

Immune Profiling of Single Cells



EMBL Courses and Conferences during the Coronavirus pandemic

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found here.

Programme

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SHOW ALL

Day 1 - Monday 10 February 2020

Time	Speaker	Location	
08:45	Bus from ISG Hotel to EMBL ATC entrance	ISG Hotel bus	
		stop	

09:00 - 09:30	Welcome and Lab Safety Elisabeth Zielonka - EMBL Heidelberg, Germany Irena Provaznikova - EMBL Heidelberg, Germany	Flex Lab A & B
09:30 - 10:00	Flash Talk Presentations	Flex Lab A & B
10:00 - 11:00	Lecture: Introduction to 10x Genomics and Basics Cell Handling Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK	Flex Lab A & B
11:00 - 11:15	Coffee break	Flex Lab A & B
11:15 - 12:00	Practical: Label Cells with Antibodies Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK Diana Ordonez - EMBL Heidelberg, Germany Irena Provaznikova - EMBL Heidelberg, Germany	Training Lab B
12:00 - 13:00	Lunch Break	EMBL Canteen
13:00 - 14:30	Practical: Cell Washing & GEM Generation and start RT Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK Diana Ordonez - EMBL Heidelberg, Germany Irena Provaznikova - EMBL Heidelberg, Germany	Training Lab B
14:30 - 14:45	Coffee break	Flex Lab A & B
14:45 - 15:45	Lecture: Antigen Receptor Repertoires at Single Cell Resolution Michael Stubbington - 10x Genomics, UK	Flex Lab A & B
15:45 - 18:00	Practical: Dynabead Cleanup & cDNA Amplification o/n Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK	Training Lab B
18:00 - 19:00	Dinner	EMBL Canteen
19:00	Shuttle back to ISG Hotel	ATC entrance

Day 2 - Tuesday 11 February 2020

Time	Snaakar	Location
Time	Speaker	Location

08:45	Bus from ISG Hotel to EMBL ATC entrance	ISG Hotel bus stop
09:00 - 10:00	Lecture: Preparing a High Quality Single Cell Suspension Diana Ordonez - EMBL Heidelberg, Germany	Flex Lab A & B
10:00 - 12:00	Practical: cDNA Cleanup & Protein Library Construction Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK	Training Lab B
12:00 - 13:00	Lunch Break	EMBL Canteen
13:00 - 13:45	Lecture: Preparation of Tumor Infiltrating Leukocytes for Single Cell Immune Profiling Jana Soyka - Miltenyi Biotec, Germany	Flex Lab A & B
13:45 - 14:45	Practical: Tours of FACS and Sequencing Core	FACS and
13.43 - 14.43	Labs	Sequencing Facilities
14:45 - 15:00	Labs Coffee Break	
		Facilities
14:45 - 15:00	Coffee Break Lecture: TotalSeq TM - Single Cell Analysis: From Multicolor Flow Cytometry to Simultaneous RNA and Protein Analysis	Facilities Flex Lab A & B
14:45 - 15:00 15:00 - 15:45	Coffee Break Lecture: TotalSeq TM - Single Cell Analysis: From Multicolor Flow Cytometry to Simultaneous RNA and Protein Analysis Julia Dickow - Biolegend, Germany Practical: Target Enrichment 1 & 2 (BCR) Katharina Danielski - 10x Genomics, Germany	Facilities Flex Lab A & B Flex Lab A & B

Day 3 - Wednesday 12 February 2020

Time	Speaker	Location
08:45	Bus from ISG Hotel to EMBL AT	C entrance ISG Hotel bus stop
09:00 - 11:4	Practical: Enriched and GEX Library Construction Katharina Danielski - 10x Genom Nicola Cahill - 10x Genomics, U	Training Lab B

11:45 - 12:45	Practical: Tours of FACS and Sequencing Core Labs	FACS and Sequencing Facilities
12:45 - 13:30	Lunch break	EMBL Canteen
13:30 - 14:30	Lecture: Single-cell Multi-omics Approaches in Hematology and Precision Medicine Simon Haas - HI-STEM gGmbH and German Cancer Research Centre, Germany	Flex Lab A & B
14:30 - 15:30	Lecture: Using Total-Seq to understand hepatic macrophage heterogeneity in inflammation Charlotte Scott - Ghent University and VIB, Belgium	Flex Lab A & B
15:30 - 15:45	Coffee Break	Flex Lab A & B
15:45- 16:30	Lecture: Comparing and integrating Adaptive Biotechnologies and 10X Genomics immune profiling data to make an automated pipeline for tumor reactive TCR discovery and cloning Edward Green - German Cancer Research Centre, Germany	Flex Lab A & B
16:30 - 18:00	Lecture: Cellranger Data Analysis I Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK	Flex Lab A & B
18:00 - 19:00	Dinner	EMBL Canteen
19:00	Shuttle back to ISG Hotel	ATC entrance

Day 4 - Thursday 13 February 2020

Time	Speaker	Location	
08:30	Bus from ISG Ho	otel to EMBL ATC entrance	ISG Hotel bus stop
08:45 - 09:30		jer Data Analysis ski - 10x Genomics, Germany	Flex Lab A & B
09:30 - 12:00	Practical: Loupe Nicola Cahill - 10	Cell/VDJ Browser Tutorial 0x Genomics, UK	Computer Training Lab
12:00 - 13:00	Lunch Break		EMBL Canteen
13:00 - 14:00	Lecture: Shifting Nicola Cahill - 10	the Transcriptomics Frontier 0x Genomics, UK	Flex Lab A & B

14:00 - 14:15	Closing Remarks and Coffee Break Elisabeth Zielonka - EMBL Heidelberg, Germany	Flex Lab A & B
14:15 - 17:00	Optional: Loupe Cell/VDJ Browser Free Time Katharina Danielski - 10x Genomics, Germany	Computer Training Lab
14:15 - 17:00	Optional: Project and Troubleshooting Slots Nicola Cahill - 10x Genomics, UK	Flex Lab A & B
17:00	Bus to Heidelberg Train Station and Crown Plaza Hotel	ATC entrance