Program of the

23\textsuperscript{rd} Topical Meeting of the
International Society of Electrochemistry

Electrochemistry for Investigation of Biological Objects: from Functional Nanomaterials to Micro/Nano-Electrodes

8-11 May 2018
Vilnius, Lithuania

Organized by:
Division 2 Bioelectrochemistry
ISE Region Lithuania
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Pawel Krysinski, Warsaw, Poland
Elisabeth Lojou, Marseille, France
Albertas Malinauskas, Vilnius, Lithuania
Rasa Pauliukaite, Vilnius, Lithuania (Chair)
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Wednesday 9 May 2018 - Morning

Keynote

Room R106

Chaired by: Fred Lisdat

09:15 to 09:55 Keynote

Plamen Atanassov (Chemical & Biological Engineering, University of New Mexico, Albuquerque, USA)

Functional Nano-Materials for Bio-Electrochemical Devices

Electrochemistry for Investigation of Biological Objects

Room R106

Chaired by: Jacek Lipkowski and Renata Bilewicz

09:55 to 10:25 Invited

Jacek Lipkowski (Chemistry, University of Guelph, Guelph, Canada), Fatemeh Abbasi, J.Jay Leitch, Muzaffar Shodiev, Zhangfei Su

Electrochemical, PM-IRRAS and AFM Studies of Ion Channels Formation by Alamethicin in Model Phospholipid Bilayers

10:25 to 10:40

Coffee Break

10:40 to 11:00

Francisco Prieto (Department of Physical Chemistry, University of Seville, Seville, Spain), Maria L. Gonzalez-Rodriguez, Nabila Naitlho, Antonio M. Rabasco, Manuela Rueda, Marcos Vazquez-Gonzalez

Impedance Study of Doxorubicin Reduction on Mixed Lipid Monolayer Coated Au(111) Electrodes: Implications for Doxorubicin Delivery
11:00 to 11:20

**Dorota Matyszewska** (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Renata Bilewicz

*Phospholipid membranes as simple models to study the interactions with anticancer drugs.*

11:20 to 11:40

**Ewa Nazaruk** (Chemistry Department, University of Warsaw, Warsaw, Poland), Renata Bilewicz, Damian Gawel, Marlena Godlewska, Agnieszka Majkowska-Pilip

*Towards Sustained Drug Delivery Systems - Retardation of Drug Release from Hexagonal Mesophases Measured by Voltammetry.*

11:40 to 12:00

**Slawomir Sek** (Faculty of Chemistry, Biological & Chemical Research Centre, University of Warsaw, Warsaw, Poland), Joanna Juhaniewicz-Debinska, Dagmara Tymecka

*Mechanism of ultra-short lipopeptides action on solid supported bilayers composed of bacterial membrane lipids.*

12:00 to 12:20

**Izabella Brand** (Department of Chemistry, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany), Joanna Juhaniewicz-Debinska, Bishoy Khairalla, Slawomir Sek

*Impact of the acyl chain fluidity on the structure of models of the outer membrane of gram negative bacteria adsorbed on the gold electrode surface.*
Wednesday 9 May 2018 - Afternoon

Electrochemistry for Investigation of Biological Objects
Room R106

Chaired by: Plamen Atanassov and Christian Amatore

13:25 to 13:45 Invited

Gintaras Valincius (Life Sciences Center, Vilnius University, Vilnius, Lithuania), Gintaras Dreizas, Marija Jankunec, Tadas Meskauskas, Tadas Penkauskas

Electrochemical impedance of heterogeneous phospholipid bilayers on solid electrodes

13:45 to 14:05

Martina Zatloukalova (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Renata Bilewicz, Ewa Nazaruk

Activity of Transmembrane Protein Na+/K+-ATPase Hosted in Lipid Liquid Crystalline Mesophase

14:05 to 14:25

Joanna Juhaniewicz-Debinska (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Slawomir Sek, Dagmara Tymecka

Membrane activity of cationic antimicrobial lipopeptides

14:25 to 14:45

Pauline Lefrancois (Institute of Molecular Sciences, University of Bordeaux, Pessac, France), Stephane Arbault, Jerome Santolini

Electroanalysis of Enzymatic Activities Based on a Biomimetic Microreactor Strategy

14:45 to 15:05

Gunther Wittstock (Institute of Chemistry, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany), Saustin Dongmo, Carsten Dosche, Janina Leyk, Christiane Richter-Landsberg

Local Exposure of Cells to Reactive Oxygen Species Generated at a Polymer-Modified Microelectrode in a SECM Configurations
15:05 to 15:25

**Hadar Ben-Yoav** (Biomedical Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel), Stav Biton, Avia Lavon, Alon Mazafi, Sudheesh K. Shukla, Rajendra P. Shukla

**Miniaturized Electrochemical Biosensors Integrated with Functional Bioelectronic Films for Real-Time Probing of Biomarkers in Biofluids**

15:25 to 15:45

**Andreas Lesch** (Laboratory of Physical and Analytical Electrochemistry, Ecole Polytechnique Federale de Lausanne, Sion, Switzerland), Sorour Darvishi, Hubert H. Girault, Tzu-En Lin

**Electrochemical bio-imaging of tissues with soft microelectrodes**

15:45 to 16:00

Coffee Break

Chaired by: Gintaras Valincius and Mathieu Etienne

16:00 to 16:20

**Araceli González-Cortés** (Analytical Chemistry, Faculty of Chemistry, University Complutense of Madrid, Madrid, Spain), Jose Manuel Pingarron, Esther Sánchez-Tirado, Paloma Yáñez-Sedeño

**Magnetic multiwalled carbon nanotubes as nanocarrier tags for the sensitive determination of fetuin in saliva**

16:20 to 16:40

**Rokas Zalneravicius** (Department of Electrochemistry Material Sciences, Center for Physical Sciences and Technology, Vilnius, Lithuania), Arunas Jagminas

**Ultra-small nanoparticles as efficient antibiotics**

16:40 to 17:00

**Haesik Yang** (Department of Chemistry, Pusan National University, Busan, Korea)

**Enzyme-Like Nanocatalyst for Ultrasensitive and Stable Biosensing**
17:00 to 17:20

**Paloma Yáñez-Sedeño** (Analytical Chemistry, University Complutense of Madrid, Madrid, Spain), Araceli González-Cortés, Gonzalo Martínez-García, Jose Manuel Pingarron, Esther Sánchez-Tirado

*Electrochemical bioplatforms using carboxylated porous polymer for detection of obesity biomarkers. Application to amylin quantification*

17:20 to 17:40

**Susana Campuzano Ruiz** (Analytical Chemistry, Universidad Complutense de Madrid, Madrid, Spain), María Pedrero, Jose Manuel Pingarron, Eloy Povedano, A. Julio Reviejo, Víctor Ruiz-Valdepeñas Montiel, Rebeca M. Torrente-Rodriguez, Eva Vargas

*Simply handy and tailored sensitivity electrochemical DNA/RNA biosensing methodologies*

Poster Session

19:30

Free walking excursion in Vilnius downtown
Thursday 10 May 2018 - Morning

Keynote

Room R106

Chaired by: Wolfgang Schuhmann

09:00 to 09:40 Keynote

Ana Maria Oliveira-Brett (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Ana-Maria Chiorce-Paquim, Victor C. Diculescu, T. Adrian Enache, S. Carlos B. Oliveira

Protein-DNA Interactions and Protein Electrochemical Oxidation

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Electrochemistry for Investigation of Biological Objects

Room R106

Chaired by: Lo Gorton and Gunther Wittstock

09:40 to 10:10 Invited

Jose Manuel Pingarron (Analytical Chemistry, Universidad Complutense de Madrid, Madrid, Spain), Susana Campuzano Ruiz, Eloy Povedano, Víctor Ruiz-Valdepeñas Montiel, Rebeca M. Torrente-Rodriguez, Eva Vargas

Electrochemical biosensing of epigenetic biomarkers for early detection of cancer

10:10 to 10:25

Coffee Break

10:25 to 10:45

Inga Morkvenaite-Vilkonciene (Department of Electrochemical Material Science, Center for Physical Sciences and Technology, Vilnius, Lithuania)

Application of Scanning Electrochemical Microscopy in Bioelectrochemistry
10:45 to 11:05

**Michal Kizling** (College of Individual Studies in Nature Science, University of Warsaw, Warsaw, Poland), Renata Bilewicz, Maciej Dzwonek, Agnieszka Wieckowska

*Gold Clusters Smaller Than Protein Molecules Mediate Electron Transfer in Bioelectrocatalytic Reaction*

11:05 to 11:25

**Marius Dagys** (Life Sciences Center, Vilnius University, Vilnius, Lithuania), Juozas Kuly, Audrius Laurynenas, Liucija Marcinkeviciene, Rolandas Meskys, Gediminas Niaura, Dalius Ratautas, Sergey Shleev, Martynas Talaikis, Regina Vidziunaite

*Oxygen Electroreduction Catalysed by Laccase Wired to Gold Nanoparticles via the Trinuclear Copper Cluster*

11:25 to 11:45

**Mathieu Etienne** (LCPME, CNRS, Villers-les-Nancy, France), Frédéric Jorand, Elisabeth Lojou, Stephane Pinck

*Artificial Living Biocomposites to Mimic Electroactive Biofilms*

11:45 to 12:05

**Priscilla Baker** (Chemistry, University of the Western Cape, Bellville, South Africa), Jessica Chamier, Siyabulela Hamnca, Emmanuel Iwuoha

*Electrochemical detection of sulphonamide drugs at highly processable electrospun nanofibres of polyamic acid*

12:05 to 12:25

**Dmitri Ciornii** (Biosystem Technology, TH Wildau, Wildau, Germany)

*Combining photosystem I with enzymes: a competitive reaction between a photocatalytic and an enzymatic pathway*
Thursday 10 May 2018 - Afternoon

Electrochemistry for Investigation of Biological Objects

Room R106

Chaired by: Ana Oliveira-Brett and Jose Manuel Pingarron

13:25 to 13:45 Invited

Christian Amatore (UMR 8640, Department of Chemistry, CNRS & ENS, Paris, France)
- Direct Electrochemical Detection of Intracellular and Subcellular Biological Events

13:45 to 14:05

Wolfgang Schuhmann (Analytical Chemistry - Center for Electrochemical Sciences, Ruhr-Universität Bochum, Bochum, Germany), Corina Andronescu, Jan Clausmeyer, Andrzej Ernst, Miriam Marquitan, Thomas Quast, Adrian Ruff, Patrick Wilde
- Nanosized Gate-Modulated Field Effect Transistors and Amperometric Nanobiosensors

14:05 to 14:25

Stephane Arbault (ISM, CNRS UMR5255, NSysA group, University of Bordeaux, Pessac, France), Camille Colin, Jérôme Launay, Gabriel Lemercier, Fadhila Sekli Belaïdi, Neso Sojic, Pierre Temple-Boyer, Venkata S.R. Vajrala, Dodzi K. Zigah
- Microwell Array Integrating Ring Nanoelectrodes for the Monitoring of Bioenergetic Responses from Single Mitochondria

14:25 to 14:45

Alan O’Riordan (Nanotechnology Group, Tyndall National Institute - University College Cork, Cork, Ireland), Niamh Creedon, Riona Sayers
- Agriculture 4.0: Rapid, Label-free Nano-electrochemical based Detection of Bovine Diseases in Serum
14:45 to 15:05

**Emma Blundell** (Chemistry, Loughborough University, Loughborough, United Kingdom), Mark Platt

*Identifying Species-Specific Pathogens and Small Molecules Using Aptamers and Resistive Pulse Sensing.*

15:05 to 15:25

**Masaru Kato** (Faculty of Environmental Earth Science, Hokkaido University, Sapporo, Japan), Shogo Nakagawa, Takehiko Tosha, Ichizo Yagi

*Surface-Enhanced Infrared Absorption Spectroscopy of Bacterial Nitric Oxide Reductase under Electrochemical Control.*

15:25 to 15:45

**Xing-Hua Xia** (School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China)

*Plasmon enhanced spectroscopic and electrochemical detection of biomolecules.*

15:45 to 16:00

Coffee Break

*Chaired by: Orlando Fatibello Filho, Priscilla Baker*

16:00 to 16:20

**Hanna Elzanowska** (Department of Chemistry, University of Warsaw, Warsaw, Poland), Dominika Janiszek, Monika M. Karpinska, Anita Kosmider, Pawel J. Kulesza, Magdalena Maj-Zurawska, Andrzej Niewiadomy

*Correlation of Spectroscopic (UV-Vis, CD) and Electrochemical Data with Biological Tests on Cancer Cells on the Interactions Between DNA, Pentamidine and a Prospective Anticancer Drug Cl-IPBD.*

16:20 to 16:40

**Jing-Juan Xu** (Chemistry, Nanjing University, Nanjing, China)

*Bidirectional Electrochemiluminescence Color Switch: An Application in Detecting Multi-marker of Prostate Cancer.*
16:40 to 17:00

Anne de Poulpiquet (Bioenergetics and Protein Engineering, Aix-Marseille University, Marseille, France), Stephane Arbault, Laurent Bouffier, Thomas Doneux, Marie-Therese Giudici-Orticoni, Bertrand Goudeau, Artemis Kosta, Hugo Le Guenno, Pauline Lefrançois, Elisabeth Lojou

*In-situ Fluorescence Confocal Microscopy for the Study of Electrochemical and Electro-enzymatic Reactivity*

17:00 to 17:20

Rosa Rego (Chemistry Department and CQ-VR, University of Trás-os-Montes e Alto Douro, Quinta de Prados, Portugal), Filipa Amaro, Mafalda Azevedo, Nuno Vale

*Modified Carbon Black Ink-Based Electrodes to Study the Interaction of Classical Drugs with DNA*

17:20 to 17:40

Gediminas Niaura (Organic Chemistry, Center for Physical Sciences and Technology, Vilnius, Lithuania), Tatjana Charkova, Marius Dagys, Olegas Eicher-Lorka, Ilja Ignatjev, Ieva Matulaitiene, Martynas Talaikis, Agne Zdaniauskiene

*Surface Enhanced Raman Spectroscopy of Biomolecules at Electrochemical Interface*

17:40 to 18:00

Miklos Gratzl (Biomedical Engineering, Case Western Reserve University, Cleveland, USA)

*Capacitive Biofouling*

19:30 Banquet
Keynote

Room R106

Chaired by: Christopher Brett

09:00 to 09:40 Keynote

Lo Gorton (Department of Biochemistry and Structural Biology, Lund University, Lund, Sweden)

Analytical Tools Based on Electrochemical Communication between Enzymes/Cells and Electrodes

Electrochemistry for Investigation of Biological Objects

Room R106

Chaired by: Gediminas Niaura, Hadar Ben-Yoav

09:40 to 10:10 Invited

Fred Lisdat (Biosystems Technology, Institute of Applied Life Sciences, Technical University of Applied Sciences Wildau, Wildau, Germany)

Shining light on electrodes – applications in bioanalysis and bioenergetics

10:10 to 10:25

Coffee Break

10:25 to 10:45

Paweł Krysinski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Stephen M. Baumler, Aleksandra Misicka, Dorota Nieciecka, Anna Puszko

Interactions of Mitoxantrone-Modified Superparamagnetic Iron Oxide Nanoparticles with Biomimetic Membranes and Cells

10:45 to 11:05

Ali Ozcan (Faculty of Science, Department of Chemistry, Anadolu University, Eskisehir, Turkey), Ayca A. Ozcan

Preparation of Conducting Polymers Modified Pencil Graphite Electrodes for the Voltammetry Applications
11:05 to 11:25

**Vessela Tsakova** (Phase Formation, Crystalline and Amorphous Materials, Institute of Physical Chemistry, Bulgarian Academy of Science, Sofia, Bulgaria), Andreas Bund, Igor Efimov, Violeta Gruia, Vladimir Lyutov, Aneliya Nakova

*Poly(3,4-ethylenedioxythiophene) - Mechanical and Electrochemical Properties in View of Biomedical Applications*

11:25 to 11:45

**Christopher Brett** (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Wanderson da Silva, M. Emilia Ghica

*Novel Redox Polymer and Nanomaterial-based Enzyme Inhibition Sensor Platforms*

11:45 to 12:05

**Ausra Baradoke** (National Center for Sensors Research, Dublin City University, Dublin, Ireland), Robert Forster, Bincy Jose, Lukas Laurinavicius, Rasa Pauliukaitė

*Impedimetric Immunosensors Based on Crosslinked Antibodies to Poly-L-Lysine*

12:05 to 12:25

**Lital Alfonta** (Life Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel), Itai Algov, Ashok Bhagat, Orr Schlesinger

*Redox Enzyme Engineering for Improved ET Properties*
Friday 11 May 2018 - Afternoon

Electrochemistry for Investigation of Biological Objects
Room R106

Chaired by: Stephane Arbault and Pawel Krysinski

13:10 to 13:45 Invited

Orlando Fatibello Filho (Department of Chemistry, Federal University of São Carlos, São Carlos, Brazil)
Carbon (Nano)materials for (Bio)sensing Applications

13:45 to 14:05

Katarzyna Krukiewicz (Centre for Research in Medical Devices, National University of Ireland, Galway, Ireland), Manus Biggs, Agnieszka Kowalik
Electroactive polymer coatings for neuroelectrodes: electrochemical and biological evaluation of PEDOP

14:05 to 14:25

Inga Gabriunaite (Faculty of Chemistry and Geosciences, Vilnius University, Vilnius, Lithuania)
Tin Oxide Based Conducting Oxide as Solid Substrate for Hybrid Bilayer Membrane Formation

14:25 to 15:00

Sarunas Zukauskas (Physical Chemistry, Vilnius University, Vilnius, Lithuania), Gintautas Bagdziunas, Urte Bubniene, Aura Kisieliute, Lina Mikoliunaite, Almira Ramanaviciene
Electrochemical Formation and Application of π-π Conjugated Polymers

15:00 to 15:20

Kamil Wojcik (Department of Chemistry, University of Wroclaw, Woclaw, Poland), Maria Grzeszczuk
Ion-selective 1D polypyrrole nanostructures - synthesis and characterization towards application for dopamine sensing

15:20 to 15:45

Omotayo Arotiba (Applied Chemistry, University of Johannesburg, Johannesburg, South Africa), Azeez Idris, Nonhlangabezo Mabuba, Vanessa Mokwebo, Talifhani Mushiana, Duduzile Nkosi, Narshone Soda
Dendrimer Based Supramolecular Nano-Architectures in Electrochemical Biosensor Design
Poster Presentations

Wednesday 18:00 to 19:30

Electrochemistry of lipid membranes

s1-001
Damian Dziubak (Chemistry, Warsaw University, Warszawa, Poland), Slawomir Sek
Effect of backfiller on electrochemical characteristics of sparsely tethered lipid bilayers on gold electrodes

s1-002
Lukas Laurinavicius (Department of Nanoengineering, Center for Physical Sciences and Technology, Vilnius, Lithuania), Rasa Pauliukaite, Aneta Radzevic, Titas Sirsinaitis
Optimization of graphene immobilization on electrode surface for application in electrochemical biosensing

s1-003
Fred Lisdat (Biosystems Technology, Institute of Applied Life Sciences, Technical University Wildau, Wildau, Germany), S.C. Feifel, M. Hejazi, A. Kapp, K.R. Stieger, P. Turano, A. Zouni
Self exchange of cytochrome c as important pre-requisite for acting as electronic conduit in photoactive electrodes

s1-004
Tadas Penkauskas (Department of Bioelectrochemistry and Biospectroscopy, Vilnius University Life Sciences Center, Vilnius, Lithuania), Marija Jankunec, Gintaras Valincius
Tethered Bilayer Lipid Membranes for Picomolar Detection of Pore-forming Toxins

s1-005
Edita Voitechovic (Department of Nanoengineering, Center for Physical Sciences and Technology (FTMC), Vilnius, Lithuania), Dmitry Kirsanov, Anton Korepanov, Andrey Legin
Application of bio-transducer assisted multisensor system in pharmaceutical production
Biological fuel cells

**s2-001**

**Egidijus Griskonis** (Department of Physical and Inorganic Chemistry, Kaunas University of Technology, Kaunas, Lithuania), Arminas Ilginis, Ilona Jonuskiene, Rolandas Jonynas, Kristina Kantminiene, Monika Maziukiene, Laurencas Raslavicius

Modification of graphite felt as anode for enhanced performance of microbial fuel cells

Emerging applications

**s3-001**

**Abdulkadir Akyol** (Department of Metallurgy and Materials Engineering, Sakarya University, Sakarya, Turkey), Hasan Algul, Ahmet Alp, Harun Gul, Mehmet Uysal

The Effect of Carbon Nanotubes Additive on Corrosion Behavior of Electroless Ni–P–B Coatings

**s3-002**

**Paula Caldevilla-Collado** (R&D, DropSens, Llanera, Spain), Pablo Fanjul Bolado, María Begoña González-García, David Hernández-Santos, Daniel Martín-Yerga, Alejandro Pérez-Junquera

Quantitative Raman Spectroelectrochemistry with screen-printed electrodes for detection of biologically-related species

**s3-003**

**Paula Caldevilla-Collado** (R&D, DropSens, Llanera, Spain), Pablo Fanjul-Bolado, María Begoña González-García, David Hernández-Santos, Marta M.P.S. Neves

Smart Monitoring of Biochemical Analytes using Disposable Electrochemical Enzymatic Sensors

**s3-004**

**Giin-Shan Chen** (Department of Materials Science and Engineering, Feng Chia University, Taichung, Taiwan), Yi-Lung Cheng, Jau-Shiung Fang

Enhancement of Seeding for Electroless Cu Plating of Ta Thin-Film Electrodes by Using Alkyl Self-Assembled Monolayers
s3-005

Yi-Lung Cheng (Department of Electrical Engineering, National Chi-Nan University, Nan-Tou, Taiwan), Chih-Yen Lee

Comparison of Various Low Dielectric Constant Materials.

s3-006

Yi-Lung Cheng (Department of Electrical Engineering, National Chi-Nan University, Nan-Tou, Taiwan), Wei-Jie Hung, Chih-Yen Lee

Electrical and reliability characteristics of dense and porous low-k SiCOH dielectric films by capping a SiCNH layer.

s3-007

Bianca Ciui (Analytical Chemistry Department, Faculty of Pharmacy, UMF Cluj, Cluj-Napoca, Romania), Barbara Brunetti, Cecilia Cristea, Thomas J. Dawkins, Mengjia Lyu, Aida Martin, Rupesh K. Mishra, Tatsuo Nakagawa, Robert Sandulescu, Joseph Wang

Wearable Wireless Tyrosinase Bandage and Microneedle Sensors: Towards Melanoma Screening.

s3-008

Bianca Ciui (Analytical Chemistry Department, Faculty of Pharmacy, UMF Cluj-Napoca, Cluj-Napoca, Romania), Andreea Cernat, Cecilia Cristea, Robert Sandulescu, Mihaela Tertis

Hybrid nanoplatform for rapid identification of Pseudomonas aeruginosa siderophore.

s3-009

Aliasghar Ensafi (Chemistry, Isfahan University of Technology, Isfahan, Iran (Islamic Republic of))

Electrochemical Aptasensor for the Attomolar Detection of Bisphenol A Using Molecularly Imprinted Technique.

s3-010

Jau-Shiung Fang (Materials Science and Engineering, National Formosa University, Huwei, Taiwan), Giin-Shan Chen, Y.L. Cheng, C.H. Hsu, S.M. Wang, J.Y. Wong

Cu film fabrication via pulse underpotential deposition of Pb and surface-limited redox replacement of Cu on trenched Ru/SiO2/Si.

s3-011

Paula M. V. Fernandes (Chemistry and Biochemistry, Faculty of Sciences of the University of Porto, Porto, Portugal), José M. Campiña, António F. Silva

Nanocomposite Films of Reduced Graphene Oxide – Fe3O4/ Biopolymer/Lacasse for the Ultrasensitive Determination of Bisphenol A.
s3-012

**Miklos Gratzl** (Biomedical Engineering, Case Western Reserve University, Cleveland, USA), Tamas Cserfalvi, Kihwan Kim

*Absolute Diagnosis of Cystic Fibrosis in Newborns*

s3-013

**Asta Griguceviciene** (Department of Electrochemical Material Science, Center for Physical Sciences and Technology, Vilnius, Lithuania), Dalia Bucinskiene, Eimutis Juzeliunas, Konstantinas Leinartas, Laurynas Staisiunas

*Corrosion of AZ31 alloy coated with ALD-grown HfO2 in Hanks´ solution and atmosphere*

s3-014

**Katarzyna Jakubow** (Department of Chemistry, University of Warsaw, Warsaw, Poland), Barbara Kowalewska

*Electrochemical and Spectroscopic Studies of Oxidase Enzymes Immobilized on 4-(pyrrole-1-yl) Benzoic Acid Functionalized Carbon Nanotubes*

s3-015

**Vassilena Karabozhikova** (Institute of Physical Chemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria), Vessela Tsakova

*Caffeic Acid Oxidation on Poly(3,4-ethylenedioxythiophene)-Modified Electrodes*

s3-016

**Katarzyna Krukiewicz** (Department of Physical Chemistry and Technology of Polymers, Silesian University of Technology, Gliwice, Poland), Beata Cwalina, Dominika Czerwinska

*Electrochemical impedance analysis on drug-loaded conducting polymer matrices*

s3-017

**Thi Xuan Huong Le** (LCPME, CNRS, Villers-les-Nancy, France), Alain Celzard, Mathieu Etienne, Alain Hehn, Francois Lapicque

*Functionalization of Biomolecules by Cytochromes P450 Immobilized on a Porous Electrode*

s3-018

**Hsin-Yi Lee** (Research Division, National Synchrotron Radiation Research Center, Hsinchu, Taiwan), San-Yuan Chen, Sz-Chian Liou

*Characteristics of nano-sized calcium deficient apatite powders*
s3-019
Tadas Matijošius (Electrochemical Material Science, Center for Physical Sciences and Technology, Vilnius, Lithuania), Svajus Asadauskas, Ignas Valsiunas
Anodization of Al Alloy in Phosphoric Electrolyte for Friction Reduction

s3-020
Biljana Mitrova (Institute for Biochemistry and Biology, University of Potsdam, Potsdam, Germany), Tobias Hartmann, Silke Leimkuehler, Ulla Wollenberger
Reversible Formate/CO₂ Bioelectrocatalysis by Immobilized Oxygen Tolerant Formate Dehydrogenase

s3-021
Bettina Neumann (Institute for Biochemistry and Biology, University Potsdam, Potsdam, Germany), Robert Goetz, Frieder W. Scheller, Johannes Schmidt, Matthias Schwalbe, Arne Thomas, Inez M. Weidinger, Ulla Wollenberger
Electrocatalytic Activity of Electropolymerized Iron Porphyrin Based Layers

s3-022
Min-Ah Oh (Chemistry, Seoul National University, Seoul, Korea), Wonkyung Cho, Taek Dong Chung, Joohee Jeon
Neuroligin-1 Functionalized Microbeads Induce Presynaptic Differentiation in Brain Slice Model

s3-023
Ali Ozcan (Faculty of Science, Department of Chemistry, Anadolu University, Eskisehir, Turkey), Ayca A. Ozcan
Preparation of an Electrochemically Modified Disposable Graphite Electrode for Bisphenol-A Sensing

s3-024
Piotr Piotrowski (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Katarzyna Jakubow, Andrzej Kaim, Barbara Kowalewska
Gold Nanoparticles Functionalized with C₇₀ Fullere Derivative for Construction of Hybrid Glucose Biosensing System

s3-025
Aneta Radzevic (Department of Nanoengineering, Center for Physical Sciences and Technology, Vilnius, Lithuania), Rasa Pauliukaite
Electrocopolymerization of B-Group Vitamins on Carbon Electrodes
s3-026
José Ribeiro (Department of Chemistry and Biochemistry, Sciences Faculty of Porto, Porto, Portugal), Carlos M. Pereira, M. Goreti F. Sales, António F. Silva

Disposable Electrochemical Detection of Breast Cancer Tumour Marker CA 15-3 Using Poly(Toluidine Blue) as Imprinted Polymer Receptor

s3-027
José Ribeiro (Department of Chemistry and Biochemistry, Sciences Faculty of Porto, Porto, Portugal), Carlos M. Pereira, Tânia S.C.R. Rebelo, António F. Silva

Electrochemical Biosensor Based on Imprinted Material for Amylase Detection

s3-028
Caroline G. Sanz (Instituto de Química, Universidade de São Paulo, São Paulo, Brazil), Christopher Brett, Silvia Helena Pires Serrano

Electrochemical Characterization of β-lactam Antibiotics at Glassy Carbon and Carbon Nanomaterial Modified Electrodes

s3-029
Rajendra P. Shukla (Biomedical Engineering, Ben-Gurion University of the Negev, Beer sheva, Israel), Hadar Ben-Yoav, Sudheesh K. Shukla

Reduced Graphene Oxide-Modified Microelectrodes for Antipsychotic Clozapine Detection in Serum

s3-030
Povilas Simonis (Laboratory of Bioelectrochemistry, Center for Physical Sciences and Technology, Vilnius, Lithuania), Rasa Garjonyte, Arunas Stirke

Investigation of a Pulsed Electric Field Effects on Saccharomyces cerevisiae Cells Using Mediated Amperometry

s3-031
Ting-Kan Tsai (Department of Materials Science and Engineering, National Formosa University, Huwei, Yunlin, Taiwan)

Preparation of PdNi/Al₂O₃ composite membranes by electroless co-deposition

s3-032
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