



Thursday 29th September

| | | |
|---------------|--|---|
| 13:00-14:00 h | Registration and poster installation at the Diagonal Hall of the Faculty of Chemistry | |
| 14:00-14:10 h | Opening session at the Aula Magna Enric Casassas | |
| 14:10-14:40 h | Key-note session at the Aula Magna Enric Casassas Manel del Valle (Universitat Autònoma de Barcelona) EXPERIENCES IN THE DETECTION OF DRUGS OF ABUSE BY USING ELECTRONIC TONGUE PRINCIPLES | |
| 14:40-16:10 h | Oral presentations. Session 1: Biosensors I at the Aula Magna Enric Casassas Chairman: Thierry Noguer (UPVD) | |
| 14:40-14:55 h | S.1.1 | H. Haji Hashemi (URV) POROUS ALUMINA-BASED BIOSENSING PLATFORM TO QUANTIFY EXOSOMES AS BIOMARKERS FOR EARLY DIAGNOSIS OF INFECTIOUS DISEASES |
| 14:55-15:10 h | S.1.2 | L. Mouawad (UPVD) THE DEVELOPMENT OF A GENETICALLY MODIFIED ACETYLCHOLINESTERASE BIOSENSOR FOR THE DETECTION OF BIOCIDES |
| 15:10-15:25 h | S.1.3 | J. Reverté (IRTA) EVALUATION OF NEW BIORECOGNITION ELEMENTS FOR BIOSENSING: STUDY OF ANTIDOTE-LIKE EFFECT OF APTAMERS AND CYCLODEXTRINS ON TETRODOTOXIN USING NEURO-2A CELLS |
| 15:25-15:40 h | S.1.4 | A. Ruhela (URV) DETECTION AND PURIFICATION OF DSDNA AMPLICONS THROUGH CAPTURE WITH A SEQUENCE-SPECIFIC DNA BINDING PROTEIN IMMOBILIZED ON MAGNETIC BEADS |
| 15:40-15:55 h | S.1.5 | J.C. Porras (UAB) COMPARATIVE STUDY OF GOLD AND CARBON NANOPARTICLES IN NUCLEIC ACID LATERAL FLOW ASSAY |
| 15:55-16:10 h | S.1.6 | L. M. Alkassar (IRTA) CLEAN-UP AND PRE-CONCENTRATION METHOD BASED ON ANTIBODIES AND MAGNETIC BEADS FOR THE DETECTION OF CIGUATOXINS IN FISH EXTRACTS WITH CELL-BASED ASSAYS |
| 16:10-17:00 h | Coffee break and poster session at the Diagonal Hall and terrace of the Faculty of Chemistry | |

| | | |
|---------------|--|--|
| 17:00-18:30 h | Oral presentations. Session 2: New sensing materials at the Aula Magna Enric Casassas Chairman: Manel del Valle (UAB) | |
| 17:00-17:15 h | S.2.1 | C. Pérez-Ràfols (UB) OXIDIZED BLACK PHOSPHORUS FOR THE VOLTAMMETRIC DETERMINATION OF POSITIVELY CHARGED SPECIES |
| 17:15-17:30 h | S.2.2 | E. Lujan (IQS-URL) NOVEL SOLID-STATE SENSOR FOR LITHIUM MONITORING IN MOLTEN ALLOYS |
| 17:30-17:45 h | S.2.3 | L. L. Fernández (UAB) SIMULTANEOUS DETECTION OF CADMIUM(II), LEAD(II) AND COPPER(II) USING NANO-ENABLED COMPOSITE CARBON BASED ELECTRODES FUNCTIONALIZED WITH MERCURY-NANOPARTICLES |
| 17:45-18:00 h | S.2.4 | A.A. Rajendran (URV) NOVEL POROUS SILICON-BASED ELECTROCHEMICAL TRANSDUCER STABILIZED VIA PYROLYSIS OF FURFURYL ALCOHOL |
| 18:00-18:15 h | S.2.5 | A. Pascual-Esco (UAB) SYNTHESIS OF CARBON DOTS IN CERAMIC MICROREACTORS AS LUMINESCENT REAGENTS FOR HEAVY METALS MONITORING IN WATER |
| 18:15-18:30 h | S.2.6 | J. Marfà (UAB) MOLECULARLY IMPRINTED POLYMER AS TESTING ZONE IN PAPER-BASED VERTICAL FLOW ASSAY |
| 19:30-20:30 h | Walking tour – Science history of Barcelona Meeting point: Metro station Liceu | |
| 20:30 h | Gala Dinner Restaurant Pomarada. Pg. de Gràcia, 78 Principal | |

| Friday 30 th September | | |
|-----------------------------------|---|--|
| 8:50 - 9:00 h | Opening session at the Aula Magna Enric Casassas | |
| 9:00 - 9:30 h | Key-note session at the Aula Magna Enric Casassas Thomas Alava (Cea Leti) CHALLENGES AND PITFALLS TO OVERCOME IN THE DEPLOYMENT OF BIOSENSORS FOR ON-FIELD OPERATION: THE CASE STUDY OF LITTORAL WATER SENSORS | |
| 9:30 - 10:30 h | Oral presentations. Session 3: Methods and Techniques at the Aula Magna Enric Casassas Chairman: Mar Puyol (UAB) | |
| 9:30 - 9:45 h | S.3.1 | J. Bastos-Arrieta (UB) SPECTROELECTROCHEMICAL ANALYTICAL APPROACH FOR QUANTITATIVE STUDY OF THE Fe(II)/Fe(III) – 1,10-ORTHOPHENANTHROLINE SYSTEM |
| 9:45 - 10:00 h | S.3.2 | F. Paré (UAB) NOVEL NITRATE ION-SELECTIVE MICROSENSOR BY MEANS OF DIRECT INK WRITING |
| 10:00 - 10:15 h | S.3.3 | A. Hinojo (IQS-URL) POTENTIOMETRIC H ₂ GAS SENSOR BASED ON BaCe _{0.6} Zr _{0.3} Y _{0.1} O _{3-α} - ZnO |
| 10:15 - 10:30 h | S.3.4 | L. Garrido-Carretero, (UAB) DISPOSABLE POINT-OF-CARE DEVICE FOR THE POTENTIOMETRIC DETERMINATION OF SWEAT CHLORIDE FOR THE DIAGNOSIS OF CYSTIC FIBROSIS |
| 10:30-11:15 h | Coffee break and poster session at the Diagonal Hall and terrace of the Faculty of Chemistry | |

| | | |
|-----------------|---|--|
| 11:15-12:30 h | Oral presentations. Session 4: Biosensors II at the Aula Magna Enric Casassas Chairman: Mònica Campàs (IRTA) | |
| 11:15 - 11:30 h | S.4.1 | M. Mesas (UAB) RAPID TEST FOR THE DETECTION OF MYCOBACTERIUM TUBERCULOSIS |
| 11:30 - 11:45 h | S.4.2 | N. A. Chandra Pandurangi (URV) STRATEGIES TO DEVELOP WHOLE-CELL ELECTROCHEMICAL BIOSENSOR FOR DETECTION OF TOXINS |
| 11:45 - 12:00 h | S.4.3 | G. G. Dalkiranis (ICN2) DEVELOPMENT OF A HEATER TO DRY PRINTED BIOSENSORS IN REAL-TIME |
| 12:00 - 12:15 h | S.4.4 | M. Bernuz (UAB) RAPID TEST TO DETECT CELLULAR IMMUNE RESPONSE AGAINST SARS-CoV-2 |
| 12:15 - 12:30 h | S.4.5 | S. Bahadorikhalili (URV) POLY(ACRYLIC ACID)-MODIFIED POROUS SILICON AS A pH RESPONSIVE TOOL FOR ANTIBIOTIC RESISTANT BACTERIA DETECTION |
| 12:45-13:15 h | Closing remarks + awards at the Aula Magna Enric Casassas Group photo at the entrance of the Faculty in St. Martí i Franquès | |
| 13:30 h | Lunch Grup Soteras, Faculty of Chemistry | |