

Topics for PhD programme admission. 2025-2026

Ph.D. Supervisor: Prof. Dr. Habil. Manuela Banciu

1. Nucleic acids: structure and function
2. Energy metabolism in eukaryotic cells.
3. Intercellular communication in tumor microenvironment.

Bibliography:

- Alberts B., Johnson A., Lewis J., Wilson J.H., Hunt T., Molecular biology of the cell. Garland Science, Taylor & Francis Group, 2015.
- Lodish H.F., Berk A., Kaiser C.A., Molecular cell biology. W.H. Freeman and Co., New York, 2013.
- Nelson D.L., Cox M.M., Lehninger principles of biochemistry. W. H. Freeman, New York, 2005.
- Semeradtova A, Liegertova M, Herma R, Capkova M, Brignole C, Del Zotto G. Extracellular vesicles in cancer's communication: messages we can read and how to answer. Mol Cancer. 2025;24(1):86.
- Patras L, Banciu M. Intercellular Crosstalk Via Extracellular Vesicles in Tumor Milieu as Emerging Therapies for Cancer Progression. Curr Pharm Des. 2019;25(17):1980-2006.