

Chromatin Signatures During Differentiation: Integrated Omics

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 The content below is no longer being updated.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 #EMBL signatures

Day 1 - Monday 2 September 2019

Time	Speaker	Location
	Introduction to basics & pull-down	
08:40	Bus from ISG Hotel to EMBL	Bus stop in front of ISG Hotel
08:45 - 09:00	Arrival & Registration	Flex Labs A&B

Time	Speaker	Location
09:00 - 10:00	Welcome, Introduction & Breaking the ice Paola Grandi - Cellzome/GSK, Germany Kyung-Min Noh - EMBL Heidelberg, Germany	Flex Labs A&B
10:00 - 12:30	Practical: Overview experiments Paola Grandi - Cellzome/GSK, Germany Kyung-Min Noh - EMBL Heidelberg, Germany ESC differentiation Kyung-Min Noh - EMBL Heidelberg, Germany	Training Lab B
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 15:00	Practical: Laboratory work-Cell lysate preparation; Native and cross-link condition	Training Lab B
15:00 - 16:00	Chromatin assembly, conformation, dynamics and accessibility Karsten Rippe - German Cancer Research Cente (DKFZ) and the Bioquant Center in Heidelberg, Germany	Flex Labs A&B
16:00 - 16:30	Coffee break and meet the speaker	Flex Labs A&B
16:30 - 19:00	Practical (cont.): Laboratory work-Cell lysate preparation; Micrococcal nuclease and sonication, check digestion pattern	Training Lab B
19:00 - 20:00	Dinner	EMBL Canteen
20:00 - 22:00	Flash Talk Session	ATC Rooftop Lounge
22:00	Bus to ISG Hotel	In front of ATC entrance

Day 2 - Tuesday 3 September 2019

Time Speaker Location

Chem-MS and Chem-seq

08:40	Bus from ISG Hotel to EMBL	Bus stop in front of ISG Hotel
09:00 - 10:00	Identification of clinical candidates among epigenetics targets Emmanuel Demont - GSK, United Kingdom	Flex Labs A&B
10:00 - 10:30	Coffee break and meet the speaker	Flex Labs A&B
10:30 - 12:30	Practical: Chem-seq: small-molecule probe preparation. Laboratory work-Chromatin immunoprecipitation for Chem-seq and Mass-spec	Training Lab B
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 16:00	Practical: Preparation of samples for MS; elution from the small molecule-beads, gel running, staining/destaining	Training Lab B
16:00 - 16:30	Coffee break	Flex Labs A&B
16:30 - 17:30	Protein stability proteomics for identification of small molecule targets Mikhail Savitski - EMBL Heidelberg, Germany	Flex Labs A&B
17:30 - 19:00	Practical (cont.): Preparation of samples for DNA sequencing	Training Lab B
19:00 - 20:00	Dinner	EMBL Canteen
20:00 - 22:00	Poster Session I	ATC Helix A
22:00	Bus to ISG Hotel	In front of ATC entrance

Day 3 - Wednesday 4 September 2019

Time	Speaker	Location	
		ChIP-MS and ChIP-seq	
08:40	Bus from IS	SG Hotel to EMBL	Bus stop in front of ISG Hotel

09:00 - 10:30	Identification of chromatin-associated protein networks Jeroen Krijgsveld - German Cancer Research Center (DKFZ), Germany Introduction on MS Nico Zinn - Cellzome/GSK, Germany	Flex Labs A&B
10:30 - 10:45	Coffee break and meet the speaker	Flex Labs A&B
10:45 - 12:45	Practical: Chromatin immunoprecipitation for ChIP-seq and Mass-spec; DNA-Protein (mass spec analysis of proteins and in parallel sequencing of the DNA) Mandy Rettel - EMBL Heidelberg, Germany	Training Lab B
12:45 - 13:30	Lunch break	EMBL Canteen
13:30 - 14:30	Histone PTM proteomics: investigate multi- layered gene regulation Tiziana Bonaldi - European Institute of Oncology, Italy	Flex Labs A&B
14:30 - 15:30	Practical: Tandem Mass Tag (TMT) labeling	Training Lab B
from 15:30	Free afternoon / evening	
15:35	Bus to ISG Hotel	In front of ATC entrance
16:15	Bus from ISG Hotel to Neckarmünzplatz	Bus stop in front of ISG Hotel
from 16:30	Optional - guided tour of Heidelberg	Neckarmünzplatz

Day 4 - Thursday 5 September 2019

Time	Speaker	Location	
		NGS Library generation	
08:40	Bus from	ISG Hotel to EMBL	Bus stop in front of ISG Hotel

09:00 - 10:00	Using variation across individuals for generating cell-type specific gene regulatory networks Judith Zaugg- EMBL Heidelberg, Germany	Flex Labs A&B
10:00 - 10:30	Coffee break and meet the speaker	Flex Labs A&B
10:30	Group photo	
10:30 - 12:30	Practical: Library generation, Preparation of sample for MS: gel-cutting, digestion and elution Mandy Rettel - EMBL Heidelberg, Germany	Training Lab B
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 16:00	Practical: Library generation, Submitting samples for sequencing and protein identification Mandy Rettel - EMBL Heidelberg, Germany	Training Lab B
16:00 - 16:30	Coffee break	Flex Labs A&B
16:30 - 17:30	Genomic-pipeline Vladimir Benes - EMBL Heidelberg, Germany	Flex Labs A&B
17:30 - 18:30	Tour of Genecore Facility and Proteomics Facility Dominic Helm - EMBL Heidelberg, Germany	Genecore Facility Proteomics Facility
18:30 - 19:00	Q&A Session Dominic Helm - EMBL Heidelberg, Germany	Flex Labs A&B
19:00 - 20:00	Dinner	EMBL Canteen
20:00 - 21:30	Poster Session II	ATC Helix A
21:30	Bus to ISG Hotel	EMBL public bus

Day 5 - Friday 6 September 2019

Time	Speaker	Location	
		Data Analysis	
08:40	Bus from ISG	Hotel to EMBL	Bus stop in front of ISG Hotel

09:00 - 10:00	Protein-chromatin interaction analysis Charles Girardot - EMBL Heidelberg, Germany	Computer Training Lab
10:00 - 10:30	Coffee break and meet the speaker	Computer Training Lab
10:30 - 12:30	Practical: GBCS- ChIP-seq data analysis with Galaxy Charles Girardot - EMBL Heidelberg, Germany	Computer Training Lab
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 14:30	The developing mouse nervous system in the light of histone methylation Tanja Vogel - University of Freiburg, Germany	Computer Training Lab
14:30 - 15:30	Practical: GSK MS-data analysis Maria Faelth-Savitski - Cellzome/GSK, Germany	Computer Training Lab
15:30 - 16:00	Coffee break and Q&A Session	Computer Training Lab
16:00 - 17:30	Practical (cont.): GBCS- ChIP-seq and GSK MS-data analysis Maria Faelth-Savitski - Cellzome/GSK, Germany Charles Girardot - EMBL Heidelberg, Germany Mathias Andres Saver Cortes - EMBL Heidelberg, Germany Jelle Scholtalbers - EMBL Heidelberg, Germany	Computer Training Lab
17:30 - 18:30	Wrap-up and closing of the course	Computer Training Lab
18:40	Bus to ISG Hotel	In front of ATC entrance
19:10	Bus to Kulturbrauerei	Bus stop in front of ISG Hotel
from 19:30	Course Dinner	Kulturbrauerei Heidelberg