

# A practical introduction to multi-omics integration and network analysis

22 - 23 July 2021  
Online

ISMB/ECCB 2021 tutorial



SciLifeLab



# Instructions

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**Please remain muted**  
during lectures



**Camera on**  
throughout, if possible



**Raise your hand**  
to ask questions



**Chat**  
Please refrain from using the chat  
Use [HackMD](#)



**Rui Benfeitas**  
NBIS, Stockholm



**Nikolay Oskolkov**  
NBIS, Lund



**Ashfaq Ali**  
NBIS, Lund



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# Mentimeter

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Go to

<https://www.menti.com/ijyamn8hvr>

Or [www.menti.com](https://www.menti.com) and use the code **8973 8714**

# Themes

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## Before the course:

- Data pre-processing
- Feature selection
- Dimensionality reduction

## July 22:

- ML view of integrative omics
- Supervised integration
- Unsupervised integration
- Hands-on session
- Summary

## July 23:

- Biological network analysis
- Network meta-analysis
- Hands-on session
- Summary

Focus on scientific questions



# Resources

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Slides and scripts: schedule

Hands-on instructions: labs

Time permitting we'll take questions during lectures.

Welcome to ask any questions on [HackMD](#)

Feedback at the end

# ELIXIR Omics Integration and Systems Biology – Online

🕒 September 6 – September 10

📅 Add to calendar: [Google Calendar](#)

Organizer:

👤 [NBIS – National Bioinformatics Infrastructure Sweden](#)

✉ [education@nbis.se](mailto:education@nbis.se)

🌐 [View Organizer Website](#)

Venue :

Online

[Home](#) / [Event](#) / Elixir Omics Integration And Systems Biology Online

## ELIXIR Omics Integration and Systems Biology – Online

The National Bioinformatics Infrastructure Sweden (NBIS) / ELIXIR Sweden is pleased to announce the workshop in Omics Integration and Systems Biology. This workshop is open for PhD students, postdocs, group leaders and core facility staff from European institutions looking for an introduction to multi-omics integration and systems biology approaches.

This workshop will include lectures and hands-on exercises from NBIS / Scilifelab experts from Stockholm, Lund and Gothenburg, as well as guest sessions from:

- [Ricard Argelaguet](#), PhD, Babraham Institute, United Kingdom
- [Kim-Anh Lê Cao](#), PhD, Melbourne University, Australia
- [Pedro Beltrao](#), PhD, EMBL-EBI, United Kingdom
- [Nikolaus Sonnenschein](#), PhD, DTU Technical University of Denmark, Denmark

More information to come on [the course website](#).

### Important Dates

- Application opens: 3 June
- Application closes: 9 August
- Confirmation to accepted students: 16 August

[Application](#)

[Course website](#)

6 - 10 September

Applications open until 9 August

Researchers from European Institutions