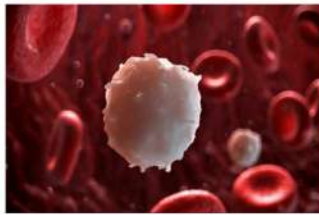


CANCER SCIENCE INSTITUTE OF SINGAPORE IN THE SPOTLIGHT

ISSUE 41 | JUNE 2017

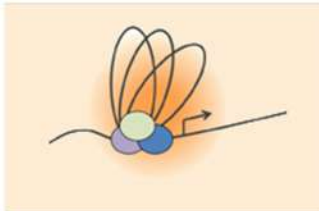
Diagnosis and Relapse: Cytogenetically Normal Acute Myelogenous Leukemia without FLT3-ITD or MLL-PTD. (*Leukemia*, Mar 2017)

In this fascinating study, Prof H. Phillip Koeffler's lab used genetic sequencing technology to reveal that CN-AML without FLT3-ITD or MLL-PTD gene mutations is a highly diversified disease enabled by different drivers, and this suggests that they should not be treated as a single cohort for different categories of risk.



Super-Enhancers and Broad H3K4me3 Domains Form Complex Gene Regulatory Circuits Involving Chromatin Interactions. (*Sci Rep*, May 2017)

Dr Melissa Fullwood and team carried out an epigenetic analysis and identified a subset of super-enhancers that overlap with broad H3K4me3 domains, and show high association with cancer-associated genes. These results show a new layer of complexity in gene regulation by these stretched histone domains.



Exosomes in Cancer Nanomedicine and Immunotherapy: Prospects and Challenges. (*Trends Biotechnol*, July 2017)

Recent studies have explored the role of nanovesicles, specifically exosomes, in providing a controllable, bioinspired system for targeted drug delivery. Exosomes thus could offer oncologists dynamic new therapeutics in the fight against cancer. In this review, Prof Goh Boon Cher's group evaluated the use of exosomes and their current considerable clinical potential, impact and functionalization, and probable ways to overcome clinical challenges.



Congratulations to CSI Research Fellow Dr Toh Tan Boon!

Dr Toh Tan Boon, Research Fellow from Dr Edward Chow's team, received a travel award to attend and present his outstanding research at the EMBO Workshop held from 23 to 26 April 2017 at Palma de Mallorca, Spain. On top of this, he won the 'Best Short Talk' award at the Workshop.



IN THIS ISSUE

Diagnosis and Relapse: CN-AML without FLT3-ITD or MLL-PTD

Super-Enhancers and Broad H3K4me3 Domains in Gene Regulation

Exosomes in Cancer Nanomedicine and Immunotherapy

UPCOMING EVENTS

CSI Research Meeting
7 July 2017

CSI Seminar
Calvin Kuo
18 July 2017

CSI Research Meeting
21 July 2017

FRONTIERS IN CANCER SCIENCE 2017

Our 9th annual conference, jointly organised by major research centres in Singapore, FCS 2017 will be happening from 6 to 8 November 2017. Join distinguished cancer researchers from across the world as they share their knowledge and expertise. Abstract submission now open! Early Bird Registration till 15 August 2017!

