

BIOSENSORS

Twelfth International Workshop

01 – 03 October 2026 / Fez, Morocco

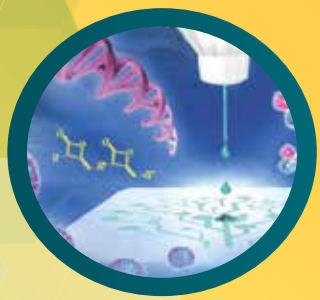


The Twelfth International Workshop on Biosensors

01 – 03 October 2026

Fez, Morocco

BIOSENSORS













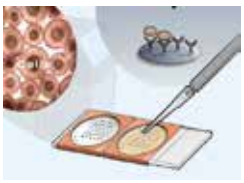
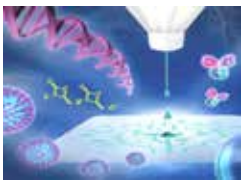
01 – 03 October 2026
08:30 - 18:00

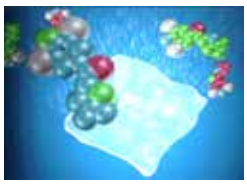
The Royal Mirage Fes Hotel, Fez

www.biocap.ma

ELSEVIER biosensors PalmSens scio spec senso life FST FACULTÉ DES SCIENCES ET TECHNIQUES DE MOHAMMEDIA UNIVERSITÉ HASSAN II DE CASABLANCA

Workshop Fez 2026 Biosensors

STEERING COMMITTEE

*A. Amine, Chairman (Morocco),

C.M.A. Brett (Portugal),

G. Palleschi (Italy)

INTERNATIONAL SCIENTIFIC COMMITTEE

A. Amine (Morocco)
P. Chandra (India)
C. Bala (Romania)
C.M.A. Brett (Portugal)
E. Dempsey (Ireland)
A. Erdem (Turkey)
A.Errachid (France)
O. Fatibello-Filho (Brazil)
W. Gao (USA)
H.-T. Chang (TAIWAN)
E. Iwuoha (South Africa)
T. Killard (UK)
Y. Korpan (Ukraine)

G. Li (China)
A. Merkoci (Spain)
E. Morales-Narváez (Mexico)
J. Orozco (Colombia)
G. Palleschi (Italy)
MI. Prodromidis (Greece)
D. Kanayeva (Kazakhstan)
N. Rozlosnik (Denmark)
W. Schumann (Germany)
V. Bansal (Australia)
K. Sode (USA)
C. Mao (China

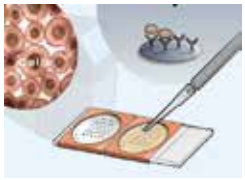
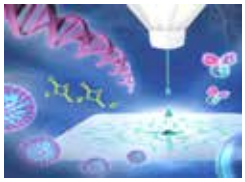
TOPICS :

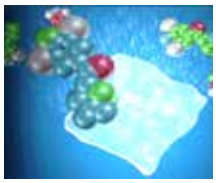
-ELECTROCHEMICAL BIOSENSORS
-OPTICAL BIOSENSORS
-LABEL-FREE BIOSENSORS
-NANOBIOSENSORS AND NANOMATERIALS
-ENZYME-BASED BIOSENSORS
-NANOZYME-BASED BIOSENSORS
-IMMUNOSENSORS
-NUCLEIC ACID SENSORS AND APTASENSORS
-WHOLE CELL-BASED BIOSENSORS
-MOLECULARLY IMPRINTED POLYMER-BASED
-NATURAL AND SYNTHETIC RECEPTORS
-PRINTED BIOSENSORS AND MICROFABRICATION
-MICROFLUIDICS AND LAB-ON-A-CHIP DEVICES
-WEARABLE BIOSENSORS
-CRISPR-BASED BIOSENSORS
-SYNTHETIC BIOLOGY FOR BIOSENSING
-AI AND MACHINE LEARNING IN BIOSENSORS
-SINGLE-MOLECULE DETECTION
-COMMERCIAL BIOSENSORS AND TRANSLATION

*Professor Aziz Amine
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UNIVERSITÉ HASSAN II DE CASABLANCA



Scientific Program

Thursday October 1st, 2026	
08h30-09h00	Registration & Poster display
09h00-09h20	Opening
Chair. **G. Palleschi/ A. Amine**	
09h20-10h00	PL 1 **C.Z. LI**
10h00-10h30	KN 1 **E. Michelini**
10h30-11h00	Coffee Break and Poster Session
Chair. **A. Errachid**	
11h00-11h30	KN 2 **A. Ait lahcen**
11h30-12h30	OC 1 - OC 4
12h30-14h00	Lunch
Chair. **C. Parolo**	
14h00-15h45	OC 5 - OC 11
15h45-16h15	Coffee Break and Poster Session
Chair. **A. Lamaoui**	
16h15-17h30	OC 12 - OC 16

Friday October 2nd, 2026	
Chair. **C. M.A. Brett/ C.Z. Li**	
08h30-09h10	PL 2 **K. Sode**
09h10-09h40	KN 3 **T. Killard**
09h40-10h10	KN 4 **A. Errachid**
10h10-10h20	***Demo*** senso life
10h20-10h50	Coffee Break and Poster Session
Chair. **F. Arduini**	
10h50-11h20	KN 5 **C. Parolo**
11h20-11h50	OC 17 - OC 18
11h50-12h30	**Flash Poster Presentation (2min)**
12h30-14h00	Lunch
Chair. **T. Killard**	
14h00-15h45	OC 19 - OC 25
15h45-16h15	Coffee Break and Poster Session
Chair. **A. Ait lahcen**	
16h15-17h45	OC 26 - OC 31

19h30-23h30

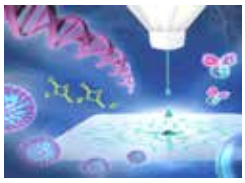
Gala Dinner

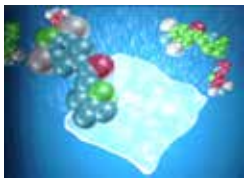
Saturday October 3rd, 2026	
Chair. **A.M. Oliveira-Brett**	
08h30-09h00	KN 6 **F. Ricci**
09h00-09h30	KN 7 **F. Arduini**
09h30-10h45	OC 32 - OC 38
10h45-11h15	Coffee Break and Poster Session
Chair. **C.M.A. Brett/ G. Palleschi**	
11h15-11h45	OC 39 -OC 40
11h45-12h00	Closing (Amine, Brett, and Palleschi)
12h00-13h30	Lunch

13h45-18h00

EXCURSION

PL : Plenary conference (40 min)
KN : Keynote lecture (30 min)
OC : Oral communication (15 min)
PO : Poster presentation (2 min)

Plenary Conferences

PL1: CHENZHONG LI
C.Z. Li[1,2] S. Q. Gou[1]
ULTRA-SOUND BASED 3D PRINITNG MICROELECTRODE SENSING ARRAYS for BRAIN-COMPUTER INTERFACE
[1] The Chinese University of Hong Kong (Shenzhen), China
[2] Juxintang (Chengdu) Biotech Inc.,China

PL2: KOJI SODE
CATALYTIC AND AFFINITY-TYPE BIOLOGICAL RECOGNITION ELEMENTS TO USHER IN THE NEXT ERA OF IN VIVO BIO-SENSORS
Lampe Joint Department of Biomedical Engineering, University of North Caroline Chapel Hill and North Carolina State University, USA

Keynote lectures

KN1: ELISA MICHELINI
BIOLUMINESCENT AND COLORIMETRIC NANOBIOSENSORS FOR PORTABLE AND WEARABLE DIAGNOSTICS
E. Michelini, R. Desiderio, R. J. Rodriguez Arias, F. Nazir, E. Maiorano, M. M. Calabretta
DEPARTMENT OF CHEMISTRY "GIACOMO CIAMICIAN", UNIVERSITY OF BOLOGNA, VIA GOBETTI 85, 40129 BOLOGNA, ITALY

KN2: ABDELLATIF AIT LAHCEN
FROM LASER TO SENSOR: ENGINEERING LASER-INDUCED GRAPHENE FOR ADVANCED SENSING AND BIOSENSING
Indian Institute of Technology Delhi–Abu Dhabi, Khalifa City B, Abu Dhabi, United Arab Emirates

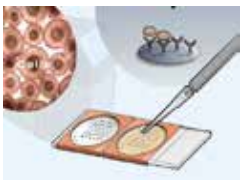
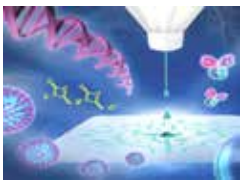
KN3: TONY KILLARD
BREATH AMMONIA SENSING : CHALLENGES AND OPPORTUNITIES
Centre for Biomedical Research, School of Applied Sciences, College of Health, Science and Society, University of the West of England, Bristol, UK.

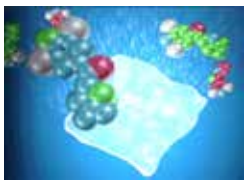
KN4: ABDELHAMID ERRACHID
IMPEDIMETRIC PEPTIDE-ARRAY SENSORS FOR THE DETECTION OF IGGS ASSOCIATED WITH PEANUT AND HA-ZELNUT ALLERGENS
NAZHA HILALI [a,b] , MARIE HANGOUËT [b] , JOAN BAUSELLS [c] , KAROLIN KERN [d] , LISBETH RAMIREZ-CABALLERO [d] , MICHAEL SZARDENINGS [d] , CRISTINA POLONSCHII [e] , HASNA MOHAMMADI [a] , AZIZ AMINE [a] , NADIA ZINE [b] , ABDELHAMID ERRACHID [b]
[a] Laboratory of Process Engineering & Environment, Faculty of Science and Techniques, Hassan II University of Casablanca, Morocco.
[b] Institute of Analytical Sciences (ISA) – UMR 5280, Claude Bernard Lyon 1 University, 69100, Lyon, France.
[c] Institute of Microelectronics of Barcelona (IMB−CNM, CSIC), Campus UAB, 08193 Bellaterra, Barcelona, Spain.
[d] Fraunhofer Institute for Cell Therapy and Immunology IZI, Ligand Development Unit, Perlickstraße 1, 04130 Leipzig, Germany
[e] International Centre of Biodynamics, Intrarea Portocalelor 1B, 060101, Bucharest, Romania

KN5: CLAUDIO PAROLO
CLINICALLY DRIVEN BIOSENSING FOR MALARIA DIAGNOSIS AND PROGNOSIS
Universitat Rovira i Virgili, Catalonia, Spain.

KN6: FRANCESCO RICCI
DNA-BASED SYNTHETIC GENES AND CELLS FOR SENSING APPLICATIONS
University of Rome Tor Vergata, Italy.

KN7: FABIANA ARDUINI
PAPER-BASED ELECTROCHEMICAL (BIO)SENSORS AS SUSTAINABLE AND SMART DEVICES
University of Rome Tor Vergata, Italy.

Oral communications

OC 1 : JIA GENG

FUNCTIONAL NANOPORE SENSING AND SEQUENCING FOR DIAGNOSTICS

Jia Geng
Department of Laboratory Medicine, State Key Laboratory of Biotherapy and Cancer Center, West China Hospital, Sichuan University and Collaborative Innovation Center, Chengdu 610041, China

OC 2 : ISTAMBOULIE GEORGES

DUAL ELECTROCHEMICAL IMMUNOSENSOR FOR FLUOROQUINOLONE DETECTION IN MEAT BASED ON AN ELECTROACTIVE DERIVATIVE OF DIFLOXACIN

G. Istamboulié, M. Gaillard, C. Aymard & T. Noguer
Université de Perpignan via Domitia, Sorbonne Université, CNRS, Laboratoire de Biodiversité et Biotechnologies Microbiennes, LBBM-UMR8176, F-66860 Perpignan, France

OC 3 : GAËLLE CATANANTE

ELECTROCHEMICAL BIOSENSORS FOR FOOD CONTAMINANTS DETECTION: FROM QUATERNARY AMMONIUM COMPOUNDS TO OCHRATOXINE A

Georges ISTAMBOULIE, Thierry NOGUER and Gaëlle CATANANTE
LBBM Laboratory, UPVD, 52 Avenue Paul Alduy, Perpignan 66860, France

OC 4 : JEAN FRANÇOIS FELLER

COMBINING PIEZO- AND CHEMO-RESISTIVE NANOCOMPOSITE SENSORS TO MINIMIZE PRESSURE ULCERS DEVELOPMENT

J. F. Feller[1], M. Castro[1], M. T. Tran[1], W. Allègre[2]
[1] Smart Plastics Group, IRDL CNRS 6027 – Univ. South Brittany (UBS), Lorient, France
[2] Kerpape Centre for Functional Rehabilitation, Ploemeur, France

OC 5 : JOHANA STRMISKOVA

HPV TESTING: A SOLVED PROBLEM?

Strmiskova J.[a], Sevcikova S.[a],, Anton M.[b], Novotny T.[c] and , Bartosik M.[a]
[a] RECAMO, Masaryk Memorial Cancer Institute, Zluty kopec 7, 656 53 Brno, Czech Republic
[b] Dept. Obstet. Gynecol., Univ. Hosp. Brno, and Medical Faculty Masaryk University, Obilni trh 11, 602 00 Brno, Czech Republic
[c]Dept. Rad. Oncol., Masaryk Memorial Cancer Institute, Zluty kopec 7, 656 53 Brno, Czech Republic

OC 6 : ANETA FRIED

ELECTROCHEMICAL DETECTION OF HUMAN CYTOMEGALOVIRUS IN GLIOBLASTOMA: A COMPARATIVE MULTI-METHOD STUDY

Aneta Fried[1,2], Michal Hendrych[3], Karolina Itterheimova[1,2], Martin Bartosik[1], Ludmila Moranova[1]
[1] Research Center for Applied Molecular Oncology, Masaryk Memorial Cancer Institute, Brno, Czech Republic
[2] National Center for Biomolecular Research, Faculty of Science, Masaryk University, Brno, Czech Republic
[3] Department of Pathology, St. Anne's University Hospital and Faculty of Medicine, Masaryk University, Brno, Czech Republic

OC 7 : CHRISTOPHER M.A. BRETT

NEW NANOMATERIAL AND POLYMER FILM MODIFIED ELECTRODES FOR SENSORS AND BIOSENSORS PREPARED IN TERNARY DEEP EUTECTIC SOLVENTS

Christopher M.A. Brett, Joseany M.S. Almeida
Department of Chemistry, CEMMPRE, ARISE, Faculty of Sciences and Technology, University of Coimbra, 3004-535 Coimbra, Portugal

OC 8 : ANA MARIA OLIVEIRA-BRETT

INHIBITION OF AMYLOID–SS PEPTIDES FIBRILIZATION BY CURCUMIN: AFM AND ELECTROCHEMICAL CHARACTERISATION

A.M. Oliveira-Brett, T.A. Enache, W.B.S. Machini, A.-M. Chiorcea-Paquim
Department of Chemistry, University of Coimbra, CEMMPRE-ARISE, 3004-535 Coimbra, Portugal

OC 9: STEPHANIE MORAIS

ELECTROCHEMICAL GENOSENSORS FOR HEATHER HONEY DNA AUTHENTICATION USING SWCNT-MODIFIED ELECTRODES

S.L. Morais[1,2], M. Santos[3], V.F. Domingues[1], C. Delerue-Matos[1], M.F. Barroso[1],
[1]REQUIMTE|LAQV, Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto, Rua Dr. António Bernardino de Almeida 431, 4249-015, Porto, Portugal
[2]Departamento de Química, Faculdade de Ciências, Universidade do Porto, Rua do Campo Alegre s/n, 4169-007, Porto, Portugal
[3]REQUIMTE|LAQV, Escola Superior de Saúde, Instituto Politécnico do Porto, Rua Dr. António Bernardino de Almeida, 400, 4200-072, Porto, Portugal



Oral communications

OC 10: CAMELIA BALA

ADVANCEMENTS IN BIOSENSORS FOR EARLY DETECTION OF TARGET PROTEINS

C. Bala [a,b], O.M. Istrate [a,b], V. I. Parvulescu [c] and M. Puiu [a,b]

[a] Laboratory for Quality Control and Process Monitoring-LaborQ,University of Bucharest, 030018 Bucharest, Romania
[b] Department of Analytical Chemistry and Physical Chemistry, University of Bucharest, 030018-Bucharest, Romania
[c] Research Center for Catalysts and Catalytic Processes, University of Bucharest, 030018-Bucharest, Romania

OC 11: CRACIUNESCU IZABELL

MULTIFUNCTIONAL POLYPYRROLE COMPOSITE INTERFACES FOR WEARABLE BIOELECTRONICS AND SENSING

I. Craciunescu[1], A.A. Andrei [1,2], G. M. Ispas [1], G.I. Giurgi [1], A. Oprea [1,3], S.C. Tripon, C. Sevcencu [1,2]

[1]National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania
[2]Doctoral School in Integrative Biology, Faculty of Biology and Geology, Babes-Bolyai University, Cluj-Napoca, Romania
[3]Doctoral School of Physics, Faculty of Physics, Babes-Bolyai University, Cluj-Napoca, Romania

OC 12: JAN LABUDA

PROGRESS IN THE DEVELOPMENT OF ELECTROCHEMICAL (BIO)SENSORS FOR ORGANIC CHEMICAL CARCINOGENS IN FOOD MATRICES AND FOOD QUALITY CONTROL ACCORDING TO THE LEGISLATION

Jan Labuda, Peter Mikus

Department of Pharmaceutical Analysis and Nuclear Pharmacy and Toxicological and Antidoping Center, Faculty of Pharmacy, Comenius University Bratislava, Slovakia

OC 13: ALEJANDRO VALVERDE

CLAMPING THE LAMP: A PHOTOELECTROCHEMICAL PLATFORM FOR SELECTIVE KRAS MUTATION DETECTION THROUGH WILD-TYPE SUPPRESSION

A. Valverde[1], J. Strmiskova[2], L. Moranova[2], J. Arnouts[3], F. Zavadil-Kokas[2], S. Koljenovic[3], K. Zwaenepoel[3], T. Vandamme[3], M. Bartosik[2], K. De Wael[1]

[1]A-PECS, University of Antwerp, 2020 Antwerp, Belgium.
[2]RECAMO, Masaryk Memorial Cancer Institute, 65653 Brno, Czech Republic.
[3]Department of Oncology, Antwerp University Hospital (UZA), 2650 Edegem, Belgium.

OC 14: ELISE DAEMS

SINGLET OXYGEN-BASED PHOTOELECTROCHEMISTRY FOR INFECTIOUS DISEASE DIAGNOSTICS

E. Daems,[a,b] H. Op de Beeck,[a,b] Simone Bassini,[a,b] K. K. Ariën,[c,d] K. De Wael[a,b]

[a]Antwerp engineering, photoelectrochemistry and sensing (A-PECS), University of Antwerp, Groenenborgerlaan 171, 2020 Antwerp, Belgium
[b]NANOlight Center of Excellence, University of Antwerp, Groenenborgerlaan 171, 2020 Antwerp, Belgium
[c]Virology Unit, Institute of Tropical Medicine Antwerp, Nationalestraat 155, 2000 Antwerp, Belgium
[d]Department of Biomedical Sciences, University of Antwerp, Nationalestraat 155, 2000 Antwerp, Belgium

OC 15: MUTIAN CHEN

DIRECT SINGLE-MOLECULE DETECTION OF COA-SH AND ATP BY THE MEMBRANE PROTEINS TMEM120A AND TMEM120B

Mutian Chen[a], Changjian Zhao[a], Jia Geng[a].

[a].Department of Laboratory Medicine, State Key Laboratory of Biotherapy andClinical Laboratory Medicine Research Center, West China Hospital,Sichuan University, Chengdu, 610041, China.

OC 16: YUE LI

RESEARCH ON TUMOR CELL CFDNA DETECTION BASED ON THE AUTOCATALYTIC EFFECT OF THE CRISPR/CAS12A SYSTEM

Y Li, K Sun, J Geng

Department of Laboratory Medicine, State Key Laboratory of Biotherapy and Clinical Laboratory Medicine Research Center, West China Hospital, Sichuan University, Chengdu, China

OC 17: WILFRID BOIREAU

SURFACE PLASMON RESONANCE SCREENING STUDY OF MANNOSE-FUNCTIONALISED GOLD NANOPARTICLES ON LECTINE INNOVATING BIOINTERFACE

AL ASSAAD A.[1], YAZIGI L.[2], BAZZI R.[2], ROUX S.[2], BOIREAU W.[1]

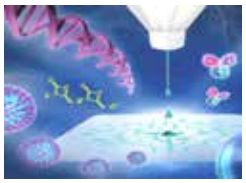
[1] Nano2BIO team, Institut FEMTO-ST, Université Marie et Louis Pasteur, Besançon.
[2] Laboratoire Chrono-Environnement, Université Marie et Louis Pasteur, Besançon

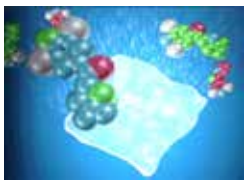
OC 18: BIANCA COMEGNA

A MULTIPARAMETRIC ELECTROCHEMICAL SENSOR PLATFORM FOR POINT-OF-CARE DIAGNOSIS OF PERIPROSTHETIC JOINT INFECTION

Bianca Comegna[1], Giorgia Leotta[1], Luca Fiore[1], Raffaele Vitiello[2,3], Giulio Maccauro[2,3], Fabiana Arduini[1]

[1]Department of Chemical Science and Technologies, University of Rome Tor Vergat, Italy.
[2]Fondazione Policlinico Universitario Agostino Gemelli Istituto di Ricovero e Cura a Carattere Scientifico (IRCCS), Italy.
[3]Università Cattolica del Sacro Cuore, Rome, Italy

Oral communications

OC 19: LAURA BELCASTRO

PAPER-BASED MICROFLUIDICS FOR INTEGRATED SAMPLING AND ELECTROCHEMICAL SENSING IN COMPLEX ENVIRONMENTS

L. Belcastro [1] , C. Gosti [1] , C. Campana [1] , G. Leotta [1] , C. Di Gregorio [2] , M. Di Carmine [2] , L. Fiore [2] , F. Arduini [1]

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

[2] SENSE4MED srl, via Bitonto 139, Rome 00133, Italy

OC 20: PRISCILLA G L BAKER

THIOL-MEDIATED ELECTROCHEMICAL SENSOR FOR THE BREAST CANCER BIOMARKER CA 15-3 AS A FIRST STEP TOWARDS MULTI-ELEMENT BIOMARKER DETECTION

Nastaran Ghaffari, Priscilla G L Baker

SensorLab research group, Department of Chemistry, University of the Western Cape, Bellville, South Africa

OC 21: MÒNICA MIR

REAL TIME DIAGNOSIS OF CARDIAC DISEASES WITH IMPLANTABLE SENSORS

Maliana El Aamri[2], Josep Samitier[1, 2, 3], Mònica Mir[1, 2, 3]

[1] Centro de Investigación Biomédica en Red en Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN), Monforte de Lemos 3-5, Spain.

[2] Nanobioengineering Group, Institute for Bioengineering of Catalonia (IBEC) Barcelona Institute of Science and Technology (BIST), Baldiri i Reixac, Spain.

[3] Department of Electronics and Biomedical Engineering, University of Barcelona, Martí i Franquès 1, 08028 Barcelona, Spain.

OC 22: JIAJIE DIAO

ULTRA-SENSITIVE SINGLE-MOLECULE FLUORESCENT QUANTIFICATION OF DNA EPIGENETIC MODIFICATIONS

Jiajie Diao

Department of Cancer Biology, University of Cincinnati College of Medicine, 3125 Eden Ave, Cincinnati, OH 45219, USA

OC 23: ANDY WIJTEN

NANOBODY-BASED PHOTOELECTROCHEMICAL SENSING FOR POINT-OF-CARE DETECTION OF AFRICAN TRYPANOSOMIASIS

A. Wijten[a,b], C. Toyos-Rodriguez[a,b], L. De Vocht[c], N. Smiejkowska[c], Y. Sim[c], S. Magez[d], Y. Sterckx[c], K. De Wael[a,b]

[a]A-PECS, Dept of Bioscience Engineering, University of Antwerp (UA), Groenenborgerlaan 171, 2020, Belgium (BE).

[b]NANOlight Center of Excellence, University of Antwerp, Groenenborgerlaan 171, 2020 Antwerp, Belgium

[c]Laboratory of Medical Biochemistry, Faculty of Pharmaceutical, Biomedical, and Veterinary Sciences, University of Antwerp, Universiteitsplein 1, Belgium

[d]Laboratory of Cellular and Molecular Immunology, Vrije Universiteit Brussel, Brussels

OC 24: HANNAH OP DE BEECK

DUAL-FUNCTIONALISED AMPLICONS ENABLE EXTRACTION-FREE PHOTOELECTROCHEMICAL DIAGNOSIS OF CHIKUNGUNYA VIRUS

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OC 25: FLAVIO DELLA PELLE

EMERGING STRATEGIES TO PRODUCE PAPER-BASED AND 3D-PRINTED (BIO)SENSORS BASED ON LASER-NANOSTRUCTURED GRAPHENE

F. Della Pelle[1], A. Scroccarello[1], D. Paolini[1], I.V. Di Cristoforo[1], P. Di Battista[1], A. Sierra Padilla[1], A. Berni[3], E. Faella[3], M. Passacantando[3], D. Compagnone[1]

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OC 26: ANNALISA SCROCCARELLO

CARBONIC ANHYDRASE-BASED PAPER-BASED COLORIMETRIC DEVICE FOR ACETAZOLAMIDE DETERMINATION IN BIOLOGICAL SAMPLES

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OC 27: IDA VALERIA DI CRISTOFORO

PAPER-BASED LASER-INDUCED GRAPHENE OBTAINED VIA UV LASER FOR APTAMER-BASED INSULIN DETECTION

I.V. Di Cristoforo[1,2,3], Tomás Pinheiro[3], F. Cardoso[3], F. Della Pelle[1], A. Scroccarello[1], D. Compagnone1, Elvira Fortunato[3]

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OC 28: RICCARDO DESIDERIO

LUCIFERASE–AUNP BIOCONJUGATES FOR PLASMON-ENHANCED BIOLUMINESCENCE: TOWARD MINIMALLY INVASIVE ATP SENSING

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OC 29: CALABRETTA MARIA MADDALENA

BOOSTING BIOSENSING WITH NOVEL BIOLUMINESCENCE CELL-BASED PLATFORMS

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OC 30: CHIARA ZANARDI

MICRONEEDLE ELECTROCHEMICAL PLATFORMS FOR DETECTING BIOMARKERS ASSOCIATED WITH NEURODEGENERATIVE DISEASES

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OC 31: ANDRIJANA DANYTE

DEVELOPMENT OF AN ELECTROCHEMICAL BIOSENSOR FOR PROTEASE DETECTION

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OC 32: ABDELHAFID KARRAT

MAGNETIC CARBON BLACK MODIFIED WITH A MOLECULARLY IMPRINTED POLYMER FOR THE SELECTIVE EXTRACTION AND DETERMINATION OF CARVACROL

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OC 33: CHRISTIN GOSTI

DUAL-SELECTIVE WEARABLE PLATFORM FOR SELF-REFERENCED POTENTIOMETRIC MONITORING OF CORTISOL AND POTASSIUM IN SWEAT

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OC 34: MOHAMED WALID HASSEN

DIGITAL PHOTOCORROSION QUANTUM SEMICONDUCTOR BIOSENSOR FOR BACTERIA AND BACTERIAL SPORES

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OC 35: MARINA JIMÉNEZ-RODRÍGUEZ

A NOVEL SONOGEL-CARBON BASED AMPEROMETRIC BIOSENSOR INTEGRATED INTO A CONTINUOUS-FLOW SYSTEM FOR GLUCOSE DETERMINATION IN UNTREATED BLOOD SERUM AND PLASMA

Marina Jiménez-Rodríguez, Álvaro Jesús-Sainz-Calvo, Juan José García-Guzmán, Laura Cubillana-Aguilera, José María Palacios-Santander, Dolores Bellido-Milla
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OC 36: JUAN JOSÉ GARCÍA-GUZMÁN

ADVANTAGES OF THE EMPLOYMENT OF 3-OCTYLTHIOPHENE OVER SONOGEL-CARBON NANOTUBES FOR ION-ELECTRON-TRANSDUCER IN MONITORING OF NA+ AND K+ FOR PHYSIOLOGICAL SAMPLES

Álvaro Jesús Sainz-Calvo, Marina Jiménez-Rodríguez, Dolores Bellido-Milla, Laura Cubillana-Aguilera, José María Palacios-Santander, Juan José García-Guzmán
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OC 37: CLEMENT PINORINI

A NOVEL IMMUNOSENSING PLATFORM FOR NT-PROBNP QUANTIFICATION IN COMPLEX MATRICES TOWARD EARLY HEART FAILURE DIAGNOSIS

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OC 38: MOHAMED KOURYANI

DEVELOPMENT OF A BIOCHIP ENABLING SURFACE-ENHANCED RAMAN SPECTROSCOPY (SERS) AND SURFACE PLASMON RESONANCE (SPR) FOR THE CHARACTERIZATION OF EXTRACELLULAR VESICLES.

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OC 39: JOSÉ MARÍA PALACIOS-SANTANDER

FROM CLINICAL DIAGNOSTICS TO ENVIRONMENTAL MONITORING: 3D-PRINTED MICROFLUIDIC CELLS FOR SIMULTANEOUS MULTI-ANALYTE DETECTION

Álvaro Jesús Sainz-Calvo, Marina Jiménez-Rodríguez, Laura Cubillana-Aguilera, Juan José García-Guzmán, Dolores Bellido-Milla, José María Palacios-Santander

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OC 40: CÉLINE ELIE-CAILLE

CHARACTERIZATION OF MESENCHYMAL STEM CELL-DERIVED EXTRACELLULAR VESICLES IN THE CONTEXT OF CELL-FREE BIOTHERAPY.

Dorsaf DJAHBAR[1], Celine Thomann[2], Carlos Chocarro[2], Emma PETIOT[2], Wilfrid BOIREAU[1], Céline ELIE-CAILLE[1]

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PO1: SAMEER SAPRA

TRANSITION METAL DICHALCOGENIDE BASED PHOTODETECTORS AND NANO-HETEROSTRUCTURES FOR CATALYTIC APPLICATIONS

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PO2: CHIARA DI GREGORIO

INTEGRATION OF PAPER-BASED ELECTROCHEMICAL (BIO)SENSORS FOR LACTATE DEHYDROGENASE AND NITRATE INTO ORGAN-ON-CHIP DEVICES

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PO3: GIORGIA LEOTTA

A PAPER-BASED ELECTROCHEMICAL OXYGEN SENSOR FOR INTEGRATION INTO NEXT-GENERATION PAPER-BASED ORGAN-ON-CHIP PLATFORMS

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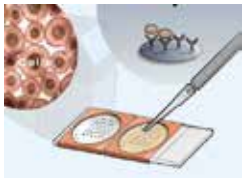
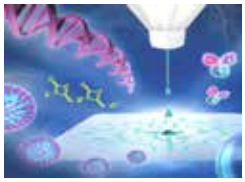
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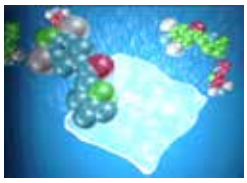
PO4: ELEONORA BISCHETTI

BIOINSPIRED MATERIALS FOR ADVANCED PORTABLE AND MINIATURED BIOSENSOR

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PO5: EDUARDA PEREIRA

ELECTROCHEMICAL MIRNA-BASED SENSING: A NOVEL LABEL-FREE APPROACH FOR DIAGNOSING NEURODEVELOPMENTAL DISORDERS

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PO6: KAWTAR SAIDI

A RAPID, COST-EFFECTIVE SMARTPHONE-BASED FLUORESCENT BIOSENSOR FOR HISTAMINE DETECTION USING A MOLECULARLY IMPRINTED MEMBRANE

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PO7: NATALIE DAVIS

UTILIZING MICRO-IMMUNOELECTRODES TO MEASURE SYNAPTIC ACTIVITY-INDUCED CHANGES OF AMYLOID-β IN AN ALZHEIMER'S DISEASE MOUSE MODEL

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PO8: CHAIMAE AMEICH

DEVELOPMENT OF A NOVEL ELECTROCHEMICAL DNA BIOSENSOR FOR THE ASSESSMENT OF HEAVY METAL-INDUCED GENOTOXICITY IN OLIVE MILL WASTEWATER

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PO9: SIMONA GUOBUZAITE

DNA IS A ROPE, NOT A WIRE: PROBE DENSITY GOVERNS ELECTRON TRANSFER IN MB-DNA ELECTROCHEMICAL BIOSENSORS

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PO10: SOUHEIR BENNIS

AN RPA-ENHANCED PHOTOELECTROCHEMICAL BIOSENSING PLATFORM FOR THE DETECTION OF KRASG12C MUTATION IN CANCER

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PO11: YAGMUR KOCA

HYBRIDIZATION CHAIN REACTION-AMPLIFIED SINGLET OXYGEN-BASED PHOTOELECTROCHEMICAL BIOSENSING FOR NUCLEIC ACID DETECTION

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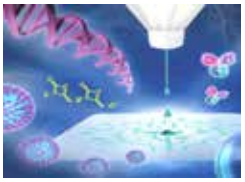
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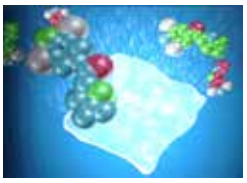
PO12: GHITA YAMMOURI

AI-DRIVEN BIOSENSING FOR PERSONALIZED HEALTHCARE: WEARABLE MONITORING AND RAPID POINT-OF-CARE DIAGNOSIS

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PO13 : DARIO COMPAGNONE

ADDITIVE MANUFACTURING FOR BIOELECTROANALYTICAL DIAGNOSTICS AND SENSING

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PO 14 : OUMAIMA EZ-ZAHRAOUI

DEVELOPMENT OF DNA APTAMER BIOSENSING PLATFORM FOR TETRACYCLINE RECOGNITION: A COMBINED EXPERIMENTAL AND IN SILICO STUDY

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PO 15 : YU XIN

SIMULTANEOUS PROFILING AND QUANTIFICATION OF TAU AND ITS PHOSPHORYLATED ISOMERS USING ENGINEERED FRAC NANOPORES

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PO 16 : FATIMA EZZAHRA REJDAL

RAPID ULTRASOUND-ASSISTED SYNTHESIS OF A MOLECULARLY IMPRINTED POLYMER FOR DUAL-MODE OPTICAL DETECTION OF PROMETHAZINE

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PO 17 : SUBRATA KUNDU

CYCLIC ALKYL(AMINO)CARBENE-BASED ORGANIC RADICALS STABLE IN ACIDIC, BASIC, AND BIOLOGICAL MEDIA, AND FLUORIDE SENSORS

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PO 18 : DEIMANTE STAKELYTE

BIOSENSOR FOR ELECTROCHEMICAL NUCLEASE ACTIVITY DETECTION

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PO 19 : DOAA BENALIAT

LASER-INDUCED SYNTHESIS OF METAL-OXIDE NANOZYMES ON ACTIVATED CHARCOAL MEMBRANE AS OXIDASE MIMICS FOR COLORIMETRIC VERTICAL-FLOW ASSAYS

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