MBG FOCUS TALK

hosted by Gregers Rom Andersen Structural Biology

Monday 1 April 2019 at 15:00-16:00

Meeting room 3130-303

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Mechanistic Insights into Eukaryotic mRNA Polyadenylation

Almost all eukaryotic pre-mRNAs must undergo 3 ′ -end processing for their translation into proteins. The cleavage and polyadenylation factor(CPF,~1MDa) is an essential component of the 3 ′ -end machinery that cleaves the nascent mRNA, adds the 3′ poly(A) tails and triggers transcription termination. Using a combination of cryo-EM, native-mass spectrometry and biochemistry, we have determined a new architecture of yeast CPF and have shown that its polymerase sub-complex (~200kDa) acts as a hub, bringing together RNA and accessory factors required for efficient polyadenylation.

Host: Gregers Rom Andersen

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