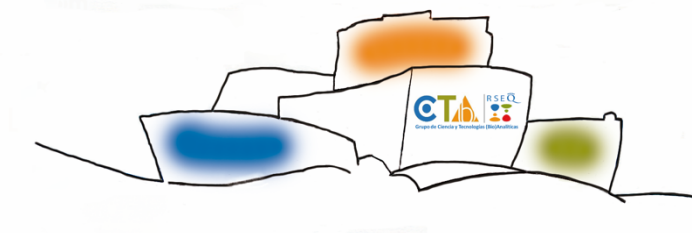


III REUNIÓN DEL GRUPO ESPECIALIZADO DE CIENCIA Y TECNOLOGÍAS (BIO)ANALÍTICAS, RSEQ



Bilbao-Sarriko, 4 de julio de 2025

III REUNIÓN DEL GRUPO ESPECIALIZADO EN CIENCIA Y TECNOLOGÍAS (BIO)ANALÍTICAS DE LA RSEQ

GCTBA 2025

Bilbao-Sarriko, 4 de julio de 2025

PROGRAMA CIENTÍFICO

III REUNIÓN DEL GRUPO ESPECIALIZADO EN CIENCIA Y TECNOLOGÍAS (BIO)ANALÍTICAS DE LA RSEQ

GCTBA 2025

Facultad de Economía y Empresa de la Universidad del País Vasco /EHU
4 de julio de 2025



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Viernes 4 de julio de 2025

8.30-9.00 Acreditación, entrega de documentación y colocación de pósters
9.00-9.20 INAGURACIÓN DE LA III REUNIÓN DEL GCTbA y Entrega Premios . Moderadores: Jose Manuel Costa y Ramón J. Barrio
9.20-9.35 Conferencia Oral Invitada: Premio Tesis 2023: Eloy Povedano . BIOELECTROANALYTICAL PLATFORMS WITH MULTIPLEXING AND MULTI-OMICS POTENTIAL FOR PRECISION MEDICINE AT POINT OF CARE
9.35-9.50 Conferencia Oral Invitada: Premio Tesis 2024: Alberto Celma . THE ROLE OF ION MOBILITY-HIGH RESOLUTION MASS SPECTROMETRY FOR THE ANALYSIS OF ORGANIC MICROPOLLUTANTS IN COMPLEX MATRICES
9.50-10.00 Conferencia Oral Invitada: Premio Investigación en 3 min 2024: Víctor Pérez . INSTALLING CAMERAS IN THE FACTORY: ELECTROCHEMICAL BIOSENSORS FOR EARLY MOLECULAR SURVEILLANCE OF DISEASES
PROGRAMA GENERAL
10.00 CONFERENCIAS ORALES: SESIÓN 1. TOPIC: Elemental mass spectrometry applications (ICP-MS) Moderadores: Angel Ríos y Rosa Alonso
10.00-10.10 O1. Antonio Bazo , Eduardo Bolea-Fernandez, Ana Rua-Ibarza, Maite Aramendía, Kharmen Billimoria, Paula Menero-Valdés, Jack Morley, Sara Neves, Armando Sánchez-Cachero, Heidi Goenaga-Infante, Martín Resano. IMPROVING THE QUANTITATIVE ANALYSIS OF SINGLE CANCER CELLS VIA LASER ABLATION ICP-MASS SPECTROMETRY: INTRODUCING A PARTICLE MASS CALIBRATION APPROACH
10.10-10.20 O2. Saida Sanchez-Espirilla , Belén Callejón-Leblic, Rafael Santana, Antonio Pereira-Vega, Germán Peces-Barba, Tamara García Barrera. ANALYSIS OF SELENOPROTEINS IN LUNG CANCER AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE HUMAN SERUM SAMPLES BY ISOTOPIIC DILUTION ANALYSIS COMBINING AFFINITY CHROMATOGRAPHY AND SIZE EXCLUSION CHROMATOGRAPHY COUPLES TO INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY
10.20-10.30 O3. Juan José López-Mayán , María Carmen Barciela-Alonso, Elena Peña-Vázquez, Antonio Moreda-Piñeiro, and Pilar Bermejo-Barrera. DEVELOPMENT OF ANALYTICAL METHODOLOGIES FOR Ag AND TiO ₂ NANOPARTICLES DETERMINATION IN COMPLEX MATRICES
10.30-12.00 Café + Sesión de Pósters
12.00 CONFERENCIAS ORALES: SESIÓN 2. TOPIC: Chromatography and mass spectrometry developments and applications. Moderadores: María Luisa Marina y Asier Vallejo
12.00-12.10 O4. Esther Gómez-Mejía , María Concepción García, María Castro-Puyana, María Luisa Marina. RECOVERY OF PROTEINS FROM LEMON PEELS BY PRESSURIZED LIQUID EXTRACTION AS A SOURCE OF BIOACTIVE PEPTIDES. CHARACTERIZATION OF THE MOST ACTIVE HYDROLYSATES BY UHPLC-MS/MS
12.10-12.20 O5. Andrea López-Gutiérrez , N. Rodríguez-Fariñas, R.C. Rodríguez Martín-Doimeadios, Á. Ríos Castro. PROMISING STUDY OF METALLIC NPs IN BIOLOGICAL MEDIA BASED ON EAF4 WITH A MULTI-DETECTOR ARRAY PLATFORM
12.20-12.30 O6. Gemma Beiro-Valenzuela , L. Olmo-García, S. Rodríguez-Rodríguez, A. Mohamed-Barara, R.P. Monasterio, I. Serrano-García, E. Hurtado-Fernández, R. Pedreschi, A. Carrasco-Pancorbo. DETERMINATION OF ACETOGENINS IN AVOCADO TISSUES FROM BACON, FUERTE, AND HASS VARIETIES BY USING LC-IMS-MS
12.30-12.40 O7. Ana Jano , Estela Prieto, Adrián Fuente-Ballesteros, Silvia Valverde, Ana María Ares, José Bernal. LIPID PROFILING IN HONEY AND BEE POLLEN USING MALDI-TOF MS
12.40-12.50 O8. Cristina de Dios Pérez , Ana Ballesteros Gómez, Soledad Rubio Bravo. ANALYZING EMERGING CONTAMINANTS IN INDOOR DUST BY SUPRAS-LC-HRMS
12.50-13.00 O9. Claudia Giménez-Campillo , Marta Pastor-Belda, Natalia Campillo, Natalia Arroyo-Manzanares, Pilar Viñas. DETERMINATION OF VOLATILE ORGANIC COMPOUNDS IN PEARS BY HS-GC-IMS AND CHEMOMETRIC TOOLS FOR CULTIVAR AND RIPENING STAGE CLASSIFICATION
13.00-13.10 O10. Arrate Rivas , Saioa Escondrillas, Omaira de la Hera, Rosa M. Alonso. CHILDHOOD OBESITY AND MICROBIOTA. DETERMINATION OF SHORT CHAIN FATTY ACIDS (SCFAS) IN RAT AND MICE FECES BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY
13.10-13.20 O11. David Fabregat-Safont , Gabriel Gil-Gómez, Àlex Gómez-Gómez, Éliida Alechaga, Laura Visa, Manuel Pera, Óscar J. Pozo. GUIDED METABOLOMICS FOR THE OPEN DETECTION OF CARBONYL-CONTAINING COMPOUNDS AND ITS APPLICATION FOR DETECTING POTENTIAL BIOMARKERS FOR GASTRIC CANCER
13.20-13.30 O12. Claudia Gómez , S. Escudero, L. J. Royo, M. B. Fernández, M.T. Fernández- Argüelles and M. L. Fernández-Sánchez. ANALYTICAL CHARACTERIZATION OF HUMAN BREAST MILK EXOSOMES: IMPACT OF PASTEURIZATION ON THEIR BIOACTIVE COMPONENTS
13.30-14.30 COMIDA

<p>14.30 CONFERENCIAS ORALES: SESIÓN 3. TOPIC: Sample preparation and automation Moderadores: Alfredo de la Escosura y Nora Unceta</p>
<p>14.30-14.40 O13. Andrea Cabrero-Martín, Sara Santiago, Verónica Serafin, Ana Montero-Calle, José M. Pingarrón, Rodrigo Barderas, Susana Campuzano. RECOGNITION AND SIGNALING BIOREAGENTS DECORATED GOLD-SILICA NANOCONJUGATES FOR IMPROVED ELECTROCHEMICAL IMMUNOTRACKING OF CXCL12 IN CANCER SCENARIOS</p>
<p>14.40-14.50 O14. Begoña Fernández-Pintor, Judith Gañán, Damián Pérez-Quintanilla, Sonia Morante-Zarcelero, Isabel Sierra. APPLICATION OF A SPHERICAL MESOPOROUS SILICA FUNCTIONALIZED WITH OCTADECYLSILANE LIGANDS AS SORBENT IN THE MINIATURIZED MSPEED TECHNIQUE FOR THE SIMULTANEOUS EXTRACTION OF 23 ALKALOIDS IN FLOWER EXTRACT SAMPLES</p>
<p>14.50-15.00 O15. Sonia Alcubierre, Isabel Sanz-Vicente, Susana de Marcos, Javier Camacho-Aguayo and Javier Galbán. CHEMILUMINESCENCE MEASUREMENTS USING SMARTPHONES AND DIGITAL IMAGES: DETERMINATION OF HYPOXANTHINE/XANTHINE</p>
<p>15.00-15.10 O16. Ainhoa Elejaga-Jimeno, A. Alday-Izaguirre, L. Díez-Caballero, M. Saumell-Esnaola, N. Unceta, M. A. Goicolea, J. Sallés, R.J. Barrio, G. García del Caño, A. Gómez-Caballero. PROVING THE USE OF MOLECULARLY IMPRINTED NANOPARTICLES IN PROTEIN IMMUNOPRECIPITATION</p>
<p>15.10-15.20 O17. Mario Pérez-Rodríguez, Clara Saweres-Argüelles, Alberto Sánchez-Calvo, María Matos, Esther Serrano-Pertierra, María Carmen Blanco-López. A NOVEL HYBRID LFIA-ELECTROCHEMICAL PLATFORM FOR ULTRA-SENSITIVE E. COLI O157:H7 DETECTION</p>
<p>15.20-15.30 O18. Javier Bujalance-Fernández, Eva Carro, Beatriz Jurado-Sánchez and Alberto Escarpa. BIOCATALYTIC ZIF-8 SURFACE-FUNCTIONALIZED MICROMOTORS FOR COPPER SENSING IN CEREBROSPINAL FLUID SAMPLES FOR ALZHEIMER DIAGNOSIS</p>
<p>15.30-15.40 O19. Sandra Rodríguez-Blázquez, Esther Gómez-Mejía, Noelia Rosales-Conrado, María Eugenia León-González. A GREENER FUTURE IN SEED OIL EXTRACTION: SMARTER AND SUSTAINABLE ANALYTICAL STRATEGIES</p>
<p>15.40-16.10 Café + Sesión de Pósters</p>
<p>16.10 CONFERENCIAS ORALES: SESIÓN 4. TOPIC: Biosensing and decentralized analysis Moderadores: Angel Maquieira y Alberto Gómez-Caballero</p>
<p>16.10-16.20 O20. Daniel García-Fernández, Estefanía Enebral-Romero, Marta Toldos-Torres, Mónica Luna, David López-Diego, Marta Failde, Brais González-Tobío, Félix Zamora, Tania García-Mendiola. INNOVATIVE DENDRIMER-BASED DNA BIOSENSOR FOR HIV DETECTION</p>
<p>16.20-16.30 O21. Bettina Glahn-Martínez, Álvaro Luque-Uría, Tarja K. Nevanen, Beatriz Jurado, Alberto Escarpa, Guillermo Orellana, María C. Moreno-Bondí, Elena Benito-Peña. NEXT-GENERATION BIOANALYTICAL TOOLS FOR THERAPEUTIC DRUG MONITORING OF IMMUNOSUPPRESSANTS IN ORGAN TRANSPLANTATION</p>
<p>16.30-16.40 O22. Diego Álvarez-Rafael, C. Toyos-Rodríguez, D. Valero-Calvo, F. Lombó and A. de la Escosura-Muñiz. DEVELOPMENT OF A NOVEL BIOANALYTICAL SYSTEM BASED ON NANOCHANNELS FOR THE LIVE MONITORING OF VIRULENCE MARKERS IN BACTERIAL CULTURES</p>
<p>16.40-16.50 O23 Antonio Calvo-López, Beatriz Rebollo-Calderón, Aida Ormazábal, Rafael Artuch, Javier Rosell-Ferrer, Julian Alonso-Chamarro and Mar Puyol. NOVEL AUTOMATED POINT-OF-CARE ANALYSER FOR AMMONIUM ION DETERMINATION IN WHOLE BLOOD</p>
<p>16.50-17.00 O24. Madalin Alexandru Cobzariu, Lucía García-Flórea, Rebeca Miranda-Castro, María Jesús Lobo-Castañón. ON-SURFACE ISOTHERMAL AMPLIFICATION FOR ELECTROCHEMICAL DETECTION OF OVEREXPRESSED COLORECTAL CANCER-RELATED LONG NON-CODING RNAs</p>
<p>17.00-17.10 O25. Pablo Rioboó Legaspi, Ana Fernández-Quesada, María Cerrato-Álvarez, M. Teresa Fernández-Abedul, Estefanía Costa-Rama. ELECTROELISA PROBE: A HANDHELD LOW-COST PROBE FOR ELECTROCHEMICAL READOUT OF MICROTITER PLATES</p>
<p>17.10-17.20 O26. Candela Melendreras, Belén Fernández Colomer, José Manuel Costa Fernández, Roumiana Tsenkova, Yoko Osafune and Ana Soldado. AQUAPHOTOMICS: A BREAKTHROUGH IN ANALYTICAL METHODOLOGIES</p>
<p>17.20-17.30 O27. Alba Pejenaute, Pablo Herrero, Santos Merino, Gabriel Ortega. ENGINEERING PROTEIN FOLDING FOR REAL TIME, CONTINUOUS BIOSENSING</p>
<p>17.30-18.00 Entrega de Premios Posters. Clausura de la Reunión</p>
<p>18.00- 19.00 III Asamblea General de Socios del GCTbA</p>

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