

Genomic architecture, gene regulation and human diseases

Thematic area: Developmental Genomics



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The generation of distinctive cell types that form different tissues and organs requires precise, temporal and spatial control of gene expression. This depends on specific *cis*-regulatory elements distributed in the non-coding DNA surrounding their target genes that became active or inactive at particular developmental stages. On the top of this, the 3D structure of the chromatin plays an essential role in facilitating the access of such *cis*-regulatory elements to particular promoters. In this seminar, I will discuss the importance of the chromatin architecture and the dynamic of *cis*-regulatory elements during development and its implication in human diseases and genome evolution.

