THURSDAY FRIDAY SATURDAY

19 OCT 20 OCT 21 OCT

| 9  | :00 | Opening remarks  |  |   |
|----|-----|--|--|---|
| 3  | :15 | In memoriam of Prof. Jolanta Saczko - prof. Julita Kulbacka  | lons, membranes and channels: from the quantum level to continuum modeling prof. Mounir Tarek  | Hydrazones: simple yet powerful bioactive compounds Robert Kaplanek, PhD  |
|    | :30 |  |  |   |
| 10 | :45 | New modalities of electroporation for drug and gene delivery: MHz<br>bursts versus<br>contactless high magnetic fields<br>prof. Vitalij Novickij                     | Strategic Pre-Treatment Planning for Electroporation-Based<br>Biomedical Applications on Superficial Tumors<br>Malyško-Ptašinské Veronika                            | The effect of calibration technique on the stability of liposomes in formulation against the infection progress of virus SARS-CoV-2 Olga Michel |
|    | :00 |  | Pulse Burst Compression for Calcium Electrochemotherapy of C57BL6J carcinoma tumors Elvina Radzevičiūtė-Valčiukė   | Methods of mitigating of viruses FIV, FeLV AND SARS-CoV-2 Andrzej Korpacki  |
|    | :15 | The influence of asymmetrical electric fields with calcium ions or bleomycin on ovarian carcinoma Zofia Łapińska   | Exploring the Impact of Electroporation-Induced Extracellular<br>Vesicles on Melanoma Cell Biology<br>Urszula Szwedowicz   | Fantastic γδ T cells and where (and how) to find them. <b>Justyna Mączyńska</b>   |
|    | :30 | Reversal of doxorubicin resistance in human colon cancer cells using microbubble-assisted sonoporation<br>Dawld Przystupski  | Effect of natural NF-κβ inhibitors on normal muscle cells and tumor cells of muscle origin - in vitro  Justyna Radzka  | Innovative 3D-printed scaffolds with complex porosity for tissue engineering applications.  Monika Lewandowska                                  |
| 11 | :45 | Nanosecond Pulsed Electric Fields Reshaping Immune Checkpoints<br>and Cytokine Landscape in Melanoma Cells<br>Natalia Sauer  |  | Study of the reaction of benzyl alcohol with atomic chlorine<br>Dariusz Sarzyński   |
|    | :00 | ATP depletion-mediated cell death during calcium electrochemotherapy Eglé Mickevičiūtė   | Elemental constituents of selected African medicinal plants for fibrosis tumor treatment<br>Prof. Joe Modise   | Functionalized liposomes for targeted drug delivery<br>Karolina Krajewska   |
|    | :15 | Anticancer Activity of Isolated Bioactive Compounds Produced by Fungal Endophytes from the Mokrzański Forest Magdalena Kloc  |  | COFFEE BREAK & POSTER SESSION   |
|    | :30 | COFFEE BREAK & POSTER SESSION  | COFFEE BREAK & POSTER SESSION  |   |
| 12 | :45 |  |  | SOCIAL EVENT  |
|    | :00 |  |  |   |
|    | :15 | Bioluminescent Technologies for Studying Protein Biology and Cellular Responses PROMEGA  | Nanomaterials and their applications in biochemistry and<br>Environment in Asia<br>Nguyen Viet Hoal, PhD   |   |
|    | :30 |  |  | Closing remarks & Award ceremony  |
| 13 | :45 | Application of additive manufacturing in the production of medigummies for children Marta Cielas   | Isolation of Pelargonium alchemilliodes l'iher active compounds F. Mtunzi  |   |
|    | :00 | Studies of stem cell lysates in potential use as a factor regenerating nerve cells.  Izabela Jęśkowiak-Kossakowska   | Effect of Tau protein phosphorylation on the process of its adsorption on the neuronal membranę  Kamil Rakowski  |   |
|    | :15 | The usefulness of amphiregulin and endocan for the assessment of the degree of inflammatory activity and fibrosis in non-alcoholic fatty liver disease.  Grzebyk Ewa | The analysis of the influence of selected factors on changes in<br>o-synuclein structure<br>Agnieszka Kamińska   |   |
|    | :30 | Decontamination of tetracycline from wastewater using magnetite-silica-polydopamine (fe3o4-sio2-pda) nanocomposite<br>Agnes Pholosi                                  |  |   |
|    | :45 | In vivo microscopy imaging of two model plants Iris domestica and<br>Scutellaria baicalensis after Pulse<br>Sylwester Ślusarczyk                                     | LUNCH BRAKE & POSTER SESSION   |   |
| 14 | :00 |  |  |   |
|    | :15 | LUNCH BRAKE & POSTER SESSION   | WORKSHOP   |   |
|    | :30 |  |  |   |
| 15 | :45 | WORKSHOP   |  |   |
|    | :00 |  | FLOW CYTOMETRY is a tool for multi-parameter analysis of a single cell / QUANTUM DOTS synthesis of water-soluble fluorescent quantum dots / ELECTROPORATION in vitro |   |
|    | :15 |  | / ELECTROPORATION in vitro   |   |
|    | :30 | FLOW CYTOMETRY is a tool for multi-parameter analysis of a single cell / IMPEDANCE Real-time cell analysis   |  |   |
| 16 | :45 | Single Cell / IMPEDANCE Real-unite Cell alialysis  | WORKSHOP   |   |
|    | :00 |  |  |   |
|    |     |  |  |   |
|    | :15 | WORKSHOP   | FLOW CYTOMETRY is a tool for multi-parameter analysis of a   |   |
|    | :30 |  | single cell / QUANTUM DOTS Synthesis of water-soluble<br>fluorescent quantum dots  |   |
|    | :45 | IMPEDANCE Real-time cell analysis  |  |   |
| 17 | :00 |  |  |   |
|    | :15 |  |  |   |

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