

Webinar

SETD2, Pol II, and the hnRNPs: the dream team for co-transcriptional splicing

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Perhaps the most surprising revelation from the Human Genome Project was that we have only around 22,000 genes that encode proteins. This raises the question: How do humans attain protein complexity without a corresponding number of genes? Two fundamental biological phenomena—transcription and RNA splicing—play outsized roles in this context. Transcription creates RNA messages from genes. Before the messages are translated into proteins, they undergo splicing, which can create alternative versions of the messages to give rise to protein diversity. In this seminar, we will see how the direct physical interaction between the transcription and alternative splicing machinery regulates a gene's fate to generate protein isoforms.

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