

CANCER SCIENCE INSTITUTE OF SINGAPORE IN THE SPOTLIGHT

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Inflated Performance Measures in Enhancer-Promoter Interaction-Prediction Methods. (*Nat Genet*, Jul 2019)

Results from an exciting study helmed by Dr. Melissa Fullwood and Dr. Cao Fan unravelled a common deficiency in current enhancer-promoter interaction prediction methods which may result in inflated performance measures. They underscored the need to consider the possibility of generating highly inflated performance measures, shedding light on the importance of careful experimental design when applying machine learning to biology.



IN THIS ISSUE

Inflated Performance Measures in Enhancer-Promoter Interaction-Prediction Methods

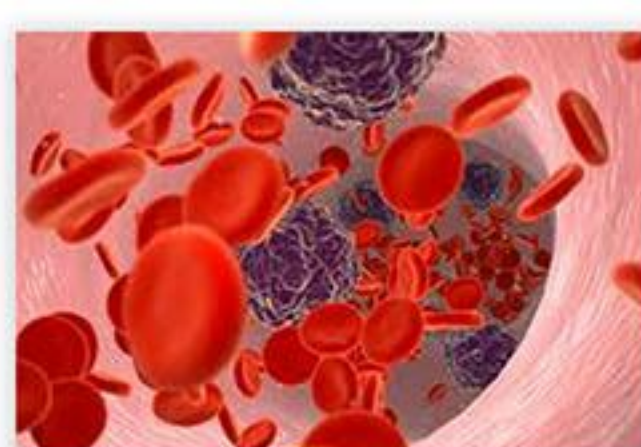
Super-Enhancers: Critical Roles and Therapeutic Targets in Hematologic Malignancies.

SNAI1 Represses SNAI2 Transcription during Epithelial to Mesenchymal Transition

Congratulations to the Class of 2019!

Super-Enhancers: Critical Roles and Therapeutic Targets in Hematologic Malignancies. (*J Hematol Oncol*, Jul 2019)

In this intriguing review, researchers from Prof. Chng Wee Joo's team discussed the functional significance of super-enhancers (SEs) as well as the recent findings of SEs and SE-driven gene regulation in normal hematopoiesis and hematologic malignancies. As they delved into the promising combination therapies with SE inhibitors and highlighted its clinical relevance, they also raised insightful questions regarding functional significance and future directions of targeting SEs in the clinic.



UPCOMING EVENTS

CSI Research Meeting
23 Aug 2019

CSI Seminar
Jan Cools
26 Aug 2019

Distinguished Speakers' Series
Iannis Aifantis
17 - 18 Sep 2019

SNAI1 Recruits HDAC1 to Suppress SNAI2 Transcription during Epithelial to Mesenchymal Transition. (*Sci Rep*, Jun 2019)

A ground-breaking study on the SNAIL family of transcriptional repressors revealed that SNAI1 and SNAI2 expressions were mutually exclusive during epithelial to mesenchymal transition (EMT). Prof. Ruby Huang and team established that SNAI1 represses SNAI2 expression through direct promoter binding involving the recruitment of transcriptional corepressor Histone Deacetylase (HDAC) complex. Their discovery paves the way for future therapeutic modalities through the clinical development of HDAC inhibitors.



GRADUATE PROGRAM

Warmest Congratulations to the Class of 2019!

Congratulations to the graduating class of the CSI Graduate Program! On 23 Jul 2019, the Class of 2019 attended our Graduate Tea Party in celebration of the end of their PhD journey in CSI Singapore.

