Poster Session at IBCA 2023

No.	Presenter	Title
P-1 **O-1.2**	**Eyad Alsaedi** University of Oldenburg, Germany	*Activation of melanocortin-1 receptor improves the blood-brain barrier integrity in murine brain microvascular endothelial cells*
P-2 **O-1.3**	**Dr. Grégoire Boullier** HEPIA, Genève, Switzerland	*Dynamic measurement of bio-impedance on in vitro breathable lung-on-chip system for long-term cell barrier integrity assessment*
P-3 **O-1.4**	**Tobias Naber** Regensburg University, Germany	*TER-Ox: Simultaneous monitoring of epithelial barrier function (TER) and respiration (Ox)*
P-4 **O-3.2**	**Esteban Acerbo** Universidad Nacional de Cuyo Mendoza, Argentina	*Determining mammalian cells state by fractal micromotion*
P-5 **O-3.3**	**Wei-Chih Chiu** National Yang Ming Chiao Tung University, Taiwan	*Modeling and Cellular Parameter Analysis for Electric Cell-substrate Impedance Sensing*
P-6 **O-4.2**	**Dr. Orsolya Lang** Semmelweis University, Budapest, Hungary	*Cytotoxicity and apoptosis-inducing effects of novel aminophosphonate derivatives on pancreatic tumor cells*
P-7 **O-4.3**	**Lena Schaller** Ludwig Maximilians University Munich, Germany	*Transient Receptor Potential (TRP) channels mediate toxicant-induced pulmonary barrier dysfunction, as detected by Electrical Cell Impedance Sensing (ECIS)*
P-8 **O-4.4**	**Dr. Nemanja Milicevic** Tampere University, Finland	*The circadian clock regulates barrier permeability in epithelial cells*
P-9 **O-5.2**	**Dr. Jos P.H. Smits** Radboud Institute for Molecular Life Sciences, Nijmegen, Netherlands	*Electrical impedance spectroscopy evaluates organotypic epidermis formation and skin barrier function in vitro*
P-10 **O-5.3**	**Julia Erl** Regensburg University, Germany	*Monitoring the Reversibility of GPCR Signaling by Combining Photochromic Ligands with Label-free Impedance Analysis*
P-11 **O-5.4**	**Dr. Zhong Yu** Axion BioSystems, USA	*GD2 CAR-T cells engineered using retroviral transduction or CRISPR editing exhibit strong cytolytic potency against glioma stem cells*
P-12 **O-8.3**	**Maximilian Friedrich Ell** TU Vienna, Austria	*Stability of Cell Adhesion Noise Analysis for Chemotherapeutic Treatment on Cancer Cells*
P-13 **O-8.4**	**Dr. Mario Saravia** Buenos Aires Macula Clinical Research, Buenos Aires, Argentina	*Electrical Cell Impedance Spectroscopy (ECIS) in Retina and Cornea: Differences between pathological and healthy human subjects*
P-14 **O-9.1**	**Dr. Dua Özsoylu** Aachen University of Applied Sciences, Germany	*Impedance-based bacteria detection by probing the relationship between the engineered surfaces and bacterial adhesion*
P-15 **O-9.2**	**Andrea Kauth** RWTH Aachen, Germany	*Low-cost alternative to commercial ECIS devices*
P-16 **O-9.3**	**Anne-Kathrin Mildner** Regensburg University, Germany	*Impedance-Based Monitoring of Titration and Neutralization Assays of VSV and SARS Pseudo Viruses*
P-17 **O-9.4**	**Dr. Stefanie Michaelis** Fraunhofer EMFT Regensburg, Germany	*A Novel Impedance Platform based on Printed Polymer Electrodes for Automated Virus Neutralization Assays*
P-18	**Dr. Rachana Acharya** University of Cambridge, U.K.	*Optimizing the pore structure of 3D conducting polymer scaffolds for bioelectronic devices*
P-19	**Fereshteh Aliazizi** KU Leuven, Belgium	*Pathogenic Bacteria Detection in Aquaculture Systems Utilizing Surface-Imprinted Polymers (SIPs)*

P-20	**Dr. Soroush Bakhshi Sichani** KU Leuven, Belgium	*Triple Device: a multiparametric cell-characterization platform combining of impedance, heat transfer, and mass-loading signals*
P-21	**Lea Baumann** RWTH Aachen, Germany	*Cell-substrate adhesion measurements using PEDOT:PSS organic electrochemical transistors*
P-22	**Yuan Cao** RWTH Aachen, Germany	*Electrical Impedance Spectroscopy for the Characterization of the Hardening State of the Zona Pellucida of Oocytes*
P-23	**Chi-Tien Chen** National Yang Ming Chiao Tung University, Taiwan	*Monitoring Cisplatin-induced Cytotoxicity of MDCK Cells using ECIS*
P-24	**Wei-Ling Chen** National Yang Ming Chiao Tung University, Taiwan	*Electrically Monitoring Caco-2 Cell Attachment and Migration on the Extracellular Matrix Decellularized from Porcine Bladders*
P-25	**Yun-Lin Chen** National Yang Ming Chiao Tung University, Taiwan	*Impedance Monitoring of Human Mesenchymal Stem Cell Migration and Osteogenic Differentiation on Polypeptide Multilayer Films*
P-26	**Dr. Adriana Fontes** Helmholtz Zentrum München, Germany	*Bioenergetic defects are accompanied by decreased barrier integrity in Caco-2 ATP7B KO cells*
P-27	**Sandra Friedrich** Regensburg University, Germany	*Development of an impedance-based wholistic sensor to detect cytotoxic effects of pesticides on insect cells*
P-28	**Eashika Ghosh** RWTH Aachen, Germany	*Characterization and Optimization of Functional Microelectrodes for Epiretinal Implants*
P-29	**Alice Hattar** Forschungszentrum Jülich GmbH, Germany	*Engineering Post-Synaptic Architectures with Native Biomembranes*
P-30	**Huijie Jiang** RWTH Aachen, Germany	*System-integrated metal-organic frameworks as novel device platforms for studies of cell-substrate interactions*
P-31	**Roman Opgenorth** RWTH Aachen, Germany	*Impedance Analysis of Cells to verify successful Gene Electrotransfer*
P-32	**Dr. Dua Özsoylu** Aachen University of Applied Sciences, Germany	*Monitoring of Adherent Cells in a Microfluidic Channel Integrated into a Cell-Based Biosensor: Revealing All-in-one Concept*
P-33	**Dr. Mehdi Ravandeh** Forschungszentrum Jülich GmbH, Germany	*Electrochemical Impedance Spectroscopy of PEDOT:PSS Supported Lipid Bilayers*
P-34	**Dr. Xing Tang** UMCG Groningen, The Netherlands	*Efficacy of pectins with different degree of methyl-esterification and of blockiness on preventing gut epithelial cell barrier disruption and impact on sodium-glucose co-transporter expression under low and high glucose conditions*

Best Poster Award:

Award for the best poster of a young scientist (master student or PhD researcher) is sponsored by the Profile Area MedST of RWTH Aachen University.