

CANCER SCIENCE INSTITUTE OF SINGAPORE

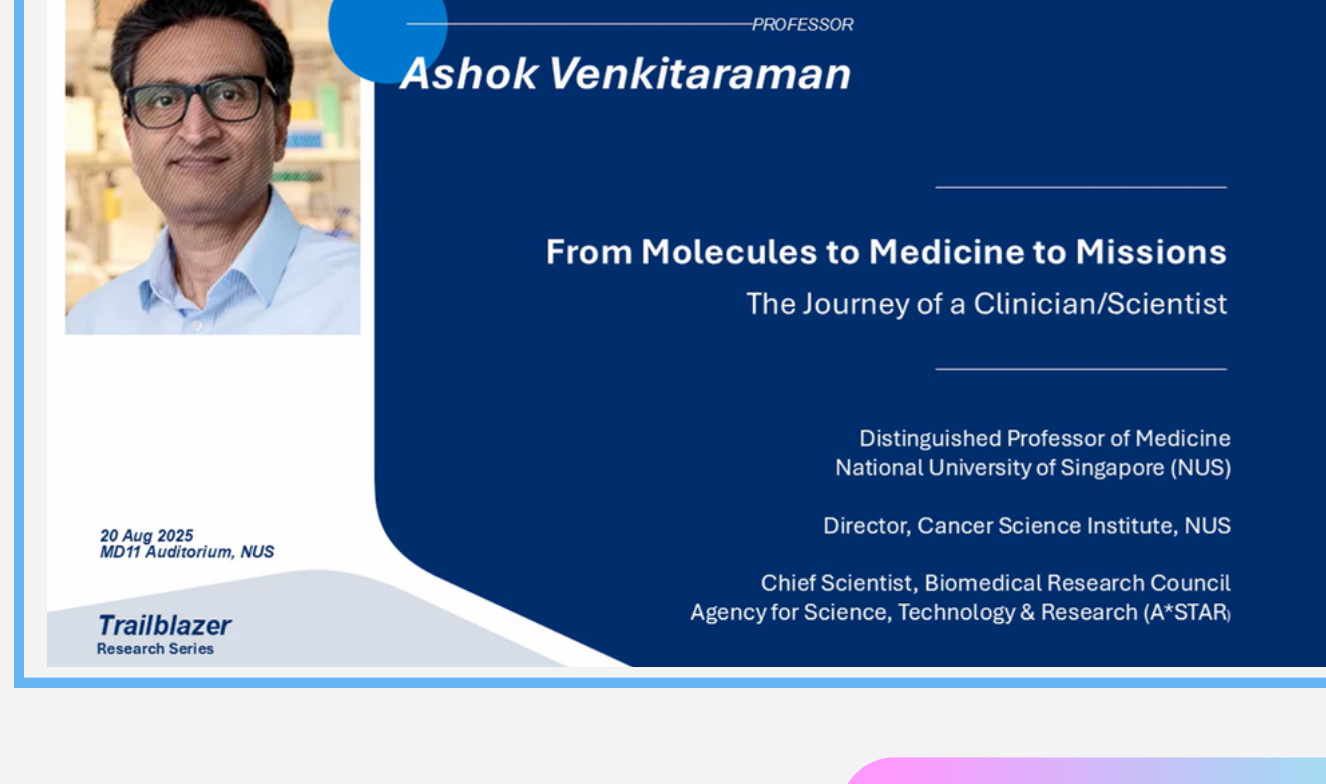
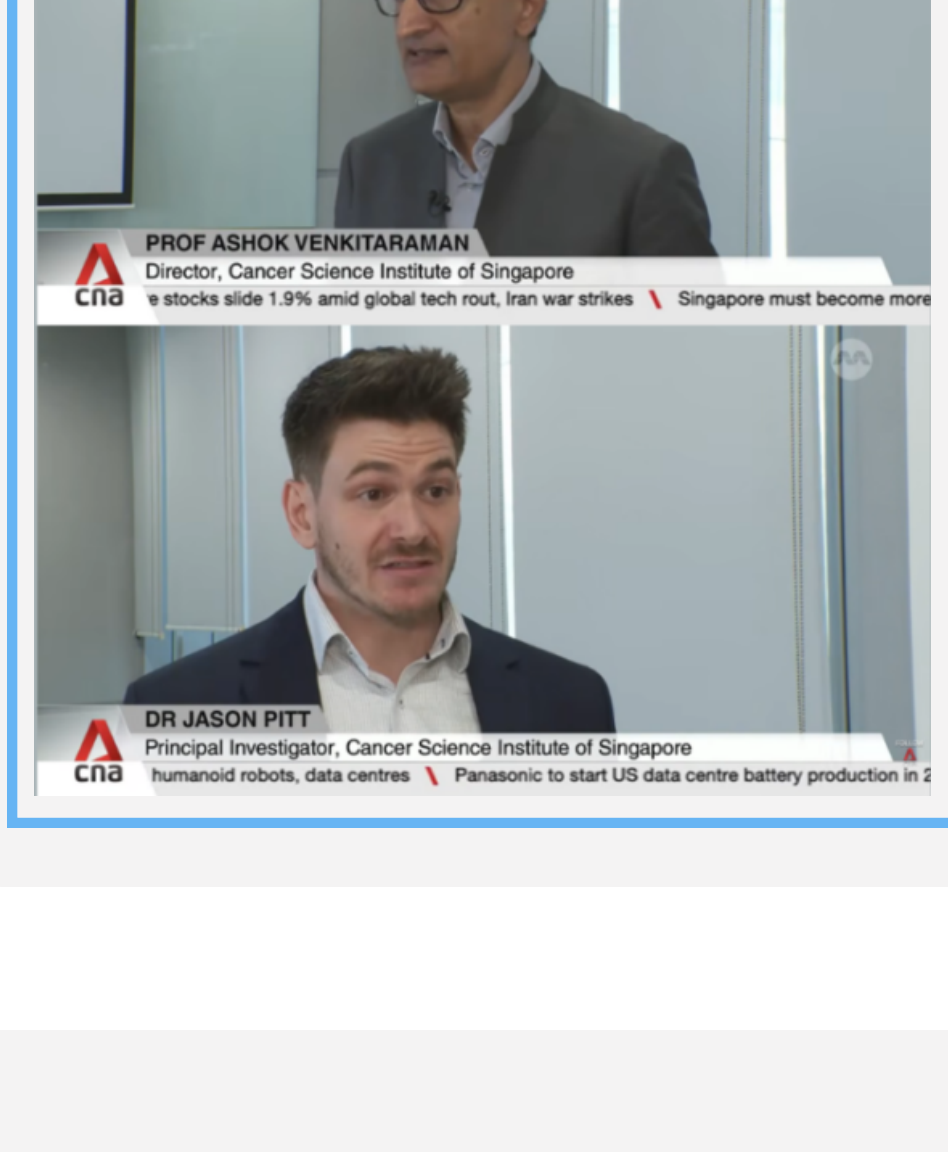
IN THE SPOTLIGHT

Issue 112 | APR - JUN 2026

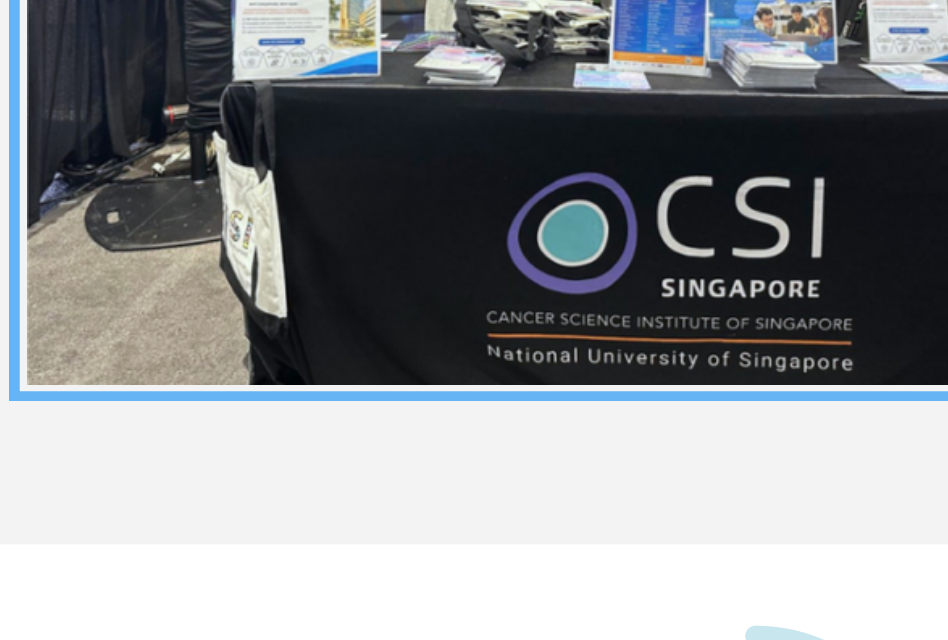
What's New?


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CSI Director & PI featured on Channel News Asia!

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CSI Singapore's 4th year at the AACR Annual Meeting!

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Upcoming Events

31 CSI Staff Party!
31 Jul
K Bowling Club

07 CSI Research Meeting
7 Aug, 4pm - 5pm
NUS

26 Editorial Seminar by Angela Eggleston
26 Aug, 4pm - 5pm
NUS

NIRBA RNA SCIENCE CONFERENCE 2026

Catalysing the Future of RNA Science

Bringing together world-leading researchers in RNA biology, RNA therapeutics and translational medicine.

22 AND 23 OCTOBER 2026

NATIONAL GALLERY SINGAPORE

www.nirba.sg/rna-science-conference

Register & Submit your Abstracts!

Deadline:

Sunday, 9 Aug, 23 59 SGT





FRONTIERS in Cancer Science 2026

Join us and learn from the foremost cancer experts as they share their new findings.



11-13 NOV

Scan the QR code to register now!

ONE FARRER HOTEL
1 Farrer Park Station Rd, Singapore 217562

Early-bird registration ends on **14 Sep 2026**

Research Highlights

A Paired Sequence Language Model for Protein-Protein Interaction Modeling (Nature Communications, Mar 2026)

Researchers led by Senior Principal Investigator, **Prof. Yang Zhang**, have developed a new artificial intelligence (AI) model that can more accurately predict how proteins interact with one another—an advance that could accelerate drug discovery and deepen insights into diseases such as cancer. The study introduces a paired protein language model (PPLM) that learns from two interacting proteins simultaneously, rather than analysing them in isolation. This marks a significant shift in how AI is applied to biology, enabling more accurate prediction of protein-protein interactions that underpin nearly all cellular processes.

[Read More](#)

An Analytic Framework Characterizes the Biological Processes That Shape Copy Number-Based Genome Instability Patterns in Breast Cancer (Cancer Research, Apr 2026)

CSI Principal Investigator, **Dr. Jason Pitt**, together with his team, have identified eight previously unknown DNA change patterns linked to breast cancer. The study analysed nearly 2,800 cancer genomes to better understand how tumours develop and respond to treatment. The team also launched CNA Visualizer, an open-access platform that allows researchers worldwide to explore cancer genome patterns and clinical outcomes interactively. The findings could support future diagnostics and targeted therapies for breast cancer patients.

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qChIP-MS Reveals the Local Chromatin Composition by Label-free Quantitative Proteomics (Nature Communications, May 2026)

Researchers led by Principal Investigator, **Asst. Prof. Dennis Kappei**, have developed a new method that allows scientists to better understand how DNA activity is organised and regulated inside our cells. The study introduces a method called qChIP-MS, which enables researchers to identify groups of proteins that work together at specific locations on DNA. DNA in our cells is packaged into a structure known as chromatin. Chromatin helps determine which genes are switched on or off, protects the genome from damage, and influences how cells respond to stress. Problems in chromatin regulation have been linked to cancer, ageing and other diseases. Understanding which proteins gather at specific regions of the genome is important because these protein networks help control gene activity and influence how cells behave in health and disease.

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