

## PROGRAMA DE DOCTORADO EN INGENIERÍA QUÍMICA Y AMBIENTAL

### 10ª JORNADA DE DOCTORANDOS

**DÍA 1 DICIEMBRE 2022**

**HORA 10:30 A 13:00**

**LUGAR: SALA DE GRADOS 2308 – SEDE MERGELINA - ESCUELA DE INGENIERÍAS INDUSTRIALES**

#### 1. APERTURA DE LA JORNADA

#### 2. PRESENTACIÓN DEL PLAN DE INVESTIGACIÓN DE LOS DOCTORANDOS DE NUEVA MATRÍCULA 2022/2023

1	Filipigh, Ángel Alejandro	Protein recovery from biomass grown in wastewater treatment plants
2	Herrero Lobo, Raquel	Optimization of biogas to ectoine bioconversion in a Taylor flow bioreactor
3	García Casado, Silvia	Bioconversion of synthesis gas to sustainable chemical products
4	Afecto Gonçalves, Manuel João	The use of mixed-culture Anaerobic Fermentation to transform wastes into value-added products.
5	Araujo Barahona, German	New technology for hydrogenation processes in alimentary industry
6	Huang Lin, Elisa	Transformation of CO <sub>2</sub> emissions into high market value compounds
7	Kurnikova, Nataliia	Modelling and experimental characterization of the production of odoriferous sulfur compounds in water treatment plants

#### 3. PRESENTACIÓN DE LOS AVANCES DE LAS TESIS DE LOS DOCTORANDOS MATRICULADOS EL CURSO 2021/2022

1	Abate, Teresa	Production of bioplastics from renewable raw materials
2	Amabile, Claudia	Biochemical synthesis of biopolymers from renewable gaseous substrates and volatile
3	de Souza Ribeiro, Mauricio	Cascade fractionation of crustacean shell waste avoiding chitin degradation and its
4	Hoyos Durán, Edwin	Semi-industrial scale production of microalgae and single cell protein
5	Marcos Montero, Enrique	Enhanced biological removal of tars from synthesis gas
6	Marcos Rodrigo, Eva	New biological platforms for the synthesis of valuable chemicals from syngas
7	Montaluisa Mantilla, María Sol	Botanical filters for the abatement of indoor air pollutants
8	Nuño Sánchez, Lidia	Sewage Sludge Solar Drying characterization and its influence on the gasification process.
9	Redondo Hernangómez, Aránzazu	Super-Foaming of polymers by combination of sub and supercritical carbon dioxide and water.

#### 4. SESIÓN DE POSTERS

1	Casas González, Andrea	Formulation of natural active compounds with antifungal applications
2	Borjabad García, Elena	Influence of oil content on combustion of olive stone
3	García Álvaro, Alfonso	Anaerobic digester subject to drastic substrate changes: Adaptation and performance
4	Martín González, Diego	Determination of the antimicrobial and keratinolytic activity of six Bacillus strains isolated from honey and royal jelly
5	Martínez Mendoza, Leonardo	Valorization of fruit-vegetable waste through continuous fermentative hydrogen production
6	Matute Feria, Kevin	Enhancement of the Conversion of Organic Waste into Biogas through Co-Digestion and Thermal Treatment
7	Regueira Marcos, Lois	Impact of hydraulic retention time and feast-faming stress on continuous biohydrogen production from food waste via lactate-driven dark fermentation
8	Carreño López, Felipe Antonio	A convenient method to validate the gas flow of a CFD-CT simulation applied on a packed bed used in gas biofiltration through residence time distributions
9	González Martín, Javier	Improving indoor air purification: enhancement of bioactive coatings porosity
10	Poma Copa, María Paulina	Estimation of Biogas Generated in Two Landfills in South-Central Ecuador
11	Rivera Mejía, Fanny	Influence of pH on the performance of anaerobic piggery wastewater treatment coupled with membrane-based NH <sub>3</sub> extraction
12	Rojo de Benito, María Elena	Effect of veterinary antibiotics and heavy metals in the composition and valorization of a consortium of microalgae and bacteria
13	Ruiz Palomar, César	Simulation of outdoor conditions for the cultivation of microalgae in a small scale photobioreactor.
14	Salamanca Verdugo, Mónica	Evaluation of a tubular membrane for municipal wastewater concentration: A comparison
15	Severi, Cristian	Biogas Upgrading: Urbiofin Project
16	Collao Torres, Javiera	Performance and response of the microalgae-bacteria biomass exposed to contaminants during the treatment of swine wastewater
17	San Martín Davison, Jessica	Study of the Evolution of a Microbial Consortium in the Biofiltration of Naphthalene Vapors
18	Zambrano Flores Johanna	Kinetics of the removal mechanisms of veterinary antibiotics in synthetic wastewater using microalgae-bacteria consortia
19	Pérez Martínez Víctor	DEEP PURPLE EUROPEAN PROJECT: Biogas bioconversion into ectoine at laboratory, demonstrative and industrial scale
20	Kraakman, N.J.R.	Studying Bioavailability Limitations in Processes that Involves Gaseous Phases
21	Gonzalo Ibrahim, Félix	Raceway - Pilot plant and laboratory recreation of high rate algae ponds systems for urban wastewater treatment

#### 5. CLAUSURA DE LA JORNADA