XV. Diagnostic, Predictive and Experimental Oncology days

PROGRAM

Monday, 25 November

Madrid Hall

13:00 13:15 Ceremonial openning

Pathophysiology of cancer and molecular targets I

Chairs: Maddalena Fratelli, Marian Hajduch

15:15	15:45	COFFEE BREAK
14:45	15:15	Pan-cancer analysis of single nucleotide variants affecting N-glycosylation sequence motifs Miroslav Hruska
14:15	14:45	Role of CDK12 in the regulation of DNMT1 activity by altering expression of miR-152 Jiri Kohoutek
13:45	14:15	Low-sensitivity and drug-resistance to DNA-demethylating epi-drug decitabine in solid tumors: A challenge yet to overcome <i>Khushboo Agrawal</i>
13:15	13:45	Retinoic-acid promotes viral mimicry and antigen presentation in immunologically-silent breast-cancer cells Maddalena Fratelli

Pathophysiology of cancer and molecular targets II

Chairs: Pavel Moudry, Josef Srovnal

15:45	16:15	Ribosomal biogenesis factors in p53-dependent stress response Pavel Moudry
16:15	16:45	Bystin regulates c-myc on protein level Zuzana Maceckova
16:45	17:05	Stroma-cancer interaction in PDAC Pavol Szabo
17:05	17:25	Biological role of novel SNV of RPS7 in Diamond Blackfan anemia <i>Agata Kubickova</i>
17:25	17:45	The microenvironment of melanoma cells Barbora Dvorankova
17:45	18:00	Omega 3 fatty acid supplementation on NK cell cytotoxic activity and tumor reduction in rat Walker carcinoma model. Juan Bautista De Sanctis

Tuesday, 26 November

Madrid Hall

Cancer therapeutics I: Nanomedicine and imaging

Chairs: Milos Petrik, Petr Cigler

9:00	9:30	PSMA-based Cancer Theranostics Martina Benesova
9:30	10:00	Towards optimal nanobiointerface: molecular aspects of cellular targeting with nanoparticles Petr Cigler
10:00	10:30	Bimodal immunoradiotherapy using thermoresponsive polysaccharide-based polymers Martin Hruby

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10:30 10:45 99mTc-labeled hydroxyapatite nanoparticles as potential tracers for solid tumors

Zbynek Novy

10:45 11:15 COFFEE BREAK

New technologies in cancer research I

Chairs: Khushboo Agrawal, Karel Koberna

11:15	11:30	New sensitive method for the detection of mycoplasmas using fluorescence microscopy Karel Koberna
11:30	11:45	Hair follicles as a promising biological material and their use in basic research <i>Natalie Kudlova</i>
11:45	12:00	Can be human tears used as a source of brain proteins? Tomas Ozdian
12:00	12:15	A high-throughput, whole cell-based assay for cytotoxicity profiling of new chemical compounds Sona Gurska
12:15	12:30	Exhaled Breath Condensates proteomics as a tool to monitor condition of human lungs Jana Vaclavkova
12:30	13:30	LUNCH

Pathophysiology of cancer and molecular targets III

Chairs: Juan DeSanctis, Viswanath Das

13:30	14:00	MIDKINE as a novel tumor-secreted protein driving resistance to immune checkpoint blockade Daniela Carolina Cerezo-Wallis
14:00	14:30	3D cell cultures are more predictive in vitro tumor models for cancer drug discovery and development <i>Viswanath Da</i> s
14:30	14:45	Influencing Radiosensitizing Properties in Cancer Cells Miroslav Vetrik
14:45	15:15	COFFEE BREAK

New technologiesd in cancer research II

Chairs: Marian Hajduch, Martin Mistrik

15:15	15:45	Morphology-Driven High-Plex Spatial Analysis of Tissue Microenvironments with the GeoMx™ Digital Spatial Profiling Stephan McGoldrick
15:45	16:15	Microsatellite Instability (MSI) – Biomarker for Immuno - Oncology Research and Lynch Syndrome Screening <i>Mónica Sevillano</i>
16:15	16:45	Introduction to single molecule counting for ultrasensitive detection of protein biomarkers Stanislav Kukla
16:45	17:15	Multimodal Nuclear Hybrid Imaging in Translational Research Sebastian Eigner
17:15	17:45	Making Genius Simpler: Orbitrap Exploris 480, A New Quadrupole Orbitrap Mass Spectrometer <i>Maciej Bromirski</i>

19:00 23:00 SOCIAL EVENING (DINNER INCLUDED)

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Wednesday, 27 November

Madrid Hall

Cancer biomarkers and personalized medicine

Chairs: Jiri Drabek, Vladimira Koudelakova

9:00	9:20	Identification of circulating tumor cells (CTCs) in advanced breast cancer patients by EpCAM independent system CytoTrack. *Małgorzata Szostakowska-Rodzoś** **Table 1.5 **Table 2.5 **T
9:20	9:40	Determination of lung tumor mutation burden to predict the effects of immunotherapy with checkpoint inhibitors Rastislav Slavkovsky
9:40	10:00	HPVPro study: Comparison of HPV detection in cervical and cervicovaginal swabs Vladimira Koudelakova
10:00	10:20	Minimal Residual Disease Monitoring in Mantle Cell Lymphoma-from diagnosis to treatment Anna Fabisiewicz
10:20	10:40	In search for potential biomarkers: deregulation of microRNAs in oropharyngeal carcinoma Helena Kovarikova
10:40	11:00	Transcriptomic profiling in meningiomas for biomarker and molecular principles discovery Hanus Slavik
11:00	11:15	COFFEE BREAK

Cancer therapeutics II: Small molecules

Chairs: Petr Dzubak, Milan Urban

11:15	11:45	Disulfiram's anti-cancer activity reflects targeting NPL4, not inhibition of aldehyde dehydrogenase Zdenek Skrott
11:45	12:00	The impact of disulfiram on DNA replication dynamics in cancer cells Dusana Majera
12:00	12:15	Transformations of lupane triterpenes in the positon C-30: synthesis, cytotoxic activity, SAR <i>Milan Urban</i>
12:15	12:30	Triterpenoid Thiazoles: From Design and Synthesis to in vitro Biological Evaluation Lucie Borkova
12:30	12:45	Cytotoxic triterpenoid thiazoles induce apoptosis in CCRF-CEM cells via disruption of mitochondria <i>Ivo Frydrych</i>
12:45	13:00	Functional Screening of Adenosine Receptors: From Model Validation to Active Compound Identification Jana Kotulova
13:00	13:15	CLOSING REMARKS
13:15	14:15	LUNCH