

## **Syllabus**

1. The molecular developmental aspect of medical biology.
2. General mechanisms of embryonic development.
3. The formation of body pattern (polarity, segment polarity, body domains) and appendix development.
4. Cell movement and body formation in vertebrates, neural development.
5. The formation of epidermis, and its renewal from stem cells.
6. Sensory epithelia, airway system, gut and liver development.
7. Blood vessels, endothelial cells, multipotent stem cells and blood cell renewal.
8. Fibroblasts and their transformations. Movement and muscle types. The origin and potency of stem cells.
9. Cancer as a micro evolutionary process.
10. Tumour formation and its molecular background.
11. The molecular biology of nutrition and life span.

**Lecturer:** Ernő Zádor PhD, assoc. prof.

**Kredit:** 2 (2 hrs/ week)

**Handout:** in print

**Place:** Biochemistry seminary room

**Time:** Friday 12-14