



Life Sciences Seminar

Evolution and function of DNA methylation within chromatin

Daniel Zilberman

John Innes Centre

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 laboratory's 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

Mondi Seminar Room 2, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.