[HMS/HSCI] Introduction to single-cell RNA-seq data analysis (2-day advanced workshop)

Introduction to single-cell RNA-seq data analysis

Next workshop dates:

Thursday, February 27th: 9 AM - 4 PM
Friday, February 28th: 9 AM - 5 PM

Note: Registration will open about 3 weeks prior to the workshop dates, and the dates/times above may be updated at that time.

Description:
This 2-day hands-on workshop will instruct participants on how to design a single-cell RNA-seq experiment, and how to efficiently manage and analyze the data starting from count matrices. This will be a hands-on workshop in which we will focus on using the Seurat package in R.

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

- Introduction to R

If you have not taken the above workshop with us, but are already fluent with R, 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 single-cell RNA-seq experiment
2. Discussion of the steps involved in taking raw single-cell RNA-sequencing data and generating a count (gene expression) matrix
3. Hands-on tutorials on how to use the Seurat package to analyze single-cell RNA-seq count matrices
4. How to compute and assess QC metrics at every step in the workflow
5. How to cluster cells based on expression data and derive the identity of the different cell types present
6. How to perform integration of different sample conditions

Cost and Registration:
There is a non-refundable and non-transferable $65 registration fee for this advanced workshop.

We will be accepting 20-30 participants on a first-come, first-served basis:

- If you are one of the first 20-30 eligible* registrants, you will receive an email with a link to pay the (non-refundable & non-transferable) $65 registration fee.
- If you are not among the first 25-30 eligible* registrants, you will be added to the waitlist and notified when we open registration for the next iteration of this workshop.

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.

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
- Harvard researchers whose PIs are associated with the HSCI as Principal or Affiliated faculty

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

Registration is closed.
Questions

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