

# Genomic Medicine

PhD block course for the PhD Program Molecular and Translational Biomedicine  
November 27 – December 1 2017 in Zurich

## Student Exercise 8

**E Papalexi, R Satija. Single-cell RNA sequencing to explore immune cell heterogeneity. Nat Rev Immunol, 2017.**

doi: 10.1038/nri.2017.76

### Assignment:

1. Read the paper and discuss it in your group.
2. Prepare a 10 min presentation of the paper.
3. Compile a list of tissues (or cell populations) for which scRNA-seq appears relevant for the pathology of a disease. For one instance:
  - a. Explain the connection to disease
  - b. Sketch the scRNA-seq experiment to be done
  - c. Discuss how limitations in experimental design, cell isolation, amplification, and data analysis affect your chances of impacting diagnostics or treatment of the disease.

After your presentation there will be a discussion of 10-15 min.

**Note: All time limits are sharp – we will interrupt you.**