

PROGRAM

March 10, 2026

8:00 – 8:55 **REGISTRATION**

9:00 – 9:05 **Competition opening**

Category: POST-DOCS & UNDERGRADUATE STUDENTS

9:05 – 9:20 **Klein Lukas et al.**
Histone deacetylation inhibition promotes bi-directional subtype switch in pancreatic cancer.

9:20 – 9:35 **Trnkova Lenka et al.**
DNA methylation reprogramming in paclitaxel-resistant breast cancer.

9:35 – 9:50 **Wu Xueyan et al.**
An epigenetic reader directs cell fate in KRAS-driven early pancreatic lesions and progression.

9:50 – 10:05 **Moranova Ludmila et al.**
Electrochemical detection of BRAF V600E mutation in a liquid biopsy format.

10:05 – 10:20 **Pacalajova Maria et al.**
Aurora kinase A inhibition as a synthetic lethality strategy in ARID1A-mutated gastroenteropancreatic neuroendocrine carcinoma.

10:20 – 10:35 **Coffee break**

10:35 – 10:50 **Pos Ondrej et al.**
From non-invasive prenatal testing to cancer screening: a translational journey in cfDNA-based oncology.

10:50 – 11:05 **Szaboova Daniela et al.**
Analysis of the relative expression of *SIRT1* and *SIRT7* in patients with breast cancer.

11:05 – 11:20 **Heinzl Nicole et al.**
Gene expression profile changes in serous ovarian cancer patients with varying levels of p53 aggregates.

11:20 – 11:35 **Stefik Pavol et al.**
Breaking the defenses: Vitamins A & D leverage sphingolipid metabolism to potentiate chemosensitivity in leukemia cells.

11:35 – 11:50	Liener Jan Jozef et al. Extraction of xanthohumol and its epigenetic effects on pancreatic cancer cells <i>in vitro</i> .
11:50 – 12:40	Lunch
12:40- 12:55	Hasanin Ekram Hassan Pulmonary Adverse Events Associated with Trastuzumab Deruxtecan in HER2-Positive Metastatic Breast Cancer: A Real-World Analysis of the FDA Adverse Event Reporting System.
12:55 – 13:10	Tothova Michaela et al. HIF-1 α -dependent regulation of EMT under hypoxic conditions and its inhibition by hypericin.
13:10 – 13:25	Kovacsova Tamara et al. Effect of non-photoactivated hypericin in hypoxia on the migratory potential of lung carcinoma cells.
13:25 – 13:40	Naimushina Lada Experimental evaluation of intracellular effects of non-uniform irradiation for improving the radiobiological monitoring of radiotherapeutic exposure.
13:40 – 13:55	Vagovicova Barbora et al. Liquid biopsy – A biomarker for the diagnosis and treatment of brain tumors.
13:55 – 14:10	Maseda Pablo et al. A Trojan Horse approach to exploiting riboflavin uptake for targeted therapy in pancreatic cancer stem cells.
14:10	Coffee break
14:30 – 15:30	Jury – internal evaluation
CATEGORY	PhD STUDENTS
9:05 – 9:20	Fekiacova Adriana et al. Antibody-drug conjugates as a new therapeutic option in chemoresistant germ cell tumors.
9:20 – 9:35	TalacTomas et al. Targeted photothermal therapy of pancreatic cancer models using functionalized molybdenum oxide nanoparticles.
9:35 – 9:50	Bernatova Kamila et al. Advanced approaches to 3D models of ccRCC.

- 9:50 – 10:05** **Juhasikova Lucia et al.**
Organotypic slice cultures: A translational platform for therapy testing in pancreatic ductal adenocarcinoma.
- 10:05 – 10:20** **Simona Gazova et al.**
Combined treatment of propranolol and camptothecin differently affects mitochondrial function in breast and colorectal cancer cells.
- 10:20 – 10:35** **Kloc Dominik et al.**
ADCC activity of elotuzumab in chronic lymphocytic leukemia cell lines.
- 10:35 – 10:50** **Coffee break**
- 10:50 – 11:05** **Galvankova Kristina et al.**
Role of the sodium/calcium exchanger type 3 in cancer cells.
- 11:05 – 11:20** **Lukac Boris et al.**
Chromogranin A and its role in the epithelial-mesenchymal transition in early breast cancer.
- 11:20 – 11:35** **Hudaková Lucia et al.**
Low-dose hyperforin activates adaptive stress pathways in hypoxic colorectal cancer cells.
- 11:35 – 11:50** **Nikoleta Mojzesova et al.**
EGCG as a potential epigenetic regulator of ALDH1 expression and redox homeostasis in colorectal cancer.
- 11:50 – 12:05** **Samuel Rebecca Diya et al.**
STAT-driven transcriptional heterogeneity links immune plasticity to prognosis in pancreatic ductal adenocarcinoma.
- 12:05 – 12:55** **Lunch**
- 12:55 – 13:10** **Vanova Dajana et al.**
Tumor cell and mesenchymal stem cell-derived drug-engineered exosomes as an innovative approach for cancer therapy and prevention of the metastatic process.
- 13:10 – 13:25** **Vavrusakova Barbora et al.**
Targeting endoplasmic reticulum stress to overcome immunosuppression and enhance immunotherapy in ovarian cancer.
- 13:25 – 13:40** **Fried Aneta et al.**
High-sensitivity electrochemical detection of human cytomegalovirus in oncological diseases.
- 13:40 – 13:55** **Scasna Katarína et al.**
A novel CAIX–P-selectin interaction enhances metastatic potential via platelet coating of CTCs.

- 13:55 – 14:10** **Tsokkou Panagiota et al.**
Psoriasis-like disease prevents squamous skin tumor development by neutrophil-driven inflammation.
- 14:10** **Coffee break**
- 14:30 – 15:30** **Jury – internal evaluation**
- 15:30 – 16:00** **AWARD CEREMONY**
- 16:00 – 16:10** **Closing of the event**