

RCB-Colloquium

Tuesday, February 4, 2025 – 14:00 h

H 53



Prof. Carrie Bernecky

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Regulation of mammalian transcription by noncoding RNA

RNA polymerase II (Pol II) is the eukaryotic enzyme responsible for transcription of protein-coding genes and is thus a focal point for the regulation of transcription. The activity of Pol II is tightly regulated throughout the transcription cycle by association with various accessory factors, including single proteins, multi-subunit protein complexes and RNAs. Whereas protein regulators of transcription have been extensively studied, RNA-based mechanisms for regulation have been less well understood. In this talk, I will describe our recent cryo-EM and biochemical studies into the mechanism of transcriptional repression by the human noncoding RNA Alu.

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