

Immunoprofiling of Single Cells

EMBL COURSE



We have moved our website to embl.org/events. The content below is no longer being updated.

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

Got something to say? Tweet it with #EMBLimmune

Please note the below programme still subject to changes

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Day 1 - Monday 4 March 2019

Time Speaker Location

Time	Speaker	Location
09:00 - 10:00	Arrival & Welcome Elisabeth Zielonka - EMBL Heidelberg, Germany Yvonne Yeboah - EMBL Heidelberg, Germany	Flex Lab A & B
10:00 - 11:00	An Introduction to 10x Genomics Technology (including Single Cell Feature Barcoding and VDJ enrichment) Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany	Flex Lab A & B
11:00 - 11:30	Coffee break	Flex Lab A & B
11:30 - 12:30	Practical: Loading the Training Chip Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany	Training Lab B
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 15:30	Practical: Cell Prep & Antibody Staining Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany	Training Lab B
15:30 - 18:00	Practical: Practical: GEM generation & RT Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany	Training Lab B
18:00 - 18:15	Shuttle back to ISG Hotel	
18:15	Dinner	ISG Hotel

Day 2 - Tuesday 5 March 2019

Time Speaker	Location
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Time	Speaker	Location
09:00 - 10:15	Practical: cDNA synthesis (for Feature Barcoding) Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany	Training Lab B
10:15 - 13:00	Practical: PCR amplification of VDJ region Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany	Training Lab B
13:00 - 14:00	Lunch break	EMBL Canteen
14:00 - 15:00	Lecture: TotalSeqTM - proteomics in the era of high-throughput single-cell sequencing Carsten Wiethe - Biolegend, Germany	Flex Lab A & B
15:00 - 15:30	Coffee break	Flex Lab A & B
15:30 - 16:30	Lecture: Applying the newest single-cell technology to the oldest immune cell known to man Martin Guilliams - Ghent University, Belgium	Flex Lab A & B
16:30 - 17:30	Tour Gene Core Facility	Flex Lab A & B
17:30 - 18:00	Q&A session	Flex Lab A & B
18:00 - 19:00	Dinner	EMBL Canteen
19:00	Shuttle back to ISG Hotel	

Day 3 - Wednesday 6 March 2019

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Time	Speaker	Location
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Time	Speaker	Location
09:00 - 13:00	Practical: Illumina Sequencing Library Preparation (for both VDJ and Feature Barcoding) Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany Laurie Scott - 10x Genomics, UK	Flex Lab A & B
13:00 - 14:00	Lunch break	EMBL Canteen
14:00 - 15:00	Lecture: Antigen receptor repertoires and specificities at single cell resolution Michael Stubbington - 10x Genomics, UK	Flex Lab A & B
15:00 - 15:30	Coffee break	Flex Lab A & B
15:30 - 16:30	Lecture: "Gone Fishing: Single cell sequencing for deep sea trawling of T cell clones" Michelle Teng - Immunocore Ltd, UK	Flex Lab A & B
16:30	Free Evening	

Day 4 - Thursday 7 March 2019

Time	Speaker	Location
09:00 - 12:30	Practical: Illumina Sequencing Run Bianka Baying - EMBL Heidelberg, Germany Nicola Cahill - 10x Genomics, UK Katharina Danielski - 10x Genomics, Germany Dinko Pavlinic - EMBL Heidelberg, Germany	Flex Lab A & B
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 15:30	Lecture: An Introduction to Cell Ranger and Single Cell Data Analysis Katharina Danielski - 10x Genomics, Germany	Flex Lab A & B
15:30 - 16:00	Coffee break	Flex Lab A & B
16:00 - 17:30	Lecture: A Live Demo of the Loupe Cell Browser Katharina Danielski - 10x Genomics, Germany Nicola Cahill - 10x Genomics, UK	Computer Training Lab

Time	Speaker	Location
17:30	Shuttle to ISG Hotel and downtown	
19:00	Dinner downtown	Restaurant

Day 5 - Friday 8 March

Time	Speaker	Location
09:00 - 10:00	Lecture: Additional Feature Barcoding Applications - High-throughput CRISPR Screening for Functional Genomics Analysis Hannes Arnold - 10x Genomics, Germany	Computer Training Lab
10:00 - 11:00	Lecture: Preparing a High Quality Single Cell Suspension Diana Ordonez - EMBL Heidelberg, Germany	Computer Training Lab
11:00 - 12:00	Lecture: Single Cell & Immunology Publication Review Hannes Arnold - 10x Genomics, Germany	Computer Training Lab
12:00 - 13:00	Lunch break	EMBL Canteen
13:00	Bus to Heidelberg Train Station and Crown Plaza Hotel	