Developmental Biology II. (Principles of regenerative medicine)
2024/25 (spring semester)

Director of course: Prof. Nándor Nagy
Code: AOVANT834_2M **Credit points:** 2 **Type of course:** elective
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.

1. Introduction to principles of regenerative medicine
   13th February (Nandor Nagy)

2. Neural stem cells I: Neural crest cells
   20th February (Nandor Nagy)

3. Neural stem cells II: neural crest: Development of the enteral nervous system, congenital diseases.
   27th February (Nándor Nagy)

4. Neural stem cells III: Cranial neural crest and congenital skull malformations
   06th March (Nándor Nagy)

5. Vasculogenesis, angiogenesis, hemopoiesis
   13th March (Nándor Nagy)

6. Stem cells of the trunk: somitogenesis, paraxial mesoderm development
   20th March (Dávid Dóra)

7. Epithelial-mesenchymal interaction in lung and glands development
   27th March (Katalin Kocsis)

8. Intestinal stem cells: theoretical and therapeutic importance
   03th April (Viktoria Halasy)

9. Epidermal stem cells: theoretical and therapeutic importance
   10st April (Nora Pecsenye-Fejszák)

10. Limb development and malformations
    01th May (Nándor Nagy)

11. Development of kidney
    24th April (Nándor Nagy)

12. Holiday
    01th May (no lecture)

13. Stem cells in vitro (neurosphere technique). Organoids and they place in regenerative medicine
    08th May (Ádám Soós, Emőke Szőcs)

14. Development of pancreas and liver
    15th May (Katalin Kocsis)