



Analysis and Integration of Transcriptome and Proteome Data

EMBL COURSE

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 [#EMBLDataIntegration](#)

Day 1 - Sunday 2 February 2020

| Time | Speaker | Location |
|---------------|--|--------------------|
| 08:45 | Bus from ISG Hotel to EMBL ATC entrance | ISG Hotel bus stop |
| 09:00 - 09:30 | Arrival & Welcome | Courtyard Room |
| 09:30 - 10:30 | Lecture: RNA-seq: Is it that Simple? Vladimir Benes - EMBL Heidelberg, Germany | Courtyard Room |
| 10:30 - 11:00 | Coffee break | Courtyard Room |
| 11:00 - 12:30 | Lecture: RNA-seq: Is it that Simple? Vladimir Benes - EMBL Heidelberg, Germany | Courtyard Room |
| 12:30 - 13:30 | Lunch | |

| Time | Speaker | Location |
|---------------|---|-----------------------|
| 13:30 - 15:30 | Lecture: RNA-seq: From Reads to Genes -Reference based and alignment-free transcripts counting -Duplication artifacts effects on expression estimation -Annotation effect on expression estimation Raffaele Calogero - University of Torino, Italy | Computer Training Lab |
| 15:30 - 16:00 | Coffee break | Computer Training Lab |
| 16:00 - 18:00 | Practical: From Reads to Genes Raffaele Calogero - University of Torino, Italy | Computer Training Lab |
| 18:10 | Shuttle to the Hotel | ATC entrance |
| 18:30 | Dinner | ISG Hotel |

Day 2 - Monday 3 February 2020

| Time | Speaker | Location |
|---------------|---|-----------------------|
| 08:15 | Bus from ISG Hotel to EMBL ATC entrance | ISG Hotel bus stop |
| 08:30 - 10:00 | Lecture: Differential expression analysis: Two groups and multiple groups comparisons using DEseq2 and edgeR anova-like tools Raffaele Calogero - University of Torino, Italy | Computer Training Lab |
| 10:00 - 10:30 | Coffee break | Computer Training Lab |
| 10:30 - 12:30 | Practical: Differential expression analysis: Two groups and multiple groups comparisons using DEseq2 and edgeR anova-like tools Raffaele Calogero - University of Torino, Italy | Computer Training Lab |
| 12:30 - 13:30 | Lunch | EMBL Canteen |
| 13:30 - 15:00 | Lecture: P-values and multiple testing correction Hyungwon Choi - National University of Singapore, Singapore | Computer Training Lab |
| 15:00 - 15:30 | Coffee break | Computer Training Lab |

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|---------------|---|--------------------------|
| 15:30 - 18:00 | Lecture: Ribosome profiling Gerben Menschaert - University of Ghent, Belgium | Computer Training Lab |
| 18:00 - 19:00 | Dinner | EMBL Canteen |
| 19:00 | Shuttle to the Hotel | ATC entrance |

Day 3 - Tuesday 4 February 2020

| Time | Speaker | Location |
|---------------|--|--------------------------|
| 08:45 | Bus from ISG Hotel to EMBL ATC entrance | ISG Hotel bus stop |
| 09:00 - 10:30 | Lecture: Ribosome profiling Gerben Menschaert - University of Ghent, Belgium | Computer Training Lab |
| 10:30 - 12:00 | Lecture: Introduction to Proteomics Jeroen Krijgsveld - DKFZ, Germany | Computer Training Lab |
| 12:00 - 13:00 | Lunch | EMBL Canteen |
| 13:00 - 14:30 | Lecture: Quantitative proteomics: SILAC and other MS1-based approaches Jeroen Krijgsveld - DKFZ, Germany | Computer Training Lab |
| 14:30 - 15:00 | Coffee Break | Computer Training Lab |
| 15:00 - 16:30 | Lecture: Quantitative proteomics: TMT Mikhail Savitski - EMBL Heidelberg, Germany | Computer Training Lab |
| 16:30 - 18:00 | Lecture: Bioinformatics for proteomics Lennart Martens - University of Ghent, Belgium | Computer Training Lab |
| 18:00 - 19:00 | Dinner | EMBL Canteen |
| 19:00 | Shuttle to the Hotel | ATC entrance |

Day 4 - Wednesday 5 February 2020

| Time | Speaker | Location |
|-------------|--|-----------------------|
| 08:45 | Bus from ISG Hotel to EMBL ATC entrance | ISG Hotel bus stop |

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| 09:00 - 10:30 | Lecture: Bioinformatics for proteomics Lennart Martens - University of Ghent, Belgium | Computer Training Lab |
| 10:30 - 11:00 | Coffee Break | Computer Training Lab |
| 11:00 - 12:30 | Practical Session: Turning data into information-peptide and protein identification, database searching Lennart Martens - University of Ghent, Belgium | Computer Training Lab |
| 12:30 - 13:30 | Lunch | EMBL Canteen |
| 13:30 - 15:00 | Lecture: Introduction to MaxQuant; analysis of MS data Daria Fijalkowska - University of Ghent, Belgium | Computer Training Lab |
| 15:00 - 15:30 | Coffee Break | Computer Training Lab |
| 15:30 - 17:30 | Practical Session: Proteomics data interpretation Daria Fijalkowska - DKFZ, Germany | Computer Training Lab |
| 17:30 - 18:00 | Shuttle to ISG Hotel | ATC entrance |
| 18:00 - 18:30 | Shuttle downtown | ISG Hotel bus stop |
| 19:00 | Dinner Downtown | |

Day 5 - Thursday 6 February 2020

| Time | Speaker | Location |
|---------------|---|-----------------------|
| 08:45 | Bus from ISG Hotel to EMBL ATC entrance | ISG Hotel bus stop |
| 09:00 - 10:30 | Lecture: Bioinformatic tools for data comparison and integration Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |
| 10:30 - 11:00 | Coffee Break | Computer Training Lab |
| 11:00 - 12:00 | Practical: Introduction to Cytoscape Manjeet Kumar - EMBL Heidelberg, Germany Livia Perfetto - EMBL-EBI Hinxton, UK Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |

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|---------------|---|-----------------------|
| 12:00 - 13:00 | Lunch | EMBL Canteen |
| 13:00 - 14:30 | Practical: Introduction to Cytoscape Manjeet Kumar - EMBL Heidelberg, Germany Livia Perfetto - EMBL-EBI Hinxton, UK Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |
| 14:30 - 15:00 | Coffee Break | Computer Training Lab |
| 15:00 - 16:30 | Practical: Introduction to Cytoscape Manjeet Kumar - EMBL Heidelberg, Germany Livia Perfetto - EMBL-EBI Hinxton, UK Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |
| 16:30 - 17:30 | Lecture and Practical: Enrichment analysis Manjeet Kumar - EMBL Heidelberg, Germany Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |
| 17:30 | Shuttle to ISG Hotel | ATC entrance |
| 17:30 - 18:00 | Shuttle downtown | ISG Hotel bus stop |
| 18:00 | Free evening | |

Day 6 - Friday 7 February 2020

| Time | Speaker | Location |
|---------------|--|-----------------------|
| 08:45 | Bus from ISG Hotel to EMBL ATC entrance | ISG Hotel bus stop |
| 09:00 - 10:00 | Application talk: Network-oriented integrative multi-omics analysis of tissues and fluids - case studies in cancer and cardiovascular diseases Hyungwon Choi - National University of Singapore, Singapore | Computer Training Lab |
| 10:00 - 16:00 | Practical Session: Data integration Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |
| 12:30 - 13:30 | Lunch | EMBL Canteen |
| 13:30 - 16:00 | Practical Session: Data integration Matt Rogon - EMBL Heidelberg, Germany | Computer Training Lab |
| 16:00 | Shuttle to Train Station and Crown Plaza Hotel | ATC entrance |

