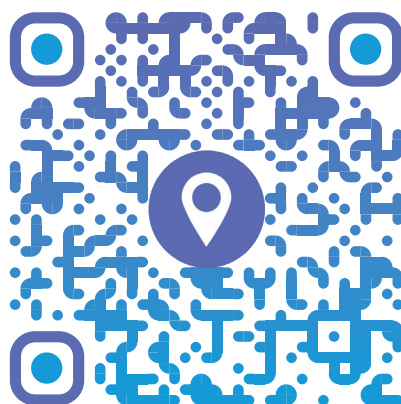


## Book of Abstracts




## Venue Map

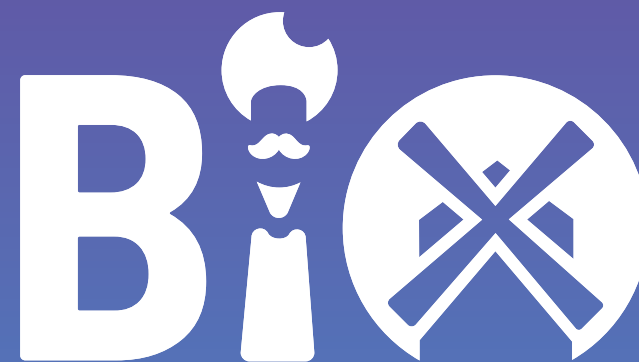


**Don't miss any details!**

 @BioCiudadReal25

 [biociudadreal.es](http://biociudadreal.es)

**BioCiudad Real**  
XIV Reunión Científica de Bioinorgánica 2025



# Ciudad Real

XIV Reunión Científica  
de Bioinorgánica 2025

## PROGRAMME

2<sup>nd</sup> – 4<sup>th</sup> June



# ORGANISERS & SPONSORS



## SCHEDULE

### Monday, 2<sup>nd</sup> June



11:00 - 14:00	<b>Registration</b>	<b>PL:</b> Plenary lecture   <b>INV:</b> Invited lecture   <b>OC:</b> Oral communication
15:45 - 16:30	<b>Opening Ceremony</b>	<b>FP:</b> Flash presentation   <b>AW:</b> Lecture of AEBIN award-winner
16:30 - 17:15	<b>PL-01 Ingo Ott.</b> Organometallics in medicinal chemistry: from anticancer to anti-infective drug candidates.	
17:15 - 17:45	<b>INV-01 Miguel A. Galindo.</b> Heavy metal DNA: a new era of programmable nucleic architectures.	
17:45 - 18:00	<b>OC-01 Albert Gandioso.</b> Lightening the path: Ru(II)-cyanine complexes as NIR photosensitizers agents.	
18:00 - 18:15	<b>OC-02 María Gil-Moles.</b> Gold acyclic diaminocarbene complexes as selective and potent agents for multitarget cancer therapy.	
18:15 - 18:30	<b>OC-03 Elena Domínguez.</b> Heteroscorpionate gallium(III) complexes for breast cancer treatment.	
18:30 - 18:45	<b>OC-04 Jorge Melones-Herrero.</b> Anti-metastatic activity of trans-[Pt(2-isopropylamine)2] in gastrointestinal cancer targeting pluripotency and self-renewal.	
18:45 - 19:15	<b>FP-1 Piedad Herrera-Ramírez.</b> Photoresponsive ruthenium(II) and PLGA-PEG nanoparticle conjugates for light-triggered therapeutic applications.	
	<b>FP-2 Nitin Kumar.</b> Piano-stool ruthenium-riboflavin complexes for catalysis and biology.	
	<b>FP-3 María del Mar Noblejas.</b> Influence of lipophilicity on the antitumor activity of ruthenium complexes for breast cancer treatment.	
	<b>FP-4 Diego Sánchez-Brunete.</b> A peptide-based receptor for polyoxometalates.	
	<b>FP-5 Daniele Belletto.</b> In-silico investigation of the mechanism of action of a Ru(II) polypyridyl complex for PACT.	
19:15 - 20:15	<b>Poster Session</b>	
20:30	<b>Welcome Reception</b>	

### Tuesday, 3<sup>rd</sup> June



09:00 - 09:45	<b>PL-02 Ramon Vilar.</b> Automated combinatorial synthesis and biological evaluation of metal complexes.
09:45 - 10:15	<b>INV-02 Carlos Platas-Iglesias.</b> Acyclic chelators for lanthanide-based radiopharmaceuticals.
10:15 - 10:30	<b>OC-05 Diego Abad-Montero.</b> Ru-couppy complexes as potent photosensitizers for cancer phototherapy.
10:30 - 10:45	<b>OC-06 Alfonso Annunziata.</b> Bioorthogonal iEDDA reaction as a post-labeling strategy for localizing half-sandwich Ir(III) anticancer metallodrugs in cells.
10:45 - 11:00	<b>OC-07 Jorge González.</b> Zinc phthalocyanine and phenanthroline complexes as tools for targeting G-quadruplex DNA and their application as anticancer agents.
11:00 - 12:00	<b>Coffee Break &amp; Poster Session</b>
12:00 - 12:30	<b>INV-03 Anna Massaguer.</b> Targeted delivery of metal complexes for selective cancer photodynamic therapy.
12:30 - 12:45	<b>OC-08 Óscar Palacios.</b> Combining experimental and computational tools to unravel copper-based metallodrug interactions with proteins.
12:45 - 13:00	<b>OC-09 Esteban Zingales.</b> New metabolic modulators based on organometallic Iron intracellular catalysts.
13:00 - 13:30	<b>INV-04 María Tomás Gamasa.</b> New frontiers in bioorthogonal chemistry: synthetic reactions in cellular environments.
13:45 - 15:45	<b>Lunch</b>
15:45 - 16:30	<b>PL-03 Christelle Hureau.</b> Copper in alzheimer disease: a therapeutic target of choice.
16:30 - 16:45	<b>OC-10 José Ruiz.</b> Benzo[g]quinoxaline-based cyclometalated Ru(II) complexes as biocompatible membrane-targeted PDT colon cancer cell agents.
16:45 - 17:00	<b>AW-01 Carlos Gonzalo-Navarro.</b> Ir(III) half-sandwich photosensitizers with a $\pi$ -expansive ligand for efficient anticancer photodynamic therapy.
17:00 - 17:15	<b>AW-02 Antonio Pérez-Romero.</b> Unveiling the solution structure of a DNA duplex with continuous silver-modified Watson-Crick base pairs.
17:15 - 18:30	<b>AEBIN Meeting</b>
19:30 - 21:30	<b>Social Activities</b>
21:30	<b>Gala Dinner</b>

### Wednesday, 4<sup>th</sup> June



09:30 - 10:00	<b>INV-05 María Teresa Moreno.</b> Light-active cyclometalated Pt complexes: optical and biological properties.
10:00 - 10:15	<b>OC-11 Ana C. Carrasco.</b> Photocatalytic activation of platinum(IV) prodrugs by methylene blue under red light.
10:15 - 10:30	<b>OC-12 Jean-Didier Maréchal.</b> Novel computational strategies to model protein metalation processes.
10:30 - 11:00	<b>FP-6 Marta Martínez-Alonso.</b> Novel Ru(II) photosensitizers as anticancer agents for photodynamic therapy.
	<b>FP-7 María Jesús Morán-Plata.</b> Alloxazine-based metallodrugs: versatile catalysts and G4-binders in medicinal inorganic chemistry.
	<b>FP-8 Alondra Jiménez-Pérez.</b> Beyond bone: innovations in modified apatite for regenerative medicine.
	<b>FP-9 Eva Morales-Pioz.</b> Cyclometallated iridium(III) complexes: ligand driven selectivity for chemotherapy and photodynamic therapy.
	<b>FP-10 Charlene Harriswangler.</b> Effects of pendant arm substitution on the complexation of (radio)lanthanides with PYTA derivatives.
11:00 - 11:30	<b>Coffee Break</b>
11:30 - 12:15	<b>PL-04 Petra Heffeter.</b> Development of new strategies to overcome the therapeutic limitations of inorganic anticancer drugs.
12:15 - 13:00	<b>Closing Ceremony &amp; Prices</b>