

Introduction to Bioinformatics using NGS data

Martin Dahlö

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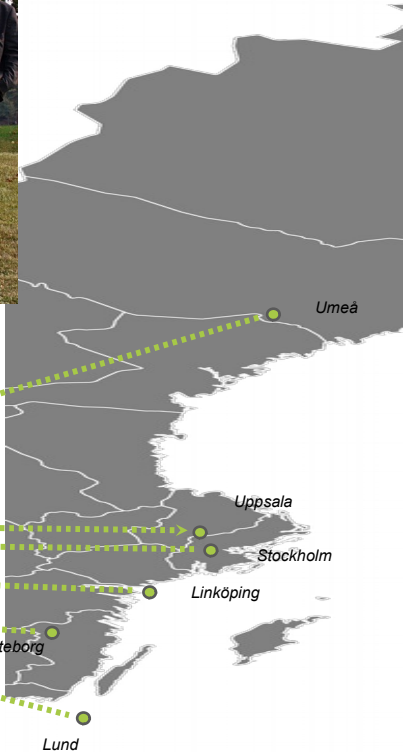
SciLifeLab, NBIS and NGI

SciLifeLab services

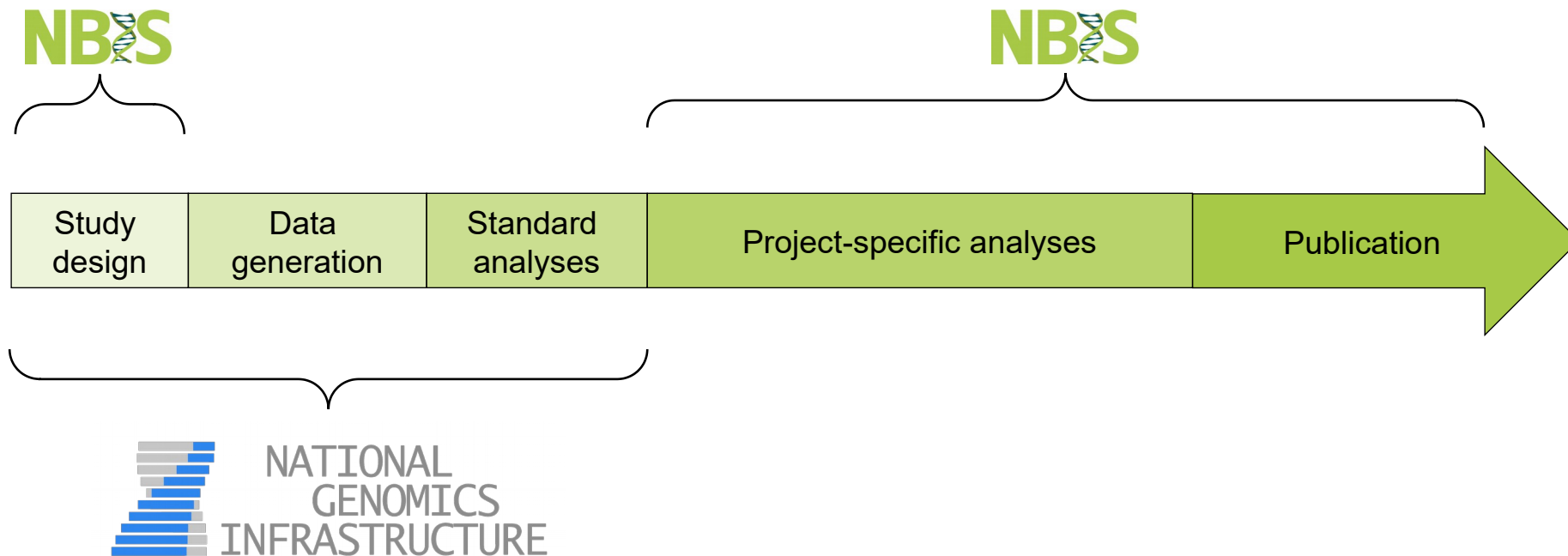
Genomics	→
Metabolomics	→
Spatial Omics	→
Proteomics	→
Single Cell Biology	→
Bioimaging And Molecular Structure	→
Chemical Biology And Genome Engineering	→
Drug Discovery	→
Diagnostics	→
Bioinformatics	→



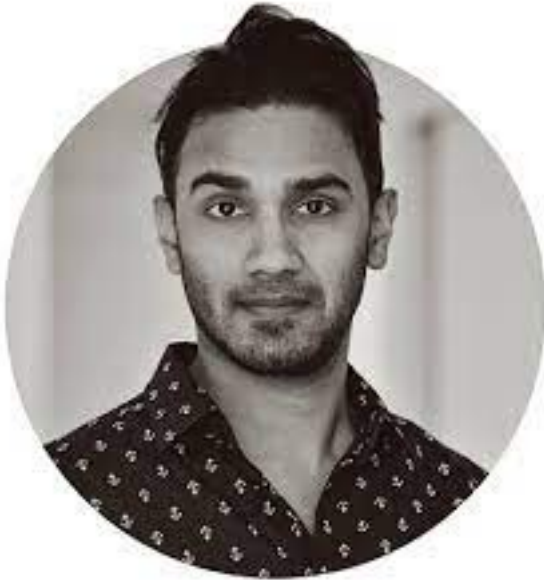
sites across
Sweden with
expertise in many
different omics-
related areas



Teachers on this workshop are from NBIS and NGI



Workshop organizers



Roy Francis



Malin Larsson



Martin Dahlö

NBIS Bioinformatic Support

- **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

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

- 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

- 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

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

Coffe is ordered for 10:00 and 14:30 every day
May adjust times a bit depending on lectures

Lunch booked at 12:00 every day

Uppsala: Bikupan

Lund: Café Bryggan

Umeå: Universum

Course dinner

Wednesday 18:00

Uppsala: Koh Phangan, Fyristorg 2

Lund: Valvet Steakhouse, Allhelgona kyrkogata 7

Umeå: Klang Market, Utopia

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

Questions?

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