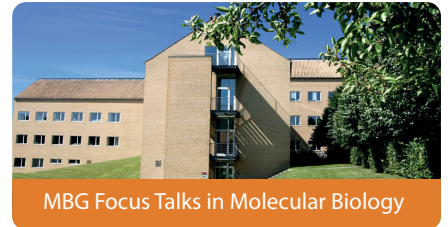


MBG FOCUS TALK

hosted by Gregers Rom Andersen Structural Biology



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

Meeting room 3130-303

Ana Casañal

MRC-LMRC-Laboratory of Molecular Biology

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