



BIOSENSORS

Tenth International Workshop
13 – 15 October 2022 / Dakhla, Morocco



Program

The Tenth International Workshop
on Biosensor

13 – 15 October 2022

La Crique Hotel Dakhla, Morocco.

Workshop
Dakhla
2022
Biosensors

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13 – 15 October 2022
08:30 - 18.00 PM



La Crique Hotel Dakhla, Morocco.



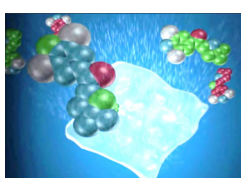
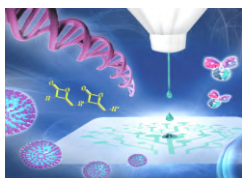
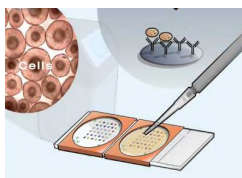
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Tenth International Workshop on Biosensor 2022

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Workshop
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STEERING COMMITTEE :

*A. Amine, Chairman (Morocco),

C.M.A. Brett (Portugal),

G. Palleschi (Italy)

INTERNATIONAL SCIENTIFIC COMMITTEE:

A. Amine (Morocco)
L. Gorton (Sweden)
A. Merkoci (Spain)
C. Bala (Roumania)
J. Hart (UK)
E. Morales-Narváez (Mexico)
C.M.A. Brett (Portugal)
F. B. Ibrahim (Malaysia)
J. Orozco (Colombia)
E. Dempsey (Ireland)
G. Palleschi (Italy)

Arzum Erdem (Turkey)
J-M. Kauffmann (Belgium)
N. Raouafi (Tunisia)
A.Errachid (France)
Y. Korpan (Ukraine)
N. Rozlosnik (Denmark)
O. Fatibello-Filho (Brazil)
Genxi Li (China)
W. Schumann (Germany)
K. Sode (Japan)

TOPICS :

- ELECTROCHEMICAL BIOSENSORS
- OPTICAL BIOSENSORS
- NANOBIOSENSORS & NANOMATERIALS
- LABEL-FREE BIOSENSORS
- NUCLEIC ACID SENSORS AND APTASENSORS
- ENZYME-BASED BIOSENSORS
- IMMUNOSENSORS
- WEARABLE BIOSENSORS

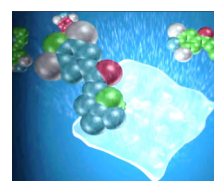
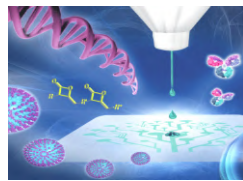
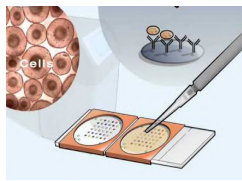
- MOLECULARLY IMPRINTED POLYMERS BASED BIOSENSORS
- WHOLE CELL-BASED BIOSENSORS
- NATURAL & SYNTHETIC RECEPTORS
- PRINTED BIOSENSORS AND MICROFABRICATION
- MICROFLUIDICS
- COMMERCIAL BIOSENSORS

*Professor Aziz Amine

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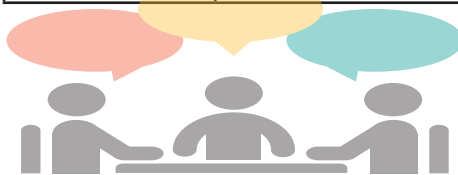
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PRELIMINARY SCIENTIFIC PROGRAM

Thursday October 13th, 2022	
08H30-09H00	Registration & Poster display
09H00-09H15	Opening
Chair. G. Palleschi	
09H15-10H00	PL 1 (Fabiana Arduini)
10H00-10H30	KN 1 (Christopher M A Brett)
10H30-11H00	Coffee Break and Poster Session
Chair. C.M.A. Brett	
11H00-11H30	KN 2 (Eithne Dempsey)
11H30-12H00	KN 3 (Aldo Roda)
12H00-12H30	OC1-OC2
12H30-14H00	Lunch
Chair. Aldo Roda	
14H00-14H45	PL 2 (Chenzhong Li)
14H45-15H15	KN 4 (Khalid Nabil Salama)
15H15-15H45	OC 3 -OC 4
15H45-16H15	Coffee Break and Poster Session
Chair. Dario Compagnone	
16H15-18H00	OC 5-OC11
18H30-23H00	
 GALA DINNER	

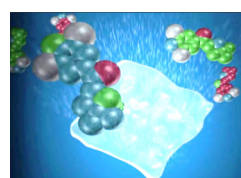
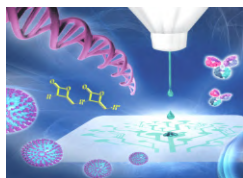
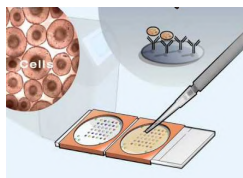
Friday October 14th, 2022	
Chair. Danila Moscone	
08H30-09H15	PL 3 (Luisa Torsi)
09H15-09H45	KN 5 (Mohamed Siaj)
09H45-10H15	KN 6 (Anastasios Economou)
10H15-10H40	Coffee Break and Poster Session
Chair. Abdelhamid Errachid	
10H40-12H40	OC 12-OC19
12H40-14H00	Lunch
Chair. Pankaj M. Vadgama	
14H00-14H45	PL 4 (Priscilla G L Baker)
14H45-15H15	KN 7 (Koji Sode)
15H15-15H45	KN 8 (Camelia Bala)
15H45-16H05	Coffee Break and Poster Session
Chair. Camelia Bala	
16H05-16H35	KN 9 (Abdelhamid Errachid)
16H35-16H50	OC20
16H50-17H05	OC21
17H05-17H20	OC22
17H20-17H35	OC23
17H35-17H50	OC24
17H50-18H10	Meeting with Editors



Saturday October 15th, 2022	
Chair. Fabiana Arduini	
08H30-09H00	KN10 (Flavio Della Pelle)
09H00-09H30	KN11 (Zeynep Altintas)
09H30-10H00	OC 25-OC26
10H00-10H10	Closing
10H10-10H30	Coffee
10H30-18H00	
EXCURSION	

PL: Plenary conference (45 min)
KN: Key-note lecture (30 min)
OC: Oral communication (15 min)

Workshop
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Plenary Conferences

PL 1: PAPER-BASED ELECTROCHEMICAL (BIO)SENSORS AS SMART AND SUSTAINABLE DEVICES

Fabiana Arduini,
University of Rome « Tor Vergata », Italy

PL 2: BIOELECTRONICS FOR POINT OF CARE TESTINGS AND ELECTRICAL THERAPY

Chenzhong Li,
Tulane University, New Orleans, USA

PL 3: SINGLE-MOLECULE RELIABLE DETECTIONS WITH A LARGE-AREA ELECTRONIC INTERFACE

Luisa Torsi,
University of Bari, Italy

PL 4: ELECTROCHEMICAL SENSORS, PAST AND PRESENT – WHERE TO FROM HERE?

Priscilla G L Baker,
University of the Western Cape, South Africa

Key-note lectures

KN 1: NANOSTRUCTURED MODIFIED ELECTRODES WITH NANOMATERIALS AND ELECTROACTIVE REDOX POLYMERS FOR SENSOR AND BIOSENSOR PLATFORMS

Christopher M.A. Brett,
University of Coimbra, Portugal

KN 2: SWEET SENSING – ELECTROANALYSIS OF SUGAR MOLECULES

Eithne Dempsey,
Maynooth University, Maynooth, Ireland

KN 3: EXOSOMES AND THEIR CARGO AS “TWO IN ONE” SENSITIVE AND PREDICTIVE LIQUID BIOPSY TOOLS FOR CANCER BIOMARKERS: NEW GENERATION OF LUMINESCENCE-BASED BIOSENSORS INTEGRATED WITH FFF ISOLATION FROM BIOLOGICAL FLUIDS

Aldo Roda,
University of Bologna, Italy

KN 4: ELECTROCHEMICAL SENSING AND BIOSENSING APPLICATIONS OF LASER-SCRIBED GRAPHENE ELECTRODES

Khaled Nabil Salama,
King Abdullah University of Science and Technology, Saudi Arabia

KN 5: ELECTROACTIVE MATERIALS BASED ELECTRODES FOR LABEL-FREE ELECTROCHEMICAL APTA- AND IMMUNO-SENSORS

Mohamed Siaj,
University of Quebec in Montreal, Canada

KN 6: VOLTAMMETRIC BIOSENSING USING NANOMATERIAL-BASED LABELS

Anastasios Economou,
University of Athens, Greece

KN 7: DIRECT ELECTRON TRANSFER TYPE BIOSENSING MOLECULES FOR CONTINUOUS MONITORING

Koji Sode,
University of North Carolina at Chapel Hill, USA

KN 8: BIOSENSING PLATFORM FOR SPORT MEDICINE AND DOPING CONTROL

Camelia Bala,
University of Bucharest, Romania

KN 9: A NOVEL DETECTION STRATEGY FOR BACTERIA BASED ON THE COMBINATION OF DEP MICROELECTRODES STRUCTURES WITH ISFET pH SENSORS

Abdelhamid Errachid,
University of Claude Bernard Lyon 1, France

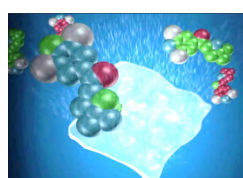
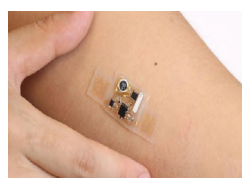
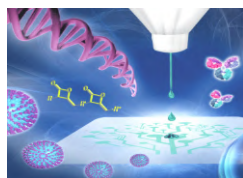
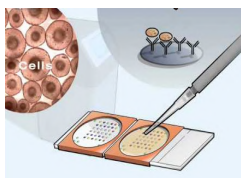
KN 10: NANOMATERIALS INTEGRATED INTO SENSING DEVICES USING EMERGING DESK-TECHNOLOGIES

Flavio Della Pelle,
University of Teramo, Italy

KN 11: BIOSENSOR APPLICATIONS OF IN SILICO DESIGNED FUNCTIONAL MATERIALS

Zeynep Altintas
Technical University of Berlin, Germany & Kiel University, Germany

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Oral communications

OC 01 : SERS DETERMINATION OF OXIDATIVE STRESS MARKERS IN SALIVA SAMPLES USING SUBSTRATES WITH SILVER NANOPARTICLE-DECORATED SILICON NANOWIRES

A. Kanioura¹, G. Geka¹, I. Kochylas², M.A. Apostolaki², V. Likodimos², S. Gardelis², A. Dimitriou³, L. Patsiouras³, N. Papanikolaou³, S. Kakabakos¹, P. Petrou^{1*}

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²Section of Condensed Matter Physics, Department of Physics, National and Kapodistrian University of Athens, Zografou 15771, Greece

³Institute of Nanoscience & Nanotechnology, NCSR "Demokritos", Aghia Paraskevi 15341, Greece

OC 02 : SMART NANOTRANSPORTERS BASED ON METALLOTHIONEIN FOR PANCREATIC CANCER TARGETED THERAPY

Ludek Melich¹, Julia Werle¹, Bozena Hosnedlova³, Marta Kepinska³, Arli Aditya Parkesit³, Agnes Pholosi⁴, Carlos Fernandez⁵, Geir Bjorklund⁶, Richard Prusa¹, Rene Kizek^{1,2}

¹Department of Medical Chemistry and Clinical Biochemistry, Charles University in Prague and Motol University Hospital, Czechia; ²BIOCEV, First Faculty of Medicine, Charles University, Czechia; ³Department of Pharmaceutical Biochemistry, Division of Biomedical and Environmental Sciences, Faculty of Pharmacy, Wrocław Medical University, Poland;

⁴Department of Bioinformatics School of Life Sciences Indonesia International Institute for Life Sciences JI.; ⁵School of Pharmacy and Life Sciences, Robert Gordon University, United Kingdom; ⁶Council for Nutritional and Environmental Medicine, Norway

OC 03 : E-DNA BIOPATFORMS FOR THE SENSITIVE DETECTION OF SNPS IN IL6 AND TGF β 1 GENES FROM OVARIAN CANCER DNA PATIENTS

Maroua Meftah¹, Azza Habel², Sabrine Baachaoui¹, Basma Yaacoubi-Loueslati², Nouredine Raouafi^{1*}

¹Sensors and Biosensors Group, Analytical Chemistry and Electrochemistry Lab (LR99ES15), Chemistry department, Faculty of Science, University of Tunis El Manar, Tunis El Manar 2092, Tunisia.

²Laboratory of Mycology, Pathologies and Biomarkers (LR16ES05), Biology department, Faculty of Science, University of Tunis El Manar, Tunis El Manar 2092, Tunisia

OC 04 : CATIONIC PORPHYRIN TMPYP4 REDOX BEHAVIOR AND INTERACTION WITH DNA, POLYADENYLIC ACID AND POLYGUANYLIC ACID: AFM AND ELECTROCHEMICAL CHARACTERIZATION

A.-M. Chiorcea-Paquim^{1,2}, M. N. Manaia^{1,3}

¹Instituto Pedro Nunes (IPN), 3030-199 Coimbra, Portugal,

²University of Coimbra, Centre for Mechanical Engineering, Materials and Processes (CEMMPRE), Department of Chemistry, 3004-535 Coimbra, Portugal

³University of Coimbra, Faculty of Pharmacy, 3000-548 Coimbra, Portugal

OC 05 : FUNCTIONAL NANOMATERIALS FOR IN-SITU PROFILING ENDOGENOUS HYDROGEN SULFIDE PRODUCTIONS

Veerappan Mani¹, Sheng-Tung Huang², Khaled Nabil Salama¹

¹Sensors Lab, Advanced Membranes & Porous Materials Center, Computer, Electrical and Mathematical Science and Engineering Division, King Abdullah University of Science and Technology (KAUST), Saudi Arabia

²Department of Chemical Engineering & Biotechnology, National Taipei University of Technology, Taipei, Taiwan (ROC)

OC 06 : NEW MONO-ENZYMATIC OXYGEN SCAVENGERS FOR REDUCTASE-BASED BIOSENSORS - APPLICATION IN A NITRITE BIOSENSOR

Tiago Monteiro¹, M. Gabriela Almeida^{1,2}

¹UCIBIO – Applied Molecular Biosciences Unit, NOVA School of Science and Technology, Universidade NOVA de Lisboa, 2829-516 Caparica, Portugal.

²Centro de investigação interdisciplinar Egas Moniz (CiiEM), Instituto Universitário Egas Moniz, 2829-511, Caparica, Portugal

OC 07 : ENZYME-BASED BIOSENSOR TO DETECT CHLORPYRIFOS PESTICIDE FOR ENVIRONMENT AND AGRO-FOOD SAFETY

M. WAR^{a,b}, B. BOUCHIKHI^b, N. EL BARI^a

^aBiosensors and Nanotechnology Group, Department of Biology, Faculty of Sciences, Moulay Ismail University, B.P. 11201, Zitoune, Meknes, Morocco

^bBiosensors and Nanotechnology Group, Department of Physics, Faculty of Sciences, Moulay Ismail University of Meknes, B.P. 11201, Zitoune, Meknes, Morocco

OC 08 : AN ELECTROCHEMICAL SENSOR BASED ON SILVER AND COPPER OXIDE NANOPARTICLES FOR THE DETECTION OF CIPROFLOXACIN RESIDUES IN FOOD AND ENVIRONMENTAL SAMPLES

Y.aghoutane¹, M. WAR¹, S. MOTIA^{1,2}, B. BOUCHIKHI², N. EL BARI¹

¹Biosensors and Nanotechnology Group, Department of Biology, Faculty of Sciences, Moulay Ismail University of Meknes, B.P. 11201, Zitoune, Meknes 50003, Morocco

²Biosensors and Nanotechnology Group, Department of Physics, Faculty of Sciences, Moulay Ismail University of Meknes, B.P. 11201, Zitoune, Meknes 50003, Morocco

OC 09 : NEW DETECTION APPROACH OF ACETAZOLAMIDE FOLLOWING COMPETITIVE WAY ON MOLECULARLY IMPRINTED POLYMER.

Khadija Karim¹, Abderrahman Lamaoui¹, Aziz Amine^{1*}

Laboratoire Génie des Procédés & Environnement, Faculté des Sciences et Techniques, Hassan II University of Casablanca, B.P. 146, Mohammédia, Morocco

OC 10 : NEW STRATEGIES TO FACILITATE THE REMOVAL OF TEMPLATE FOR THE IONS AND MOLECULARLY IMPRINTED POLYMERS

A. Karrat^{1,2}, J. J. García-Guzmán³, L. Cubillana-Aguilera¹, A. Amine², J. M. Palacios-Santander^{1,7}

¹Institute 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, Polígono del Río San Pedro S/N, 11510, Puerto Real, Cádiz, Spain

²Laboratoire Génie des Procédés & Environnement, Faculté des Sciences et Techniques, Hassan II University of Casablanca, B.P. 146, Mohammédia, Morocco

³Instituto de Investigación e Innovación Biomédica de Cádiz (INIICA), Hospital Universitario 'Puerta del Mar', Universidad de Cádiz, 11009 Cádiz

OC 11 : SMART SUSTAINABLE NANOSENSORS BASED STRATEGIES FOR CANCER PREVENTION AND EARLY DIAGNOSIS: SMARTANTICANCER

Chérif. DRIDI

NANOMISENE RD Laboratory LR16CRMN01, Center of research on Microelectronics and Nanotechnology (CRMN) of Sousse, Technopole of Sousse, B.P.334, 4054 Sahloul Sousse, TUNISIA

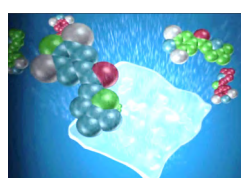
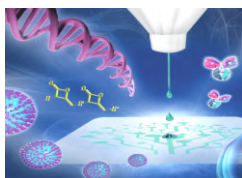
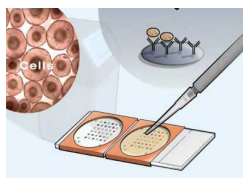
OC 12 : A PAPER BASED MICROFLUIDIC WEARABLE SENSOR FOR CORTISOL MONITORING IN SWEAT

L. Fiore¹, V. Mazzaracchio¹, A. Serani¹, L. Fabiani¹, G. Volpe¹, A. Barba², G. M. Bianco², G. Marrocco², D. Moscone¹, F. Arduini^{1,3}

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³Sense4Med S.r.l., Via Bitonto 139, 00133 Roma



Oral communications

OC 13 :BIOMIMETIC PAPER-BASED ANALYTICAL DEVICE ENHANCED WITH MOLECULARLY IMPRINTED POLYMER FOR THE ON-SITE DETECTION WITH A SMARTPHONE

Abderrahman Lamaoui ^{a*}, Abdelhafid Karrat ^a, Aziz Amine ^a

Laboratory of Process Engineering and Environment, Faculty of Sciences and Techniques, Hassan II University of Casablanca, P.A. 146., Mohammedia, Morocco

CO 14: ELECTROCHEMICAL DNA BIOSENSOR BASED ON IMMOBILIZATION OF A NON-MODIFIED DNA FROM ITS 5'-TERMINAL PHOSPHATE GROUP USING AUNPS/CB-MODIFIED PENCIL GRAPHITE ELECTRODE

Hamza Moustakim, Hasna Mohammadi, Aziz Amine*.

Laboratory of Process Engineering and Environment, Faculty of Sciences and Techniques, Hassan II University of Casablanca, Mohammedia, Morocco.

OC 15 :EVALUATION OF AGRI-FOOD WASTE VALUE BY AN ELECTROCHEMICAL PAPER ORIGAMI BIOSENSING DEVICE

Noemi Colozza^{1,2}, Erika Di Meo¹, Danila Moscone¹, Fabiana Arduini^{1,2}

1 Department of Chemical Science and Technologies, University of Rome "Tor Vergata", Via della Ricerca Scientifica, 00133 Rome, Italy

2 SENSE4MED s.r.l., Via della Ricerca Scientifica, 00133 Rome, Italy

OC 16: NANOPARTICLES MODIFIED WITH SPIONS, VANCOMYCIN AND APTAMER FOR BACTERIAL STRAIN-SPECIFIC TARGETING

Julia Werte¹, Bozena Hosnedlova², Jana Cepova¹, Arli Aditya Parkesit³, Eva Klápková¹, Karel Kotaska¹, Agnes Pholosi⁴, Richard Prusa¹, Rene Kizek^{1,2}

1Department of Medical Chemistry and Clinical Biochemistry, Second Faculty of Medicine, Charles University in Prague and Motol University Hospital, Czechia; 2BIOCEV, First Faculty of Medicine, Charles University, Czechia; 3Department of Bioinformatics School of Life Sciences Indonesia International Institute for Life Sciences JI.; 4Department of Chemistry, Faculty of Applied and Computer Sciences, Vaal University of Technology, South Africa

OC 17:3D PRINTED CARBON BLACK/THERMOPLASTIC POLYURETHANE-BASED ELECTROCHEMICAL SENSOR FOR FREE CHLORINE DETECTION IN WATER

L. Gullo¹, L. Caccavelli¹, L. Fiore^{1,2}, N. Colozza^{1,2}, D. Moscone¹, F. Arduini^{1,2}

1Dipartimento di Scienze e Tecnologie Chimiche, Università degli Studi di Roma "Tor Vergata", Via della Ricerca Scientifica, 1 – 00133 Roma

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OC 18: HAPTOGLOBIN ELECTROCHEMICAL DIAGNOSTIC METHOD FOR SUBCLINICAL MASTITIS DETECTION IN BOVINE MILK

S. Carinelli*, I. Fernández, J.L. González-Mora, P.A. Salazar-Carballo

Laboratory of Sensors, Biosensors and Advanced Materials, Faculty of Health Sciences, University of La Laguna, Campus de Ofrá s/n, 38071 La Laguna, Tenerife, Spain

OC 19: METAL-ENHANCED IMMUNOFLUORESCENT DETECTION OF CA125 ON NANOSTRUCTURED SILVER SUBSTRATES

G. Geka^{1,2}, A. Kanioura¹, I. Kochylas³, V. Likodimos³, S. Gardelis³, A. Dimitriou⁴, N. Papanikolaou², M. Chatzichristidi², A. Economou², S. Kakabakosa, P. Petrou^{1*}

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OC 20: BIOCHAR-BASED SCREEN-PRINTED ELECTRODES AS POWERFUL IMMUNOSENSING PLATFORMS FOR THE SELECTIVE DETECTION OF IL-6

R. Cancelliere¹, G. Contini^{2,3}, E. Signori⁴, L. Micheli¹.

1Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Via della Ricerca Scientifica 1, 00133 Roma, Italy

2Istituto di Struttura della Materia-CNR (ISM-CNR), Via Fosso del Cavaliere 100, 00133 Roma, Italy

3 Department of Physics, University of Rome Tor Vergata, Via della Ricerca Scientifica 1, 00133 Roma, Italy

4 Istituto di Farmacologia Traslazionale-CNR (IFT-CNR), Via Fosso del Cavaliere 100, 00133 Roma, Italy.

OC 21: A NOVEL MAGNETIC MOLECULARLY IMPRINTED POLYMER FOR SELECTIVE EXTRACTION AND DETERMINATION OF QUERCETIN IN PLANT SAMPLES

A. Karrat^{1,2}, J. M. Palacios-Santander¹, A. Amine¹, L. Cubillana-Aguilera^{1,*}

1Institute 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, Poligono del Río San Pedro S/N, 11510, Puerto Real, Cádiz, Spain

2Laboratoire Génie des Procédés & Environnement, Faculté des Sciences et Techniques, Hassan II University of Casablanca, B.P. 146. Mohammedia, Morocco

OC 22: ELECTROCHEMICAL IMMUNOSENSORS TO DETECT HEMOGLOBIN IN PATIENTS UNDER HOME CANCER CARE

Valeria Frisulli¹, Amina Antonacci¹, Viviana Scognamiglio¹

Institute of Crystallography (IC), National Research Council (CNR), Department of Chemical Sciences and Materials Technologies (DSCTM), Via Salaria km 29.300, 00015 Monterotondo, Rome, Italy

OC 23: ULTRASENSITIVE ELECTROCHEMILUMINESCENCE DETECTION: FROM BEAD-BASED IMMUNOASSAYS TO CELL IMAGING

Julie Descamps¹, Dongni Han², Baohong Liu³, Dechen Jiang², Neso Sojic¹

1University of Bordeaux, Bordeaux INP, ISM, UMR CNRS 5255, 33607 Pessac, France

2State Key Laboratory of Analytical Chemistry for Life, Nanjing University, Nanjing, Chine

3State Key Laboratory of Molecular Engineering of Polymers, Fudan University, Shanghai, Chine

OC 24: INTERLEUKIN 6 (IL-6) ELECTROCHEMICAL DETECTION ASSISTED WITH EPOXY-MODIFIED-MAGNETIC NANOPARTICLES: ELIME APPROACH.

S. Carinelli, I. Fernández, J.L. González-Mora, P.A. Salazar-Carballo*

Laboratory of Sensors, Biosensors and Advanced Materials, Faculty of Health Sciences, University of La Laguna, Campus de Ofrá s/n, 38071 La Laguna, Tenerife, Spain

CO 25: FAST SONOCHEMICAL MOLECULARLY IMPRINTED POLYMER SYNTHESIS COMBINED CARBON BLACK ELECTROCHEMICAL SENSOR FOR MALEIC HYDRAZIDE DETERMINATION IN FOOD

Dounia Elfadila^{a,b}, Sara Palmieri^a, Filippo Silveri^a, Flavio Della Pelle^a, Dario Compagnone^a, Aziz Amine^{b,*}.

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OC 26: HIGHLY SENSITIVE AND SPECIFIC BIOSENSORS FOR FOOD HAZARDS DETECTION BY HARNESSING CHROMIC RESPONSE OF POLYDIACETYLENE WITH SIGNAL AMPLIFICATION STRATEGIES

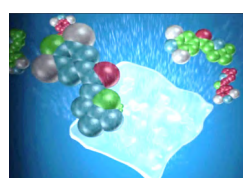
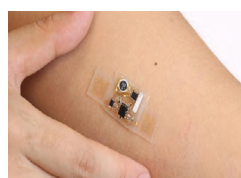
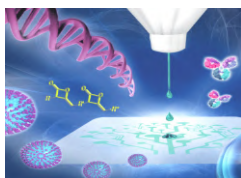
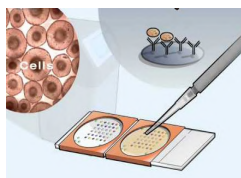
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Posters

P1: CRITICAL ROLE OF PH, IONIC STRENGTH AND REDOX PROBES IN THE DESIGN OF MOLECULARLY IMPRINTED POLYMERS FOR PROTEINS DETECTION

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P2: COMPUTATIONAL APPROACH AND A PRELIMINARY STUDY CONCERNING THE DESIGN OF A MIP-BASED ELECTROCHEMICAL SENSOR FOR VITAMIN B3 DETECTION

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P 3 : A SENSITIVITY-MODULABLE ELIMC ASSAY FOR DETECTING MICROCYSTINS/NODULARINS IN WATER SAMPLES

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P 4: EVALUATION OF FAECAL BILE SALT HYDROLASE (BSH) ACTIVITY BY NEW BIOLUMINESCENCE CAGED-LUCIFERIN BIOSENSOR: GATEKEEPERS ROLE ON HOST-MICROBIOME CROSSTALK IN LIVER-GUT AXIS AND COLON CANCER

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P5: AFFORDABLE STRATEGIES TO PRODUCE METAL NANOSTRUCTURES ON FLEXIBLE DEVICES FOR COLORIMETRIC SENSING

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P6: DEVELOPMENT OF A NEW STRATEGY FOR IMMOBILIZATION OF NUCLEOTIDE SEQUENCES ON CHITOSAN BEADS AND DETECTION OF GUANINE RELEASED AFTER HYDROLYSIS.

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P7: VOLTAMMETRIC CHARACTERISATION OF CARVACROL AND ITS INTERACTION WITH DNA

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P8: RAPID AND SENSITIVE CARDIAC BIOMARKER SENSORS BASED ON LASER-SCRIBED GRAPHENE FOR POINT-OF-CARE SYSTEMS

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Meeting with Editors (20 minutes)

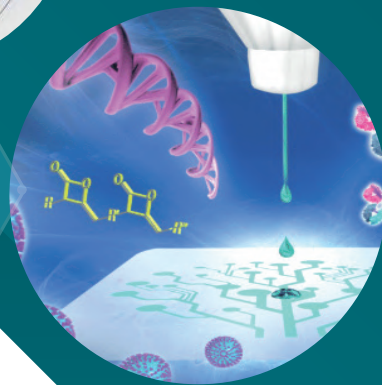
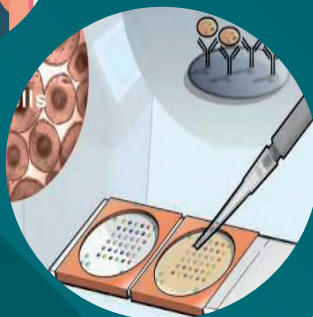
Aziz Amine (Biosensors & Bioelectronics journal)

Pankaj M. Vadgama, (Bioelectrochemistry journal)



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