

# Introduction to Bioinformatics using NGS data

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# SciLifeLab, NBIS and NGI

## SciLifeLab services

Genomics	→
Metabolomics	→
Spatial Omics	→
Proteomics	→
Single Cell Biology	→
Bioimaging And Molecular Structure	→
Chemical Biology And Genome Engineering	→
Drug Discovery	→
Diagnostics	→
Bioinformatics	→

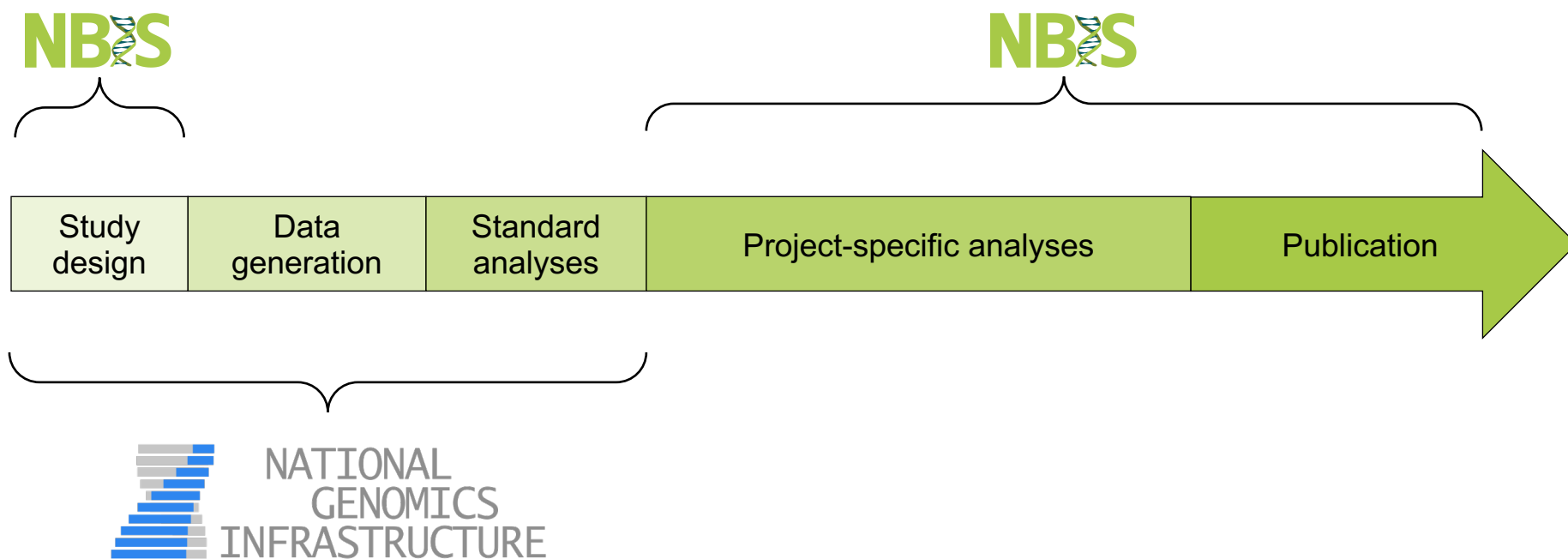


Staff at six different sites across Sweden with expertise in many different omics-related areas



# Teachers on this workshop are from NBIS and NGI

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# Workshop organizers

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Roy Francis



Malin Larsson



Martin Dahlö

# NBIS Bioinformatic Support

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- **Drop-in sessions** every week @ all 6 sites
  - Online (Zoom) Tuesdays at 14.00, for free
- Study design and project **consultation**
  - Three hours per project, for free
- Fee-for-service **support**
  - User fee 800 SEK per hour, however many hours you may need
  - No selection process, all project are welcome
- Long-term **support**
  - Selection process based on scientific peer-review
  - A total of 500 hours, for free
- **Partner Projects**
  - Full-cost model: utilize and pay for 50% of one NBIS FTE

# NBIS Training

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## Some example NBIS courses

- Introduction to bioinformatics using NGS data
- Bulk and single-cell RNA-seq
- Python and R programming
- Tools for reproducible research
- Omics integration and systems biology
- Biostatistics and machine learning

Check out our training catalogue:

<https://uppsala.instructure.com/courses/79097>

**More information about NBIS on  
Friday!**

# Practical information



# Lectures

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- Mainly live in the classroom in Uppsala.
- Streamed via zoom to Lund and Umeå.
- Lets help out to make sure that questions are heard in all classrooms!

# Labs

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- Instructions available in Canvas:
  - <https://uppsala.instructure.com/courses/76870>
  - All material listed under “Contents”
- Work in pairs because it improves the learning.
- TAs available in your classroom

# Attendance and certificate

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Those that attend the full workshop\* will get a certificate.

- \*Attendance at all lectures and labs

- \*Labs done (to the basic level)

- \*Let us know if you need to miss a session

The certificate will not state number of credits. It will say that this was a full weeks workshop and what topics were covered.

Please fill in attendance sheets on the wall!

# Breaks

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Coffe is ordered for 10:00 and 14:30 every day

May adjust times a bit depending on lectures

Lunch booked at 11:45 every day except Wednesday when it is 12:00

Uppsala: Bikupan in BMC

Lund:

Umeå

# Course dinner

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Wednesday 18:00

Uppsala: Koh Phangan, Fyrstorg 2

Lund:

Umeå:

Please sign up on the list in the classroom on Monday!

# Questions?

Please ask questions and take part in discussions through out the workshop!