



Advanced Training with Oxford Nanopore Technologies

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 The content below is no longer being updated.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

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Day 1 - Monday 14 January 2019

Time	Speaker	Location
12:00	Lunch (optional)	EMBL Canteen
12:45 - 13:00	Registration	Flex Labs A & B

Time	Speaker	Location
13:00 - 14:00	Welcome & Introduction	Flex Labs A & B
14:00 - 15:00	Flash Talk Session	Flex Labs A & B
15:00 - 15:30	Coffee break	Outside Training Lab Area
15:30 - 16:30	Introduction to Nanopore Sequencing Sample and library prep theory QC DNA/RNA samples	Flex Labs A & B Training Lab B
16:30 - 18:00	Introduction to data analysis principles Differential gene expression Splice isoforms Structural Variation	Flex Labs A & B Training Lab B
18:00 - 19:00	Dinner	EMBL Canteen

Day 2 - Tuesday 15 January 2019

Time	Speaker	Location
09:45 - 10:00	Introduction to lab set up and protocols Barcoded cDNA with PCR Native barcoding with LSK 109	Flex Labs A & B
10:00 - 11:00	Set up barcoded cDNA PCRs	Flex Labs A & B
11:00 - 11:15	Coffee break	Outside Training Lab Area
11:15 - 13:15	Prepare Native Barcoded LSK 109 libraries	Training Lab B
13:15 - 14:15	Lunch break	EMBL Canteen
14:15 - 14:45	Flow cell loading practice	Training Lab B
14:45 - 15:15	Load LSK109 libraries	Computer Training Lab
15:15 - 15:45	Introduction to MinKNOW and assessing a GridION/MinION run	Training Lab B
15:45 - 16:15	Coffee break	Outside Training Lab Area
16:15 - 16:30	Check AWS connectivity	Training Lab B

Time	Speaker	Location
16:30 - 17:00	Introduction to the Linux command line and practice	Computer Training Lab
17:00 - 18:00	Tour of EMBL's GeneCore facility	GeneCore facility
18:00 - 19:00	Dinner	EMBL Canteen

Day 3 - Wednesday 16 January 2019

Time	Speaker	Location
09:45 - 10:15	Review runs from Day 2	Flex Labs A & B
10:15 - 12:00	Finish PCR barcoded libraries	Training Lab B
12:00 - 12:15	Coffee break	Outside Training Lab Area
12:15 - 12:45	Load PCR barcoded libraries	Training Lab B
12:45 - 13:30	Lunch break	EMBL Canteen
13:30 - 14:30	Measuring transcriptional changes in SCraMbLEd yeast genomes with Nanopore-based RNA sequencing Aaron Brooks - EMBL Heidelberg, Germany	Flex Labs A & B
14:30 - 15:15	Introduction to structural variation and analysis	Computer Training Lab
15:15 - 15:30	Coffee break	Outside Training Lab Area
15:30 - 17:00	Practice structural variation detection with example data	Computer Training Lab
from 17:00	Course Dinner	Restaurant in Downtown Heidelberg

Day 4 - Thursday 17 January 2019

Time	Speaker	Location
09:45 - 10:15	Review runs from Day 3	Flex Labs A & B

Time	Speaker	Location
10:15 - 12:15	Structural variation detection with data from Day 2	Training Lab B Computer Training Lab
12:15 - 13:00	Lunch break	EMBL Canteen
13:00 - 14:00	Nanopore RNA-seq leverages large animal models for systems cardiology research Christoph Dieterich - Heidelberg University Hospital, Germany	Flex Labs A & B
14:00 - 14:45	Introduction to differential gene expression analysis and alternative splicing	Training Lab B Computer Training Lab
14:45 - 15:00	Coffee break	Outside Training Lab Area
15:00 - 17:00	Practice differential gene expression and splicing analysis with example data	Training Lab B Computer Training Lab
from 17:00	Free evening	

Day 5 - Friday 18 January 2019

Time	Speaker	Location
09:45 - 12:15	Differential gene expression and splicing analysis with data from Day 3	Training Lab B Computer Training Lab
12:15 - 13:00	Lunch break	EMBL Canteen
13:00 - 14:30	Group presentations with data analysis results	Flex Labs A & B
from 14:30	End of course	