

SEMINARIO TÉCNICO

ADVANCED METHODS FOR EXTRACTION, PURIFICATION AND CONCENTRATION OF BIOMOLECULES

Fecha:	20 de Mayo de 2019
Localización:	ETSE, Aula de Proyectos (Santiago de Compostela)
Objetivo:	<p>Biomolecules such as protein, enzyme or antibodies can be extracted from any biological material or produced by fermentation or biochemical processes for subsequent downstream processes for its recovery and purification. The upstream processing of biomolecules has gone through several improvements in recent years, by using alternative expression systems or by optimizing the medium formulations and feeding strategies. However, the downstream processing (purification processes) of biomolecules is considered the bottleneck in the manufacturing of biomolecules since it is complicated, time-consuming, labour-intensive, representing up to 80% of their total production costs. In the past years, several alternatives have been explored to improve the downstream processing. Our group has successfully investigated the use of ionic liquids in the formulation of Aqueous Biphasic Systems as liquid extraction media, resulting in the development of efficient platforms for the purification of biomolecules.</p>
Ponente	Dra. Ana P.M. Tavares (CICECO-Aveiro Institute of Materials, Portugal)

Programa

- 10:00 – 10:10 h Presentación
- 10:10 – 11:00 h “ Advanced Methods for Extraction, Purification and Concentration of Biomolecules”

Inscripción

Actividad abierta. Para asistir únicamente es necesario registrarse en este [formulario](https://forms.gle/YVUzLKzjgc4iVyh57) (<https://forms.gle/YVUzLKzjgc4iVyh57>). **Se entregarán certificados de asistencia.**

Organizan

- El Programa de Doctorado de Ingeniería Química y Ambiental de la USC.
- Agrupación estratégica CRETUS (ED431E 2018/01) www.usc.es/cretus
- Rede Galega de líquidos Iónicos (Regalis) http://regalis.udc.es/static_pages/1

Ana P.M. Tavares graduated in Chemical Engineering at Estadual University of Rio de Janeiro in 1998 and completed two-year MSc degree in Technology of Chemical and Biochemical Processes at the Federal University of Rio de Janeiro in 2000. A. Tavares completed her PhD in Chemical Engineering in 2006 at University of Aveiro, Portugal. Actually, A. Tavares is Auxiliary Researcher at CICECO-Aveiro Institute of Materials. Her research scientific interests include proteins, antibodies, enzymes, ionic liquids, biomolecules purification, aqueous biphasic systems, fermentation processes, enzyme production, enzyme immobilization, nanomaterials, biocatalysis for organic synthesis and enzymatic reactions.