

Life Sciences Seminar

Evolution and function of DNA methylation within chromatin

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Host: Jiri Friml

Cytosine DNA methylation is a mechanism of epigenetic inheritance widespread among eukaryotes, including plants and animals.

DNA methylation has been recruited by evolution for multiple functions, including transposon silencing and gene regulation, which are carried out by influencing nucleosome composition and placement, among other mechanisms.

Proper methylation patterns are essential for mammalian and plant development and are disrupted in cancer.

Despite their importance, DNA methylation systems vary considerably among eukaryotes, revealing a rich and complex evolutionary history that can elucidate mechanistic and functional studies.

I will discuss my laboratorys work to understand DNA methylation evolution, mechanism of inheritance, function, and influence on genome sequence composition and gene structure

Tuesday, February 12, 2019 09:00am - 10:00am IST Austria Campus Mondi Seminar Room 2, Central Building



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.