Molecular classification of cells in the mouse brain revealed by single-cell RNAseq

You are cordially invited to the lecture given by:

Dr. Amit Zeisel
Karolinska Institute, Stockholm
Sweden

On the topic of:

Molecular classification of cells in the mouse brain revealed by single-cell RNAseq.

The lecture will be held on Wednesday December 14, at 16:00
at the Faculty Club
Silberman Bldg., 3rd Wing, 3rd Floor, Edmond J. Safra Campus

Light refreshments at 15:45

Abstract:
The mammalian central nervous system is arguably the most complex system studied in biology. Normal function of the brain relies on the assembly of a diverse set of cell-types, including most prominently neurons, but also glial cells and vasculature. We developed and applied large-scale single-cell RNA
sequencing for unbiased molecular cell-type classification in various regions of the mouse brain. I will
describe our initial work on the somatosensory cortex and hippocampus CA1, and later give examples
about heterogeneity in the oligodendrocyte lineage across the CNS. These results and our ongoing efforts
demonstrate how detailed information about cell-types in the brain may contribute to understand brain
function.

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