**Lecture**

**Molecular basis of tumors**

Winter semester 2025/2026

(obligatory lecture)

The lecture will take place on Wednesday (online) according to the schedule below

Persons responsible: prof. **dr hab. Maciej Giefing, dr hab. Małgorzata Jarmuż-Szymczak prof. IGC**

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| **Data** | **Topic**  (*Solid tumors*) |
| 08.10.2025  **9:00 - 9:45** | Introduction to carcinogenesis, **1 class time**  *(dr hab. Katarzyna Kiwerska)* |
| 15.10.2025  **9:00 - 10:30** | Molecular alterations in solid tumors, ***2 class time*** *(dr Magdalena Kostrzewska-Poczekaj / dr Kinga Bednarek)* |
| 22.10.2025  **9:00 -9:45** | Modern treatment of solid tumors, **1 class time**  (*prof. Małgorzata Wierzbicka*) on-line |
| 29.10.2025  **9:00 -10:30** | microRNA in cancer genetics, **2 class time** (*dr Paulina Gałka-Marciniak*) |
| 05.11.2025  **9:00 - 9:45**  **10:00 – 10:45** | The importance of 3D *in vitro* and *in vivo* experimental models in understanding tumor biology and developing therapies, **1 class time**  (*dr hab. Iwona Ziółkowska-Suchanek)*  Spatial transcriptomics - bridging histopathology and genomics in cancer research, **1 class time** (*dr Szymon Hryhorowicz)* |
| 12.11.2025  **11:00 - 11:45** | Mutational signatures: from discovering the footprints of mutational processes to their clinical application, **1 class time**  *(prof. Reiner Siebert)* on-line |
| 19.11.2025  **9:00 - 10:30** | Hereditary cancers, ***2 class time***  *(dr hab. Bartłomiej Budny)* |
| 26.11.2025  **9:00 – 9:45**  **10:00 – 10:45** | Molecular mechanism of drug resistance in cancer cells of solid tumors, **1 class time**  *(prof. Radosław Januchowski)*  Modern diagnostics of solid tumors, **1 class time**  (*dr Katarzyna Kiwerska*) |
| **Data** | **Topic**  (*Hematologic neoplasms*) |
| 03.12.2025  **9:00 – 9:45** | The molecular basis of hematological neoplasm – introduction, **1 class time**  (*dr hab. Małgorzata Dawidowska, prof. IGC*) |
| 10.12.2025  **9:00 – 9:45** | The tumor microenvironment: an integral component of cancer. **1 class time**  *(dr Arjan Diepstra)* on-line |
| 17.12.2025  **9:00 – 9:45**  **10:00 – 10:45** | Epigenetics of hematologic neoplasms – Burkitt lymphoma, **1 class time**  (*dr hab. Agnieszka Dzikiewicz-Krawczyk, prof. IGC*)  Epigenetics of hematologic neoplasms – Hodgkin lymphoma, **1 class time**  (*dr Kinga Bednarek*) |
| 07.01.2026  **9:00 – 10:30** | Modern diagnostics of hematologic neoplasms, **1 class time**  (*dr hab. Małgorzata Jarmuż-Szymczak, prof. IGC*) |
| 14.01.2026  **9:00 – 9:45** | Molecular mechanism of drug resistance in cancer cells of hematologic neoplasms,  **1 class time**  *(prof. Dominik Dytfeld)* |
| 21.01.2026  **9:00 -10:30** | Modern treatment of hematologic neoplasms, **2 class time**  (*prof. Lidia Gil*) |