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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