Introduction to Bioinformatics using NGS data

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SciLifeLab, NBIS and NGI
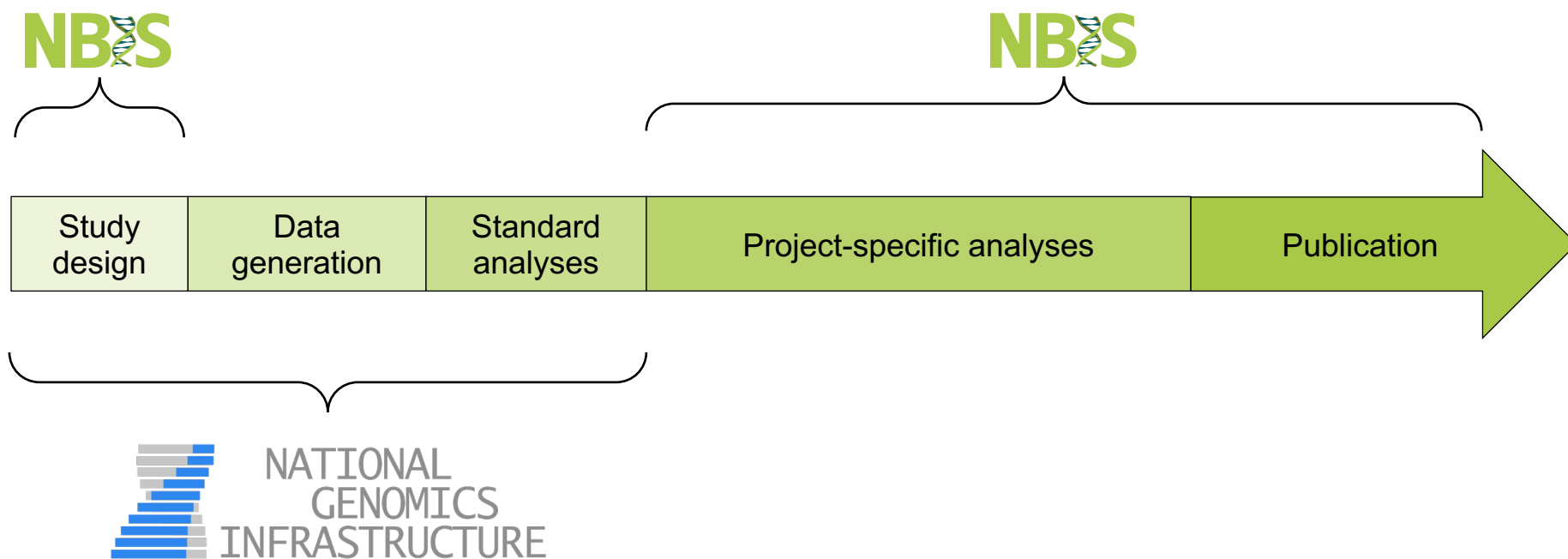
SciLifeLab services

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

Umeå

Uppsala

Stockholm

Linköping

Göteborg

Lund

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/48087/pages/nbis-training-catalogue

More information about NBIS on Friday!

Practical information

Lectures

- Live in zoom

- Please have camera on during lectures

- Have sound muted (except when asking questions)

- Tuesday 13:15 – 15:15: We will watch a pre-recorded video. Questions can be asked in the main zoom window at 15:15.

Labs

- Work in breakout rooms in zoom

- Work in pairs because it improves the learning

- New pair each day / module

- When you need help: Type "Need help in room xx" in this document:

- https://hackmd.io/KUSIRPLaRP2vvpyPC_QYyw

- Then a teacher will come to you room and help out

Open session on Friday afternoon

Opportunity to discuss your research projects

Discussion topic servey: https://www.menti.com/qz4xgxnym3

We will try to arrange groups according to your preferred topics

Questions?

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