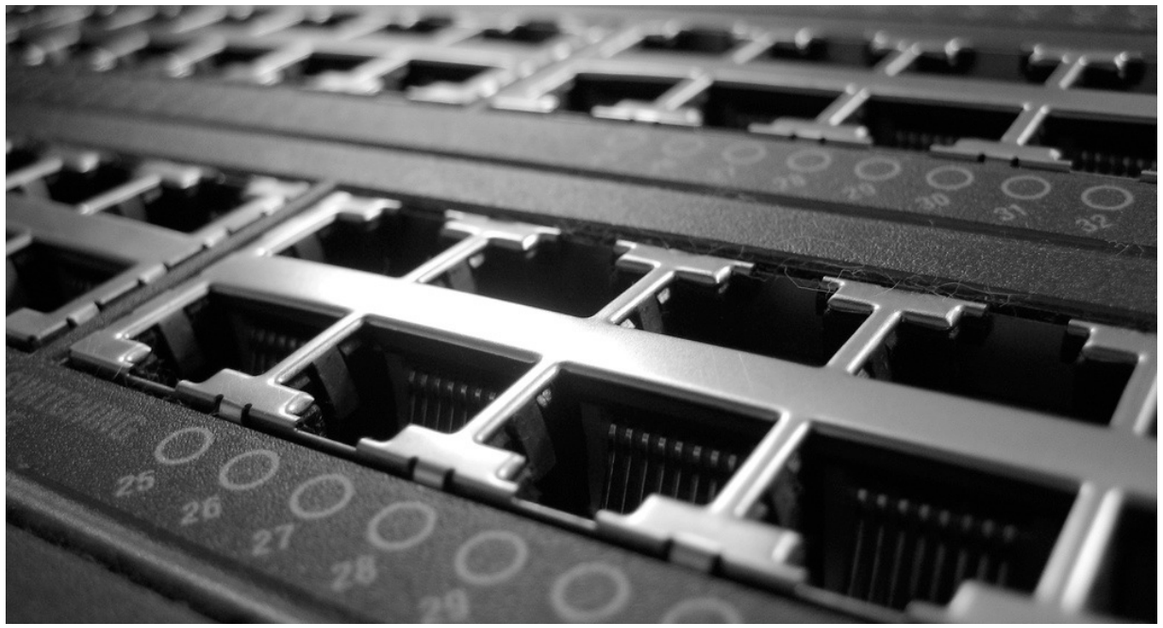


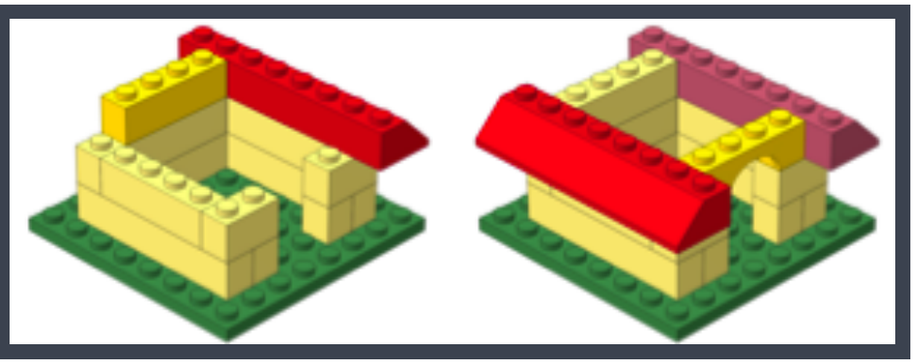
Introduction to Single-cell RNA-seq analysis

Harvard Chan Bioinformatics Core

HBC
Harvard Chan Bioinformatics Core

https://tinyurl.com/hbc-scrnaseq-online

Learning Objectives



- ✓ Describe best practices for designing a Single-cell RNA-seq experiment
- ✓ Describe steps in a Single-cell RNA-seq analysis workflow.
- ✓ Use Seurat and associated tools to perform analysis of single-cell expression data, including data filtering, QC, clustering, and marker identification

Useful Resources

Computational packages for single-cell analysis:

http://bioconductor.org/packages/devel/workflows/html/simpleSingleCell.html

https://satijalab.org/seurat/

https://scanpy.readthedocs.io/

https://github.com/seandavi/awesome-single-cell

Online courses:

https://hemberg-lab.github.io/scRNA.seq.course/

https://github.com/SingleCellTranscriptomics

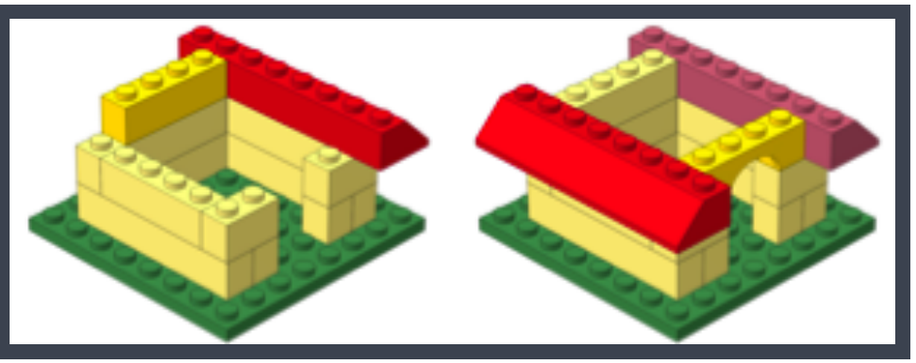
Resources for scRNA-seq Sample Prep:

https://www.protocols.io/

https://support.10xgenomics.com/single-cell-gene-expression/sample-prep

https://community.10xgenomics.com/

Survey



https://tinyurl.com/scRNAseq-online

Upcoming short workshops

HBC's monthly short workshops

- **Hands-on workshops** on bioinformatics methods & related skills
- Once a month for 3 hours
- **Free and open to everyone at Harvard University and its affiliates**
- Will meet **online via Zoom**
- **Sign up at the links below to receive the workshop Zoom link**

Spring 2020 Schedule:

Topic and link to description	Date	Time	Sign up link	Prerequisites
Introduction to Python - online	July 29th	1 PM	**Sign up here!!**	None

https://bioinformatics.sph.harvard.edu/training/

Thanks!

- Luciano Martelotto, HMS

Contact us!

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