



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 The content below is no longer being updated.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](#)

Day 1 - Monday 23 September 2019

Time	Speaker	Location
08:35	Bus to EMBL	Bus stop in front of ISG Hotel
08:45 - 09:00	Registration	Flex Labs A & B
09:00 - 09:45	Welcome & Introduction	Flex Labs A & B
	Background Lecture	
09:45 - 10:15	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

Time	Speaker	Location
10:45 - 11:00	Coffee break	Flex Labs A & B
11:00 - 12:00	Flow Cytometry Beata Ramasz - EMBL Heidelberg, Germany	Flex Labs A & B
12:00 - 13:00	Lunch break	EMBL Canteen
13:00 - 13:30	SiMSen-Seq workflow 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 - 18:30	Practical: Clean-Up and quality control	Training Lab B
18:30 - 19:15	Dinner	EMBL Canteen
19:15 - 21:00	Poster session I	ATC Helix A
21:00	Bus to ISG Hotel	EMBL public bus stop

Day 2 - Tuesday 24 September 2019

Time	Speaker	Location
08:35	Bus to EMBL	Bus stop in front of ISG Hotel
09:00 - 09:15	Outline	Flex Labs A & B
09:15 - 10:30	Practical: Single Cell Sorting Beata Ramasz - 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	Technology lunch	ATC Foyer
13:00 - 13:30	Practical: Single-cell RT Bianka Baying - EMBL Heidelberg, Germany Laura Villacorta - EMBL Heidelberg, Germany	Training Lab B
13:30 - 14:30	Introduction to ddPCR Francisco Bizouarn - BioRad, USA	Flex Labs A & B
14:30 - 15:00	Practical: Single-cell qPCR Bianka Baying - EMBL Heidelberg, Germany Laura Villacorta - EMBL Heidelberg, Germany	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
21:00	Bus to ISG Hotel	EMBL public bus stop

Day 3 - Wednesday 25 September 2019

Time	Speaker	Location
08:35	Bus to EMBL	Bus stop in front of ISG Hotel

09:00 - 09:15	Outline	Flex Labs A & B
	Practical:	
09:15 - 10:15	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
	Practical:	
10:30 - 11:30	Data analysis with QuantaSoft Jörg Bantin - BioRad, USA Francisco Bizouarn - BioRad, USA	Training Lab B
	Role of biobanks in securing process quality in sample retrieval and storage	
11:30 - 12:30	Romy Kirsten - National Center for Tumor Diseases (NCT) Heidelberg, Germany	Flex Labs A & B
12:30 - 13:30	Lunch break	EMBL Canteen
	Effect of pre-analytical factors on the measurement of Evs in Liquid Biopsies	
13:30 - 14:30	An Hendrix - Ghent University, Belgium	Flex Labs A & B
	Single-Cell Analysis Technologies and Applications	
14:30 - 16:00	Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Flex Labs A & B
16:00 - 16:30	Coffee break	Flex Labs A & B
	Clinical validation of droplet-based procedures in the context of liquid biopsies	
16:30 - 17:30	Valerie Taly - Paris Descartes University, France	Flex Labs A & B
from 17:30	Free evening	
17:40	Bus to ISG Hotel	In front of ATC entrance
18:15	Bus to Neckarmünzplatz	Bus stop in front of ISG Hotel
from 18:30	Optional - guided tour of Heidelberg	Neckarmünzplatz

Day 4 - Thursday 26 September 2019

Time	Speaker	Location
08:40	Bus to EMBL	Bus stop in front of ISG Hotel
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	Group photo	
10:30 - 10:45	Coffee break	Flex Labs A & B
10:45 - 11:00	Workflow overview: Protein detection Bianka Baying - EMBL Heidelberg, Germany Lei Chen - Uppsala University, Sweden Laura Villacorta - EMBL Heidelberg, Germany	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
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	EMBL public bus stop
18:40	Bus to restaurant "Wirtshaus zum Nepomuk"	Bus stop in front of ISG Hotel

from 19:00

Course dinnerWirtshaus zum
Nepomuk

Day 5 - Friday 27 September 2019

Time	Speaker	Location
08:40	Bus to EMBL	Bus stop in front of ISG Hotel
09:00 - 09:15	Outline	Helix Seminar Room B
09:15 - 10:30	Liquid Biopsies in the clinical context High-fidelity sequencing Tony E. Godfrey - Boston University School of Medicine, USA	Helix Seminar Room B
10:30 - 10:45	Coffee break	Computer Training Lab
10:45 - 11:45	CTC, Single-Cell, Two-Tailed PCR for microRNA and cfDNA Mikael Kubista - Institute of Biotechnology and TATAA Biocenter, Czech Republic	Computer Training Lab
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 - 15:30	Coffee break	Computer Training Lab
15:30 - 16:30	Liquid Biopsy: From discovery of metastasis biology to clinical application Klaus Pantel - University Medical Center Hamburg-Eppendorf, Germany	Helix Seminar Room B
16:30 - 18:00	Implementing liquid biopsies in routine clinic What's the need? Anders Edsjö - Skåne University Hospital, Sweden	Helix Seminar Room B

18:00	Bus to ISG Hotel	In front of ATC entrance
from 18:30	Flammkuchen Dinner	ISG Hotel

Day 6 - Saturday 28 September 2019

Time	Speaker	Location
08:40	Bus to EMBL	Bus stop in front of ISG Hotel
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 Gustav Johansson - 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 Gustav Johansson - Sahlgrenska Academy at University of Gothenburg, Sweden Anders Ståhlberg - Sahlgrenska Academy at University of Gothenburg, Sweden	Computer Training Lab
14:30 - 15:00	Wrap up	Computer Training Lab
15:00 - 15:15	End of course	

15:15

Bus to ISG Hotel, Heidelberg main train station & to Lufthansa Shuttle bus

EMBL public bus stop