CANCER SCIENCE INSTITUTE OF SINGAPORE

IN THE SPOTLIGHT

Issue 93 I May 2022

NEWS & ACHIEVEMENTS

CSI Singapore Welcomes Onboard Special Fellow, Dr. Sriram Sridharan!

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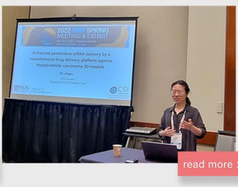
CSI Singapore Congratulates Ms. Xu Jingru, a CSI PhD student on receiving the Materials Research Society (MRS) 2022 NM05 Symposium Best Student Oral Presentation Award!



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FCS REGISTRATION & ABSTRACT SUBMISSION NOW OPEN:

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UPCOMING EVENTS

15 JUNE

CSI Bioinformatics Club Research Seminar – Mr. Matthew Dyer

9.00am - 10.00am
ZOOM

17 JUNE

CSI Research Seminar – Dr. Anthony Khong

8.30am - 9.30am
ZOOM

CSI Research Meeting

1.00pm - 2.00pm
CRC Auditorium

20 JUNE

CSI Research Seminar – Dr. Benjamin Hermann Stauch

8.30am - 9.30am
ZOOM

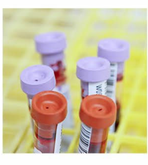
01 JULY

CSI Research Meeting

1.00pm - 2.00pm
LT35

Demethylation and Up-regulation of an Oncogene After Hypomethylating Therapy. (*N Engl J Med*, May 22)

In collaboration with Brigham and Women's Hospital and Harvard Medical School, Prof. Daniel Tenen and his team have established that hypomethylating agents (HMA) activate a "sleeping" cancer-causing gene, SALL4. This ultimately results in disease progression. The findings from this study provide an opportunity to identify affected patients for early intervention.



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IRF4 Drives Clonal Evolution and Lineage Choice in a Zebrafish Model of T-cell Lymphoma (*Nat Commun*, May 22)

Researchers from the Cancer Science Institute of Singapore (CSI Singapore) at the National University of Singapore (NUS) have taken a significant step forward with a novel zebrafish cancer model as a platform to study the mechanism of cancer and elucidate tissue-specific oncogenicity. The research team led by A/Prof. Takaomi Sanda utilized zebrafish, an emerging animal model, in combination with the latest single-cell sequencing technology. This system enables the exploration of otherwise physiologically impossible phenomenon and study the characteristics of an oncogene in depth.

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Chromatin Rewiring by Mismatch Repair Protein MSH2 Alters Cell Adhesion Pathways and Sensitivity to BET Inhibition in Gastric Cancer (*Cancer Res*, May 22)

In collaboration with Prof. Patrick Tan and Dr. Melissa Fulwood, this study revealed that DNA repair protein MSH2 binds and regulates cell adhesion genes by enabling enhancer-promoter interactions, and the loss of MSH2 causes deficient cell adhesion and BET inhibitor synthetic lethality in gastric cancer.

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Hepatocellular Carcinoma Organoid Co-cultures Mimic Angiocrine Crosstalk to Generate Inflammatory Tumor Microenvironment (*Biomaterials*, May 22)

In a collaboration with Dr. Eliza Fong, A/Prof. Edward Chow and A/Prof. Dan Yock Young, a well-defined hydrogel system was leveraged on to establish co-culture models to mimic and characterize the angiocrine crosstalk between HCC and endothelial cells in vitro. This was done to determine if there are alternative perfusion-independent roles of endothelial cells that support tumor progression.

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