

Section 1 - Biochemistry, Pharmacology and Toxicology I: 30. Jan 2024, 11:00 – 15:30

CHAIRPERSONS: ASSOC. PROF. RNDR. JAKUB HOFMAN, PH.D., PHARMDR. ALEJANDRO CARAZO FERNÁNDEZ, PH.D.

11:00 - 11:15	BPT1	IN VITRO TESTING OF SELECTED CATECHOLS AND PHENOLS AS POTENTIAL ENDOCRINE-DISRUPTING AGENTS <i>RAUL ALVA GALLEGOS</i>
11:15 – 11:30	BPT2	ISORHAMNETIN AND TAMARIXETIN, COMPONENTS OF HAWTHORN, EXERT EX VIVO VASODILATORY EFFECTS IN PORCINE CORONARY ARTERY WHICH ARE MEDIATED BY L-TYPE CALCIUM CHANNELS <i>SAINA SAADAT</i>
11:30 – 11:45	BPT3	EVALUATION OF THE NLRP3 INFLAMMASOME IN THE PLACENTA: MOLECULAR ACTIVATION BY LPS, GLUCOSE AND METFORMIN <i>FIONA KUMNOVA</i>
11:45 – 12:00	BPT4	CHARACTERIZATION OF EX VIVO AND IN VITRO MODELS TO STUDY THE CROSSTALK BETWEEN THE ENDOCANNABINOID AND IMMUNE SYSTEMS IN THE PLACENTA <i>MOHAMMAD RIDA GHADDAR</i>
12:00 - 12:15	BPT5	THE EFFECT OF DIFFERENT NUTRIENT CONDITIONS ON THE FORMATION OF DUAL-SPECIES METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS AND CANDIDA ALBICANS BIOFILM <i>PAVLÍNA VÁVROVÁ</i>
12:15 – 12:30	BPT6	ANTHELMINTIC ACTIVITY OF ALBENDAZOLE ON C. ELEGANS WILD-TYPE AND IVERMECTIN-RESISTANT STRAINS <i>KAROLÍNA ŠTĚRBOVÁ</i>
12:30 – 13:30		BREAK

CHAIRPERSONS: ASSOC. PROF. PHARMDR. JANA POUROVÁ, PH.D., ASSOC. PROF. PHARMDR. LUKÁŠ ČERVENÝ, PH.D.

13:30 - 13:45	BPT7	PURINE AND PYRIMIDINE METABOLIC PATHWAYS IN THE PLACENTAL BARRIER <i>MARIIA SHOSTOPAL</i>
13:45 - 14:00	BPT8	MULIPLE EFFECT OF ADENOSINE, OTHER NUCLEOSIDES, AND ANTIRETROVIRALS IN THE PLACENTAL TROPHOBLAST <i>MOHAMMED ALI</i>
14:00 - 14:15	BPT9	ROLE OF CXCL14 IN AML AND CML <i>SIMONA DUDIČOVÁ</i>
14:15 – 14:30	BPT10	EFFICACY OF SELECTED TYROSINE KINASE INHIBITORS IN REVERSING PHARMACOKINETIC MULTIDRUG RESISTANCE: AN EX VIVO AND IN VIVO STUDY <i>YOUSSIF A YOUSSIF BUDAGAGA</i>
14:30 – 14:45	BPT11	ENDOGLIN BLOCKAGE IS CRUCIAL IN INFLAMMATION-INDUCED ENDOTHELIAL DYSFUNCTION IN VITRO <i>KATARÍNA TRIPSKÁ</i>

- 14:45 – 15:00 **BPT12** **BLOCKAGE OF ENDOGLIN PREVENTS ENDOTHELIAL DYSFUNCTION DEVELOPMENT IN TYPE 2 DIABETIC CORONARY ARTERY ENDOTHELIAL CELLS**
MARTINA VAŠINOVÁ
- 15:00 - 15:15 **BPT13** **MONOAMINE HOMEOSTASIS IN THE FETOPLACENTAL UNIT; EFFECT OF TROPHOBLAST DIFFERENTIATION AND PHARMACOTHERAPY**
VERONIKA VÁCHALOVÁ
- 15:15 – 15:30 **BPT14** **ENHANCED FERRITIN NANOPARTICLES FOR ENCAPSULATION AND TARGETED DELIVERY OF DRUGS**
JAN KUBEŠ