

Thursday 23. January 2020

Lecture hall B

Session 5 - Biochemistry, Pharmacology and Toxicology – morning: 8:00 – 12:00

Chairpersons: Prof. Daniel Scherman, Prof. Petr Pávek, Assoc Prof. Martina Čečková

8:00 – 8:30	IL3	THIOSEMICARBAZONES SUPPRESS EXPRESSION OF THE C-MET ONCOGENE BY MULTIPLE MOLECULAR MECHANISMS <i>RICHARDSON, D.</i>
8:30 - 8:45	PXFL1	IN VITRO SCREENING OF STRUCTURALLY DIFFERENT TOPOISOMERASE II INHIBITORS FOR PREVENTION OF ANTHRACYCLINE CARDIOTOXICITY <i>KUBES, J., JANSOVA, H., KARABANOVICH, G., MELNIKOVA, I., JIRKOVSKA, A., SKALICKA, V., JIRKOVSKY, E., ROH, J., SIMUNEK, T.</i>
8:45 - 9:00	PXFL2	EVALUATION OF DAUNORUBICIN ANTIPROLIFERATIVE EFFECT ON TOPOISOMERASE 2B DEPLETED HL-60 GENERATED WITH CRISPR-CAS9 <i>SKALICKA, V., KHAZEEM, M. M., JASCEVSKA, N., AUSTIN, C. A., JIRKOVSKA, A.</i>
9:00 - 9:15	PXFL3	TYROSINE KINASE INHIBITORS AS MULTITASKING SOLDIERS AGAINST CANCER DRUG RESISTANCE: THE EXEMPLARY CASE OF MIDOSTAURIN <i>MORELL, A., NOVOTNÁ, E., WSÓL, V.</i>
9:15 - 9:30	PXFL4	EMD1214063 REVERSES MULTIDRUG RESISTANCE BY INHIBITING THE EFFLUX FUNCTION OF ABCB1 AND ABCG2 TRANSPORTERS <i>VAGIANNIS, D., ZHANG, Y., BUDAGAGA, Y., SKARKA, A., STAUD, F., HOFMAN, J.</i>
9:30 - 9:45	PXFL5	MIDOSTAURIN AS A NOVEL MODULATOR OF ABC TRANSPORTERS IN ACUTE MYELOID LEUKEMIA <i>SUCHÁ, S., ŠORF, A., VÍŠEK, B., ČEČKOVÁ, M.</i>
9:45 - 10:00	PXFL6	OVERCOMING DAUNORUBICIN RESISTANCE MEDIATED BY ALDO-KETO REDUCTASE 1B10 <i>BUKUM, N., MORELL, A., NOVOTNA, E., WSOL, V.</i>
10:00 - 10:15		COFFEE BREAK
10:15 - 10:30	PXFL7	INHIBITION OF HUMAN ALDO KETO REDUCTASE (AKR1C3) BY OLAPARIB – A POSSIBLE REMEDY FOR DAUNORUBICIN RESISTANCE <i>TAVARES, T. S., HOFMAN, J., MORELL, A. G., WSÓL, V.</i>
10:30 - 10:45	PXFL8	NOVEL PHOTODYNAMICALLY ACTIVE HYDROPHILIC AND AMPHIPHILIC ANIONIC (AZA)PHTHALOCYANINE DERIVATIVES FOR TREATMENT OF TUMOROUS DISEASES <i>HALAŠKOVÁ, M., KOLLÁR, J., ZIMČÍK, P., MACHÁČEK, M.</i>
10:45 - 11:00	PXFL9	PRECISION-CUT INTESTINAL SLICES FROM HUMAN TISSUE AS AN EX VIVO MODEL FOR ABCB1 TRANSPORTER INDUCTION <i>MARTINEC, O., BIEL, C., ČERVENÝ, L., VOKŘÁL, I., DE GRAAF, I. A., OLINGA, P.</i>
11:00 - 11:15	PXFL10	IN VITRO AND EX VIVO EVALUATION OF ANTI-HIV AND ANTI-HCV DRUGS EFFECTS ON DIGOXIN INTESTINAL ABSORPTION <i>HULIČIAK, M., MARTINEC, O., ŠTAUD, F., VOKŘÁL, I., ČERVENÝ, L.</i>
11:15 – 11:30	PXFL11	EFFECT OF ANTIDEPRESSANTS ON PLACENTAL HANDLING OF SEROTONIN

HORÁČKOVÁ, H., KARAHODA, R., VÁCHALOVÁ, V., ČERVENÝ, L., ABAD, C., ŠTAUD, F.

11:30 – 11:45 **PXFL12** **EFFECT OF GESTATION AGE ON EXPRESSION AND FUNCTION OF ENZYMES INVOLVED IN TRYPTOPHAN METABOLISM IN HUMAN AND RAT PLACENTA**

ABAD, C., KARAHODA, R., HORACKOVA, H., KASTNER. P., KUCERA, R., STAUD, F.

11:45 – 12:00 **PXFL13** **THE CONTRIBUTIVE ROLE OF THE PLACENTAL ABCC1 IN MATERNAL AND FETAL PROTECTION. THE CASE OF MARAVIROC**

TUPOVA, L., HIRSCHMUGL, B., PILAROVA, V., SZEKELY, V., BAKOS, E., SUCHA, S., NOVAKOVA, L., STAUD, F., LACZKA, C., WADSACK, C., CECKOVA, M.

LUNCH BREAK: 12:00 – 12:30

Lecture hall B

Session 6 - Biochemistry, Pharmacology and Toxicology – afternoon: 12:30 – 17:45

Chairpersons: Prof. Des Richardson, Prof. František Štaud, Prof. Barbora Szoťáková, Assoc Prof. Lukáš Červený

- 12:30 - 12:45 **PXFL14** PRIMARY HUMAN HEPATOCYTE SPHEROIDS AS *IN VITRO* PLATFORM FOR PRECLINICAL DRUG DEVELOPMENT
SMUTNY, T., PAVEK, P.
- 12:45 - 13:00 **PXFL15** CHARACTERIZATION OF TRANSCRIPTOME IN HUMANIZED CAR MICE REGULATED BY MODEL MURINE LIGAND TCPOBOP
SKODA, J., DUSEK, J., PAVEK, P.
- 13:00 - 13:15 **PXFL16** DISCOVERY OF POTENT GPBAR1 AGONISTS/FXR ANTAGONISTS
HORVATOVA, A., KASPAR, M., DRASTIK, M., PAVEK, P., KUDOVA, E.
- 13:15 - 13:30 **PXFL17** MATHEMATICAL MODELING OF THE SIGNALING PATHWAYS OF NUCLEAR RECEPTORS
MATTHIOS, A., DUINTJER TEBBENS, E.J., PAVEK, P.
- 13:30 - 13:45 **PXFL18** PROBING THE STRUCTURE AND FUNCTION OF THE CYTOSOLIC DOMAIN OF THE HUMAN ZINC TRANSPORTER ZNT8 WITH NICKEL (II) IONS
CATAPANO, M.C., MLADĚNKA, P., MARET, W.
- 13:45 - 14:00 **PXFL19** ISOLATED SILYMARIN FLAVONOLIGNANS AND THEIR ABILITY TO INTERACT WITH TRANSITION METALS AND PLATELETS
TVRDÝ, V., APPLOVÁ, L., KARLÍČKOVÁ, J., MACÁKOVÁ, K., HRUBŠA, M., VALENTOVÁ, K., MLADĚNKA, P.
- 14:00 - 14:15 **PXFL20** PLATELET AGGREGATION IN HEALTHY POPULATION: PRELIMINARY DATA ON AGE-DEPENDENT DIFFERENCES
HRUBŠA, M., MACÁKOVÁ, K., KARLÍČKOVÁ, J., CARAZO, A., PARVIN, S., MLADĚNKA, P.
- 14:15 - 14:30 **PXFL21** SOLUBLE ENDOGLIN, DOES NOT AFFECT CHOLESTEROL AND BILE ACIDS METABOLISM IN NASH MOUSE MODEL
IGREJA SA, I., PRASNICKA, A., LASTUVKOVA, H., HROCH, M., HYSPLER, R., DOLEZELOVA, E., MICUDA, S., NACHTIGAL, P.
- 14:30 - 14:45 **PXFL22** ENDOGLIN MODULATES ADHESION AND TRANSMIGRATION OF MONOCYTES IN OXYSTEROL INDUCED ENDOTHELIAL DYSFUNCTION
VICEN, M., HAVELEK, R., MACHÁČEK, M., TRIPSKÁ, K., VITVEROVÁ, B., NACHTIGAL, P.
- 14:45 - 15:00 **COFFEE BREAK**
- 15:00 - 15:15 **PXFL23** ENDOGLIN EXPRESSION, SIGNALIZATION AND FUNCTION IN IFLAMMATION INDUCED ENDOTHELIAL DYSFUNCTION
TRIPSKÁ, K., VICEN, M., HAVELEK, R., NACHTIGAL, P.
- 15:15 - 15:30 **PXFL24** THE TOXICITY OF ALANTOLACTONE AND GERMACRONE TOWARDS DIFFERENTIATED HEPARG CELLS AND THEIR INFLUENCE ON CHOLESTEROL METABOLISM
ZÁRYBNICKÝ, T., MATOUŠKOVÁ, P., BOUŠOVÁ, I.
- 15:30 - 15:45 **PXFL25** THE UDP-GLYCOSYLTRANSFERASES IN *HAEMONCHUS CONTORTUS* AND THE METABOLISM OF ANTHELMINTICS
DIMUNOVÁ, D., RAISOVÁ STUHLÍKOVÁ, L., MATOUŠKOVÁ, P.

- 15:45 – 16:00 **PXFL26** **PROFILING MICRORNA EXPRESSION IN SUSCEPTIBLE AND RESISTANT STRAINS OF HAEMONCHUS CONTORTUS USING SMALL RNA SEQUENCING**
NGUYEN, L. T., MATOUŠKOVÁ, P., SKÁLOVÁ, L.
- 16:00 – 16:15 **PXFL27** **METABOLIC PATHWAYS OF NEW POTENTIAL ANTHELMINTICS IN HAEMONCHUS CONTORTUS AND ITS HOST**
ZAJÍČKOVÁ, M., NAVRÁTILOVÁ, M., NGUYEN, L.T., PRCHAL, L., STUHLÍKOVÁ, R.L., KELLEROVÁ, P., SKÁLOVÁ, L.
- 16:15 - 16:30 **BREAK**
- 16:30 - 16:45 **PXFL28** **CIRCULATION OF ANTHELMINTICS IN THE ENVIRONMENT**
NAVRÁTILOVÁ, M., STUHLÍKOVÁ RAISOVÁ, L., SKÁLOVÁ, L.
- 16:45 - 17:00 **PXFL29** **EFFECT OF ANTHELMINTIC RESIDUES ON TRANSCRIPTION LEVEL OF BIOTRANSFORMATION ENZYMES**
KELLEROVÁ, P., MATOUŠKOVÁ, P., NAVRÁTILOVÁ, M., ŠTĚRBOVÁ, K., STUHLÍKOVÁ RAISOVÁ, L., SKÁLOVÁ, L.
- 17:00 – 17:15 **PXFL30** **PRELIMINARY RESULTS OF ANTI-INFLAMMATORY ACTIVITY IN SELECTED FERN SPECIES**
PAVIČÍČ, A., SZOTAKOVA, B., LANGHANSOVA, L.
- 17:15 - 17:30 **PXFL31** **DETERMINATION OF TOXICITY OF BRAF INHIBITORS *IN VITRO***
MAIXNEROVÁ, J., HYRŠOVÁ, L., TREJTNAR, F.
- 17:30 - 17:45 **PXFL32** **THE EFFECTS OF THE CIGARETTE SMOKE ON HUMAN SKIN AND POSSIBILITIES OF ITS PROTECTION**
ŠULCOVÁ, K., JAKUBÍKOVÁ, K., MAZUROVÁ, M., DOLEČKOVÁ, I., VÁVROVÁ, K.