

Trends in Interdisciplinary Biosciences
Symposium of BioPickmol, CasProt and OPENMED projects

PROGRAMME:

13.1.2022 (14:00 h)

prof. RNDr. Pavol Sovák, CSc.: **Symposium opening** (10 min) – LIVE STREAM

doc. Mgr. Daniel Jancura, PhD.: **Organisational instructions** (10 min) - LIVE STREAM

SECTION – PERSONALIZED MEDICINE (14:45 h) LIVE STREAM

(50 min, 20 min/lecture)

Section host: prof. Ing. Mária Mareková, CSc.

prof. Ing. Mária Mareková, CSc.: **Personalized diagnosis of increased cardiovascular risk by specific clinical-biochemical methods**

Mgr. Martin Panigaj, PhD.: **Specific RNA conditioned activation of nanoparticles from nucleic acids**

BREAK

(25 min)

SECTION – PERSONALIZED MEDICINE (16:00 h) LIVE STREAM

(70 min, 20 min/lecture)

Section host: prof. Ing. Mária Mareková, CSc.

prof. MVDr. Juraj Pistl, PhD.: **Endemic and emergent zoonoses of bacterial and viral etiology in Slovakia**

RNDr. Enikő Račeková, CSc.: **Neural regulation of postnatal neurogenesis**

Press conference (17:00 h)

DINNER (18:00 h)

ROUND TABLE DISCUSSION (18:45 h) – NOT PUBLIC

(75 min)

STRUCTURAL FUNDS AND THEIR USE IN BIOMEDICAL RESEARCH

Hosts: doc. Mgr. Daniel Jancura, PhD., Ing. Silvia Medová

FREE DISCUSSION

14.1. 2022 (od 9:00 hod)

SECTION – REGENERATIVE MEDICINE AND CELL THERAPY (9:00 hod) LIVE STREAM

(90 min, 20 min/lecture)

Section host: RNDr. Tímea Špaková, PhD.

RNDr. Tímea Špaková, PhD.: **Human mesenchymal stem cells and their extracellular vesicles in the light of modern therapeutic strategy of regenerative medicine**

prof. Ing. Radovan Hudák, PhD.: **Additive and bioadditive production of scaffolds**

Ing. Tímea Lukšová: **Current development and direction of scientific research activities in**

connection with software and hardware systems for the analysis of 3D scans from medical scanning devices within activity no. 10

doc. MUDr. Matej Škorvánek, PhD.: **Early diagnosis of hereditary and degenerative extrapyramidal diseases**

BREAK (30 min)

SECTION – NANOMEDICINE AND TARGETED THERAPY (10:45 h) - LIVE STREAM

(90 min, 20 min/lecture)

Section host: prof. RNDr. Pavol Miškovský, DrSc.

RNDr. Veronika Huntošová, PhD.: **Native and synthetic transport systems for photosensitizers delivery in the process of photodynamic therapy of tumors**

doc. RNDr. Erik Sedlák, DrSc.: **Use of protein evolution methods in modifying enzymes properties**

doc. RNDr. Miroslava Martinková, PhD.: **Stereoselective synthesis and in vitro biological profile of sphingolipids based on cyclic pyrrolidine analogues**

MUDr. Zuzana Hrabovská, PhD.: **Current development and direction of scientific research activities in connection with the development of a new generation of photosensitive substances with anti-aging effect and their application in dermatology**

LUNCH (12:30 h)

(120 min)

SECTION – RESULTS AND EXPERIENCES OBTAINED DURING THE CASPROT PROJECT - LIVE STREAM

(LECTURES IN ENGLISH)

Section host: doc. Mgr. Daniel Jancura, PhD.

(90 min, 20 min/lecture)

doc. RNDr. Gabriel Žoldák, PhD.: **Single-molecule force spectroscopy of proteins**

RNDr. Veronika Džupponová: **Studying protein folding in Nanodiscs**

doc. RNDr. Erik Sedlák, DrSc.: **Protein evolution projects in CIB laboratories**

RNDr. Veronika Dzurillová: **Baculovirus expression system**

DINNER (18:00 h)

ROUND TABLE (90 min) - (NOT PUBLIC)

POSITION OF H2020 AND HORIZON EUROPE PROJECTS IN BIOMEDICAL RESEARCH IN KOŠICE

Section host: Ing. Ivan Pezlár

FREE DISCUSSION

15.1. 2022 (9:00 h)

SECTION – TECHNOLOGY TRANSFER (NOT PUBLIC)

(90 min, 20 min/lecture)

Section host: Mgr. Roman Oros

Mgr. Roman Oros: **SAFTRA photonics, story of a start-up from UPJŠ**

prof. RNDr. Pavol Miškovský, DrSc.: **PickMol technology**

doc. Mgr. Gregor Bánó, PhD.: **Development of Raman analyzers RAMASCOPE**

doc. RNDr. Gabriel Žoldák, PhD.: **Project BioPickmol and innovative protein engineering at Center for interdisciplinary biosciences**

LUNCH

15:00 h

CASPROT – GENERAL ASSEMBLY & PROJECT MANAGEMENT BOARD (NOT PUBLIC)

DINNER (18:00 h)

FREE DISCUSSION & NETWORKING (19:00 h)
