



BIOSENSORS

Ninth International Workshop
09- 11 October 2019 / Merzouga, Morocco
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Final Program

The Ninth International Workshop on Biosensors

9th - 11th October, 2019

EL ATI Hotel

Erfoud, MOROCCO



2019

EL ATI Hotel Erfoud,
MOROCCO

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C.M.A. Brett (Portugal),

G. Palleschi (Italy)

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***Professor Aziz Amine**

Université Hassan II de Casablanca Faculté des Sciences et Techniques. B.P. 146, 20800 Mohammedia, Morocco

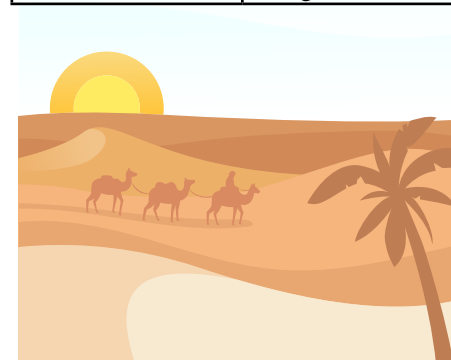
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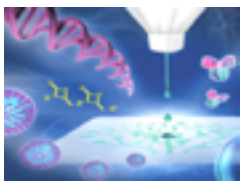
SCIENTIFIC PROGRAM

Wednesday October 09th, 2019	
08H30-09H15	Registration & Poster display
09H15-09H30	Opening
Chair Palleschi	
09H30-10H20	PL1
10H20-10H50	KN1
10H50-11H20	KN2
11H20-11H50	Coffee Break and Poster Session
Chair Vadgama	
11H50-12H20	KN3
12H20-12H40	OC1
12H40-13H00	OC2
13H00-13H20	OC3
13h20-13h40	OC4
13H40-14H00	OC5
14H00-15H30	Lunch and Poster Session
15H30-17H00	Visit of OASIS BIOTECH-NOLOGIE laboratory Visit of Museum of Fossils
17H00	Departure to Desert in Merzouga



Thursday October 10th, 2019	
Chair Christopher Brett	
09H00-09H50	PL2
09H50-10H20	KN4
10H20-10H50	KN5
10H50-11H10	OC 6
11H10-11H20	DEMO PalmSens / HTDS
11H20-11H50	Coffee Break and Poster Session
Chair Jaffrezic	
11H50-12H10	OC7
12H10-12H30	OC8
12H30-12H50	OC9
12H50-13H20	Meeting with Editors
13H20-14H30 Lunch and Poster Session	
Chair Compagnone	
14H30-14H50	OC10
14H50-15H10	OC11
15H10-15H30	OC12
15H30-15H50	OC13
15H50-16H10	OC14
16H10-16H30	OC15
16H30-17H00	Coffee Break and Poster Session
Chair Errachid	
17H00-17H20	OC16
17H20-17H40	OC17
17H40-18H10	OC18
18H10-18H30	Tips for young researchers
20H Diner	

Friday October 11th, 2019	
Chair Plaxco	
08H30-09H00	KN5
09H00-09H30	KN6
09H30-10H00	KN7
10H00-10H30	KN8
10H00-11H00	Coffee Break
Chair Katakya	
11H00-11H20	OC19
11H20-11H40	OC20
11H40-12H00	OC21
12H00-12H20	OC22
12H20-12H40	OC23
12H40-14H30 Lunch	
Chair Arduini	
14H30-14H50	OC24
14H50-15H10	OC25
15H10-15H30	OC26
15H30-15H50	OC27
15H50-16H10	OC28
16H10-16H40	Coffee Break
Amine, Brett, Palleschi	
16H40-17H00	Closing
20H Diner	



Conferences

PL 1:
COUNTING MOLECULES, DODGING BLOOD CELLS: CONTINUOUS, REAL-TIME MOLECULAR MEASUREMENTS DIRECTLY IN THE LIVING BODY.
Kevin W. Plaxco, University of California, USA

PL 2:
BIOCHEMICAL INTERACTIONS AT LIQUID-LIQUID INTERFACES.
Ritu Katak, Durham University, U.K

Keynote lectures

KN 1:
ELECTROCHEMICAL DNA NANO-BIOSENSORS DEVICES FOR DETECTION OF DRUG RESISTANCE
Hafsa Korri-Yousseufi, University Paris–Sud, France

KN 2:
MICROBIAL FUEL CELLS: ELECTROACTIVE ANODIC BIOFILMS FOR ELECTRICAL ENERGY PRODUCTION
Naoufel Haddour, Central School of Lyon, France

KN 3:
A CO-OPERATIVE HEALTH ENVIRONMENT TARGETING ADHERENCE AND MANAGEMENT OF PATIENTS SUFFERING FROM HEART FAILURE
Abdelhamid Errachid, Université de Lyon, Institut des Sciences Analytiques (ISA), France

KN 4:
APPLIED BIOSENSING FOR THE MEDICAL INTERFACE
Pankaj M. Vadgama, School of Engineering and Materials Science, University of London, UK

KN 5:
NOVEL MATERIALS FOR ELECTROCHEMICAL BIOSENSING OF NUCLEIC ACIDS
Ilaria Palchetti, University of Florence, Italy

KN 6:
CANCER BIOMARKERS SENSING USING NANOMETRIC E-BIOPLATFOM
Noureddine Raouafi, University of Tunis El Manar, Tunisia

KN 7:
ELECTROCHEMICAL NANOBIOSENSORS FOR DIAGNOSIS AND MONITORING OF DISEASES
Jahir Orozco Holguin, University of Antioquia, Colombia.

KN 8:
PORPHYRIN BASED ARTIFICIAL OLFACTION SYSTEMS
Roberto Paolesse, University of Rome Tor Vergata, Italy

Meeting with Editors (30 minutes)

Aziz Amine (Biosensors & Bioelectronics journal)

Nicole Jaffrezic-Renault (Sensors and Actuators B: Chemical journal)

Pankaj M. Vadgama, (Bioelectrochemistry journal)



Tips for young researchers (20 minutes)

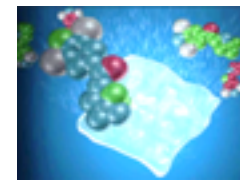
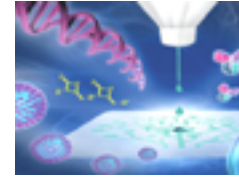
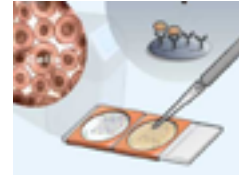
“Mobility fellowships for post-doc researchers”

“ Communication skills”

Stefano Cinti,

-Department of Pharmacy, University of Naples Federico II.

-Dissemination of Chemical Culture group, Italian Chemical Society.



Oral communications

OC 1:
IMPLANTABLE BIOFUEL CELL, PAST, PRESENT AND FUTURE
Abdelkader Zebda
University Grenoble Alpes, SyNaBi, TIMC-IMAG/CNRS/INSERM, UMR 5525, F-38000, Grenoble, France

OC 2:
APPLICATION OF LANGMUIR-BLODGETT (LB) FILMS OF SELECTED BIS(BITHIENYL)METHANE DERIVATIVES FOR SURFACE IMPRINTING OF HUMAN SERUM ALBUMIN
K. Gołbiewska¹, A. Szymańska¹, P. Borowicz¹, S. Shao², F. D'Souza³, K. Noworyta¹
¹Institute of Physical Chemistry Polish Academy of Science, Kasprzaka 44/52 Warsaw, Poland
²Department of Chemistry, University of North Texas, Denton TX, USA

OC 3:
APTASENSORS THAT DISTINGUISHES SUB-TYPES OF INFLUENZA A VIRUSES
Penmetcha Krishna Rajendra Kumar
Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Central 6, 1-1-1 Higashi, Tsukuba Science City, Ibaraki 305-8566, JAPAN

OC 4:
A MINIATURIZED ALL-SOLID-STATE ION-SELECTIVE ELECTRODE BASED ON A CARBON BLACK TRANSDUCER FOR SODIUM DETECTION IN SWEAT
V. Mazzaracchio¹, A. Serani¹, D. Moscone¹, F. Arduini¹
¹Department of Chemical and Science Technologies, University of Rome “Tor Vergata”, Via della Ricerca Scientifica 1, 00133, Rome, Italy.

OC 5:
BIOELECTRONICS SURFACE BASED ON CONJUGATED DI-BLOCK POLYTHIOPHENE CONJUGATED MANNOSE FOR LABEL-FREE BACTERIA DETECTION
N. El Giddawy^{1,3}, Shiwei Ren², Théo Champetier², Waleed M.A. ElRouby³, H. Dorizon¹, A. Yassar² and H. Korri-Yousseufi¹
¹Institut de Chimie Moléculaire et des Matériaux d'Orsay (ICMMO), ECBB, (UMR -CNRS 8182) Université Paris-Sud, Université Paris-Saclay, Bât 420, 2 Rue du Doyen Georges Poitou, 91400, Orsay, France
²LPICM, CNRS, Ecole Polytechnique, Université Paris-Saclay, 91128, Palaiseau, France
³Faculty of postgraduate studies for advanced science, Beni-suef University, Egypt

OC 6:
THE SONOGEL-CARBON-PEDOT MATERIAL: AN INNOVATIVE BULK MATERIAL FOR SENSOR DEVICES
D. López-Iglesias, J. J. García-Guzmán, J. M. Palacios-Santander, L. Cubillana-Aguilera
Institute of Research on Electron Microscopy and Materials (IMEYMAT), Department of Analytical Chemistry, Faculty of Sciences, Campus de Excelencia Internacional del Mar (CEIMAR), University of Cadiz, Campus Universitario de Puerto Real, 11510 Puerto Real, Cadiz-Spain.

OC 7:
GREEN AND FAST SYNTHESIS ROUTE OF (BIO)SENSING MATERIALS USING A HIGH POWER ULTRASOUND PROBE: RECENT ACHIEVEMENTS
J. J. García-Guzmán, D. López-Iglesias, L. Cubillana-Aguilera, J. M. Palacios-Santander
Institute of Research on Electron Microscopy and Materials (IMEYMAT), Department of Analytical Chemistry, Faculty of Sciences, Campus de Excelencia Internacional del Mar (CEIMAR), University of Cadiz, Campus Universitario de Puerto Real, 11510 Puerto Real, Cadiz-Spain.

OC 8:
HUMAN CYTOCHROME P450 (CYP1A2)-dsDNA INTERACTION IN SITU EVALUATION USING a dsDNA-ELECTROCHEMICAL BIOSENSOR
Ilanna C. Lopes and Ana Maria Oliveira-Brett
Department of Chemistry, Faculty of Science and Technology, University of Coimbra, 3004-535, Coimbra, Portugal

OC 9:
MODIFIED GRAPHITE CERAMIC ELECTRODE WITH MULTI-WALLED CARBON NANOTUBES AND GOLD NANOPARTICLES FOR SIMULTANEOUS DETERMINATION OF PURINE DERIVATIVES
C. Ferrag^{a,b}, M. Noroozifar^{a,b}, K. Kerman^{a,b}
^a Department of Physical and Environmental Sciences, University of Toronto Scarborough, 1265 Military Trail, Toronto, ON, M1C 1A4, Canada
^b Department of Chemistry, University of Toronto, 80 St. George Street, Toronto, ON, M5S 3H6

OC 10:
DNA-ELECTROCHEMICAL BIOSENSOR APPLICATIONS IN THE INVESTIGATION OF DRUG-DNA INTERACTION MECHANISMS
W. B. S. Machini and A. M. Oliveira-Brett
Department of Chemistry, Faculty of Science and Technology, University of Coimbra, 3004-535, Coimbra, Portugal

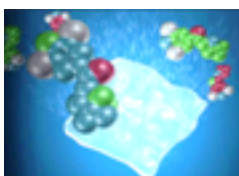
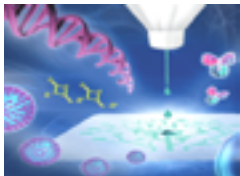
OC 11:
CAN ELECTROCHEMICAL BIO-SENSORS HELP FOOD TECHNOLOGISTS IN THE ASSESSMENT OF CEREAL AND PSEUDOCEREAL BIOACTIVE COMPOUNDS?
M.C. Messia, E. De Arcangelis, M. Oriente, M. Angelicola

OC 12:
OPTICAL SPECTROSCOPY COMBINED WITH VACUUM-FREE MATRIX ASSISTED LASER FRAGMENTATION AND TRANSFER (MALFT) FOR BIOSENSING
Khalid Moumanis¹, Walid M. Hassen¹, Simon Lévesque², Eric H. Frost² and Jan J. Dubowski¹
¹Department of Electrical and Computer Engineering, Interdisciplinary Institute for Technological Innovation (3IT), CNRS UMI-3463, Université de Sherbrooke, 3000 boul. de l'Université, Sherbrooke, QC, J1K 0A5, Canada.
²Department of Microbiology and Infectiology, Faculty of Medicine and Health Science, Université de Sherbrooke, 3001, 12th Avenue North, QC, J1H 5N4 Canada. ⇐

OC 13:
C-NANODOTS BASED LABEL-FREE DNA SENSING
Tania García-Mendiola^{a,b}, Iria Bravo^{a,b}, Félix Pariente^{a,b}, Alejandra Jacobo-Martinb, Isabel Rodríguez, Reinhold Wannemacher^b and Encarnación Lorenzo^{a,b}
^a Departamento Química Analítica y Análisis Instrumental, Institute for Advanced Research in Chemical Sciences (IAdChem) Universidad Autónoma de Madrid, 28049 Madrid, Spain.
^b Instituto Madrileño de Estudios Avanzados (IMDEA) Nanociencia, Faraday, 9, Campus UAM, 28049 Madrid, Spain

OC 14:
ELECTROCATALYSIS AND PEROXIDASE-LIKE MIMICS OF POLYOXOMETALATES AND HIGHLY SENSITIVE ELECTROCHEMICAL DETECTION OF NITRITE, OF HYDROGEN PEROXIDE AND OF GLUCOSE
N. Jaffrezic-Renault
University of Lyon, Institute of Analytical Sciences, UMR CNRS-UCBL-ENS 5280,
5 rue de la Doua 69100 Villeurbanne, France.

OC 15:
LEAD (II) DETECTION IN WASTE WATER BASED ON ELECTROCHEMICAL BIOSENSORS FORMED WITH DNAZYME AND ACRIDINE-FERROCENE INTERCALATOR
M. Hamami¹, N. Raouafi², H. Korri-Yousseufi¹
¹Université Paris- Sud, Université Paris-Saclay, UMR CNRS 8182, Institut de Chimie Moléculaire et des Matériaux d'Orsay, ECBB - Orsay(France).
²University of Tunis El Manar, Faculty of Sciences, Department of Chemistry, Laboratory of Analytical Chemistry and Electrochemistry (LR99ES15), Campus universitaire de Tunis El Manar, 2092 Tunis El-Manar - Tunisia (Tunisia)



Oral communications

OC 16:
SYNTHESIS TECHNIQUES OF MOLECULARLY IMPRINTED POLYMER: APPLICATION OF ULTRASOUND PROBE TECHNIQUE
 Abderrahman Lamaoui¹, Juan José García-Guzmán², José María Palacios-Santandera, Laura Cubillana-Aguilera, Aziz Amineb
 aInstitute of Research on Electron Microscopy and Materials (IMEYMAT), Department of Analytical Chemistry, Faculty of Sciences, Campus de Excelencia Internacional del Mar (CEIMAR), University of Cadiz, Cam-
 pus Universitario de Puerto Real, Polígono del Río San Pedro S/N, 11510, Puerto Real, Cádiz, Spain
 bLaboratoire Génie des Procédés & Environnement, Faculté des Sciences et Techniques, Hassan II University of Casablanca, B.P. 146. Mohammedia, Morocco

OC 17:
FLOWER-LIKE ORIGAMI PAPER-BASED ELECTROCHEMICAL DEVICE FOR THE DETECTION OF PESTICIDES
 V. Caratelli¹, F. Arduini¹, G. Fegatelli¹, G. Pitorri¹, G. Palleschi¹, D. Moscone¹
 1Department of Chemical Science and Technologies, University of Rome Tor Vergata, Via della Ricerca Scientifica, 00133 Rome, Italy

OC 18:
LARGE AREA ORDERED ARRAYS PLASMONIC NANOSTRUCTURES FOR HIGH SENSITIVITY BIOSENSORS
 Maria Grazia Manera, Adriano Colombelli, Daniela Lospinoso, Roberto Rella
 Institute for Microelectronics and Microsystems, CNR IMM unit of Lecce , University Campus Ecotekne, via Monteroni 73100 Lecce, Italy

OC 19:
BIOSENSOR PLATFORMS WITH MODIFIED ELECTRODES BASED ON ELECTROACTIVE POLYMERS PREPARED IN DEEP EUTECTIC SOLVENTS AND CARBON NANOTUBES
 Wanderson da Silva, Mariana Emilia Ghica, Christopher M.A. Brett
 Department of Chemistry, Faculty of Sciences and Technology, University of Coimbra, 3004-535 Coimbra, Portugal

OC 20:
TRANSITION METAL DICHALCOGENIDES BASED NANOHYBRID SENSORS AS USEFUL DEVICES IN FOOD POLYPHENOLS ANALYSIS
 Dario Compagnone¹, Flavio Della Pelle¹, Daniel Rojas^{1,2}, Michele Del Carlo¹, Alberto Escarpa^{1,3}
 1 Faculty of Bioscience and Technology for Food, Agriculture and Environment University of Teramo 64100, Teramo (Italy).
 2 Department of Analytical Chemistry, Physical Chemistry and Chemical Engineering, Faculty of Sciences University of Alcalá, E-28871 Alcalá de Henares, Madrid, Spain
 3 Chemical Research Institute "Andres M. del Rio", University of Alcalá, E-28871, Madrid, Spain

OC 21:
ONE-SIDED COVALENTLY ATTACHED ROBUST BILAYER (OSCAR-B) FOR ELECTROCHEMICAL STUDIES OF BIOMOLECULAR INTERACTIONS
 Q. Hassan, H. Fini, K. Kerman*
 Department of Physical and Environmental Sciences, University of Toronto Scarborough,
 1265 Military Trail, Toronto, ON, Canada, M1C 1A4

OC 22:
AN ORIGAMI PAPER-BASED LAB-ON-A-CHIP FOR PRECISION MEDICINE IN ALZHEIMER DISEASE
 F. Arduini¹, V. Caratelli¹, J. Guiducci¹, D. Moscone¹
 1Department of Chemical and Science Technologies, University of Rome "Tor Vergata", Via della Ricerca Scientifica 1, 00133, Rome, Italy

OC 23:
ONE-STEP REDUCED AND FUNCTIONALIZED GRAPHENE OXIDE BASED BIOSENSOR
 M. Revenga-Parra^{1,2,3}, I. Bravo^{1,2}, F. Pariente^{1,3}, E. Lorenzo^{1,2,3}
 1 Departamento de Química Analítica y Análisis Instrumental, Universidad Autónoma de Madrid, Cantoblanco, 28049 Madrid, Spain.
 2 Instituto Madrileño de Estudios Avanzados en Nanociencia (IMDEA-Nanociencia), Faraday, 9, Campus UAM, Cantoblanco, 28049 Madrid, Spain.
 3 Institute for Advanced Research in Chemical Sciences (IAChem), Universidad Autónoma de Madrid, 28049 Madrid, Spain.

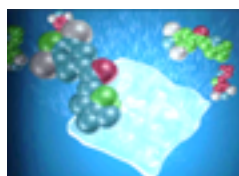
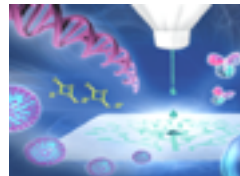
OC 24:
GLUCOSE BIOSENSOR BASED ON NANOTRUCTURED SAMARIUM OXIDE
 Ricardo Leote^{1,2}, Monica Enculescu¹, Cristian M. Teodorescu^{1,2}, Victor Diculescu¹
 1National Institute of Materials Physics Atomistilor 405A, Magurele, Romania
 2University of Bucharest 46 M. Kogălniceanu Bd, Bucharest, Romania

OC 25:
PAMAM-BASED PLATFORMS FOR THE ELECTROCHEMICAL BIOSENSING OF MYCOTOXINS
 Sondes BEN AISSA^{a,b}, Gaëlle CATANANTE¹, Noureddine RAOUAFI¹ and Jean-Louis MARTY*
 a BAE-LBBM Laboratory, University of Perpignan UPVD, 52 Avenue Paul Alduy, Perpignan 66860, France.
 b University of Tunis El Manar, Tunis Faculty of Science, Laboratory of Analytical Chemistry and Electrochemistry (LR99ES15), Sensors and biosensors group, 2092 Tunis El Manar, Tunisia.

OC 26:
AN ELECTROCHEMICAL BIOSENSOR EXPLOITING ALGAE-BASED CARBON BLACK MODIFIED SCREEN-PRINTED ELECTRODES DEVELOPED WITHIN THE BILATERAL AGREEMENT ITALY-MO-ROCCO ALGAE-CB
 Raoia Attallah¹, Amina Antonacci¹, Vincenzo Mazzaracchio¹, Fabiana Arduini¹, Danila Moscone¹, Giuseppe Palleschi¹, Aziz Amine¹, Viviana Scognamiglio²
 1 Faculty of Sciences and Techniques, University Hassan II of Casablanca, Morocco
 2 Institute of Crystallography (IC-CNR), Department of Chemical Sciences and Materials Technologies, Via Salaria km 29.300, 00015, Monterotondo, Italy
 3 Department of Chemical Science and Technologies, University of Rome "Tor Vergata", Via della Ricerca Scientifica, 00133 Rome, Italy

OC 27:
ORTHOGONAL ANTIBODY-REGULATED DNA NANOSTRUCTURE ASSEMBLY AND DISASSEMBLY
 S. Ranallo¹, D. Sorrentino¹, G. Palleschi, F. Ricci¹
 1Dipartimento di Scienze e Tecnologie Chimiche, Università degli Studi di Roma "Tor Vergata", Roma, Italy

OC 28:
RECENT ADVANCES IN SIGNAL AMPLIFICATION STRATEGY BASED ON OLIGONUCLEOTIDES, ENZYMES AND NANOMATERIALS FOR microRNA DETECTION
 Hasna Mohammadi, Ghita Yammouri, Maliana El Aamri and Aziz Amine
 Laboratory of Chemical Engineering & Environment Faculty of Sciences and Technologies, University Hassan II of Casablanca, Morocco



Posters

P1: ELECTROCHEMICAL DETECTION AND IDENTIFICATION OF FUNGAL SPORES

A. Palinska-Saadia*, K. Klosb, J. Pawlowskac, M. Wrzosekc, T. Sokalskid, M. Maj-Zurawskab¹
 a Biological and Chemical Research Center, University of Warsaw, Zwirki i Wigury 101, 02-089 Warsaw, Poland
 b Faculty of Chemistry, Biological and Chemical Research Center, University of Warsaw, Zwirki i Wigury 101, 02-089 Warsaw, Poland
 c Faculty of Biology, Biological and Chemical Research Center, University of Warsaw, Zwirki i Wigury 101, 02-089 Warsaw, Poland
 d Åbo Akademi University, Johan Gadolin Process Chemistry Centre, Laboratory of Analytical Chemistry, Biskopsgatan 8, FI-20500, Turku/Åbo, Finland

P2: ELECTROCHEMICAL DETERMINATION OF GLUTATHIONE, PHYTOCHELATIN AND PHYTOCHELATIN SYNTHASE ACTIVITY

Karel Sehnal^{1,2}, Božena Hosnedlova^{1,4}, Zuzana Tothova¹, Augustine Ofomaja⁵, Rene Kizek^{1,2,3,4,6}
 1 Institute of Viticulture and Wine Production, Faculty of Horticulture, Valtická, 337 691 44 Lednice, Czech Republic; 2 Department of Research and Development, Prevention Medicals, Studenka-Butovice, Czech Republic; 3 Department of Human Pharmacology and Toxicology, Faculty of Pharmacy, VFU Brno, Czech Republic; 4Department of Food and Feed Safety, Veterinary Research Institute, Brno, Czech Republic; 5 Department of Chemistry, Faculty of Applied and Computer Sciences, Vaal University of Technology, South Africa; 6 Department of Biomedical and Environmental Analyses, Faculty of Pharmacy with Division of Laboratory Medicine, Wrocław Medical University, Poland

P3: SET-UP OF A DIRECT COMPETITIVE ELIMC ASSAY FOR A RAPID AND SENSITIVE DETECTION OF MICROCYSTINS

S. Piermarinia, G. Volpea, L. Fabiania, G. Palleschia, L. Sanfilippob, S. Bodinib, P. Moscatetab, D. Moscone

P4: A « LAB-ON-A-DISC », LOD, FOR AQUATIC ECOSYSTEMS MONITORING

Jérôme Launay¹, Eléna Bedel Pereira¹, Isabelle Séguyl¹, Pierre Temple-Boyer¹, Véronique Bardinal¹, Claude Durrieux², Antoine Gosset², Louis Renaud², Jean-François Châteaux², Hugo Freyermuth³, Olivier Margeat⁴, Jörg Ackermann⁴, Christine Videtot Ackermann⁴, Maxime Valay⁵.
 1 Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS, UPR8001), 7 avenue du Colonel Roche, BP 54200, 31031 Toulouse Cedex 4, France.
 2 Laboratoire d'Ecologie des Hydrosystèmes Naturels Anthropisés (LEHNA, UMR5023), 3 rue Maurice Audin, 69518 Vaulx-en-Velin, France.
 3 Institut des Nanotechnologies de Lyon (INL, UMR5270), 43 boulevard du 11 novembre 1918, bâtiment 203 Brillouin, 69622 Villeurbanne Cedex, France.
 4 Centre Interdisciplinaire de Nanoscience de Marseille (CINaM, UMR7325), 163 avenue de Luminy, Campus Luminy, Case 913, 13288 Marseille Cedex 9, France.
 5OrigaLys ElectroChem SAS, Les Verchères 2, 62A Avenue de l'Europe, 69140 Rillieux-la-Pape, France.

P5: VOLTAMMETRIC SENSOR BASED ON ELECTRODEPOSITED MOLECULARLY IMPRINTED CHITOSAN FILM ON BDD ELECTRODES FOR CATECHOL DETECTION

Coral Salvo Comino^{a,c}, Ilhem Rassasa, Maria Luz Rodriguez-Mendez^{b,c}, Abdelhamid Errachida, Nicole Jaffrezic-Renault
 a University of Lyon, Institute of Analytical Sciences, UMR CNRS-UCBL-ENS 5280, 5 rue de la Doua 69100 Villeurbanne, France.
 b Group UVASens. Dpt. Inorganic Chemistry, Engineers School, Universidad de Valladolid, Spain.
 c BioecoUVA Institute. University of Valladolid. Spain

P6: COPPER COATED WITH CARBON NANOFIBER/PDMS COMPOSITE AS ANODES IN MICROBIAL FUEL CELLS

Fatma Bensalah^{1,2}, Naoufel Haddour², François Buret² and Kamel Khirouni¹.
 1 Laboratory of Physics of Materials and Nanomaterials Applied at Environment, Faculty of Sciences in Gabes, Gabes University, 6072, Gabes, Tunisia
 2 Laboratoire Ampère, CNRS UMR 5005, Ecole Centrale de Lyon, Ecully, France

P7: HEAVY METAL SENSING VIA NOVEL MAGNETIC BEADS FUNCTIONALISED WITH NUCLEIC BASES DERIVATIVES

Simona Sawan^{1,2}, Kamal Bou Hadir³, Gaetan Raimondi¹, Abdelhamid Elaissari⁴, Nadia Zine¹, Rita Maalouf¹, Abdelhamid Errachid¹, Nicole Jaffrezic-Renault¹
 1 Institut des Sciences Analytiques, Université de Lyon, Claude Bernard Lyon 1, UMR 5280, CNRS - 5, rue de la Doua, 69100 Villeurbanne, France.
 2 Department of Sciences, Faculty of Natural and Applied Sciences, Notre Dame University - Louaize, Zouk Mosbeh, Lebanon.
 3 Department of Chemistry, American University of Beirut, Beirut 11-0236, Lebanon.
 4 University of Lyon, LAGEPP, CNRS, UMR 5007, 43 Bd. 11 Novembre 1918, Villeurbanne, France.

P8: TOWARDS THE DEVELOPMENT OF AN IMMUNO-RT-PCR FOR DETECTION AND QUANTIFICATION OF S. AUREUS ENTEROTOXIN B

G. Volpe^a, E. Delibato^b, L. Cozzi^b, Y. Proroga^a, D. De Medici^b, G. Palleschi^a
 a Department of Chemical Science and Technologies, "Tor Vergata" University, via della Ricerca Scientifica, Rome, Italy,
 b Department of Food Safety, Nutrition and Veterinary Public Health, Istituto Superiore di Sanità, Viale Regina Elena 299, Rome, Italy
 c Dipartimento di Ispezione degli Alimenti, Istituto Zooprofilattico Sperimentale del Mezzogiorno, Portici (NA), Italy.

P9: A COMPREHENSIVE PICTURE OF GLYCAN EPITOPE COMPOSITION OF A CELL WALL BIO-MASS SAMPLE, VIA GRAVIMETRIC AND ELECTROCHEMICAL SENSING

F. ABDPOOL RAHIM¹, A. TLILI2, G. ATTIA¹, B. ACHOUR³, N. FOURATI¹, R. ZERROUKI4, S. LHERNOULD4, N. YAAKOUBI3, G. COSTA4, C. ZERROUKI1
 1 SATIE, UMR CNRS 8029, Cnam, Paris,75003, France
 2 LIMA, Faculté de Médecine, Université de Monastir, Av. Avicenne Monastir, Tunisie.
 3 LAUM, UMR CNRS 6613, Le Mans Université, Le Mans,72085, France
 4 PEIRENE, Groupe SylvaLim, EA 7500, Université de Limoges, 123, Av. Albert Thomas, 87060 Limoges, France.

P10: ELECTROCHEMICAL ASSAY FOR SENSITIVE DETECTION OF NUCLEIC ACID OF AFRICAN SWINE FEVER VIRUS

Karel Sehnal¹, Miroslava Krzyzankova¹, Božena Hosnedlova¹, Petra Vasicikova¹, Augustine Ofomaja⁴, Rene Kizek^{1,2,3,5}
 1 Department of Research and Development, Prevention Medicals, Studenka-Butovice, Czech Republic; 2 Institute of Viticulture and Wine Production, Faculty of Horticulture, Valtická, 337 691 44 Lednice, Czech Republic; 3Department of Food and Feed Safety, Veterinary Research Institute, Brno, Czech Republic; 4Department of Chemistry, Faculty of Applied and Computer Sciences, Vaal University of Technology, South Africa; 5Department of Biomedical and Environmental Analyses, Faculty of Pharmacy with Division of Laboratory Medicine, Wrocław Medical University, Poland

P11: SIMULATION/EXPERIMENT CONFRONTATION, AN EFFICIENT APPROACH FOR SENSITIVE SAW SENSORS DESIGN

B. ACHOUR¹, N. FOURATI¹, C. ZERROUKI¹, N. YAAKOUBI¹
 1 LAUM, UMR CNRS 6613, Le Mans Université, Le Mans,72085, France
 2 SATIE, UMR CNRS 8029, Cnam, Paris,75003, France

P12: DESIGN OF A LEAD SENSOR BASED ON GALACTOMANNAN EXTRACTED FROM CAROB

Imene Boubezari¹, Ali Zazoua^{1*}, Nicole Jaffrezic-Renault², Abdelhamid Errachid²
 (1) Université de Jijel, BP 98, Ouled Aissa 18000, Algérie
 (2) Université de Lyon-ISA-UMR 5180 CNRS-Université Claude Bernard Lyon 1, 69622 Villeurbanne Cedex, France

P13: USE OF POLYSACCHARIDES EXTRACTED FROM THE "OPUNTIA FICUS INDICA" PRICKLY PEAR RACKETS TO CAPTURE CADMIUM IONS IN HYDRIC ENVIRONMENTS

Ali Zazoua^{1*}, Helim Rabiaa¹, Nicole Jaffrezic-Renault²
 (1) Université de Jijel, BP 98, Ouled Aissa 18000, Algérie
 (2) Université de Lyon-ISA-UMR 5180 CNRS-Université Claude Bernard Lyon 1, 69622 Villeurbanne Cedex, France

P14: DEVELOPMENT OF IMMUNOSENSOR BASED ON GOLD INTERDIGITATED MICROELECTRODES FOR MEASUREMENTS OF HEART FAILURE BIOMARKERS IN SALIVA

N. Hilali^{a,c}, H. Mohammadi^a, A. Amine^a, A. Alcacér^b, J. Bauselles^b, M. Hangouet^c, N. Zine^c, A. Errachid^c
 a)Laboratory of Process Engineering & Environment, Faculty of Science and Techniques, Hassan II University of Casablanca, Morocco
 b)Centro National of Microelectronica (IMB-CSIC) Campus UAB, 08193 Bellaterra, Barcelona, Spain
 c)University of Lyon, Institute of Analytical Sciences, UMR 5280, 5 rue de la Doua, Villeurbanne 69100, France

P15: ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY DETERMINATION OF GLYPHOSATE USING A MOLECULARLY IMPRINTED CHITOSAN

F. Zouaoui^{1,2}, S. Bourouina-Bacha¹, M. Bourouina¹, A. Alcacér³, J. Bauselles², H. Ben Halima¹, J. Gallardo-Gonzalez², I. Abroa-Nemeir³, N. Jaffrezic-renault¹, N. Zine^a, A. Errachid¹
 1 Université de Bejaia, Laboratoire de Génie de l'Environnement, Faculté de Technologie, 06000 Bejaia, Algérie
 2 Centro National of Microelectronica (IMB-CSIC) Campus UAB, 08193 Bellaterra, Barcelona, Spain
 3 Université de Lyon 1, Institut des Sciences Analytiques, UMR 5280, CNRS, 5 rue de la Doua, F-69100 Villeurbanne, France.

P16: GLYCOLIPID-SENSITIZED PLATFORM FOR SPECIFIC MONITORING OF ANTIBODIES

D. Echeverri¹, D. Varon¹ and J. Orozco^{1*}
 a Max Planck Tandem Group in Nanobioengineering, Universidad de Antioquia, Complejo Ruta N, Calle 67 N° 52–20, Medellín 050010, Colombia.
 b Department of Biomolecular Systems, Max Planck Institute of Colloids and Interfaces, Am Mühlenberg 1, 14476 Potsdam, Germany

P17: EFFECT OF THE DILUTION GAS ON THE OPTICAL AND STRUCTURAL PROPERTIES OF NANOCRYSTALLINE SILICON DEPOSITED BY PECVD

Raouia JEMAI¹, Fatma BENSALAH^{1,2}, Kamel KHIROUNI¹
 1 Laboratoire de Physique des Matériaux et Nanomatériaux appliqués à l'Environnement, Faculté des sciences de Gabès, Université de Gabès, 6072, Gabès, Tunisie.
 2 Laboratoire Ampère, École Centrale de Lyon, 36 Avenue Guy de Collongue, 69130 Ecully, France

P18: BIOSENSOR BASED ON FLOW-MODE MICROBIAL FUEL CELL FOR WASTEWATER QUALITY MONITORING AND EARLY WARNING SYSTEMS: COPPER IONS AS TARGET ANALYTE

Abdelghani GHANAM^{1,2}, Naoufel HADDOUR¹, Hasna MOHAMMADI², Aziz AMINE², François BURET¹
 1 Laboratoire Ampère, École Centrale de Lyon 36 avenue Guy de Collongue 69134 Ecully Cedex – France
 2 Laboratoire génie des procédés et environnement, équipe analyse chimiques et biocapteurs, faculté des sciences et techniques B.P. 146, Mohammedia, Université Hassan II, Casablanca – Maroc



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