

VI RSEQ Chemical Biology Group Meeting #CHEMBIOVI AGENDA

Organised by:



Centro Investigación
Príncipe Felipe
València (Spain)



6th - 8th March 2023

AGENDA Day 1.- Monday 6th March 2023

9.00 – 10.45 Registration. Montage of Posters and Exhibition

10.45 Welcome & Opening Remarks.

Plenary Lecture I

Discussion Leader: Ramón Martínez-Máñez (*Universitat Politècnica de Valencia, ES*)

11.00 PL1. Jan van Hest (*Eindhoven University of Technology, NL*)

Polymer-based Nanomotors and Artificial Cells

Session 1: Supramolecular tools for mimicking Biology

Discussion Leader: Beatriu Escuder (*Universitat Jaume I, ES*)

11.45 IL1. Nathalie Katsonis (*University of Groningen, NL*) Setting supramolecular chemistry in motion.

12.15 IL2. Samuel Sánchez Ordóñez (*Institute for Bioengineering of Catalonia (IBEC), ES*)

Chemical Nanobots and their potential use in biomedicine.

12.45 O1. Fernando López-Gallego (*CIC biomaGUNE, ES*) Surpassing substrateenzyme competition by compartmentalization

13.00 FC1. Manuel Pérez-Soto (*Instituto de Parasitología y Biomedicina "LópezNeyra", ES*) Di valent Naphthalene Diimide as G quadruplex Ligands with Anticancer and Antiparasitic Activity.

13.05 FC2. Vicente Martí-Centelles (*IDM-UPV, ES*) Molecular Cages for the Encapsulation of Anticancer Drugs as Drug Delivery Tools

13.10 FC3. Mantas Liutkus (*CICbiomaGUNE, ES*) Metal-directed protein-based structural assemblies

13.15 FC4. Javier Hernández Gil (*Instituto de Tecnología Química CSIC-UPV, ES*) Multimodal imaging of mouse peripheral nerves using a NaV1.7-targeted peptide and synthetic chlorins)

13.20 FC5. Antoni Llopis-Lorente (*Universitat Politècnica de València, ES*) Engineering Gated Nanoparticles as Chemical Communication Systems

13.25 FC6. Snežana Dordević (*Centro de Investigación Príncipe Felipe, ES*) Critical Strategies for Crafting Polymer-Drug Conjugates Possessing On-Demand Drug Release

13.30 IL3. Ignacio Alfonso (*IQAC-CSIC, ES*) Supramolecular Chemical Biology

Session 2: Translational Aspect of Research

An Interactive Session

17.30 - 16.45 RT1. Round Table Discussion: Key Aspect on Bed to Bench Translation

Discussion Leaders:

María J. Vicent (*Centro de Investigación Príncipe Felipe, ES*)

- **Juan Carlos Morales** (*Institute of Parasitology and Biomedicine López Neyra, CSIC, ES*)
- **Oscar Millet** (*ATLAS Molecular Pharma SL, ES*)
- **Vicent J. Nebot** (*Curapath, ES*)
- **Luz María García Piqueres** (*Consortio Centro de Investigación Biomédica en Red, ES*)

Session 3: Structure and Reactivity I

Discussion Leader: Juan Carlos Morales (*Institute of Parasitology and Biomedicine López Neyra, CSIC, ES*)

17.15 FC7. Laura Agost-Beltrán (*Universitat Jaume I, ES*) “Two in a row”: keto-Michael acceptor warheads for inhibitors and chemical probes.

17.20 FC8. Juan C. Muñoz-García (*Instituto de Investigaciones Químicas-CSIC, ES*) Fast STD NMR Validation of Static and Dynamic 3D Models of Weak Protein-Ligand Complexes.

17.25 FC9. Xavier Gómez-Santacana (*IQAC-CSIC, ES*) A modular click ligand-directed approach to label endogenous aminergic GPCRs in live cells.

17.30 FC10. Javier García-Marín (*Universidad de Alcalá, ES*) Functional mapping of the protein-protein interaction between integrin-linked kinase and alpha-parvin and its biological response.

17.35 FC11. Carlos Peris-Torres (*University of Granada, ES*) Single-Domain Antibodies as Key Players in Bead-Based Diagnostic Platforms for Detecting Tumor Biomarkers in Liquid Biopsy.

17.40 FC12. Jorge González-García (*University of Valencia, ES*) Development of triphenylamine derivatives for targeting G-quadruplexes in neurodegenerative disorders.

17.45 O2. Lourdes Gude (*Universidad de Alcalá, ES*) Multifunctional Organic and Metallo-organic Ligands Targeting Secondary G4-DNA Structures. DNA Binding and Antitumor Activity.

18.00 O3. Álvaro Somoza (*IMDEA-Nanociencia, ES*) LncRNAs as therapeutic targets in combination therapy.

18.15 IL4. Ana Beloqui Elizazu (*POLYMAT, University of the Basque Country, ES*) Dressing proteins with functional materials.

18.45 O4. Gabriel Ortega Quintanilla (*CIC bioGUNE, ES*) Exploring the biophysics of protein-surface interactions.

19.00 O5. Alba García-Fernández (*Biomedical Research Networking Center in Bioengineering, Biomaterials, and Nanomedicine, CIBER-BBN, ES*) Engineering nanoparticle communication in living systems by stigmergy: an application to enhance antitumor therapy in triple-negative breast cancer.

19.15 – 20.30 Reception Cocktail & Poster Session

Day 2. Tuesday 7th March 2023

Plenary Lecture II

Discussion Leader: Beatriu Escuder (*Universitat Jaume I, ES*)

09.00 PL2. Aitziber L. Cortajarena (*CIC biomaGUNE, ES*) Engineered hybrid protein-based tools and biomaterials: new tools for biomedicine and technology.

Session 4: Structure & reactivity II

Discussion Leader: Oscar Millet (*ATLAS Molecular Pharma SL, ES*)

09.45 IL5. Alberto Fernández-Tejada (*CIC bioGUNE, ES*) Development of Saponin-based Synthetic Adjuvants and Molecular Vaccines.

10.15 IL6. Marc Nazare (*Leibniz Research Institute for Molecular Pharmacology, DE*) Tailoring chemical tools beyond simple small molecule ligands.

10.45 O6. Paco Fernández Trillo (*Universidade da Coruña, ES*) **New** Polymers to Understand and Modulate Biology

11.00 Sponsor's Talk

11.05 – 11.30 Coffee Break & Poster Session

Session 5: Importance of Bio/Nano interphase

Discussion Leader: Ignacio Alfonso (*IQAC-CSIC, ES*)

11.30 IL7. Álvaro Mata (*University of Nottingham, UK*) Biomaterial complexity and functionality emerging at the bio/nano interphase.

12:00 O7. Maria Medel (*Centro de Investigación Príncipe Felipe, ES*)

The Design of Polypeptide-Based Nanoconjugates as Advanced Theranostics.

12.15 O8. Laia Josa-Culleré (*IQAC-CSIC, ES*) Photoswitching HDAC inhibitors for the spatiotemporal targeting of cancer cells with light.

12.30 O9. Isabel García (*Biomedical Research Networking Center in Bioengineering, Biomaterials, and Nanomedicine, CIBER-BBN, ES*)

Nanosensors for monitoring Cell Death by Surface-Enhanced Raman Scattering: 2D and 3D plasmonic substrates.

12.45 O10. Agustín Robles-Remacho (*Universidad de Granada, ES*)

ChemFISH towards Spatial Genomics: Direct Detection of Alpha Satellite DNA with Single-Base Resolution by Using Abasic Peptide Nucleic Acids and Fluorescent In Situ Hybridization.

13.00 – 14.30 Lunch & Poster Session

14.30 IL8. Ana Beloqui-García (*Université Catholique de Louvain, BE*) Importance of lipid nanoparticle surface on gut hormones stimulation.

15.00 IL9. Dorleta Jiménez de Aberasturi (*CIC biomaGUNE, ES*) Hybrid functional materials for biofabrication.

15.30 IL10. Hugo M. Santos (*LAQV-REQUIMTE, NOVA School of Science and Technology, NOVA University Lisbon, PT*) From the Preparation of Sustainable Nanomaterials to applications in Nano-Proteomics & Personalized Medicine.

16.00 Sponsor's Talk

16.05 – 16.30 Coffee Break & Poster Session

Plenary Lecture III

Discussion Leader: *María J. Vicent (Centro de Investigación Príncipe Felipe, ES)*

16.30 PL3. M. Pilar Marco (*Consejo Superior de Investigaciones Científicas, ES*) Targeting Bacteria Quorum Sensing for New Diagnostic and Therapy Strategies

Session 6: Imaging and Biomarkers

Discussion Leader: *Álvaro Somoza (IMDEA Nanociencia, ES)*

17.15 FC13. José Antonio Laz-Ruiz (*University of Granada, ES*) Identification of Cell Subpopulations in a Live-Cell Coculture Using Bioorthogonal Metal-Tagged Nanoparticles as Barcoding Tools.

17.20 FC14. Andy Hernández Montoto (*Universitat Politècnica de València, ES*) Optimization of biosensor synthesis and sensing assay for pathogen detection based on oligonucleotide gated nanoporous anodic alumina films.

17.25 FC15. Paula Díez (*Universitat Politècnica de València, ES*) Glucosepowered Janus nanomotors for active anticancer drug delivery.

17.30 FC16. Ana Armiñán (*Centro de Investigación Príncipe Felipe, ES*) Development of Polymer-Drug Conjugates as a Combinatorial Therapeutic Strategy for Triple Negative Breast Cancer.

17.35 FC17. Noelia Rubio (*Universidad de Alcalá, ES*) Graphene-Based Nucleants for Protein Crystallization

17.40 FC18. Paz Boix-Montesinos (*Centro de Investigación Príncipe Felipe, ES*) Peptide Amphiphile-Based Three-Dimensional Breast Cancer Models Recapitulate the Extracellular Matrix for Nanomedicine Evaluation.

Session 7: Computational tools & AI approaches

Discussion Leader: *Maite Roca (Universitat Jaume I, ES)*

17.45 O18. Laura Masgrau (*Universitat Autònoma de Barcelona, ES*)
Computational Analysis to Interpret How Distal Mutations Shape Substrate Binding Sites during Evolution of a Metallo-Oxidase into a Laccase.

18.00 O19. Juan José Nogueira Pérez (*Universidad Autónoma de Madrid, ES*)
Computational Modeling of Biological Systems by Classical and Quantum Mechanical Approaches.

18.15 FC19. Inmaculada Conejos-Sánchez (*Centro de Investigación Príncipe Felipe, ES*)
Polypeptide-Based Combination Approach Tackling Degenerative disorders.

18.20 FC20. Antonio Bauzá Riera (*University of the Balearic Islands, ES*)
Noncovalent Interactions in Chemical Biology beyond the Hydrogen Bond: A Theoretical Perspective.

18.25 FC21. Carlos A. Ramos-Guzmán (*Universidad Jaume I, ES*)
Unveiling the Mechanistic Singularities of Caspases. A Computational Analysis of the Reaction Mechanism in Human Caspase-1.

18.30 FC22. Rafael García-Mesguer (*Universidad de Valencia - ICMol, ES*)
Computational Insights into the Polyethylene Terephthalate (PET) Depolymerization by the wild- and fast-PETase Enzymes.

18.35 FC23. Elena Gómez-Rubio (*CIC bioGUNE, ES*)
Computer-Aided Engineering of VHHs Nanobodies.

18.40 FC24. Bruno Di Geronimo (*Medical University of Graz, AT*)
On the pursuing of “Chemical Rescuers” for mannosidosis by computer-aided molecular design

20.30 – 22.30 Social Dinner

Day 3. Wednesday 8th March 2023

Plenary Lecture IV

Discussion Leader: Ignacio Tuñón (*Universitat de València, ES*)

09.00 PL4. Adrian Mulholland (*University of Bristol, UK*) Multiscale Simulation for Drug Resistance and Enzyme Design.

Session 8: Computational tools & AI approaches

Discussion Leaders: Gonzalo Jiménez-Osés (*CIC bioGUNE, ES*)

09.45 IL11. Enrique Marcos (*Molecular Biology Institute of Barcelona, ES*) De novo design of beta-sheet proteins for scaffolding ligand-binding pockets and loops.

10.15 IL12. Marco De Vivo (*Istituto Italiano di Tecnologia, IT*) Metal-Aided Enzymatic Processing of DNA and RNA.

10.45 O20. Francesca Peccati (*CIC bioGUNE, ES*) Accurate Prediction of Enzyme Thermostabilization using AlphaFold Ensembles.

11.00 IL13. Sonsoles Martín-Santamaría (*Centro de Investigaciones Biológicas Margarita Salas, CSIC, ES*) Exploring immunity and bacterial resistance from the computational side.

11.35 – 12.00 Coffee Break & Poster Session

Session 9: Imaging and Biomarkers

Discussion Leader: Álvaro Somoza (*IMDEA-Nanociencia, ES*)

12.00 IL14. Jesús M. de la Fuente (*Instituto de Nanociencia y Materiales de Aragón, CSIC, ES*) Nanoactuators for Therapy and Diagnosis.

12.30 IL15. Hannes Mikula (*TU Vienna, AT*) Next-level chemical tools for ultrafast bioorthogonal bond-cleavage.

13.00 IL16. Elena Pazos (*Universidade da Coruña, ES*)

Peptide-Based Tools for Biosensor and Stimuli-Responsive Systems Design.

13.30 Prizes & Closing Remarks
Closing Remarks

- P2.** Methyl-to-Ethyl Replacement Makes the Difference: Structure-Guided Design of a New Cancer Vaccine Based on a Tn Antigen Surrogate. **F.S. Lazaris**, I.A. Bermejo Ruiz, A. Guerreiro, A. Avenzoza Aznar, J.H. Busto Sancirían, F.M. García Martín, G. Bernardes, R. Hurtado Guerrero, R. Fiammengo, A. Martínez Ramírez, J.M. Peregrina García, F. Corzana López. (Universidad de La Rioja, Spain)
- P10.** Superchaotropic Boron Clusters for the Intracellular Delivery of Bioactive Molecules. **G. Salluce**. A. Barba-Bon, I. Lostalé-Seijo, W.M. Nau, J. Montenegro. (Universidade de Santiago de Compostela, Spain)
- P12.** Computational characterization of biocatalytic reactive intermediates for the discovery and design of new enzymatic activities. **M. Garcia-Borràs**, J. Soler, C. Calvó-Tusell, H. Girame, F. Feixas. (Universitat de Girona, Spain)
- P13.** Biomedical Applications of Low Molecular Weight Supramolecular Hydrogels Based on Short Peptides. **N. Ozbek**, B. Escuder. (Universitat Jaume I, Spain)
- P14.** sp²-Iminoglycolipid-based Immunomodulatory Drugs Targeting Cancer, Parasitic Infections and Inflammatory Disorders. **E.M. Sánchez Fernández**, C. Ortiz Mellet, J.M. García Fernández, H. Ouadid-Ahidouch, A. Arroba, F. Gamarro, J.M. Padrón. (University of Seville, Spain)
- P22.** Engineering enzymes for all stereoisomers of a bimolecular Diels-Alder reaction. **A. Torres-Mozas**, E. Gómez-Rubio, C.D. Navo, F. Peccati, G. Jiménez-Osés. (CIC bioGUNE, Spain)
- P24.** The Special Reactivity of Cyclopropanone with 1,2-Aminophosphines in Bioconjugation Reactions. **S. Alunno Rufini**, C.D. Navo, G. Jiménez-Osés. (CIC bioGUNE, Spain)
- P31.** Use of NBD-Functionalized Peptides to Investigate Exo-Helical Topology. **R. Gomez Ojea**, J. Bergueiro, J.M. Martinez Parra, J. Montenegro. (University of Santiago de Compostela, Spain)
- P37.** New approaches for the prediction of metal binding sites in biological scaffolds: from knowledge-based models to deep learning. **J.D. Maréchal**, R. Fernández-Díaz, J.E. Sánchez-Aparicio, L. Tiessler-Sala, L. Roldán-Martín. (Universitat Autònoma de Barcelona, Spain)
- P43.** Polypeptide-based Carriers with Inherent Therapeutic Activity. **M. Ibáñez**, E. Masià, I. Conejos, M. Medel, M.J. Vicent. (Centro Investigación Príncipe Felipe, Spain)

- P45.** Using Hydroxylamines for the Study of S-Acylation. **C. Busquets Hernández**, A. Tsiotsia, S. Ribo Gene, D. Carbajo, G. Triola. (IQAC-CSIC, Spain)
- P50.** Regulation of iron by frataxin in the heme cycle. **T. Pereira**, G. Bernardo, A. Schedlbauer, O. Millet. (CIC bioGUNE, Spain)
- P51.** Native Chemical Ligation Using C-terminal o-Aminoanilide Thioester Surrogates. **I. Sánchez-Campillo**, J. Miguel-Gracia, P. Karamanis, J.B. Blanco-Canosa. (Instituto de Química Avanzada de Cataluña, Spain)
- P53.** Embedding of Machine Learning Potentials for Multiscale Biomolecular Simulations.
K. Zinovjev, I. Tuñón. (Universidad de Valencia, Spain)
- P54.** GH loop motion could hinder catalysis in Escherichia coli dihydrofolate reductase. **J.J. Ruiz Pernía**. (Universitat de València, Spain)
- P58.** Hybrid Non-Covalent Hydrogels Based on Short Peptide- Hyaluronic/Polyglutamic Acid. **B. Giménez-Hernández**, B. Escuder. (Institute of Advanced Materials, Spain)
- P62.** Cross-Kingdom Communication between Living Microorganisms using Tailor-Made Nanotranslators. **A. Morellá-Aucejo**, B. de Luis, A. Llopis-Lorente, J. MartínezLatorre, F. Sancenón, C. López, J.R. Murguía, R. Martínez Máñez. (Universitat Politècnica de València-Universitat de València, Spain)
- P63.** Cancer-Immune Cell Communication Nanosystem as a Novel Immunotherapy Strategy. **E. Lucena-Sánchez**, F.J. Hicke, A. García-Fernández, P. Díez, R. Martínez-Máñez. (Universitat Politècnica de València-Universitat de València, Spain)
- P64.** Advances in Pharmacological Chaperone Development against Hereditary Tyrosinemia Type I. **J. Gil-Martínez**, R. Scarin, G. Bernardo-Seisdedos, F. Lopitz-Otsoa, D. FernandezRamos, O. Millet. (CIC bioGUNE, Spain)
- P66.** Fluorogenic Probe with Diuretic Characteristics for the In Vivo Detection of Monoamine Oxidase Overexpression through Urine. **M. Domínguez**, A. Lérída-Viso, J.F-Blandez, A. García-Fernández, F. Sancenón, R. Martínez-Máñez. (Universitat Politècnica de València, Spain)
- P67.** Non-invasive NMR-based strategies for the detection of vulnerability in atheromatous plaques. **M.C. Martínez-Bisbal**, M. Botello-Marabotto, E. Plana, M. Miralles, A. Bernardos, P. Medina, R. Martínez-Máñez. (Universitat Politècnica de València-Universitat de València, Spain)

P76. Liver phosphorome characterization of a Firoc mouse model using optimized quantitative ³¹P-NMR spectroscopy. **G. Bernardo-Seisdedos**, J. Bilbao, T. Diercks, J. Pignatelli, I. Torres Aleman, O. Millet. (CIC bioGUNE, Spain)

P77. Personalized Combination Therapies for Advanced Prostate Cancer with PARP Inhibitors. **A. Serrano-Martí**, A. Armiñán, I. Conejos-Sánchez, S. Đorđević, M.J. Vicent.

(Centro Investigación Príncipe Felipe, Spain)

P78. Polyglutamate-based conjugates for treatment of pediatric solid tumours. **A. Benaicha-Fernández**, E. Masià, M.J. Vicent, I. Conejos-Sánchez. (Centro Investigación Príncipe Felipe, Spain)

P79. Reaction Mechanism of Human L-Asparaginase III from QM/MM Simulations. **M. Andelkovic**, C.A. Ramos Guzmán, K. Zinovjev, J.J. Ruiz Pernía, I. Tuñón.

(Universitat de València, Spain)

P87. N-Aryltetrahydroisoquinoline derivatives as CD44-HA interaction inhibitors: design, synthesis, in silico studies and antitumor effect. **A. Conejo-García**, J.M. Espejo-Román,

M. Chayah-Ghaddab, A. Muguza Montero, C. Domene, B. Rubio-Ruiz, R.M. Sánchez-Martín, O.M. Cruz-López. (University of Granada, Spain)

P88. Selective Anticancer Therapy Based on a HA-CD44 Interaction Inhibitor Loaded on

Polymeric Nanoparticles. **O. Cruz-López**, A. Conejo-Conejo, J.M. Espejo-Román, B. Rubio-Ruiz, V. Cano-Cortés, S. Gonzalez-Resines, C. Domene, R.M. Sánchez-Martín.

(University of Granada, Spain)

P89. Computational Study on the Inhibition of the SARS-CoV-2 Main Protease by the Nitrile Inhibitor PBI-0451. **J. Schillings**, C.A. Ramos-Guzmán, J.J. Ruiz-Pernía, I. Tuñón. (Universidad de Valencia, Spain)

P91. Conformational Changes and ATP Hydrolysis in Zika NS3-helicase. A computational study. **A. García-Martínez**, I. Tuñón, J.J. Ruiz Pernía, K. Zinovjev. (Universidad de Valencia, Spain)

P92. Non-Covalent Interactions and Inter-Strand Cross-Link Formation Between a Photosensitizer and DNA: A Theoretical Study. **A.M.A. Abdelgawwad**, A. Monari, I. Tuñón, A. Francés. (Universidad de Valencia, Spain)

P93. The RedBox as a G4 DNA Binding Agent. **I. Montes de Oca Estrada**, P. Novo Valencia, M. Vázquez Sulleiro, C. Peinador Veira, M.D. García Romero, E. Pazos Chantrero. (Universidade da Coruña, Spain)

- P95.** Synthesis and DNA Interactions of Steroid Ruthenium(II) Metal Complex Conjugates as Potential G-Quadruplex DNA Ligands. **A. Gómez-Bra**, A. Nicolás, Z. Gándara, L. Gude. (University of Alcalá, Spain)
- P96.** Lanthanide complexes self-assembling in aqueous media for white light emission and bioimaging applications. **J.A. González-Vera**, F. Fueyo-González, A. Navarro, T. Peña-Ruiz, C. Izquierdo-García, M. Gutiérrez-Rodríguez, R. Herranz, C. Burgio, A. Reinoso, J.M. Cuerva, A. Orte. (University of Granada, Spain)
- P97.** Synthesis of Hydrazinecarbothioamide or Hydrazinephenylthiazole Disubstituted 1,10Phenanthrolines as Potential Telomeric G-Quadruplex DNA Ligands. **A. Nicolás**, M. Barroso, A. Gómez-Bra, Z. Gándara, L. Gude. Universidad de Alcalá, Spain)
- P98.** Modulating innate immunity: Computational studies of Toll-like receptors 2 and 4. **M. Mínguez-Toral**, A. Matamoros-Recio, S. Martín-Santamaría. (Centro de Investigaciones Biológicas "Margarita Salas", Spain)
- P99.** Dynamic Tetrazine-based Macrostructures for the Selective Treatment of Colon. **Y. Pérez Pérez**, M. Rodríguez López, J. Scoccia, R. Carrillo Fumero (Instituto de Productos Naturales y Agrobiología IPNA del CSIC, Spain)
- P100.** Nonionic amphiphilic lipid-polymers as alternative to lipid-PEG. **R. Miravet-Martí**, I. García, L. Herrera, J. García, C. Felip-León, V.J.Nebot. (Curapath S.L., Spain)
- P101.** Predicting small molecules as potential anticancer multitarget agents. A computational study. **R. Castillo**, M. Roca. (Institute of Advanced Materials, Spain)
- P102.** Atomic Insights into the TRPM8 Activation by Small Molecules Through Computational Approaches. **J. Garcia-Marin**, C. Domene. (University of Bath, United Kingdom)
- P103.** Computational Study on the Reactivity and Inhibition of Arginine Gingipain B. **M. Roca**, S. Movilla, S. Martí, V. Moliner. (Institute of Advanced Materials, Spain)
- P104.** Comprehensive analysis and prediction of the chemobiological space of food compounds. **A. Sánchez-Ruiz**, G. Colmenarejo. (IMDEA Alimentación, Spain)
- P106.** Masked and brain-permeable antibodies for the treatment of glioblastoma multiforme. **B. Oller-Salvia**, M.C. Lucana, R. Lucchi, M. Escobar, C. Díaz-Perlas. (Institut Químic de Sarrià - Universitat Ramon Llull, Spain)
- P107.** Development of Active-Targeting Nanoplatforms for Cancer Diagnosis. **R.M. Sanchez Martin**, M.V. Cano Cortés, J.A. Laz Ruiz, R. Lopez Gonzalez, P. García Sacristan, M. Rodríguez Segura, J.J. Díaz Mochon. (GENYO, Centre for Genomics and Oncological Research, Spain)

P108. Visible-light promoted bioorthogonal reactions. **X. Fernández González**, A. Seoane

Fernández, J. Miguel Ávila, M. Tomás-Gamasa, J.L. Mascareñas Cid. (University of Santiago de Compostela, Spain)

P109. Nitrene transfer reactions in cellulose. **C. D'Avino**, S. Gutiérrez, M. Tomás-Gamasa,

J. Luis Mascareñas. (University of Santiago de Compostela, Spain)

P110. New Approaches for Enzyme Design and Engineering. **R. Núñez-Franco**, A. Torres, C.D. Navo, F. Peccati, B. Wicky, L. Milles, G. Ortega, O. Millet, D. Baker, G. Jiménez-Osés (CIC bioGUNE, Spain)

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