

Friday, 14th March



Morning: workshops for students

- W1 - Introduction to R for Biology and Biotechnology data analysis
- W2 - Bioactive agents screening through bioassays: Exploring eco-sustainable alternatives to chemical pesticides
- W3 - Introduction to real-time qPCR
- W4 - Guided visit to the animal facility of the University of León

15:00h - 15:30h: Welcome by the Vice-Dean of Faculty, D. Michal Letek

15:30h - 16:15h: Conference Dra. Elba Mauriz García (University of León) - Genosensors: Advanced technologies for precision medicine

16:15h - 17:00h: Oral Communications

16:15h - 16:30h: D. Sergio Fernández Martínez - Staphylococcus aureus in cancer: Development of combined therapies for chronic intracellular infections

16:30h - 16:45h: Dña. Celia de la Puente-Ramos - Enhancing dark fermentation for biohydrogen and volatile fatty acids production through electrofermentation

16:45h - 17:00h: Dña. Tamara Joglar del Dago - Accelerating startup and efficiency in microbial electrolysis systems through advanced polymeric coatings

17:00h - 17:30h: Coffee break and Poster session

17:30h - 18:30h: Round Table: Opportunities in the Biotech Companies

- Prof. Raúl Mateos González (moderator)
- D. Mario Arcos Rodríguez (Wacker León SL)
- D. Luis E. Fontanetti Alves da Silva (mAbxience)
- Dña. Patricia De La Madrid Salmerón (53Biologics)
- Dra. Marta Rodríguez Saiz (Curia)

Saturday, 15th March



9:30h - 10:15h: Conference Dra. Carla Calvo Peña (University of León) - Exploring life inside olive roots: rhizosphere and endophytic *Streptomyces*

10:15h: Oral Communications

10:15h - 10:30h: Dña. Tania Martínez-García - Selection of traditional varieties of cucumber (*Cucumis sativus* L.) for drought tolerance

10:30h - 10:45h: D. Daniel Fernández-García - Impact on cell wall composition of *Arabidopsis thaliana* pectin methylesterase inhibitor mutants susceptible to *Pseudomonas syringae*.

10:45h - 11:00h: Dña. Paula Gómez-de-Agüero-Campelo - Mutants in RGP genes show mucilage release defects in *Arabidopsis thaliana* seeds

11:00h - 11:30h: Coffee break and Poster session

11:30h - 12:30h: Communications Flash talks

- García-Iglesias, E. Search for salt stress resistance genes in lentil (*Lens culinaris* M.).
- Nieto-Peña, E. Cut-dip-budding: simplifying plant genetic transformation without tissue culture.
- Carrancio-Jato, P. Cell wall modifications in B73 maize seedlings in response to *Fusarium graminearum* infection.
- López-López, L. Deepening the role of trichomes and lignin deposition as mechanisms of resistance of tomato plants to the parasitic plant *Cuscuta campestris*.
- Mínguez-Hernández, A. Development and optimization of protocols for *Ascochyta* infection in lentils and analysis of the expression of candidate genes.
- Galán Rodríguez, O. Novel bio-based strategies for sustainable phytopathogen control
- Llano-Verdeja, J. Penicillin-binding proteins in the control of phytopathogenic diseases
- Aguado-Rodríguez, I. and Collado Redondo, I. Anthropogenic activity affects the prevalence of antibiotic resistant bacteria in the soil. A study on antibiotic resistance and production
- Cid-González, A. Pathogens of the porcine respiratory disease complex in Spain: The role of molecular biology in their characterization.
- González-Montero, M. C. Development of sheep and mouse liver organoids: Applications in drug screening and disease modelling
- Fraile-Roncero, N. History and evolution of Bioethics in animal experimentation

12:30h - 13:30h: Elevator pitch "Companies"

- D. Antonio Llanos Canseco - Legumbres Penelas SL
- Dña. Pilar de la Torre Flórez and D. Adrián Fernández-Trapote - Clinical Studies
- Coordinators in the Hospital of León.
- D. Máximo Petrocchi-Rilo - SYVA
- D. Roberto Fernández González - BIOGES Starters
- D. Antonio Fernández Medarde - Biomar

13:30h: Awards Ceremony and Closing Session