Introduction to ChIP-seq workshop

Introduction to ChIP-seq analysis

(April 29th - 30th, 2019)

Description:
This 2-day hands-on workshop will instruct participants on how to efficiently manage and analyze ChIP-seq data starting from sequence reads through to peak calling, finishing with visualization and functional assessment of identified genomic regions.

Prerequisites?
This is one of our advanced workshops, and requires registrants to have attended the following Basic workshops (or similar) offered by our training team within the last 6-8 months:

- Introduction to command-line interface workshop
- Introduction to R

If you have not taken the above workshops with us, but are already fluent with R and shell/bash and already use HMS-RC's O2 cluster, please do the following:

- Complete the registration first
- Then email us directly at hbctraining@hsph.harvard.edu with a description of your knowledge/experience.

Who should attend?
Eligible* Harvard researchers who want to learn:

1. How to design a good ChIP-seq experiment
2. The analysis workflow starting with raw ChIP-sequencing data (Illumina) and identifying significantly enriched regions ("calling peaks")
3. How to compute and assess QC metrics and make subsequent decisions at every step in the workflow
4. How to visualize and qualitatively assess the quality of the called peaks
5. How to take genomic regions and generate biologically-relevant information, i.e. annotation and functional analysis.

Eligibility Requirements:

*To be eligible to attend this workshop you should fulfill at least one of the following criteria:

- Harvard Medical School researcher in a lab on the Quad, with grants administered by HMS OR
- Harvard researchers whose PIs are associated with the HSCI as Principal or Affiliated faculty.

If you are unsure of your eligibility, please register anyways and we will get back to you

Please check the eligibility requirements prior to registering.

Register here!

Schedule:
9 AM - 5 PM on Monday, April 29th and Tuesday, April 30th.

There will be 2 short coffee breaks during the day and a longer lunch break (lunch will not be provided).

Cost and Registration:
There is a non-refundable $65 registration fee for this workshop.
We will be accepting 20-25 participants on a first-come, first-served basis:

- If you are one of the first 20-25 eligible* registrants, you will receive an email with a link to pay the (non-refundable) $65 registration fee.
- If you are not among the first 20-25 eligible* registrants, you will be added to the waitlist and accordingly notified.

NOTE: You will not have a reserved seat for this workshop until you pay the registration fee. Please make sure you pay within the time stated in that email, else you will lose your spot to someone on the waitlist.

Register here!

Questions?

Please contact us at hbctraining@hsph.harvard.edu with any questions.