

Clinical and Translational Science

Seminar Series “Advancing the Manufacture of Human Pluripotent Stem Cell-based products for Regenerative Medicine” Online seminar.

Speaker: Margarida Serra, BS Biomedical Engineering, PhD

iBET - Instituto de Biologia Experimental e Tecnológica. Oeiras, Portugal.

29 de noviembre 2021, 15:30 horas Reunión de Microsoft Teams

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Margarida Serra was graduated in Biological Engineering at the Instituto Superior Técnico da Universidade Técnica de Lisboa, and holds a PhD in Engineering and Technology Sciences, Biomedical Engineering from Instituto de Tecnologia Química Biológica, Universidade Nova de Lisboa (ITQB-NOVA).

Since 2004, her focus is on the design of bioprocesses to produce human stem cells and derivatives for clinical application. The work developed was innovative as for the first time a bioprocess to expand human embryonic stem cells in scalable and fully controlled bioreactors preventing spontaneous differentiation was developed.

Current Research, with funding from Fundação para a Ciência e Tecnologia, EU Framework programs and the Pharmaceutical industry, is driven by the vision to bridge engineering and stem cell biology, with the goal of accelerating next generation cell-based therapies from bench to bedside. The key research line has been focused on streamlining robust manufacturing of cell therapy products with improved functionality, to support phase I/II clinical trials. In the last 5 years, her research has focused on the development of novel and biology-inspired cell culturing strategies that recreate environmental conditions excelling growth and differentiation/maturation of human pluripotent and adult stem cells, through metabolic and process understanding. Aiming at accelerating the translation of cell therapy products into the clinic, she has been applying robust multi-parametric techniques including omics technologies as complementary analytical tools to support bioprocess optimization and cells' potency assessment.

Moderator: Dr. Pedro Baptista, Instituto de Investigación Sanitaria de Aragón (IIS Aragón), Zaragoza. CIBERehd, Zaragoza.

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Note: Free seminar. Certificates of attendance are available to those who register in advance by sending an email to Eva Muñoz: Evangalina.Munoz@externos.ciemat.es.