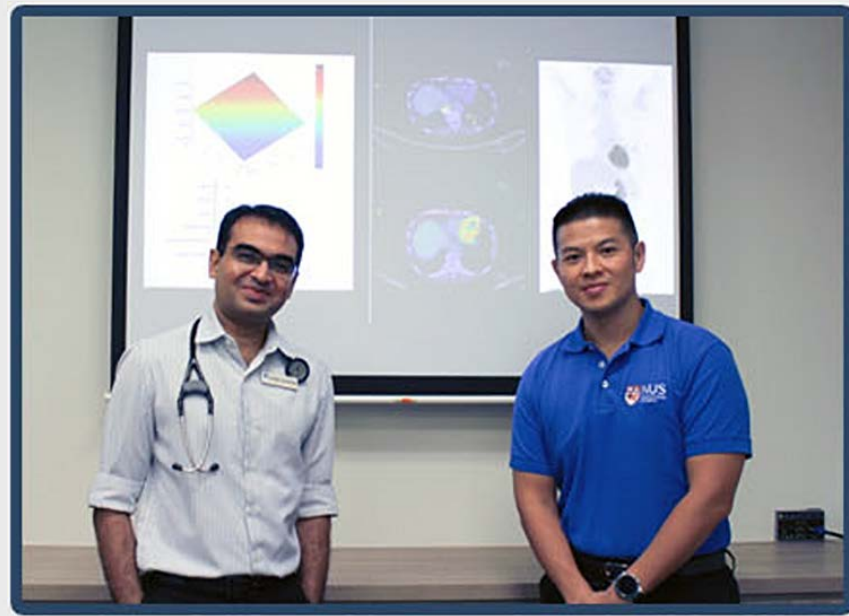


IN THE SPOTLIGHT

Issue 77 | July 2020

NEWS & ACHIEVEMENTS



Novel Digital Medicine Platform Offers New Hope for Lymphoma Patients

Associate Professor Edward Chow and Assistant Professor Anand Jeyasekharan recently harnessed the Quadratic Phenotypic Optimisation Platform (QPOP), an AI-driven digital medicine platform, to revolutionize the treatment for lymphoma. Involved in this study is 71-year-old Madam Tay, a patient with Diffuse Large B-cell Lymphoma (DLBCL). After her relapse in September 2019, Madam Tay underwent QPOP-defined treatment, and her lymphoma is currently in remission and she is doing well. This ground breaking research study sets the stage for a phase 2 clinical trial, which will aid clinicians to better understand the therapeutic merits of QPOP-defined treatment.

[read more >>>](#)



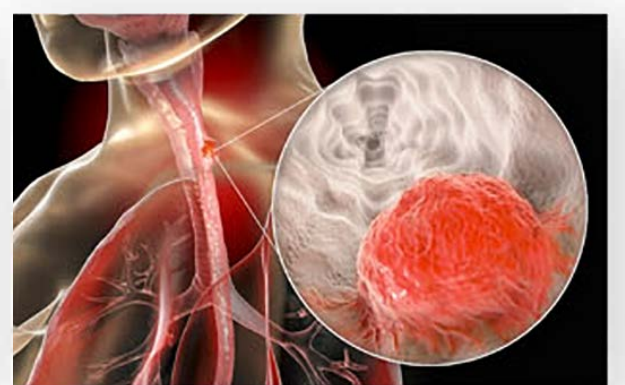
CSI Singapore Clinches Multiple Awards at NCAM 2020 Digital Meeting

Congratulations to our PhD graduate student and staff for receiving several awards at the NCIS Annual Research Meeting (NCAM) 2020 Digital Meeting! Co-organised by National University Cancer Institute (NCIS) and CSI Singapore, the NCAM 2020 Digital Meeting spanned over 4 days, from 22 July - 25 July 2020.

[read more >>>](#)

TP63, SOX2, and KLF5 Establish a Core Regulatory Circuitry That Controls Epigenetic and Transcription Patterns in Esophageal Squamous Cell Carcinoma Cell Lines (*Gastroenterology*, Jun 2020)

In this interesting study on Esophageal Squamous Cell Carcinoma (ESCC), Prof. H. Phillip Koeffler and his team identified pathways that control the production of proteins required for survival of esophageal cancer cells. The team identified transcription factors TP63, SOX2 and KLF5 to be part of a core regulatory network that determine chromatin accessibility, epigenetic modifications, and gene expression patterns in these cells. Findings from this study may help to develop better therapeutic strategies and alter the treatment paradigm for ESCC patients.



[read more >>>](#)

Thrombopoietin Maintains Cell Numbers Of Hematopoietic Stem And Progenitor Cells With Megakaryopoietic Potential. (*Haematologica*, Jul 2020)

While Thrombopoietin (THPO) has long been known to influence megakaryopoiesis and Hematopoietic Stem and Progenitor Cells (HSPCs), the exact mechanisms through which it acts remain unknown. In this novel study, research team led by Prof. Toshio Suda recently established an association between Myeloproliferative Leukaemia (MPL) expression and megakaryopoietic potential of HSPCs. The group further elucidated the significant role of THPO in the maintenance of hematopoietic cells with megakaryocytic (Mk) potential and their subsequent Mk differentiation and maturation.



[read more >>>](#)

RNA Editing Mediates the Functional Switch of COPA in a Novel Mechanism of Hepatocarcinogenesis (*J Hepatol*, Jul 2020)

Impactful research by Dr. Polly Chen and her team has yielded new clues about a recently discovered protein-recoding editing target COPA (coatamer subunit α) in Hepatocellular Carcinoma (HCC). The study uncovers an RNA editing-associated mechanism of hepatocarcinogenesis by which downregulation of ADAR2 caused the loss of tumour suppressive COPA^{164V} (edited COPA) and concurrent accumulation of tumour-promoting COPA^{WT} (wild type COPA) in tumours. Moreover, results revealed that a rapid degradation of COPA^{164V} further promotes tumorigenesis.



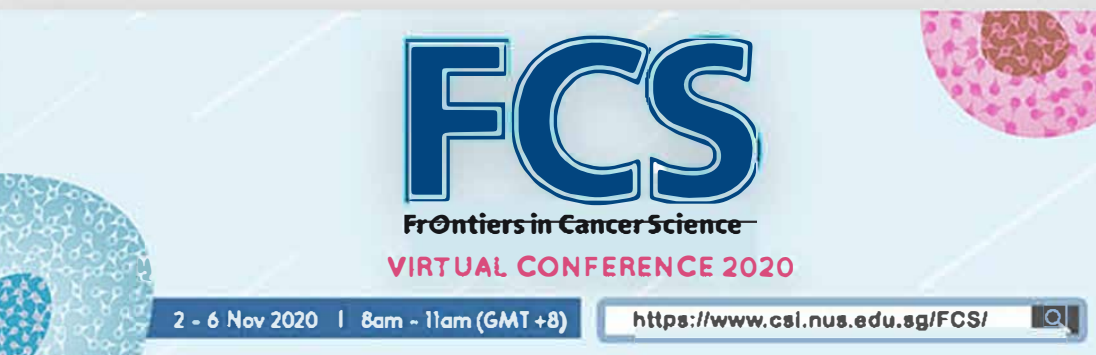
[read more >>>](#)

UPCOMING EVENTS



6th RNA Biology Symposium

1 - 2 October 2020
Virtual



Frontiers in Cancer Science

Virtual Conference 2020
2 - 6 November 2020
8am - 11am (GMT +8)

SUBMIT YOUR ABSTRACTS NOW!

Deadline (Oral Presentation): 25 Aug 2020
Deadline (Poster Presentations): 8 Sep 2020



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