploring tumor microenvironment using single cell data (2) BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Tatiana Popova		
Vassili Soumelis INSERM, Paris, France	Immune cell diversity in cancer: of concepts, subsets, states and single cells	
Leila Perié Institut Curie, Paris, France	Family matters: the role of single cell families in hematopoiesis	
COFFEE/TEA BREAK (BDD Hall)		
Jérome Galon Cordeliers Research Center, Paris, France	Integrative cancer immunology and immune contexture	
POSTER SESSION 3 (even numbers, BDD Annexes 1-3)	Master student's journal club - session 3 (BDD Amphithéâtre)	
	phithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Denis Thieffry IBENS-ENS, Paris, France COFFEE/TEA BREAK Veronique Thomas-Vaslin Sorbonne University, Paris, France Flash presentations of projects by PhD students LUNCH (BDD Hall), POSTERS PLACE seday, September 25th Sorbonne University, Paris, France Seday, September 25th Sorbonne University, Paris, France Vassili Soumelis INSERM, Paris, France Leila Perié Institut Curie, Paris, France Jérome Galon Cordeliers Research Center, Paris, France	

	Thursday, September 26th Session 7: Tumor genetics and epigenetics BDD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Inna Kuperstein		
09:00 10:00	Flash presentations of projects by PhD students	4 minutes/presentation	
10:00 10:30	COFFEE/TEA BREAK (BDD Hall)		
	Estelle Duprez CRCM, Marseille, France	Epigenetic and gene expression profiling for patient stratification and biomarker discovery	
11:30 12:30	Talks selected from abstracts	10 minutes/presentation	
12:30 13:30			
	hursday, September 26th Session 8: Treatment response prediction and patient stratification DD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs:Andrei Zinovyev		
	Lodewyk Wessels National Cancer Institute, Amsterdam, The Netherlands	Interactions and drug response prediction in cancer	
	Kathleen Marchal Ghent University, Ghent, Belgium	Integrative network-based analysis for subtyping and cancer driver identification	
15:30 16:00			
	Antoine de Weck Pharma talk Novartis, Basel, Switzerland	Functional screening for Target Identification and Drug Discovery	
16:30 17:30	POSTER SESSION 4 (even numbers, BDD Annexes 1-3)	Master student's journal club - session 4 (BDD Amphithéâtre)	

	iday, September 27th Session 9: Multi-level single cell omics data analysis D Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Vassili Soumelis		
	Andrei Zinovyev Institut Curie, Paris, France	Epigenetic tumor heterogeneity at single cell level	
10:00 10:30	COFFEE/TEA BREAK (BDD Hall)		
	Peter Kharchenko Keynote Marie Curie Seminar Harvard Medical School, Boston, USA	Integrative analysis of large single-cell RNA-seq collections	
	Philip Stegmaier Pharma talk geneXplain, Wolfenbüttel, Germany	Combining Single Cell and Upstream Analysis to Infer Molecular Mechanisms of Cancer	
12:00 12:30	Talks selected from abstracts	10 minutes/presentation	
12:30 14:30	LUNCH	(BDD Hall) and VISIT OF MARIE CURIE MUSEUM (Groups 3, 4)	
	riday, September 27th Session 10: Bioimage informatics for single cell data cancer research DD Amphithéâtre, 11-13 rue Pierre & Marie Curie, 75005 Paris Chairs: Thomas Walter		
	Thomas Walter Centre for Computational Biology, MINES ParisTech, Paris, France	Bioimage analysis for single cell analysis and spatial transcriptomics	
15:30 16:30	Talks selected from abstracts	10 minutes/presentation	
16:30 17:00	Coffee break (BDD Hall)		
	Ido Amit The Weizmann Institute of Science, Rehovot, Israel	The power of ONE: Immunology in the age of single cell genomics	
18:00 18:30	Closing remarks, prizes for flash presentations and posters		
18:30 21:00	FAREWELL COCKTAIL (Chez Marie)		

Saturday, September 28th BDD Amphithéátre, 11-13 rue Pierre & Marie Curie, 75005 Paris		CAREER DEVELOPMENT WORKSHOP
10:00 10:15	Furtado Ana Rita The training Unit of nstitut Curie, Paris, France	The general trends of career paths in academy
10:15 10:30	Emmanuel Barillot Institut Curie, Paris, France	Career in a Bioinformatics Core Facility
10:30 10:45	Denis Thieffry IBENS-ENS, Paris, France	CV and profile writing: what recruiters like and dis-like
10:45 11:00	Vassili Soumelis Institut Curie-INSERM, Paris, France	Working at the interface between academic research and hospital
11:00 11:30		BRUNCH (BDD Hall)