

Developmental Biology II 2019/20 (spring semester)

Director of course: Nándor Nagy, PhD

Code: AOVANT457_2A **Credit points:** 3 **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 (Tüzoltó u. 58), second floor, every Thursday, 16:30-18:00.

1. Neural stem cells: pattern formation of neural tube, development of the nervous system
6th February -(Krisztina Herbert-Minkó)
2. Placods and their derivatives
13th February (Imre Oláh)
3. Neural stem cells II.: Neural crest and its derivatives. Development of the enteral nervous system.
20th February (Nándor Nagy)
4. Neural stem cells III: Cranial neural crest, development of skull
27th February (Nándor Nagy)
5. Vasculogenesis, early hemopoiesis and its molecular regulation
5th March (Krisztina Herbert-Minkó)
6. Somitogenesis, molecular regulation of paraxial mesoderm development
12th March (Dávid Dóra)
7. cancelled
8. Epithelial-mesenchymal interaction (EMI) development of lung and glands
26st March (Katalin Kocsis)
9. Epithelial-mesenchymal interaction (EMI); development of the kidney
2nd April (Imre Oláh)

Spring holiday

10. Early development of the heart, molecular changes accompanying the heart field development
16th April (Ildikó Bódi)
11. Development of pancreas and liver
23rd April (Katalin Kocsis)
12. Molecular regulation of limb development
7th May (Nándor Nagy)
13. Molecular background of the thymus development, Epithelial-mesenchymal interaction
7th May (Ildikó Bódi)
14. Organoids
14th May (Tamás Kovács)