ChIP-seq data analysis

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https://nbis.se/about/staff/

Agata Smialowska

Olga Dethlefsen

John Sundh

Jakub Orzechowski Westholm

Diana Ekman

NBIS

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NBIS
NATIONAL BIOINFORMATICS INFRASTRUCTURE SWEDEN

NBIS is a distributed national bioinformatics infrastructure, supporting life sciences in Sweden

Vetenskapsrådet   SciLifeLab   Linköping University   CHALMERS   UNIVERSITY OF GOTHENBURG   Karolinska Institutet   KTH VETENSKAP OCH KONST   LUND UNIVERSITY   Naturhistoriska riksmuseet   SLU   Stockholm University   UMEÅ UNIVERSITET   UPPSALA UNIVERSITET   Knut and Alice Wallenberg Foundation

Support

Support services ranging from short consultation, consultancy to long-term embedded bioinformaticians.

Infrastructure

Providing infrastructure in the form of services, computational resources, tools and guidelines to the life science community.

Training

Training events in advanced and applied bioinformatics.

INFRASTRUCTURE SERVICES

Infrastructure units A-Z ⌄

Genomics

Proteomics

Metabolomics

Single Cell Biology

Bioimaging and Molecular Structure

Chemical Biology and Genome Engineering

Drug Discovery

Diagnostics

Bioinformatics

National Bioinformatics Infrastructure (NBIS)

Provides custom-tailored support with data analysis, computational tools, systems development and training.

More information

BioImage Informatics

Provides support and education in image analysis. Develops methods for analysis of images of biological processes and give advice on best-practice.

More information

Wednesday 2018-11-07

Room: Fire, Gamma 2

08.45 - 09.00 pre-course coffee

09:00 - 09.15 Welcome (Olga, Agata)

09.15 - 10.15 Lecture: ChIP-seq data analysis principles (**Agata**)

10.15 - 10.30 Discussion: getting to know each other (Agata, Jakub, **Olga**)

10.15 - 10.45 Introduction to practicals I: data processing (Agata, Jakub, **Olga**)

10.30 - 12.00 Practicals: ChIP-seq data processing (Agata, Jakub, Olga, John/Diana)

12.00 - 13.30 *lunch*

13.30 - 17.00 Practicals: ChIP-seq data processing (Agata, Jakub, Olga, John/Diana)

Thursday 2018-11-08

Room: Fire, Gamma 2

09:00 - 09.30 Discussion: ChIP-seq data processing (**Agata**, Jakub, Olga)

09.30 - 10.30 Introduction to practicals II:

- differential binding (Olga)
- functional annotations (Olga)
- motifs (Jakub)
- broad peaks (Agata)

10.30 - 12.00 Practicals: downstream analysis (Agata, Jakub, Olga, John/Diana)

12.00 - 13.30 *lunch*

13.00 - 14.00 Lecture: case study and beyond (all the interesting things) (**Jakub**, Agata)

Parallel session

13.30 - 17.10 Practicals: downstream analysis (John/Diana)

13.30 - 17.00 Discussion: bring your own project (Agata, Jakub, Olga)

Friday 2018-11-09

Room: Fire, Gamma 2

09.00 - 10.00 Introduction to SciLifeLab NGI ChIP-seq pipeline (Phil Ewels)

10.00 - 10.30 Discussions: downstream analysis

10.30 - 11.00 Introduction to practicals III

- exo-spike (Agata)
- public data resources (Jakub)

11.00 - 12.00 Practicals: downstream analysis (Agata, Jakub, Olga, John/Diana)

12.00 - 13.30 *lunch*

13.30 - 14.30 Practicals: downstream analysis (Agata, Jakub, Olga, John/Diana)

14.30 - 17.00 Discussion & wrap-up (**Agata**, Jakub, **Olga**)

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coffee and snacks will arrive twice a day

lunch will be at: Svarta Räfven

https://nbisweden.github.io/workshop-ChIP-seq/