

Genomic Medicine

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

Student Exercise 5

Nicola Crosetto, Magda Bienko and Alexander van Oudenaarden. Spatially resolved transcriptomics and beyond. Nat Rev Genet 16, 2015.

doi:10.1038/nrg3832

Assignment:

1. Read the paper and discuss it in your group.
2. Prepare a 10 min presentation of the paper.
3. Discuss in your group the opportunities and challenges of spatially resolved omics and develop and present in 5 min a research project idea that makes use of these new technologies:
 - a. What kind of research questions can be answered with the new technologies? Which ones do you consider scientifically or clinically relevant?
 - b. For example, how could the technology be applied to solid tumors and what could be learned from it?
 - c. What requirements do you envision for data management, data integration, and computational modeling with the emerging novel datasets?

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

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