



Generating mammalian cerebral cortex, 1 ECTS

The course is based on

- Journal club (one article of prof. Jeffrey Macklis). 10h preparation, 2h discussion
- Jeffrey Macklis Viikki Monday seminar 11.9 at 15.15-16.00, 1h
- Jeffrey Macklis presentations and interactive discussion with students 12.9 at 9.00-12.00, 3h
- Student lunch with Prof. Macklis in Viikki 12.9, 1h
- Writing up a learning diary, 2h
- Discussion and return of the learning diary, 2h

24 students are selected for the course based on motivation and previous work history on stem cells. Students are divided into two groups and mentored either by Dr. Kert Mätlik, Dr. Maxim Beshpalov or Dr. Mikko Airavaara. For the journal club the article and questions related are given in advance and we expect the students to spend about 10 hours before the 1st meeting. Jeffrey Macklis Monday lecture as well as lectures on Tuesday, and group meetings are mandatory. The students are expected to write learning diary (1 page, font 12, single space) which is discussed in the last meeting and returned. Space for the small groups are limited.

Articles for journal club:

[Greig LF, Woodworth MB, Galazo MJ, Padmanabhan H, Macklis JD \(2013\) Molecular logic of neocortical projection neuron specification, development and diversity. Nat Rev Neurosci. 14\(11\):755-69. doi: 10.1038/nrn3586](#)

[Greig LC, Woodworth MB, Greppi C, Macklis JD \(2016\) Ctip1 Controls Acquisition of Sensory Area Identity and Establishment of Sensory Input Fields in the Developing Neocortex. Neuron 90\(2\):261-77. doi: 10.1016/j.neuron](#)

The course is sponsored by:

- Monday Viikki Lectures

