

May 30th, 2017 (Tuesday)

9:30 Registration is open, the installation of posters begins

12:00 Lunch

13:00 OPENING CEREMONY

13:10 Annadurai Narendran IDENTIFICATION OF POTENTIAL INHIBITORS OF TAU AGGREGATION FOR ALZHEIMER'S DISEASE THERAPY

13:30 Bartoň Jan WATER-SOLUBLE HETEROBIFUNCTIONAL FLUORESCENT LINKERS

13:50 Belán Ondřej RAD51 REGULATORS: SHAPING THE FILAMENT

14:10 Blecha Jan MECHANISM OF CELL DEATH INDUCTION UPON ELECTRON TRANSPORT CHAIN INHIBITION IN PROLIFERATING AND QUIESCENT CELLS

14:30 Brichtová Eva SYNTHESIS AND SPECTROSCOPIC CONFORMATIONAL STUDIES OF AC-NITNHME DIPEPTIDE MODEL

14:50 Coffee break

15:10 Grillová Linda NEW TOOLS FOR ENRICHMENT OF TREPONEMA PALLIDUM SUBSP. PALLIDUM, THE CAUSATIVE AGENT OF SYPHILIS, FROM CLINICAL SAMPLES CONTAINING LARGE AMOUNTS OF HUMAN DNA

15:30 Houska Václav SEARCHING FOR A PATH TOWARDS A HELICENE-BASED MACROCYCLE

15:50 Hron Tomáš THE NOT-SO-MISSING GENES IN BIRDS

16:10 Hronová Vladislava WHAT IS THE MOLECULAR MECHANISM UNDERLYING TRANSLATION REINITIATION OF MAMMALIAN TRANSCRIPTIONAL ACTIVATOR ATF4?

16:30 Coffee break

16:50 Chmela Václav NOVEL APPROACH TO QUINAZOLINE ALKALOIDS, TOTAL SYNTHESIS OF ARDEEMIN

17:10 Jablonská Eva CHARACTERISATION OF NOVEL ANTIBACTERIAL BIOMATERIALS FOR ORTHOPEDIC IMPLANTS - TITANIUM COATED WITH TITANIA LAYERS CONTAINING SILVER

17:30 Kindermann Marek SILENCING OF ONCOGENIC MIR-21 BY AN ANTIMIR COATED FLUORESCENT NANODIAMONDS

17:50 Kloučková Michaela SILK SERICIN-MODIFIED NANOFIBERS FOR THE DEVELOPMENT OF IN VITRO MODELS OF LUNG

Stanislav Kukla MAIN PARTNER PRESENTATION – CONSTANT CURIOSITY POWERED BY MERCK

18:30 Dinner

May 31st, 2017 (Wednesday)

8:30 Koledová Zuzana DECIPHERING THE ROLES OF FIBROBLASTS DURING PUBERTAL MAMMARY GLAND DEVELOPMENT

8:50 Kosinová Lucie SIRNA INHIBITION OF TISSUE FACTOR EXPRESSION REDUCES LIVER ISCHEMIA AFTER PANCREATIC ISLETS TRANSPLANTATION IN RAT

9:10 Sommerová Lucia AGR2 IS INVOLVED IN THE REGULATION OF THE EPITHELIAL PHENOTYPE BY REPRESSING EMT

9:30 Leontovyč Ivan SYNTHETIC MRNA IS A MORE RELIABLE METHOD THAN PROTEIN TRANSDUCTION DOMAIN FUSION FOR DELIVERING DNA-TARGETING PROTEINS TO VARIOUS CELL TYPES

9:50 Coffee break

10:10 **Starý Ivo** CHEMISTRY AND PHYSICS AT NANOSCALE: A NEW LAND TO EXPLORE

11:00 Coffee break

11:10 Leontovyč Adrian SECRETED SERINE PROTEASE SMSP2 OF THE BLOOD FLUKE SCHISTOSOMA MANSONI: BIOCHEMICAL CHARACTERIZATION, LOCALIZATION AND HOST PROTEIN PROCESSING

11:30 Mašek Tomáš OXIDATIVE INTERMEDIATE SWITCHING FOR THE TOTAL SYNTHESIS OF LIGNANS

11:50 Miklík Dalibor THE NATURE OF STABLE EXPRESSION OF THE HUMAN IMMUNODEFICIENCY VIRUS TYPE 1

12:10 Kolaříková Viola RING-CLOSING ENYNE METATHESIS OF PROCHIRAL ENDIYNES

12:30 Lunch

14:00 Müllerová Monika CATIONIC CARBOSILANE DENDRIMERS FOR BIOAPPLICATIONS

14:20 Nešuta Ondřej ENTEROCOCCUS FAECALIS PROTEOLYTIC ACTIVITY: THE MECHANISM OF RESISTANCE TO ANTIMICROBIAL PEPTIDES

14:40 Nisler Jaroslav DEVELOPMENT AND CHARACTERIZATION OF THE UREA DERIVATIVES WITH UNIQUE EFFICIENCY IN DELAYING PLANT SENESCENCE

15:00 Ozdemir Zulal SYNTHESIS AND CHARACTERIZATION OF NOVEL PORPHYRIN-OLEALONIC ACID CONJUGATES LINKED BY A 1,2,3-TRIAZOLE RING

15:20 Coffee break

15:30 Pekarová Michaela NEW POSSIBILITIES IN TREATMENT OF FAILING HEART: FOCUS ON INFLAMMATORY SIGNALING PATHWAYS

15:50 Pešková Lucie THE ROLE OF MICRORNA MOLECULES IN CELL PLASTICITY REGULATION

16:10 Prikryl David ALV-K: NEW VIRUS, NEW RECEPTOR?

16:30 Rejšek Jan AMBIENT MASS SPECTROMETRY: FROM THE PLANAR TO THE NON-PLANAR SURFACE ANALYSIS

16:50 Coffee break

17:10 Rohíwal Sonali

PREPARATION, CHARACTERIZATION AND EVALUATION OF ZINC OXIDE NANOPARTICLES LOADED BOVINE SERUM ALBUMIN NANOPARTICLES AS ANTIMICROBIAL AGENT

17:30 Sedláková Veronika

NANOFIBERS MODIFIED WITH HEXAAMINO-CYCLO-TRIPHOSPHAZENE FOR TISSUE ENGINEERING APPLICATIONS

17:50 Sívá Monika

DDI2 DEFICIENCY IN MOUSE IMPAIRES EARLY DEVELOPMENT OF ENDOTHELIAL TISSUE

18:15 Netušilová Julie

THE REGULATION OF INTRACELLULAR SIGNALLING IN EMBRYONIC STEM CELLS BY HYPOXIA

19:00 Dinner

20:00 POSTER SESSION

June 1st, 2017 (Thursday)

8:30 Sumbal Jakub

DISSECTING THE ROLES OF FIBROBLAST GROWTH FACTOR (FGF) SIGNALLING IN MAMMARY BRANCHING MORPHOGENESIS USING HYPERSTABLE FGF2 VARIANTS

8:50 Tichá Anežka

A MODULAR ROUTE TO NOVEL POTENT AND SELECTIVE INHIBITORS OF RHOMBOID INTRAMEMBRANE PROTEASES

9:10 Topolovčan Nikola

TRANSITION-METAL-CATALYZED FUNCTIONALIZATION OF ENYNES AND ALKYNES

9:30 Toul Martin

KINETIC MECHANISM OF AN ANCESTOR OF HALOALKANE DEHALOGENASE AND LUCIFERASE

9:50 Coffee break

10:10 **Prokop Zbyněk**

MICROFLUIDICS IN PROTEIN AND METABOLIC ENGINEERING (PLENÁRNÍ PŘEDNÁŠKA)

11:00 Coffee break

11:10 Tůma Jiří

BIFUNCTIONAL L-PROLINOL BASED ORGANOCATALYSTS: STEREOSELECTIVE MICHAEL ADDITION IN HOMOGENOUS AND HETEROGENOUS ENVIRONMENT

11:30 Vojáčková Eva

THE ROLE OF MICROENVIRONMENT IN THE REGULATION OF B-CELL RECEPTOR SIGNALLING VIA MODULATION OF GAB1 PROTEIN LEVELS

11:50 Ujčíková Hana

PROTEOMIC ANALYSIS OF RAT BRAIN CORTEX AFTER MORPHINE TREATMENT AND 20 DAYS OF DRUG WITHDRAWAL

12:15 Lunch

13:00 **CLOSING CEREMONY, RESULTS ANNOUNCEMENT**

Topics:

CHEMISTRY

BIOMATERIALS

BIOCHEMISTRY AND MOLECULAR BIOLOGY

LIST OF POSTERS – MILOVY 2017

	Surname	Name	Title
1	Babrnáková	Johana	THE EFFECT OF BIOLOGICALLY ACTIVE SUBSTANCES ON THE STRUCTURE AND BIOCOMPATIBILITY OF COLLAGENOUS SCAFFOLDS FOR TISSUE ENGINEERING
2	Began	Jakub	IDENTIFICATION OF SUBSTRATE REPERTOIRE OF RHOMBOID INTRAMEMBRANE PROTEASE GIPG FROM <i>ESCHERICHIA COLI</i>
3	Bildziukevich	Uladzimir	CONJUGATES OF BETULINIC ACID WITH PICOLYL AMINES
4	Dubanková	Anna	STRUCTURAL AND FUNCTIONAL CHARACTERISATION OF AICHI VIRUS RNA DEPENDENT RNA POLYMERASE
5	Ďudáková	Lubica	GENETIC CAUSES OF DEAF-BLINDNESS IN SIXTEEN CZECH FAMILIES
6	Fedorová	Veronika	DIFFERENT MECHANISMS OF p16/INK4A REGULATION IN HUMAN EMBRYONIC AND NERUAL STEM CELLS
7	Kalasová	Dominika	DETERMINATION OF POROSITY FROM TOMOGRAPHIC DATA OF HYDROXYAPATITE SCAFFOLD-LIKE STRUCTURES
8	Karluková	Elena	DEVELOPMENT OF THE SCREENING ASSAY FOR IDENTIFICATION OF COMPOUNDS TARGETING INFLUENZA A
9	Kolesniková	Sofia	SEQUENCE REQUIREMENTS AND GTP-DEPENDENT FORMATION OF MULTIMERIC G-QUADRUPLEXES
10	Kováčik	Andrej	ROLE OF CERAMIDE STEREOCHEMISTRY IN MICROSTRUCTURE, PHASE BEHAVIOR AND PERMEABILITY OF MODEL SKIN BARRIER MEMBRANES
11	Krátký	Martin	TUFTSIN-BASED OLIGOPEPTIDE CARRIERS FOR ANTIMYCOBACTERIAL ACTIVE COMPOUNDS
12	Lipovská	Pavčina	RUTHENIUM COMPLEXES CONTAINING CHIRAL POLYFLUOROALKANOATES
13	Maier	Lukáš	DIELS-ALDER APPROACH TO SUBSTITUTED DECALINES
14	Němec	Václav	DISCOVERY OF NEW PROTEIN KINASE INHIBITORS WITH THE FURO [3,2-B]PYRIDINE CORE
15	Pátíková	Alžběta	CREATION OF THE ARTIFICIAL CAVITY FOR SUBSEQUENT TRANSPLANTATION OF PANCREATIC ISLETS USING PLCL SCAFFOLD

16	Peterková	Miroslava	THE ROLE OF MICRORNA-145 IN DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS-DERIVED NEURAL STEM CELLS
17	Poryvai	Anna	NOVEL 'ROOM-TEMPERATURE SMECTICS': SYNTHESIS AND OPTICAL PURITY-MESOMORPHIC BEHAVIOUR RELATIONSHIP
18	Rabata	Anas	3D CELL CULTURE OF MOUSE LUNG STEM/PROGENITOR CELLS
19	Rapoport	Andrey	FUNCTION OF THE STRESS SIGMA FACTOR SIGB SUBUNIT OF RNA POLYMERASE IN CORYNEBACTERIUM GLUTAMICUM
20	Skoupilová	Hana	NOVEL ORGANOMETALLIC COMPOUNDS AND THEIR EFFECT ON OVARIAN CANCER CELLS
21	Smola	Miroslav	RAY STRUCTURE OF HUMAN STING WITH NOVEL CYCLIC DINUCLEOTIDES AS A TOOL FOR DISCOVERING NEW TREATMENTS OF CHRONIC HEPATITIS B
22	Strnad	Štěpán	COMPARISON OF MALD-MSI AND LC-MS FOR PHARMACOKINETIC STUDY OF METFORMIN
23	Šafaříková	Eva	TOWARDS HIGH BIOCOMPATIBILITY OF ORGANIC CONDUCTIVE MATERIALS FOR HEART ON CHIP APPLICATIONS
24	Šimůnek	Ondřej	SYNTHESIS, CATALYTICAL ACTIVITY AND RECYCLING OF POLYFLUORINATED CHIRAL PALLADIUM COMPLEXES
25	Šmidová	Aneta	STRUCTURAL STUDIES OF NEUTRAL TREHALASE IN COMPLEX WITH 14-3-3 REGULATORY PROTEIN
26	Švachová	Veronika	3D IMAGING OF BIOPOLYMERIC SCAFFOLDS SEEDED WITH CELLS USING X-RAY COMPUTED NANO-TOMOGRAPHY
27	Tesařová	Markéta	THE USE OF MICRO AND NANO COMPUTED TOMOGRAPHY FOR IMAGING OF SOFT TISSUES IN EMBRYOS
28	Tetour	David	NOVEL CYCLOHEXANE-1,2-DIAMINE-BASED CATALYST FOR ASYMMETRIC HENRY REACTION
29	Navrátilová	Lucie	FLAVONOIDS AS INHIBITORS OF OATP-MEDIATED ROSUVASTATIN INTESTINAL TRANSPORT
30	Vaškovičová	Katarína	MECHANISTIC INSIGHTS INTO ASSEMBLY OF EISOSOMES, SPECIALIZED MICROCOMPARTMENTS ASSOCIATED WITH YEAST PLASMA MEMBRANE
31	Volejníková	Andrea	ANTIMICROBIAL PEPTIDE HAL-2/39 AS A POSSIBLE REPLACEMENT OF ANTIBIOTICS IN BONE CEMENT
32	Vorlová	Barbora	CHARACTERIZATION OF GLUTAMATE CARBOXYPEPTIDASE II KNOCK-OUT MICE GENERATED BY TALEN TECHNOLOGY

XVII.

Interdisciplinary Meeting of Young Biologists, Biochemists and Chemists

Hotel "Devět Skal – Milovy" • May 30 – June 1, 2017

PROGRAMME

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ORGANIZED BY:



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