Title:	**Cancer immunology and immunotherapy**
Lecture hours:	15 hours, conversatory classes
Study period: (summer/winter)	winter
Number of credits:	3
Assessment methods:	Test
Language of instruction:	English
Prerequisites:	Immunology, cell biology, biochemistry
Course content:	Lecture 1: Proper functioning of immune system. Brief introduction to the cancer immunology. Lecture 2: Anti-cancer properties of immune system. Lecture 3: How cancer cells evade immune system? Lecture 4: Cancer microenvironment and its influence on cancer cells and immune system. Lecture 5: Anti-Cancer vaccines – myth or promising approach? Lecture 6: Immunomodulation methods as an important player in fighting cancer. Lecture 7: Delivery strategies for immunotherapy
Learning outcomes:	Upon completing the course, students will have gained comprehensive knowledge of current advancements in cancer immunotherapy and the interactions between cancer and the immune system. They will be able to search and critically analyze scientific literature on cancer immunology and immunotherapy, and effectively justify the rationale for using immunotherapy in cancer treatment. Additionally, students will develop the ability to identify factors contributing to the global rise in cancer cases and appreciate the significance of complementary anti-cancer treatments alongside traditional therapies.
Name of lecturer	Henryk Mikołaj Kozłowski, PhD
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Literature:	• Nima Rezaei, Cancer Immunology. A Translational Medicine Context. Springer Cham, Switzerland 2020. DOI: https://doi.org/10.1007/978-3-030-30845-2 • Mansoor Amiji, Lara Milane. Cancer Immunology and Immunotherapy. Volume 1 of Delivery Strategies and Engineering Technologies in Cancer Immunotherapy. Academic Press, 2021 • Glenn Dranoff, Cancer Immunology and Immunotherapy. Springer; 2011th edition