



State-of-the-art cellular methods training

Thursday, 28 November

Morning section:

- 9:00 – 9:30 *Julianna Kobolák*: Basics of stem cell biology different types of pluripotent cells: naïve and primed pluripotency
- 9:30 - 10:00 *Balázs Sarkadi & Ágota Apáti*: Human embryonic stem cells
- 10:00 – 10:30 *Pawan Sing & Alexandra Blak*: Specialized Media and Tools for Blood and Pluripotent Stem Cells (STEMCELL Technologies)

15 min break (refreshment, coffee)

- 11:00-11:30 *Julianna Kobolák*: Cellular reprogramming
- 11:30- 12:00 *Anita Fehér*: Gene targeting and transgenic techniques: knock-in, knock-out, knock-down, transgenesis with different vectors
- 12:00 – 12:30 Stems cells in birds

12:30 – lunch time

Afternoon section:

- 14:00 – 14:30 *Elen Góczya*: Rabbit stem cells and their applications
- 14:30 – 15:00 *László Homolya*: Mesenchymal stem cells
- 15:00 – 15:30 *Csilla Nemes*: Cardiac stem cells

15 min break (refreshment, coffee)

- 15:45 – 16:14 *Sara Santos Franco*: The cancer stem cell theory: what might the “Cancer Stem Cell niche” mean?
- 16:00- 16:30 *Hadas Raveh-Amit*: Epiblast stem cells (EpiSC): new tools and possibilities
- 16:30 – 17:00 Discussion



iPS cell technology training

Friday, 29 November

Morning section:

9:00 – 9:45 *Csilla Nemes*: iPS cells – a review

9:45 - 10:30 *Eszter Varga*: How are iPS cells generated?

10:30 – 11:00 *Alberto Miranda Bedate*: Chemically Induced Pluripotent Stem Cells: a promising technology in the iPS field

15 min break (refreshment, coffee)

11:15-11:45 *Sára Berzsenyi*: iPS cell differentiation towards neurons

11:45-12:15 *Hadas Raveh-Amit*: EMT - the Epithelial Mesenchymal Transition

12:15- 12: 30 *Csilla Nemes*: Discussion

12:30 – lunch time

Afternoon section:

14:00 – 15:00 *Csilla Nemes & Eszter Varga*: iPS cell generation from blood and fibroblasts – technical advices

15:00 – 17:00 Practical course

17:00 – 17:20 Final discussion