**PROGRAM**

**Monday, April 24, 2023**

14:30 – 14:40 **Welcome**

**Chairpersons: Agapi Kataki and Lucia Kucerova**

14:40 – 15:15 ***Nuria Malats***

A germline whole genome methylation score to predict pancreatic cancer risk

15:15 – 15:45 ***Laura Garcia Bermejo***

EATRIS: a key European distributed Infrastructure for Translational Medicine

15:45 – 16:15 **Coffee break**

16:15 – 16:45 ***Bruno Sainz***

Advancements in the understanding and targeting of pancreatic CSCs: from bench to pre-clinical model

16:45 – 17:15 ***Bozena Smolkova***

 Epigenetic inhibitors in the treatment of solid tumors

17:15 – 17:45 ***Marina Cihova***

Experimental gene therapy mediated by extracellular vesicles in the treatment of PDAC

17:45 – 18:00 ***Verona Boucikova***

 Nanocarrier-mediated multimodal anticancer therapy

18:00 – 18:15 ***Maria Urbanova***

 Development of orthotopic pancreatic PDX models

18:15 – 19:15 **Dinner**

19:30 Social program ***Vcelovina*** (Mead and honey craft excursion)

**Tuesday, April 25, 2023**

**Chairpersons: Julie Earl and Bozena Smolkova**

8:30 – 9:00 ***Silvia Pastorekova***

Role of hypoxia and acidosis in cancer progression

9:00 – 9:30 ***Agapi Kataki***

Liquid Biopsy modalities in pancreatic cancer metastatic potential

9:30 – 9:45 ***Emma Barreto***

Comprehensive analysis of Familial Pancreatic Cancer (FPC) suggests a different molecular subtype of patients with PDAC

9:45 – 10:00 ***Lenka Trnkova***

Advanced in vitro models of pancreatic cancer

10:00 – 10:15 ***Ioanna Angelioudaki***

 Mutational and Circulating Biomarkers Landscape in pNENs

10:15 – 10:45 **Coffee break**

10:45 – 11:15 ***Lucia Kucerova***

 Circumventing chemoresistance in refractory tumors

11:15 – 11:45 ***Miroslava Matuskova***

Combinational therapy mediated by polyamidoamine dendrimers is efficient in colorectal cancer treatment

11:45 – 12:00 ***Alexandros-Georgios Tzingounis***

Immunoprofiling of pancreatic tissue microenvironment in cancer patients

12:00 – 12:15 ***Jorge Villalonlopez***

PANGENFAM: The Spanish Familial Pancreatic Cancer Registry

12:15 – 13:30 **Lunch**

**Chairpersons: Nuria Malats and Andrew Collins**

13:30 – 13:50 ***Silvia Tyciakova***

The role of mitochondria in colorectal cancer cells – overexpression of mitofusin-2 changing mitochondrial dynamics

13:50 – 14:10 ***Lucia Demkova***

Signaling pathways involved in metastasis

14:10 – 14:30 ***Viera Horvathova Kajabova***

DNA methylation changes in tumor progression

14:30 – 14:50 ***Zuzana Kozovska***

Gene editing of selective genes in gastrointestinal cell lines by CRISPR/Cas9 method

14:50 – 15:10 ***Martina Poturnajova***

Genetic editing of ALDH1 stem cell marker isoforms is linked to distinct cellular and molecular properties in colorectal cell lines

15:10 – 15:25 ***Efthymios Koniaris***

Pancreatic lesions: The spectrum of syndecan-1 expression

15:25 – 15:40 ***Peter Dubovan***

Surgical viewpoint of neoadjuvant therapy in pancreatic ductal adenocarcinoma

15:40 – 16:10 **Coffee break**

16:10 – 16:40 ***Andrea Babelova***

Periostin as a marker of chronic kidney disease progression

16:40 – 17:10 ***Elise Runden-Pran***

Glutamate oxaloacetate transaminase nanoparticles: A promising novel therapy for Ischemic stroke

17:10 – 17:25 ***Katarina Gercakova***

Animal models for gastrointestinal cancer

17:25 – 17:40 ***Nikoleta Mojzesova***

Effect of epigallocatechin gallate on the response of CRC-derived cells to chemotherapy

17:40 – 19:20 **Dinner**

19:30 – 22:30 Social program ***Majolika*** (Ceramics manufacture excursion), bus departure at 19:30

**Wednesday, April 26, 2023**

**Chairpersons: Bruno Sainz and Miroslava Matuskova**

8:30 – 9:05 ***Stefano Bonassi***

A roadmap for translating early effects biomarker results into clinical practice: From observational studies to randomized controlled trials

9:05 – 9:35 ***Maria Dusinska***

Recent updates in risk assessment of nanomaterials

9:35 – 10:00 **Coffee break**

10:00 – 11:30 ***VISION final meeting***

11:30 – 12:20 **Lunch**

 Social program:

1. Whole-day trip to ***Small Carpathia***, "lunch-to-go" will be provided, departure at ~10.0 am
2. ***Driny cave***, departure at 12:30

16:00 -16:30 **Refreshment**

19:00 **Conference dinner**

**Thursday, April 27, 2023**

**Chairpersons: Maria Dusinska and Stefano Bonassi**

9:00 – 9:35 ***Andrew Collins***

DNA damage and repair; possible predictors of cancer risk

9:35 – 9:55 ***Eleonora Longhin***

Hazard assessment of nanomaterials - meeting requirements for risk assessment

9:55 – 10:10 ***Michelle Muller***

Human-induced pluripotent stem cell-derived alveolar epithelial cells as a promising cell source for in vitro lung models

10:10 – 10:25 ***Lucia Balintova***

Biological safety of innovative nanocomposites with therapeutic potential

10:25 – 10:55 **Coffee break**

10:55 – 11:25 ***Thorsten Knoll***

Microfluidic platform for in vitro toxicity testing

11:25 – 11:45 ***Elisabeth Elje***

Genotoxicity assessment of nanomaterials in advanced lung models

11:45 – 12:00 ***Radka Macova***

Analysis of tissue structural and functional changes following biodistribution and accumulation of 10 nm gold nanoparticles with BSA coating in mouse

12:00 – 13:45 **Lunch**

**Chairpersons: Elise Runden-Pran and Thorsten Knoll**

13:45 – 14:05 ***Karin Danz***

Developing advanced blood-brain barrier models for pharmacological research

14:05 – 14:25 ***Tanima SenGupta***

*C. elegans* as a model system for assessing neurotoxicity

14:25 – 14:45 ***Barbora Svitkova***

Plate reader spectroscopy as an alternative to atomic absorption spectroscopy for the assessment of nanoparticle cellular uptake

14:45 – 15:00 ***Michaela Blazickova***

Comparison of the biological activity of thymol derivatives on 2D and 3D intestinal models

15:00 – 15:20 ***Michal Selc***

Anti-fibrotic effects of silymarin and silymarin-coated gold nanoparticles against hepatic fibrosis in mouse

15:20 – 15:30 **Closing the conference**

15:30 – 16:00 **Refreshment**

16:30 **Bus departure**