

Special Seminar

Dirk Eick

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The multiple functions of the carboxy-terminal domain (CTD) of RNA polymerase II

Hosted by: Aseem Ansari and Peter Lewis

Dirk Eick's group has developed a combined genetic-mass spectrometric method to study the 240 potential phosphorylation sites in mammalian Pol II CTD. The approach provides access to the type and position of modification in each individual heptad-repeat of CTD. They combine this approach with engineered analog-sensitive kinases (e.g. asCdk9) to study heptad-specific phosphorylation of CTD in vivo. Further they study the heptad-specific binding of Mediator, Integrator and other factors to CTD. The project aims at better understanding of the complex relationship between dynamic changes in chromatin modifications and the activity of the transcription machinery.

September 5th, 3:30 PM

Room 1211, HFD Biochemical Sciences Building