

This is to certify that  
Luca Torello Pianale  
has successfully taken part in

## Introduction to biostatistics and machine learning

Held Online, 4-8th October 2021

The course consisted of lectures, exercises and group discussions. The following subjects were covered in the lectures and exercises:

- Descriptive statistics
- Probability theory
- Statistical inference
- Linear regression methods
- Unsupervised learning: PCA and clustering
- Introduction to supervised learning
- Model selection and regularization
- Random Forest

Examination:

Active participation during lectures, group sessions and practical exercises

The course was arranged by the National Bioinformatics Infrastructure Sweden (NBIS) at Science for Life Laboratory (SciLifeLab).

2021-10-08

Olga Dethlefsen, PhD  
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Science for Life Laboratory  
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