

Subject card

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| Subject name and code | Basics of immuno-oncology and cancer immunotherapy, PG_00117659 | | | | | | |
| Field of study | Biology | | | | | | |
| Date of commencement of studies | October 2024 | | Academic year of realisation of subject | | | 2025/2026 | |
| Education level | postgraduate studies | | Subject group | | | Obligatory subject group in the field of study Optional subject group | |
| Mode of study | full-time studies | | Mode of delivery | | | at the university | |
| Year of study | 2 | | Language of instruction | | | Polish Polish | |
| Semester of study | 3 | | ECTS credits | | | 1.0 | |
| Learning profile | academic | | Assessment form | | | | |
| Conducting unit | Pracownia Biochemii Białek i Kwasów Nukleinowych -> Katedra Biochemii Ogólnej i Medycznej -> Faculty of Biology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. Dorota Żurawa-Janicka | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 15 | | 2.0 | | 8.0 | 25 |
| Subject objectives | Understanding the role of the immune response in oncogenesis at the cellular and molecular level and the strategies used in cancer immunotherapy | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [BIOLMU2_W03] the graduate knows and understands research problems at the frontiers of biological sciences that require the use of advanced tools | - knows the structure of the elements of the immune system and describes the functional relationships between the mechanisms of the immune response and oncogenesis at the cellular, tissue, organ, and organismal levels (B2_W01) | [SW4] test/exam - oral or written |
| | [BIOLMU2_U06] the graduate is able to use the acquired expertise in the biological sciences to interpret the collected empirical data and to make inferences | - can fluently use scientific literature in the field of immunology and cancer immunology (B2_U02) | [SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written |
| | [BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences | - understands the course of specific and non-specific immune response processes and their use in modulating the immune response in the treatment of cancer (B2_W02) | [SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion |
| | [BIOLMU2_K01] the graduate is ready for initiative and independence of action and feels the need for lifelong learning | - is ready to systematically update knowledge in the field of immunology and information about its practical applications (B2_K07) | [SK1] oral statement/conversation/discussion |
| [BIOLMU2_U08] the graduate is able to present research work in the field of the selected specialisation of biological sciences using verbal communication means and multimedia | - understands and knows the dynamic development of research directions in the field of cancer immunotherapy (B2_U05) | [SU4] test/exam - oral or written | |
| Subject contents | Introduction to cancer immunology, including tumor-associated antigens, specific and non-specific elements of the anti-tumor response. Immunological mechanisms promoting oncogenesis. Cancer immunotherapy: specific immunotherapy - anticancer vaccines, specific monoclonal antibodies, adoptive T-cell therapy; non-specific methods, including those based on cytokines and immunostimulants. Immunotherapy targeting immune checkpoints. Immunotherapy in the treatment of selected cancers. | | |
| Prerequisites and co-requisites | Completion of courses: Biochemistry, Basics of molecular and cellular immunology. Knowledge of the structure and properties of basic types of biological macromolecules, molecular mechanisms of the flow of genetic information and the regulation of its expression. | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | final test | 51.0% | 100.0% |
| Recommended reading | Basic literature | The lecture is an original study of issues related to cancer immunology and currently used experimental and clinical strategies for cancer treatment. The lecture was prepared on the basis of research and review articles and experience from research on the biology of cancer and diseases resulting from immune system dysfunction. Other sources: Cellular and Molecular Immunology, Abbas et al., 10 th Ed., Elsevier Inc. 2022. Immunology. Male et al., Elsevier Inc. Urban & Partner, 2008. Janeways Immunobiology, Murphy et al., 9th Ed. Garland Science, 2017. Immunoologia, Wysocki et al. via Medica, 2019 Original and review articles from scientific journals | |
| | Supplementary literature | Original and review articles from scientific journals | |
| | eResources addresses | Adresy na platformie eNauzanie: | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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