Poster programme - EBS online 2021

Poster session 1 (15:10 / March 9, 2021)

Affinity Sensors and Biomimetica

Poster no.	First name	Last name	Poster title
PS1-01	Bhargav D.	Mansuriya	Enzyme-free electrochemical nano-immunosensor for early diagnosis of acute myocardial infarction
PS1-02	Ekin Daniel	Sehit Buchenau	Ultrasensitive nonenzymatic electrochemical glucose sensor based on gold nanoparticles and molecularly imprinted polymers
PS1-03	Muqsit	Pirzada	Cancer biomarker detection in human serum samples using nanoparticle decorated epitope-mediated hybrid MIP
PS1-04	Tiziano	Di Giulio	MIP based impedimetric sensor for a chronic disease marker
PS1-05	Sabrina	Di Masi	Electrochemical sensor based on electrosynthesised ion imprinted polymeric film for Cd2+ ions determination in water samples
PS1-06	Dounia	Elfadil	Rapid ultrasound-assisted synthesis of MIPs for sulfonamides
PS1-07	Marcus	Menger	Binding affinity analysis and applications of DNA aptamers for therapeutic anthracyclines
PS1-08	Elisabetta	Mazzotta	Electrosynthesis of a molecularly imprinted poly(metalloporphyrin) for the selective detection of carnosine
PS1-09	Patrick Severin	Sfragano	An electrochemical assay based on a bicyclic peptide for urokinase-type plasminogen activator (uPA) determination
PS1-10	Wisnu Arfian Anditya	Sudjarwo	Molecularly imprinted polymer nanoparticles for Human Serum Albumin (HSA) assay using Quartz Crystal Microbalance (QCM)
PS1-11	Cynthia Jean-Jacques	Forier Toulmé	Detecting pesticides with aptasensors.
PS1-12	Aysu	Yarman	Strep-Tag II-Imprinted Polymer for the Recognition of Recombinant Proteins

PS3-24	Esther	Sánchez-Tirado	Electrochemical immunosensors for the sensitive determination of rheumatoid arthritis biomarkers
PS3-25	Alejandro	Valverde	Electrochemical bioplatform to unravel neurodegeneration and Alzheimer's disease through the determination of neurofilament light chain protein

Poster Session 4 (15:10 / March 12, 2021)

Virus and Bacteria Detection

Poster no.	First name	Last name	Poster title
PS4-03	Chiara	Giliberti	Smart and portable immunosensors for serological assessment of SARS-CoV-2 infection and rapid evaluation of immunity against SARS-CoV-2
PS4-04	Anna	Gebhard	Development of a High-Throughput Cell-free Neutralization Test for SARS-CoV-2
PS4-05	Melanie	Jablonski	Studying the adsorption of tobacco mosaic virus particles on capacitive field-effect biosensors
PS4-06	Marlen	Kruse	Towards Measuring Multivalent Binding Interactions: Binding of Viruses and Peptides on DNA-nanoconstructs
PS4-07	Julia	Neumair	Flow-based chemiluminescence microfluidic chip for capturing bacteria with affinity ligands
PS4-08	Sandra	Stanke	AC field assisted deposition of influenza viruses on nanoelectrodes
PS4-09	Philipp	Streich	Characterization and validation of screening methods for cultureindependent detection of Legionella in artificial water systems
PS4-10	Rebeca Magnolia	Torrente Rodriguez	A Multiplexed Graphene-Based Telemedicine Platform for Rapid, Remote and Low-Cost COVID-19 Control and Monitoring
PS4-11	Ceren	Yaslanmaz	Development of a fast and reliable quantitative Loop-mediated isothermal amplification (qLAMP) assay for the detection of viral SARS-CoV-2 RNA (Cor(e)-LAMP)
PS4-12	Stefanie	Zwirner	On-chip detection of Salmonella in food, coupling the loop mediated isothermal amplification with microarray technology for increased specificity

Cell- and cell-associated sensing

Poster no.	First name	Last name	Poster title
PS4-13	Eva-Maria	Laux	AC electrokinetic immobilization of K562 exosomes on nanoelectrode arrays
PS4-14	Karl-Heinz	Feller	Whole cell biosensors for cytotoxicity and chemosensitivity assays
PS4-15	Johanna	Hutterer	Characterization of cell adsorption on extracellular matrix proteins and peptides using RIfS and SCORE
PS4-16	Honeyeh	Matbaechi Ettehad	Characterization and manipulation of yeast cells using microfluidic-based interdigitated biosensor
PS4-17	Clemens	Spitzenberg	Development of a functional complement assay based on liposomes
PS4-18	Patrycja	Sokołowska	Lab-on-a-chip system for developing and fluorescence imaging a three-dimensional model of pancreatic islets under flow conditions.
PS4-19	Felix	Thier	Platelet Imprinted Polymers for rapid platelet function monitoring

Enzyme Sensing and Pseudoenzymatic Systems

Poster no.	First name	Last name	Poster title
PS4-20	Alexander	Zarochintsev	Prussian Blue based nanozymes: electrocatalytic properties and applications for electrochemical (bio)sensors
PS4-21	Ivan	Piovarci	Protease biosensor based on modification of gold nanoparticles and optical methods
PS4-22	Gero	Göbel	Voltammetric activity determination of the human catechol-Omethyl transferase at fluorine doped tin oxide
PS4-23	Sandro	Spagnolo	Detection of trypsin and plasmin using a QCM sensor based on β-casein immobilized on a hydrophobic surface
PS4-24	Emilia	Renzi	Artificial heme-peroxidases for the construction of functional bionanoconjugates

PS4-25	Vera	Shavokshina	Direct bioelectrocatalysis of glucose dehydrogenase facilitated by carbon black: towards one-step fabrication of biosensors
PS4-26	Xiaomei	Yan	Fructose dehydrogenase on self-assembled monolayers for fructose sensors
PS4-27	Tautgirdas	Ruzgas	Epidermal sensing of H2O2: optical, Prussian blue based, visualisation of penetration pathways in skin
PS4-28	Sascha	Morlock	A photobioelectrochemical biofuel cell: exploiting light and biofuels for energetics
PS4-30	Cristina	Muñoz San Martín	Electrochemical biosensing of specific proteases and hypoxia biomarkers to early identifying cancer aggressiveness