

## Section 5 - Bioorganic and Pharmaceutical Chemistry: 31. Jan 2024, 8:30 – 15:30

CHAIRPERSONS: PROF. PHARMDR. PETR ZIMČÍK, PH.D., ASSOC. PROF. DR. RUSSELL KITSON, PH.D.

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| 8:30 - 9:00   | <b>BPCI</b> | <b>QUO VADIS, ORGANOCATALYSIS?</b><br><i>TOMÁŠ HODÍK</i>  |
| 9:00 - 9:15   | <b>BPC1</b> | <b>PYRAZINAMIDE AND 1,2,3-TRIAZOLE: A PROMISING RELATIONSHIP</b><br><i>PRIAM-AMEDEO HOUNGBEDJI</i>  |
| 9:15 - 9:30   | <b>BPC2</b> | <b>THE EFFECT OF ACYLCERAMIDES IMMOBILIZED ON GOLD NANOPARTICLES ON SKIN BARRIER LIPID ARRANGEMENT</b><br><i>SORINA HIRBOD</i>                                    |
| 9:30 - 9:45   | <b>BPC3</b> | <b>MONTANINE-TYPE DERIVATIVES: POTENTIAL ADJUVANTS IN ANTI-STAPHYLOCOCCAL THERAPY</b><br><i>ADÉLA DIEPOLTOVÁ</i>  |
| 9:45 - 10:00  | <b>BPC4</b> | <b>ENSEMBLE BASED CALCULATION OF NMR SPIN-SPIN COUPLINGS IN PROTEIN</b><br><i>AMINA GAFFOUR</i>   |
| 10:00 - 10:15 | <b>BPC5</b> | <b>DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF PYRAZINAMIDE DERIVATIVES AND THEIR STRUCTURE ACTIVE RELATIONSHIP</b><br><i>VINOD SUKANTH KUMAR PALLABOTHULA</i> |
| 10:15 - 10:30 |             | <b>BREAK</b>  |

CHAIRPERSONS: DR. RER. NAT. MGR. ING. TOMÁŠ HODÍK, ASSOC. PROF. PHARMDR. VERONIKA NOVÁKOVÁ, PH.D.

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| 10:30 - 10:45 | <b>BPC6</b>  | <b>AN AZAPHTHALOCYANINE DERIVATIVE FOR TERNARY COMPLEXES FACILITATED BY CUCURBIT[8]URIL</b><br><i>JANA LAPEŠOVÁ</i>  |
| 10:45 - 11:00 | <b>BPC7</b>  | <b>SELECTIVE BUTYRYLCHOLINESTERASE INHIBITORS STRUCTURALLY INSPIRED BY CARLTONINE-TYPE ALKALOIDS - DESIGN, SYNTHESIS, AND BIOLOGICAL EVALUATION</b><br><i>FILIP PIDANÝ</i> |
| 11:00 - 11:15 | <b>BPC8</b>  | <b>N-BENZYLPIPERIDINE-BASED SCHIFF BASES ARE CHOLINESTERASE INHIBITORS – DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION</b><br><i>ENIKŮ ŠIKOROVÁ</i>                          |
| 11:15 – 11:30 | <b>BPC9</b>  | <b>COMPUTATIONAL INVESTIGATIONS OF HALOGEN BONDING OF CHLOROPYRAZINE DERIVATIVES</b><br><i>MARTIN JUHÁS</i>  |
| 11:30 – 11:45 | <b>BPC10</b> | <b>SYNTHESIS AND DYNAMICS OF DEUTERIUM-LABELLED ACYLCERAMIDES</b><br><i>TOMÁŠ HAVRIŠÁK</i>   |
| 11:45 – 12:00 | <b>BPC11</b> | <b>INSIGHTS INTO THE VASODILATORY MECHANISM OF FLAVONOID METABOLITE 4-METHYLCATECHOL VIA KV VOLTAGE CHANNEL BY REVERSE MOLECULAR DOCKING APPROACH</b><br><i>RUDY SALAM</i> |

12:00 – 13:00                      **BREAK**

**CHAIRPERSONS: ASSOC. PROF. PHARMDR. MIROSLAV MILETÍN, PH.D., PHARMDR. JIŘÍ DEMUTH, PH.D.**

- 13:00 – 13:15    **BPC12**    **THROUGH VIRTUAL SCREENING TOWARDS NOVEL PROLYL-TRNA SYNTHETASE INHIBITORS**  
*ANDREA BACHTÍKOVÁ*
- 13:15 – 13:30    **BPC13**    **SYNTHESIS AND STUDY OF PHTHALOCYANINE ANALOGUES FORMING J-DIMERS**  
*ŠTEFAN BEDNÁRIK*
- 13:30 – 13:45    **BPC14**    **SEMISYNTHETIC BERBERINE DERIVATIVES AS POTENTIAL ANTI-MYCOBACTERIAL AGENTS**  
*NEGAR MAAFI*
- 13:45 – 14:00    **BPC15**    **WHEREVER YOU GO, I FOLLOW – APTAMER LINKED SWITCHABLE BODIPY FOR TARGETED PDT**  
*MARY ANGELIA ALFRED*
- 14:00 – 14:15    **BPC16**    **SYNTHESIS OF PYRIMIDINE DERIVATIVES WITH ANTIMYCOBACTERIAL ACTIVITY**  
*MARTIN KUFA*
- 14:15 – 14:30    **BPC17**    **CHALCOGEN-BONDING CATALYSIS WITH CHIRAL TELLURONIUM DICATIONS**  
*JAN SOKOLOV*
- 14:30 – 14:45                      **BREAK**
- 14:45 – 15:00    **BPC18**    **SYNTHESIS AND IMMOBILIZATION OF MODIFIED ULTRA-LONG CHAIN CERAMIDES ON FUNCTIONALIZED SURFACES FOR THE INVESTIGATION OF THEIR SCAFFOLDING ROLE IN THE SKIN LIPID BARRIER**  
*PANAGIOTA VELISSARI - ONLINE*
- 15:00 – 15:15    **BPC19**    **DESIGN, SYNTHESIS, AND BIOLOGICAL EVALUATION OF BORONIC ACIDS**  
*PETR ŠLECHTA - ONLINE*
- 15:15 – 15:30    **BPC20**    **TOWARDS TO NEW EFFECTIVE ATP MIMICKING INHIBITOR BASED ON 3-ACYLAMINO-2-PYRAZINECARBOXAMIDE**  
*MAREK KERDA - ONLINE*