



# The Fundamentals of High-End Cell Sorting

EMBO PRACTICAL COURSE



**We have moved our website to [embl.org/events](https://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 The content below is no longer being updated.**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 [#EMBOCellSort](#)

### Day 1 - Monday 11 November 2019

Time	Speaker	Location
08:45	<b>Bus from ISG Hotel to EMBL ATC entrance</b>	ISG Hotel bus stop
08:50 - 09:00	<b>Arrival and Registration</b>	Flex Lab A & B
09:00 - 09:20	<b>Welcome and Course Introduction</b>	Flex Lab A & B

Time	Speaker	Location
09:20 - 10:20	<b>Participants flash talks</b>	Flex Lab A & B
10:20 - 10:45	<b>Coffee break</b>	Flex Lab A & B
10:45 - 12:30	<b>Lecture: Stream, Nozzles &amp; Drops</b> Derek Davis - Francis Crick Institute, UK <b>Lecture: Signal Generation</b> Malte Paulsen - EMBL Heidelberg, Germany	Flex Lab A & B
12:30 - 13:30	<b>Lunch break</b>	EMBL Canteen
13:30 - 14:30	<b>Poster Session (odd numbers) &amp; Coffee Break</b>  <b>Lecture: Drop Delay</b> Joana Cerveira - University of Cambridge, UK	Top Helix A
14:30 - 16:00	<b>Lecture: Sample Quality Impact</b> Attila Bebes - Babraham Institute, UK  <b>Practical: Hands-on Laser Alignment</b> Attila Bebes - Babraham Institute, UK Joana Cerveira - University of Cambridge, UK Cora Chadick - Amsterdam UMC, location VUmc, The Netherlands	Flex Lab A & B
16:00 - 18:30	Derek Davis - Francis Crick Institute, UK Diana Ordonez - EMBL Heidelberg, Germany Malte Paulsen - EMBL Heidelberg, Germany Beáta Ramasz - EMBL Heidelberg, Germany Steffen Schmitt - DKFZ, Germany	Training lab B
18:40	<b>Bus to ISG Hotel</b>	ATC entrance
19:00	<b>Flammkuchen Dinner</b>	ISG Hotel restaurant

## Day 2 - Tuesday 12 November 2019

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

	<b>Lecture: Cell Sorting Applications</b>	
09:00 - 10:20	Diana Ordonez - EMBL Heidelberg, Germany <b>Lecture: Single Cell Genomics</b> Vladimir Benes - EMBL Heidelberg, Germany	Flex Lab A & B
10:20 - 10:45	<b>Coffee Break</b>	Flex Lab A & B
10:45 - 12:30	<b>Genomics Center Tour &amp; Single Cell Genomics Workflow</b>	Gene Core Facility
12:30 - 13:30	<b>Lunch break</b>	EMBL Canteen
13:30 - 14:30	<b>Poster Session (even numbers) &amp; Coffee Break</b>	Top Helix A
	<b>Lecture: Quality Single Cell Sorts</b>	
14:30 - 16:00	Cora Chadick - Amsterdam UMC, location VUmc, The Netherlands <b>Lecture: Cuvette vs Jet-in-Air Sorters</b> Diana Ordonez - EMBL Heidelberg, Germany	Flex Lab A & B
	<b>Practical: Hands-on Laser Alignment</b>	
16:00 - 18:30	Attila Bebes - Babraham Institute, UK Joana Cerveira - University of Cambridge, UK Cora Chadick - Amsterdam UMC, location VUmc, The Netherlands Derek Davis - Francis Crick Institute, UK Diana Ordonez - EMBL Heidelberg, Germany Malte Paulsen - EMBL Heidelberg, Germany Beáta Ramasz - EMBL Heidelberg, Germany Steffen Schmitt - DKFZ, Germany	Training Lab B
18:40	<b>Bus to Delphi Restaurant</b>	ATC Entrance
19:00	<b>Course Dinner</b>	Delphi Restaurant

## Day 3 - Wednesday 13 November 2019

Time	Speaker	Location
08:45	<b>Bus from ISG Hotel to EMBL ATC entrance</b>	ISG Hotel bus stop
09:00 - 10:00	<b>Lecture: Sorting Modes, Index Cell Sorting</b> Steffen Schmitt - DKFZ, Germany	Flex Lab A & B
10:00 - 10:45	<b>Coffee Break &amp; Shuttle bus to DKFZ</b>	Flex Lab A & B

10:15	<b>Bus departure for Group 2</b>	ATC Entrance
10:45 - 12:30	<b>Practical Session: Running Different Sorter Types</b> Group 1: MoFlo (EMBL) Group 2: Aria Fusion (DKFZ)	Flow Cytometry Core Facility DKFZ
12:30 - 13:30	<b>Lunch break</b>	EMBL Canteen   DKFZ
13:30 - 18:30	<b>Practical Session: Running Different Sorter Types</b> Group 1: MoFlo (EMBL) Group 2: Aria Fusion (DKFZ)	Flow Cytometry Core Facility DKFZ
18:30	<b>Free evening</b>	
18:30	<b>(Group 1) Bus departure to ISG Hotel</b>	ATC entrance
19:00	<b>Bus departure to Bismarkplatz</b>	ISG Hotel bus stop

## Day 4 - Thursday 14 November 2019

Time	Speaker	Location
08:45	<b>Bus from ISG Hotel to EMBL ATC entrance</b>	ISG Hotel bus stop
09:00 - 10:00	<b>Lecture: Sort Reports and Data Publishing</b> Derek Davis - Francis Crick Institute, UK	Flex Lab A & B
10:00 - 10:45	<b>Coffee Break &amp; Shuttle bus to DKFZ</b>	Flex Lab A & B
10:15	<b>Bus departure for Group 1</b>	ATC Entrance
10:45 - 12:30	<b>Practical Session: Running Different Sorter Types</b> Group 2: MoFlo (EMBL) Group 1: Aria Fusion (DKFZ)	Flow Cytometry Core Facility DKFZ
12:30 - 13:30	<b>Lunch break</b>	EMBL Canteen   DKFZ
13:30 - 18:30	<b>Practical Session: Running Different Sorter Types</b> Group 2: MoFlo (EMBL) Group 1: Aria Fusion (DKFZ)	Flow Cytometry Core Facility DKFZ

18:30	<b>Bus departure (Group 2) to Bowling Alley</b>	ATC Entrance
19:00 - 22:00	<b>Bowling and Dinner</b>	

## Day 5 - Friday 15 November 2019

Time	Speaker	Location
08:45	<b>Bus from ISG Hotel to EMBL ATC entrance</b>	ISG Hotel bus stop
09:00 - 10:00	<b>Lecture: Biosafety Considerations</b> Steffen Schmitt - DKFZ, Germany	Flex Lab A & B
10:00 - 10:30	<b>Coffee Break</b>	Flex Lab A & B
10:30 - 11:30	<b>Feedback and Discussion on the Course</b>	Flex Lab A & B
11:30 - 12:00	<b>Pack Lunches</b>	Flex Lab A & B
12:00	<b>Shuttle to Heidelberg Train Station and Crown Plaza Hotel</b>	ATC Entrance