Seminar/Talk

Structural studies of mammalian RNA polymerase II elongation

Carrie Bernecky
Max Planck Institute for Biophysical Chemistry

Host:

RNA polymerase (Pol) II produces mRNA during transcription of protein-coding genes in all eukaryotic cells. In my talk, I will report on the 3.4 Å-resolution cryo-EM structure of a mammalian Pol II elongation complex (EC). The structure reveals details of EC-nucleic acid interactions, and yields insights into the conformational dynamics of Pol II. Upstream DNA emanates from the active center cleft at an angle of ~105° with respect to downstream DNA. This position of upstream DNA allows for binding of the general transcription elongation factor DSIF (SPT4-SPT5). Our results provide a structural basis for the mechanistic analysis of human transcription elongation.

Tuesday, February 28, 2017 09:45am - 10:45am
Seminar room Big Ground floor / Office Bldg West (I21.EG.101)

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.