

Personal Information

Name: Francisca Maria de Andrade Terras Arez

Birth place and date: Lisbon, 14.08.1991

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1. Professional Activity

- February 2017- present PhD student performing a PhD thesis on the development of a novel cell-based platform for drug screening targeting Plasmodium hepatic infection, Advanced Cell Models Lab at iBET/ITQB-NOVA and MPrudêncio lab at IMM-Lisboa
- February 2016 - February 2017 Research fellowship in the development of 3D hepatic models for the study of infectious diseases, Advanced Cell Models Lab at iBET/ITQB NOVA and MPrudêncio lab at IMM-Lisboa
- November 2015 - February 2016 Research fellowship in the development of preclinical 3D neural models, Advanced Cell Models Lab at iBET/ITQB NOVA
- August 2014 - November 2015 Master thesis in the development of 3D neural models derived from iPSC-NSC, Advanced Cell Models Lab at iBET/ITQB NOVA
- September 2012 - August 2013 Voluntary internship in Toxicity studies of Hepatic cell cultures, Centre of Chemistry and Biochemistry, Faculdade de Ciências da Universidade de Lisboa

2. Technical skills

Animal cell culture of neural and hepatic cell lines (hiPSC-NSC, HepG2, HepaRG, HC-04) and primary hepatocytes both in adherent cell culture (2D) and agitated systems, namely in spinner vessel and bioreactors (3D). Technical skills on neural differentiation, bioreactor operation and cell biology characterization techniques such as RT-qPCR, immunofluorescence microscopy, western-blot and flow cytometry. *In vitro P. berghei* infection, its quantification by luminescence assays and drug screening assays.

3. Organizational skills

Member of the participation the 9th International Meeting of the Portuguese Society for Stem Cells and Cell Therapies, 15-16 October, Oeiras, Portugal.

4. Publications

Book Chapter

- Simão D, Arez F, Terrasso AP, Pinto C, Sousa MFQ, Brito C, Marques PM; "Perfusion Stirred-tank Bioreactors for 3D differentiation of Human"; Bioreactors for Stem Cells Biology: Methods and Protocols - Methods Mol Biol., Springer Science.

5. Poster Communications

- Simão, D., Terrasso, A.P., Arez, F., Pinto, C., Bastos, A.E.P., Sousa, M., Sousa, M.F., Lima, P.A., Pedroso, P., Filipe, A., Alves, P.M., Brito, C.; “Robust three-dimensional culture strategy for neural differentiation of human stem cells”. 9th International Meeting of the Portuguese Society for Stem Cells and Cell Therapies, 15-16 October, Oeiras, Portugal.
- Simão D., Terrasso A.P., Arez F., Silva M.M., Sousa M.F., Gomes-Alves P. Alves P.M., Brito C.;" Dynamic remodelling of neural cellular and extracellular signatures depicted in 3D in vitro differentiation of human iPSC-derived NSC"; International Symposia on Stem Cell Models of Neural Regeneration and Disease 2016, 1-3 February, Dresden, Germany.
- Simão, D., Arez, F., Terrasso, A.P., Silva, M.M., Sousa, M.F., Gomes-Alves, P., Alves, P.M., Brito, C.; “Dynamic remodelling of neural cellular and extracellular signatures depicted in 3D ‘in vitro’ differentiation of human iPSC-derived NSC” 3D Cell Culture 2016 - How close to 'in vivo' can we get? Models, applications & translation, 19-21 April, Freiburg, Germany.
- Simão, D., Terrasso, A.P., Arez, F., Teixeira, A.P., Brito, C., Sonnewald, U., Alves, P.M.; “Functional human neuron-astrocyte 3D networks for neurotoxic studies”. 3D Cell Culture 2016 - How close to 'in vivo' can we get? Models, applications & translation, 19-21 April, Freiburg, Germany.
- Simão, D., Terrasso, A.P., Arez, F., Pinto, C., Bastos, A.E.P., Sousa, M., Sousa, M.F., Lima, P.A., Sonnewald, U., Teixeira, A.P., Alves, P.M., Brito, C.; “Robust three-dimensional culture strategy for neural differentiation of human stem cells”. Cell Culture Engineering XV, 8-13 May; La Quinta, California, USA.