

## Section 5 - Biochemistry, Pharmacology and Toxicology II: 2. Feb 2022, 8:30 – 12:30

CHAIRPERSONS: DOC. PHARMDR. IVA BOUŠOVÁ, PH.D., DOC. RNDR. JAKUB HOFMAN, PH.D.

- 8:30 - 8:45 **BPT19** CONSTITUTIVE EXPRESSION OF SDR GENES IN DRUG-SUSCEPTIBLE AND DRUG-RESISTANT STRAINS OF HAEMONCHUS CONTORTUS  
*ŠTĚRBOVÁ KAROLÍNA*
- 8:45 - 9:00 **BPT20** AUTOMATED MOTILITY ASSAY OF HAEMONCHUS CONTORTUS USING IMAGE RECOGNITION BASED ON DEEP LEARNING  
*ŽOFKA MARTIN*
- 9:00 - 9:15 **BPT21** NEW POTENTIAL ANTHELMINTICS AGAINST HAEMONCHUS CONTORTUS - BLK127 AND HBK4: TOXICITY, EFFICACY, AND BIOTRANSFORMATION  
*ZAJÍČKOVÁ MARKÉTA*
- 9:15 - 9:30 **BPT22** EFFLUX TRANSPORTERS OF HAEMONCHUS CONTORTUS AND THEIR ROLE IN RESISTANCE DEVELOPMENT  
*KELLEROVÁ PAVLÍNA - ONLINE*
- 9:30 - 9:45 **BPT23** UDP-GLYCOSYLTRANSFERASES IN THE METABOLISM OF ANTHELMINTICS IN HAEMONCHUS CONTORTUS  
*DIMUNOVÁ DIANA*
- 9:45 - 10:00 **BPT24** BIOCHEMICAL ASSAY FOR VIABILITY TESTING IN SUSCEPTIBLE AND RESISTANT STAINS OF HAEMONCHUS CONTORTUS  
*NGUYEN LINH THUY*
- 10:00 - 10:15 **BPT25** IN VITRO FORMATION OF DUAL-SPECIES BIOFILMS – ESTABLISHMENT OF EXPERIMENTAL SETTINGS FOR METHOD LEADING TO RECOGNITION OF ANTI-BIOFILM ACTING COMPOUNDS  
*HOLMANOVÁ PAVLÍNA - ONLINE*
- 10:15 - 10:30 **BREAK**

CHAIRPERSONS: DOC. ING. PETRA MATOUŠKOVÁ, PH.D., DOC. PHARMDR. LUKÁŠ ČERVENÝ, PH.D.

- 10:30 - 10:45 **BPT26** ALDO-KETO REDUCTASE 1C1 (AKR1C1) MODULATES GLUCOCORTICOID RECEPTOR ACTIVITY BY A PROTEIN-PROTEIN INTERACTION  
*MORELL GARCÍA ANSELM - ONLINE*
- 10:45 - 11:00 **BPT27** ZANUBRUTINIB AS A NOVEL INHIBITOR OF ALDO-KETOREDUCTASE 1C3 FIGHTS AGAINST RESISTANCE IN DAUNORUBICIN CANCER THERAPY  
*ČERMÁKOVÁ LUCIE*
- 11:00 - 11:15 **BPT28** OFF-TARGET LIPID METABOLISM DISRUPTION BY THE MOUSE CONSTITUTIVE ANDROSTANE RECEPTOR LIGAND TCPOBOP IN HUMANIZED MICE  
*ŠKODA JOSEF - ONLINE*
- 11:15 – 11:30 **BPT29** EXPRESSION DYNAMICS OF PREGNANE X RECEPTOR CONTROLLED GENES IN 3D PRIMARY HUMAN HEPATOCYTE SPHEROIDS  
*SMUTNÝ TOMÁŠ - ONLINE*

- 11:30 – 11:45 **BPT30** **CHANGES IN THE EXPRESSION OF PHASE I DRUG-METABOLIZING ENZYMES IN TWO MOUSE MODELS OF NAFLD**  
*ŠADIBOLOVÁ MICHAELA*
- 11:45 – 12:00 **BPT31** **EFFECT OF NAFLD ON THE EXPRESSION OF ANTIOXIDANT ENZYMES**  
*VÁVROVÁ GABRIELA*
- 12:00 – 13:00 **BREAK**

**CHAIRPERSONS: DOC. PHARMDR. JANA POUROVÁ, PH.D., DOC. PHARMDR. MARTINA ČEČKOVÁ, PH.D.**

- 13:00 – 13:15 **BPT32** **THE EFFECT OF NUCLEOSIDES ON TROPHOBLAST CELLS PROLIFERATION; PRELIMINARY DATA**  
*ALI MOHAMMED*
- 13:15 – 13:30 **BPT33** **ESTABLISHMENT OF AN EX VIVO PRECISION-CUT SLICE MODEL TO STUDY INFLAMMATORY RESPONSE IN RAT PLACENTA**  
*ANANDAM KASIN YADUNANDAM*
- 13:30 – 13:45 **BPT34** **A COMPREHENSIVE ASSESSMENT OF ASSOCIATIONS BETWEEN PRENATAL INFLAMMATION AND PLACENTAL EXPRESSION SIGNATURE OF TRYPTOPHAN METABOLISM IN PRETERM BIRTH**  
*KARAHODA RONA*
- 13:45 – 14:00 **BPT35** **TRYPTOPHAN METABOLISM IS MODULATED BY MATERNAL INFLAMMATION**  
*ABAD CILIA*
- 14:00 – 14:15 **BPT36** **DYNAMIC CHANGES IN MONOAMINE TRANSPORT UPON TROPHOBLAST DIFFERENTIATION; EVIDENCE FOR TRANSCRIPTIONAL AND FUNCTIONAL VARIABILITY BETWEEN PRIMARY HUMAN VILLOUS AND BEWO TROPHOBLASTS**  
*VÁCHALOVÁ VERONIKA*