

公開セミナー / Open Seminar



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タイトル : Precision and Connectivity in Transcription and Translation

日時 : 2017年7月18日 (火) 16:00~17:30

場所 : すずかけ台キャンパス B2棟 4階 大会議室 (426号室)

Our research is focused on elucidation of the means by which regulatory information encoded within the genes is decoded during transcription and translation and to reveal the connections between the two processes. To address these issues we utilize several biological systems. One is NF- κ B, a major pro-inflammatory transcription factor. A subset of inflammatory-response NF- κ B target genes is activated extremely fast following pro-inflammatory signal. I will describe our findings regarding a novel role of the transcription elongation factor Spt5 in linking promoter-escape, chromatin modifications and TFIID recruitment, all of which are necessary for transcription re-initiation and rapid induction of inflammatory-response genes. I will also describe our findings about translation initiation mechanisms that are linked to transcription.

Tamarkin-Ben-Harush et al. *eLife* 6, e21907 (2017); Diamant et al. *Nature Commun* 7, 11547 (2016); Diamant et al. *Mol Cell Biol* 36, 1342-1353 (2016); Tamarkin-Ben-Harush et al. *BMC Genomics* 15, 688 (2014).

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