Liquid Biopsies

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 The content below is no longer being updated.**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 #EMBLbiopsies

HIDE ALL

Day 1 - Monday 15 October 2018

Time	Speaker	Location
09:00 - 09:45	**Welcome & Introduction**	Flex Labs A & B
09:45 - 10:15	**Background Lecture** Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Flex Labs A & B
10:15 - 10:30	**Icebreaker**	Flex Labs A & B
10:30 - 10:45	**Flashtalks**	Flex Labs A & B
10:45 - 11:00	**Coffee break**	Flex Labs A & B

Time	Speaker	Location
11:00 - 12:00	**Flow Cytometry** Malte Paulsen - EMBL Heidelberg, Germany	Flex Labs A & B
12:00 - 13:00	**Lunch break**	EMBL Canteen
13:00 - 13:30	**SiMSen-Seq workflow** Tony E. Godfrey - Boston University School of Medicine, USA Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Flex Labs A & B
13:30 - 15:00	**Practical:** **DNA extraction from Plasma**	Training Lab B
15:00 - 15:15	**Coffee break**	Flex Labs A & B
15:15 - 16:30	**Practical:** **Library Preparation**	Training Lab B
16:30 - 18:15	**Practical:** **Clean-Up and quality control**	Training Lab B
18:15 - 19:00	**Dinner**	EMBL Canteen
19:00 - 21:00	**Poster session I**	ATC Helix A

Day 2 - Tuesday 16 October 2018

Time	Speaker	Location
09:00 - 09:15	**Outline**	Flex Labs A & B
09:15 - 10:30	**Practical:** **Single Cell Sorting** Malte Paulsen - EMBL Heidelberg, Germany	Training Lab B
10:30 - 10:45	**Coffee break**	Flex Labs A & B
10:45 - 12:00	**Practical:** **SiMSen-Seq QC** **Library pooling** **Start of miSeq**	Training Lab B
12:00 - 13:00	**Lunch break**	EMBL Canteen
13:00 - 13:30	**Practical:** **Single-cell RT**	Training Lab B

Time	Speaker	Location
13:30 - 14:30	**Introduction to ddPCR** Francisco Bizouarn - BioRad, USA	Flex Labs A & B
14:30 - 15:00	**Practical:** **Single-cell qPCR**	Training Lab B
15:00 - 15:15	**Coffee break**	Flex Labs A & B
15:15 - 17:00	**Practical:** **ddPCR** Jörg Bantin - BioRad, USA Francisco Bizouarn - BioRad, USA	Training Lab B
17:00 - 18:00	**Practical:** **Introduction into QuantaSoft** **Start reading the experiment** Jörg Bantin - BioRad, USA Francisco Bizouarn - BioRad, USA	Training Lab B
18:00 - 19:00	**Dinner**	EMBL Canteen
19:00 - 21:00	**Poster session II**	ATC Helix A

Day 3 - Wednesday 17 October 2018

Time	Speaker	Location
09:00 - 09:15	**Outline**	Flex Labs A & B
09:15 - 10:15	**Practical:** **Data analysis with QuantaSoft** Jörg Bantin - BioRad, USA Francisco Bizouarn - BioRad, USA	Training Lab B
10:15 - 10:30	**Coffee break**	Flex Labs A & B
10:30 - 11:30	**Practical:** **Data analysis with QuantaSoft** Jörg Bantin - BioRad, USA Francisco Bizouarn - BioRad, USA	Training Lab B
11:30 - 12:30	**Effect of pre-analytical factors on the** **measurement of Evs in Liquid Biopsies** An Hendrix - Ghent University, Belgium	Flex Labs A & B
12:30 - 13:30	**Lunch break**	EMBL Canteen

Time	Speaker	Location
13:30 - 14:30	**Clinical validation of droplet-based procedures in the context of liquid biopsies** Valerie Taly - Paris Descartes University, France	Flex Labs A & B
14:30 - 15:30	**Genomic analysis of CTC** Rui Neves - Hospital Centre of the Heinrich-Heine University Düsseldorf, Germany	Flex Labs A & B
15:30 - 16:00	**Coffee break**	Flex Labs A & B
16:00 - 17:00	**Single-Cell Analysis Technologies and Applications** Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Flex Labs A & B
17:00 - 18:00	**Practical: Genomic analysis of CTC**	Training Lab B
from 18:00	**Free evening**	

Day 4 - Thursday 18 October 2018

Time	Speaker	Location
09:00 - 09:15	**Outline**	Flex Labs A & B
09:15 - 10:30	**Exosomal Biomarkers in Liquid Biopsies: How to identify valid and better 'Biomarker Signatures' from micro-vesicular small-RNA Sequencing** Michael Pfaffl - Technical University of Munich, Germany	Flex Labs A & B
10:30 - 10:45	**Coffee break**	Flex Labs A & B
10:45 - 11:00	**Workflow overview: Protein detection** Lei Chen - Uppsala University, Sweden	Flex Labs A & B
11:00 - 12:00	**Practical: Plasma Protein detection (PEA) Detection Probe Set-up** Lei Chen - Uppsala University, Sweden	Training Lab B
12:00 - 13:00	**Lunch break**	EMBL Canteen

Time	Speaker	Location
13:00 - 14:30	**Practical:** **Plasma Protein detection (PEA)** **qPCR Set-up** Lei Chen - Uppsala University, Sweden	Training Lab B
14:30 - 15:45	**Protein detection in Liquid Biopsies** Ulf Landegren - Uppsala University, Sweden	Flex Labs A & B
15:45 - 18:00	**Practical:** **Plasma Protein detection (PEA)** **Demo: Data analysis** Lei Chen - Uppsala University, Sweden	Training Lab B
18:00	**Bus to ISG Hotel**	
from 19:00	**Course dinner**	Restaurant downtown

Day 5 - Friday 19 October 2018

Time	Speaker	Location
09:00 - 09:15	**Outline**	Flex Labs A & B
09:15 - 10:15	**CTCs as liquid biopsy in the management of cancer patients** Simon A. Joosse - University Medical Center Hamburg-Eppendorf, Germany	Flex Labs A & B
10:15 - 10:45	**Coffee break**	Flex Labs A & B
10:45 - 11:45	**CTC, Single-Cell, Two-Tailed PCR for microRNA and cfDNA** Mikael Kubista - Institute of Biotechnology and TATAA Biocenter, Czech Republic	Flex Labs A & B
11:45 - 12:45	**Lunch break**	EMBL Canteen
12:45 - 14:30	**Practical:** **Single-cell analysis** **Data analysis**	Computer Training Lab
14:30 - 15:00	**Q&A Session**	Computer Training Lab
15:00 - 15:15	**Coffee break**	Flex Labs A & B

Time	Speaker	Location
15:15 - 16:30	**Liquid Biopsies in the clinical context** **High-fidelity sequencing** Tony E. Godfrey - Boston University School of Medicine, USA	Flex Labs A & B
16:30 - 18:00	**Implementing liquid biopsies in routine clinic** **What's the need?** Ander Edsjö - Skåne University Hospital, Sweden	Flex Labs A & B
18:00 - 19:00	**Dinner**	ISG Hotel

Day 6 - Saturday 20 October 2018

Time	Speaker	Location
09:00 - 09:15	**Outline**	Computer Training Lab
09:15 - 10:15	**Practical:** **Single-cell analysis** **Data analysis** Mikael Kubista - Institute of Biotechnology and TATAA Biocenter, Czech Republic	Computer Training Lab
10:15 - 10:45	**Coffee break**	Computer Training Lab
10:45 - 12:15	**Practical:** **SiMSen-Seq** **Data analysis** Stefan Filges - Sahlgrenska Academy at University of Gothenburg, Sweden Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Computer Training Lab
12:15 - 13:15	**Lunch break**	EMBL Canteen
13:15 - 14:30	**Practical:** **SiMSen-Seq** **Data analysis** Stefan Filges - Sahlgrenska Academy at University of Gothenburg, Sweden Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Computer Training Lab

Time	Speaker	Location
14:30 - 15:30	**Wrap up**	Computer Training Lab
15:30 - 16:00	**End of course**	