SEM Council Members

Name:

Alicia Prieto

Council role:

Secretary

Employer or Institute:

Centro de Investigaciones Biológicas Margarita Salas, Consejo Superior de Investigaciones Científicas (CIB-CSIC), Madrid, Spain

Title:

Staff Scientist

Main areas of study/work:

Hydrolytic enzymes from fungi. Enzymes immobilization. Biofuels and bioproducts from biomass. Polysaccharides. Synthesis and degradation of polylactic acid.

Three main or most recent publications

Pozo-Rodríguez A, Méndez-Líter JA, de Eugenio LI, Nieto-Domínguez M, Calviño E, Cañada FJ, Santana AG, Díez J, Asensio JL, Barriuso J, Prieto A, Martínez MJ. 2022. A fungal versatile GH10 endoxylanase and Its glycosynthase variant: synthesis of xylooligosaccharides and glycosides of bioactive phenolic Compounds. *International Journal of Molecular Sciences* 23(3):1383. https://doi.org/10.3390/ijms23031383.

Molina-Gutiérrez M, Alcaraz L, López FA, Rodríguez-Sánchez L, Martínez MJ, Prieto A. 2021. Immobilized forms of the *Ophiostoma piceae* lipase for green synthesis of biodiesel. Comparison with Eversa Transform 2.0 and Cal AJ*. Journal of Fungi 7(10):*822. https://doi.org/10.3390/jof7100822.

Nieto-Domínguez M, Fernández de Toro B, de Eugenio LI, Santana AG, Bejarano-Muñoz L, Armstrong Z, Méndez-Líter JA, Asensio, JL, Pieto A, Withers SG, Cañada, FJ, Martínez MJ. 2020*.* Thioglycoligase derived from fungal GH3 β-xylosidase is a multi-glycoligase with broad acceptor tolerance. *Nature Communications* 11:4864. https://doi.org/10.1038/s41467-020-18667-3.

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Keywords:

Biotechnology. Fungi. Lipases. Cellulases and hemicellulases. Immobilization. Biomass valorization. Biofuels. Bioplastics.