

Developmental Biology II 2020/21 (spring semester)

Director of course: Nándor Nagy, PhD

Code: AOVANT834_2A **Credit points:** 2 **Type of course:** elective

Topics of the course: Molecular regulation of ontogeny and developmental malformations. Teratogenesis.

Place and time of course: Huzella Auditorium in the Department of Anatomy, Histology and Embryology
(Tűzoltó u. 58), second floor, every Thursday, 16:30-18:00.

Due to the pandemic situation the lectures will be held online, via Zoom, the link is available at the Moodle site of the course:

<https://itc.semmelweis.hu/moodle/course/view.php?id=4517>

1. Neural stem cells I: Neural crest cells
18th February (Nandor Nagy)
2. Neural stem cells II: pattern formation of neural tube, development of the nervous system
25th February -(Krisztina Herbert-Minkó)
3. Neural stem cells III.: Trunk neural crest: Development of the enteral nervous system.
4th March (Nándor Nagy)
4. Neural stem cells IV: Cranial neural crest: development of skull
11th February (Nándor Nagy)
5. Vasculogenesis, early hemopoiesis and its molecular regulation
18th March (Krisztina Herbert-Minkó)
6. Somitogenesis, molecular regulation of paraxial mesoderm development
25th March (Dávid Dóra)
7. Epithelial-mesenchymal interaction (EMI) development of lung and glands
1st April (Katalin Kocsis)
8. Epidermal stem cells
8st April (Nora Pecsénye-Fejszak)
9. Intestinal stem cells
15th April (Viktoria Halasy)
10. Early development of the heart, molecular changes accompanying the heart field development
22th April (Ildikó Bódi)
11. Development of pancreas and liver
29th April (Katalin Kocsis)
12. Molecular regulation of limb development
6th May (Nándor Nagy)
13. Molecular background of the thymus development, Epithelial-mesenchymal interaction
13th May (Ildikó Bódi)
14. Organoids
20th May (Tamás Kovács)