Percharde Lab

MRC Laboratory of Medical Sciences

We are hiring! Computational postdoc/scientist:

Investigation of transposon dysregulation in human disease

Chromatin and Development Lab – Michelle Percharde
Developmental Epigenomics Lab – Juanma Vaquerizas

Apply here!

We are looking for a talented computational bioinformatician or wet/dry senior scientist to work on a project in epigenetics and transposable element biology within the Chromatin and Development group (headed by Michelle Percharde), co-supervised by Juanma Vaquerizas (Developmental Epigenomics group) at the MRC Laboratory of Medical Sciences (LMS) at Imperial College London.

The Percharde lab previously discovered that the transposon, LINE1, is essential in embryonic stem cells and embryos, highlighting unexpected roles for transposons in development (Percharde et al., Cell 2018), and recently described new mechanisms in development for transposon regulation (Xie et al., Genes Dev 2022). The Vaquerizas lab studies how chromatin, 3D genome organisation, and repetitive elements influence development and disease (Kruse et al., 2019, Chang et al., Genome Res 2022).

Building on these advances, the successful candidate will work to elucidate how epigenetic dysregulation of pathways controlling gene and transposon expression and 3D genome organisation drives human disease. For detailed information about the work of both groups, please visit: https://lms.mrc.ac.uk/research-group/chromatin-and-development/, www.perchardelab.com and https://lms.mrc.ac.uk/research-group/developmental-epigenomics/.

The ideal candidate will have a background in genome regulation, transposable element biology or related fields, and prior extensive experience in computational analysis of high-throughput genetic analysis techniques, such as Hi-C, ATAC-seq, and RNA-seq. The position is available to be filled spring 2024, but the start date can be flexible.