CANCER SCIENCE INSTITUTE OF SINGAPORE

IN THE SPOTLIGHT

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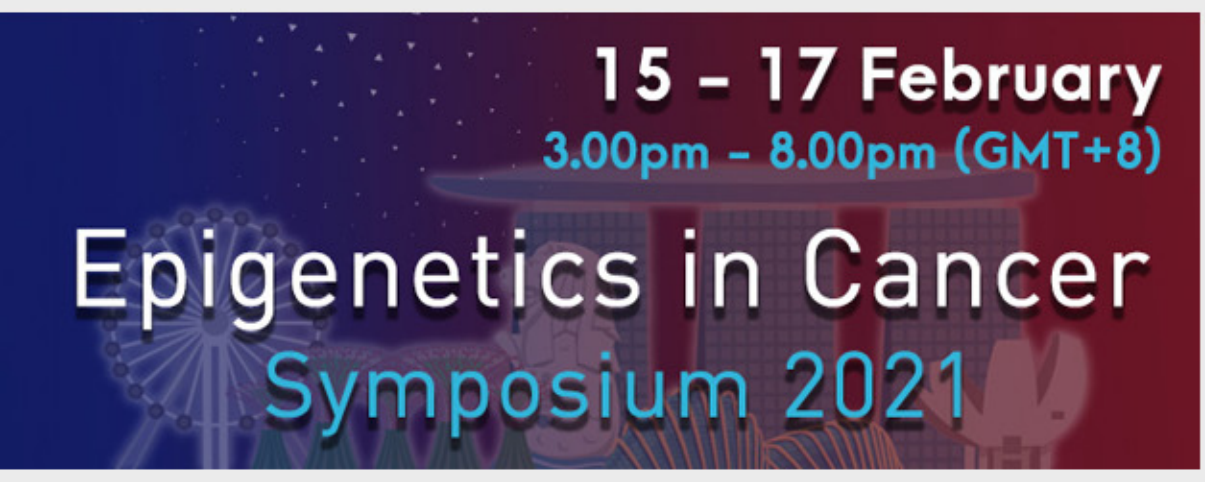

Epigenetics in Cancer Symposium

15 - 17 February 2021

The deadline for abstract submission has been extended to 11 January 2021! Submit your abstracts today!

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Frontiers in Cancer Science 2021

1 - 3 November 2021

Save these dates for the nation's largest annual cancer conference! Stay tuned to our website for updates on FCS 2021.

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EZH2-mediated PP2A Inactivation Confers Resistance to HER2-targeted Breast Cancer Therapy. (*Nat Commun*, Nov 2020)

HER2-targeted therapy had significantly improved prognosis of patients diagnosed with HER2+ breast cancer. However, a substantial fraction of patients still suffer disease relapse due to therapy resistance, which remains a major therapeutic challenge today. In this fascinating study, Prof. Lee Soo Chin and her team have discovered a biomarker and combinational treatment that could help stamp out resistance to anti-HER2 treatments, holding promise for improved survival of HER2+ breast cancer patients.

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The Double-edged Sword of H19 lncRNA: Insights into Cancer Therapy. (*Cancer Lett*, Nov 2020)

While some studies have reported that H19 long non-coding RNA (lncRNA) acts as an oncogene and contributes to cancer progression, others have also found that H19 suppresses tumour development. In this review led by Prof. Goh Boon Cher, the team surveyed the conflicting findings and shed light on the possible reasons for the contrary results. Besides summarising the current literature on the applications of H19 lncRNA in cancer therapy in many cancers, the team also explored new avenues for future research and highlighted the potential of H19 lncRNA as a promising target for the development of cancer therapeutics.

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Iqgap3-Ras Axis Drives Stem Cell Proliferation in the Stomach Corpus During Homoeostasis and Repair. (*Gut*, Dec 2020)

Iqgap3 is a member of the Iqgap (IQ motif containing GTPase activating protein) cytoskeletal scaffold family that was reported to be necessary and sufficient for cell proliferation. In this novel study helmed by Prof. Yoshiaki Ito, the group revealed a crucial function of Iqgap3 as an indispensable stem cell specific factor, which regulates stem cell function in homoeostasis and tissue damage repair. Their findings underscored the role of Iqgap3 as a major regulator of stomach epithelial tissue homeostasis and repair. Moreover, the upregulation of Iqgap3 in gastric cancer suggests that Iqgap3 plays an important role in cancer cell proliferation.

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