

CANCER SCIENCE INSTITUTE OF SINGAPORE IN THE SPOTLIGHT

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RUNX Poly(ADP-Ribosyl)ation and BLM Interaction Facilitate the Fanconi Anemia Pathway of DNA Repair. (*Cell Rep*, Aug 2018)

Fascinating research by Prof Yoshiaki Ito's group found that RUNX proteins are integral to efficient DNA repair via the Fanconi Anemia (FA) pathway. The FA pathway in the cell has been linked to cancer incidence and identifying the mechanisms by which the pathway is regulated could have far-reaching clinical potential.



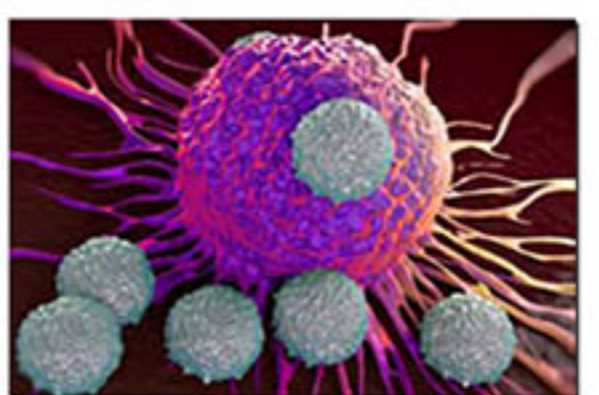
Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy. (*Adv Mater*, Aug 2018)

This review paper led by Dr Edward Chow elaborates on the use of carbon nanomaterials in clinical application, which is an emerging field of research with substantial preclinical evidence of the translational potential.



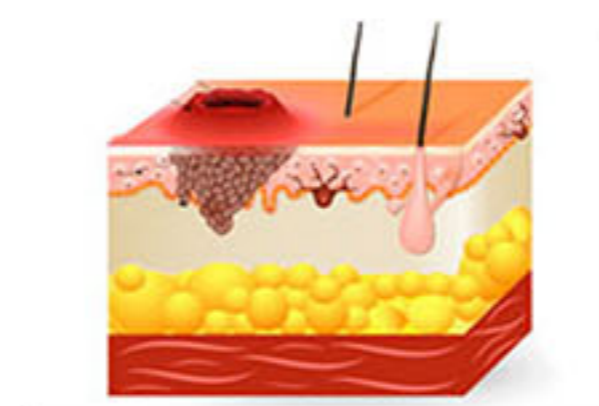
Aberrant Hyperediting of Myeloma Transcriptome by ADAR1 Confers Oncogenicity and is a Marker of Poor Prognosis. (*Blood*, Sep 2018)

A novel study by Prof Chng Wee Joo's group unraveled novel insights into multiple myeloma molecular pathogenesis at the global RNA level. Functional assays established ADAR1 to be oncogenic, driving cellular growth and proliferation in an editing-dependent manner.



Co-activation of Super-Enhancer-Driven CCAT1 by TP63 and SOX2 Promotes Squamous Cancer Progression. (*Nat Commun*, Sep 2018)

Prof H. Phillip Koeffler's team carried out epigenomic profiling of SCCs and found a molecular pathway that promotes tumour growth in SCC. The study provides a deeper understanding of transcription dysregulation in cancer biology mediated by master transcription factors and super-enhancers.



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RUNX Proteins for DNA Repair in Fanconi Anemia Pathway

Clinical Applications of Carbon Nanomaterials in Diagnostics and Therapy

ADAR1 is Involved in Tumour Development in Multiple Myeloma

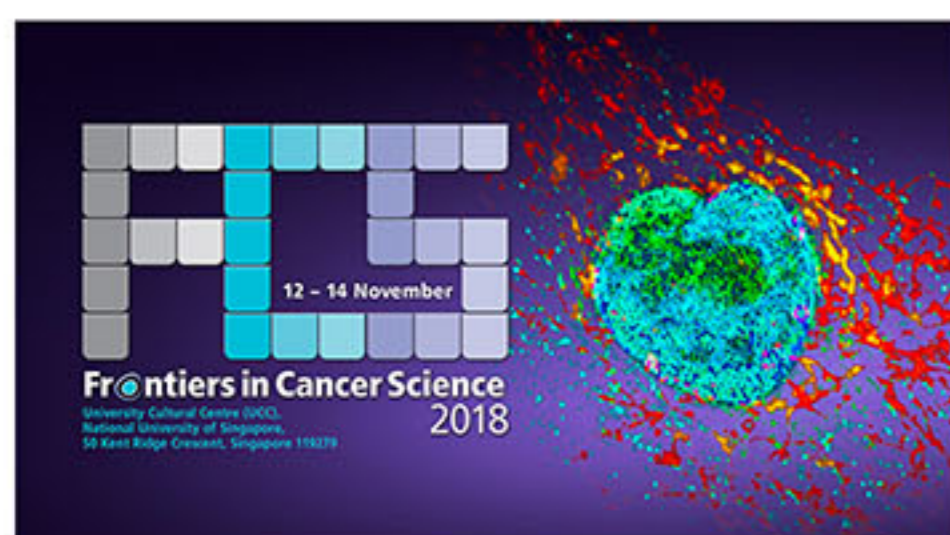
CCAT1, TP63 and SOX2 Molecular Pathway in Squamous Cell Carcinoma

UPCOMING EVENTS

CSI Seminar
Richard Eglén
4 Oct 2018

CSI Research Meeting
5 Oct 2018

CSI Seminar
Massimo Tomassino
8 Oct 2018



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