JUNE 10th 2025 | 4:00PM CET VIRTUAL

iPSZÜRICH

A Lecture Series Focused on Induced Pluripotent Stem Cells

UKRI MRC Laboratory of Medical Sciences

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Passage of the epigenetic information through the germ line

Using mouse embryonic development as an experimental model, our long term interest is how epigenetic information is propagated during development and erased in the context of the germ line (zygotic and germline reprogramming). My laboratory has contributed fundamental insights regarding the mechanisms of global DNA demethylation, the connection to chromatin remodelling and the role of Tet enzymes in both zygotic and germline reprogramming events (Amouroux et al, Nat Cell Biol 2016, Hill et al, Nature 2018, Huang et al, Nature 2021).
I will present our findings regarding the erasure of epigenetic information in the mammalian germ line (germline epigenetic reprogramming) and our understanding of the functional links between this process and the progression towards meiosis.