UNIVERSITY OF EXETER | LIVING SYSTEMS INSTITUTE

"If you dream... of future discoveries and inventions, let me tell you that the fertile field of discovery lies for the most part on those borderlands where one science meets another..."

Sir D'Arcy Wentworth Thompson, 1903

Computational biologist/bioinformatician

We study the regulatory principles of pluripotency in stem cells and embryos. Recently, we discovered that human naïve pluripotent stem cells can differentiate to both embryonic and extra-embryonic cell types and can form structures similar to the natural embryo. We are recruiting talented post-doctoral researchers to advance these exciting new findings.

https://www.exeter.ac.uk/livingsystems

Blastoid   Natural embryo

50 μm

https://doi.org/10.1016/j.stem.2021.04.031
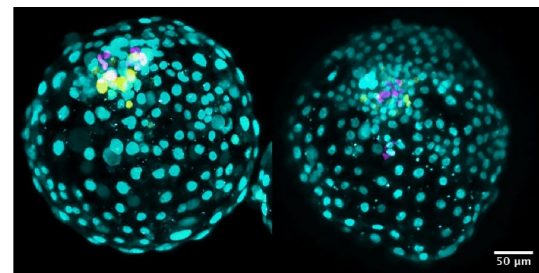
Computational biologist/bioinformatician: Working with the team of Prof Austin Smitt, you will lead a programme of comparative 'omics analyses to uncover the regulatory networks of pluripotency in stem cells and embryos of human and other mammals. You will develop and implement algorithms, analysis methods and visualisation tools for dissecting and integrating 'omics datasets, with a particular focus on single cell data and developmental trajectories. You will also have the freedom to explore new research directions in the realm of computational biology and bioinformatics applied to pluripotency and early mammalian development.

About you: PhD or equivalent qualification/experience in bioinformatics or computational biology. You will have research expertise in high-throughput data analysis with competence in a UNIX/Linux environment and programming/scripting language. You will also have experience in next generation sequence analysis, including transcriptomics and single cell analyses. Applicants should have a general understanding of molecular cell biology and of next generation sequencing methodologies and have worked in productive partnerships with experimental researchers. An interest in biological processes and mechanisms is essential, but specific prior knowledge of stem cell or developmental biology is not required.

Application details are available at: *https://jobs.exeter.ac.uk (Reference S73184)*

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