

# CANCER SCIENCE INSTITUTE OF SINGAPORE IN THE SPOTLIGHT

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## IN THIS ISSUE

IDH1 as a Targetable Metabolic Node in Gastric Cancer

LNK Suppresses Interferon Signaling in Melanoma

The Regulatory Role of ARIEL in the Oncogenic Transcriptional Program in T-ALL

Long Service Awards 2019

## UPCOMING EVENTS

CSI Seminar  
Joe Yeong  
6 June 2019

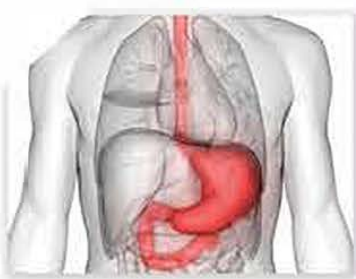
CSI Research Meeting  
7 June 2019

CSI Seminar  
Michael Beer  
12 June 2019

CSI Research Meeting  
21 June 2019

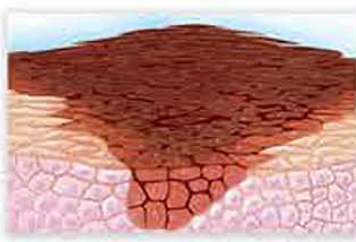
### HNF4α Pathway Mapping Identifies Wild-type IDH1 as a Targetable Metabolic Node in Gastric Cancer. (*Gut*, May 2019)

Previous studies have demonstrated that Hepatocyte Nuclear Factor-4α (HNF4α) is overexpressed in Gastric Cancer (GC) and is responsible for GC development. In this novel study, Prof Patrick Tan and his team identified Isocitrate dehydrogenase 1 (IDH1) as a convergent HNF4α direct target gene that regulates GC metabolism. Results reveal crucial functions of IDH1 in GC cell survival and uncovered the therapeutic merits of IDH1 inhibitors, paving the way for future developments of therapeutic strategies for GC.



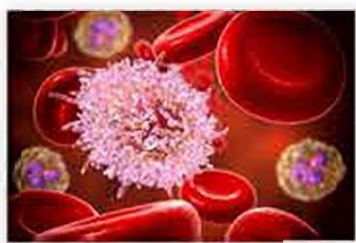
### LNK Suppresses Interferon Signaling in Melanoma. (*Nat Commun*, May 2019)

LNK, a key negative regulator of JAK-STAT signalling has been identified by the team led by Prof H. Phillip Koeffler to be significantly elevated in cutaneous melanoma. Results from the study suggest that the ectopic expression of LNK contributes to enhanced cell survival and tumor growth while suppressing IFN-induced apoptosis, underscoring the crucial role of IFN-STAT1-LNK signalling in melanoma.



### The Enhancer RNA ARIEL Activates the Oncogenic Transcriptional Program in T-cell Acute Lymphoblastic Leukemia. (*Blood*, May 2019)

In this impactful study led by Dr Takaomi Sanda, the group established that enhancer RNA ARIEL activates the expression of ARID5B by recruiting mediator proteins to the ARID5B enhancer, highlighting the regulatory role of ARIEL in the Oncogenic Transcriptional Program. The landmark discovery of ARIEL as an enhancer RNA in T-ALL may provide new clues that can contribute to the development of novel and effective therapeutic modality for T-ALL.



## CONGRATULATIONS TO OUR LONG SERVICE AWARD 2019 RECIPIENTS!



CSI Singapore Congratulates  
Our 2019 Long Service Award Recipients

The Long Service Award celebrates and commemorates the valued contributions and dedicated service of CSI staff. This year, a total of 13 recipients have been conferred the Long Service Award for their 5 and 10 years of service. We would like to extend our heartfelt congratulations to all award recipients for their outstanding contributions to CSI!