

This is to certify that

Dhanapal Govindaraj

has successfully taken part in

## ChIP-seq data analysis

Held in Stockholm, 23-24 November 2017

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

- Quality controls of raw sequencing reads
- Reads trimming and filtering
- Alignment to the reference genome
- Peak-independent quality metrics
- Peak calling
- Peak-dependent quality metrics and visualization
- Differential binding analysis
- Common down-stream functional analysis

Examination: Presence during all the lectures and computer/practical exercises

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

The course is accepted as 1 hp university credits.

Stockholm, 24 November 2017

Olga Dethlefsen, PhD  
National Bioinformatics Infrastructure Sweden  
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