

Scientific committee:

Manuel Andrés Rodrigo, Dean of Faculty
 María Antonia Herrero Chamorro, Vice-dean of Faculty students,
 Sergio Gómez Alonso, Vide-dean of Faculty Transfer and Visibility
 Ana Raquel de la Osa Puebla, Chemical Engineering
 M^a Elena Alañón Pardo, Food Sciences and Technology
 Gema Dura Gracia, Inorganic Chemistry
 Antonio M. Rodríguez García, Organic Chemistry

Organization committee:

Ines Maria Ramos Monge, Food Sciences and Technology
 Manuel Bartolomé Díaz, Analytical Chemistry
 María Inmaculada Aranda Díaz-Lucas, Physical Chemistry
 Josué Muñoz Galindo, Organic Chemistry
 Pablo Belmonte López, Chemical Engineering
 María Crespo Gutiérrez, Biochemistry

Photographer: Diego González Madrid

Wednesday 22nd of June 2022

SALA ALFREDO PÉREZ RUBALCABA (BIBLIOTECA CR)

9:30- Opening ceremony chaired by the Rector Magnificus of the UCLM, Dr. Ricardo Cuevas (General Director of Universities, Research and Innovation of the Regional Government of Castilla-La Mancha) and the Dean of the Faculty of Chemical Sciences and Technologies. ([Link to session](#))

10:00- Invited Lecturer: **Prof. Javier García-Martínez** (University of Alicante). International Union of Pure and Applied Chemistry (IUPAC) President.

11:00- Invited Lecturer: **Dr. Ricardo Cuevas Campos** (General Director of Universities, Research and Innovation of the Regional Government of Castilla-La Mancha).

11:30- Coffee Break.

12:00- Rebranding of building "Margarita Salas".

12:30- Invited Lecturer: **Dr. María A. Blasco** (Director of the Spanish National Cancer Research Centre (CNIO) and Head of the Telomeres and Telomerase Group - CNIO).

16:00- 1st session ([Link to session](#))

- "A new methodology for the quantification of graphene oxide in water sample". **Elena Briñas**. Organic Chemistry.
- "PI3Ka inhibition using nanoparticles conjugated with the anti EGFR antibody Cetuximab for the treatment of Head and Neck Squamous Cell Carcinoma". **Almudena del Campo**. Inorganic Chemistry.
- "Persulfates electrogeneration using BDD anodes and 3D-printed reactors". **María del Pilar Castro**. Chemical Engineering.
- "Enhanced antitumoral activity when combining PARP inhibitors with encapsulated BET inhibitors for the treatment of BRCA-mutated cancers". **María de Gracia Arenas**. Inorganic Chemistry.
- "Improvement of the texture of non-fat yogurt with autochthonous exopolysaccharides-producing lab strains". **Inés María Ramos**. Food Sciences and Technology.

17:15- 2nd session ([Link to session](#))

- "Novel and sensitive electrochemical approach based on an assembly nanocomposite with chitosan and γ -cyclodextrin-graphene quantum dots modified spcs for the full sensing of fluoroquinolones in alimentary samples". **Manuel Bartolomé**. Analytical Chemistry.
- "Role of PPAR β/δ in the hypothalamic action of leptin. Implication on the inflammatory response and the control of food intake and energy expenditure". **Carmen Soriano**. Biochemistry.
- "Strategies for robust designs in toxicological tests". **Sergio Pozuelo**. Mathematics.
- "Atmospheric chemistry of hydrochlorofluoroolefins (HCFO): why is it important?". **María Areti**. Physical Chemistry.
- "Study of Process variables on the microcellular foaming of different TPUs using supercritical CO₂". **Pablo Belmonte**. Chemical Engineering.

Thursday 23rd of June 2022

SALA ALFREDO PÉREZ RUBALCABA (BIBLIOTECA CR)

9:00- 3rd session ([Link to session](#))

- "Bilayer hydrogel in drug delivery". **Carlos Martín**. Organic Chemistry.
- "Behaviour of oenological microorganism after microwave treatments". **Raquel Muñoz**. Food Sciences and Technology.
- "Novel carbon-based catalysts for hydrogen production from ammonia decomposition reaction". **Marina Pinzón**. Chemical Engineering.
- "Sulfonate-based hydrogels: new soft scaffolds for biomedical applications". **Josué Muñoz**. Organic Chemistry.
- "Calcium complexes as catalysts for activation of small molecules". **Enrique Francés**. Inorganic Chemistry.
- "Fluorescent discrimination between free and nanoencapsulated quercetin by a quenching responsive nanotool based on S,N-graphene quantum dots". **Natalia Villamayor**. Analytical Chemistry.

10:30- Invited Lecturer: **Dr. Jordi Mayneris Perxachs** (Girona Biomedical Research Institute (IDIBGI), Spain). "Feeling Gut? Microbiota, Memory, and Emotions".

11:30- Coffee Break.

12:00- 4th session ([Link to session](#))

- "Effect of glutamate intake during gestation on the cerebellum of pregnant rats and their fetuses: an overview of the state of receptors and oxidative stress". **Adrián Tejero**. Biochemistry.
- "Rational design of D-A-D naphthalendiimide and perylenediimide with potential application as N-type semiconductors in organic field-effect transistors". **Abelardo Sánchez**. Organic Chemistry.
- "BTX enhancement production through catalytic co-fast pyrolysis of agricultural waste". **Ángel Alcázar**. Chemical Engineering.
- "Mango by-products: from waste to functional ingredients". **Rodrigo Oliver**. Food Sciences and Technology.
- "Gas-phase reactivity at ultra-low temperatures for the study of interstellar chemistry". **Daniel González**. Physical Chemistry.
- "One-component iron complexes for the synthesis of industrial products". **María del Prado Caballero**. Inorganic Chemistry.

16:00- Invited Lecturer: **Dr. Daniel Peters** (Newcastle Univ., UK). "A journey through the valley of death: commercialization of academic research from the perspective of a post-doc". ([Link to session](#))

17:00- 5th session ([Link to session](#))

- "Production of a heterologous ferulic acid decarboxylase enzyme from Klebsiella Pneumoniae TD 4.7 and application of the enzyme in the production of 4-vinylguaiacol". **Maite Bernardo Correia**. Food Sciences and Technology.
- "Comparison of the effect of ozone and chlorine dioxide dosing on hospital urine polluted with pharmaceuticals". **Ángela Moratalla**. Chemical Engineering.
- "Signal transduction pathways in a tumoral cell line: what about cholesterol metabolism?". **Clara Fructuoso**. Biochemistry.
- "Potential of sunlight in the treatment of diseases: photodynamic therapy at ultra-low doses to treat cancer". **Carlos Gonzalo**. Inorganic Chemistry.
- "New materials for soft robots". **Francisco Javier Patiño**. Organic Chemistry.

Friday 24th of June 2022

SALA ALFREDO PÉREZ RUBALCABA (BIBLIOTECA CR)

9:00- 6th session ([Link to session](#))

- "A novel NiFe/NiFeO catalytic bilayer structure prepared by magnetron sputtering for hydrogen energy saving production via urea assisted water electrolysis". **Celia Gómez**. Chemical Engineering.
- "Proteomic evaluation of intestinal function after dietary supplementation with grape seed polyphenols". **Eduardo Guisantes**. Food Sciences and Technology.
- "Anthropomorphic hydrogel-based phantoms for microwave imaging medical applications". **Daniel Álvarez**. Organic Chemistry.
- "Kinetic study of the Cl atom reaction of biogenic aldehydes in the atmosphere". **María Asensio**. Physical Chemistry.

10:00- 7th session ([Link to session](#))

- "Organolithium Chemistry under Sustainable Conditions: Synthesis of Amidines and Guanidines". **Blanca Parra**. Inorganic Chemistry.
- "Bioleaching of real mine tailings using autochthonous microorganisms: effects of ultrasounds pretreatment". **Irene Acosta**. Chemical Engineering.
- "Chitosan hydrogels: tissue engineering applications and magnetic properties". **Irene San Millán**. Organic Chemistry.
- "Anisotropy Engineering with Highly Corrugated Magnetic Thin Films". **Rafael Delgado**. Physics.

11:00- Break

11:30- Presentation of the Territorial Section of the Royal Spanish Society of Chemistry (STCLM-RSEQ)

11:45- Raquel Reina. **Incarlopsa**.

12:00- Miguel Martínez, **AGROVIN**.

12:15- Invited Lecturer: **Ana Belén Cifuentes**. Assistant Director for Safety, Environment and Quality at REPSOL. "Liderazgo inspirador: palanca clave para la innovación"

13:15- Prize winners and Closing Ceremony chaired by the Dean of the Faculty of Chemical Sciences and Technologies and Prizes sponsors".



UCLM grants

1 Free Elective Credit

PRIZES:

- ✓ VII Prize of Young Science Faculty of Sciences and Technology
- ✓ 2nd Virtual-Flash Prize: TFG/TFM/PhD Categories
- ✓ 2nd SOCIAL MEDIA Prize