

CSI

Cancer Science Institute of Singapore

OUR STORY

CSI Singapore is a state-of-the-art University research institute affiliated with, and hosted at the National University of Singapore. It was established in 2008, with a "Research Centre of Excellence" grant, one of only five in Singapore, by the National Research Foundation and the Ministry of Education.

The institute is an anchor for research expertise in three broad programmes; Cancer Biology & Stem Cells, Experimental Therapeutics, and the RNA Biology Centre; these programmes form expansive platforms for CSI Singapore's focus on key cancers, namely in gastric, liver, lung and leukaemia which are endemic in the Asian populations. CSI Singapore aims to position Singapore as a global-leader in the field of Biomedical Sciences.





Ashok Venkitaraman Director, CSI Singapore

Our research now seeks to advance understanding of the molecular and cellular mechanisms that trigger cancer evolution in different human tissues, and to apply this new knowledge for the benefit of cancer patients through improvements in cancer detection, treatment, and eventually, prevention.

MISSION

Our mission is to better understand the causes of human cancer across Asia, and thereby improve its detection, treatment and prevention. Our outstanding researchers and exceptional facilities create an energetic environment for ground-breaking science and world-class training.

RESEARCH TEAMS



CHNG WEE JOO Our lab studies ways to overcome high-risk



POLLY

RNA alterations in cancer and development of RNA-based

therapeutics

CHEN LEI LEI



CHOW

Engineering-based approaches to improve precision and personalised

cancer treatment

EDWARD KAI-HUA



Investigating the 3-dimensional organization of enhancers and silencers in cancer

MELISSA FULLWOOD



GOH BOON CHER

Development of novel treatments for cancers



YOSHIAKI ITO

Regulation of stomach epithelial stem cells in homeostasis and cancer



ANAND
JEYASEKHARAN

How the immune system recognizes chemotherapy treated cancer cells



Proteomics of noncoding elements in cancer



KOEFFLER

Genomics and epigenetics of malignancies

H. PHILLIP



Novel therapeutics and predictive biomarkers in breast cancer



Molecular analysis of RUNX leukaemia towards novel therapeutics

MOTOMI OSATO



JASON PITT

Cancer genome data science at scale



TAKAOMI SANDA
Transcription factor
and enhancer
abnormalities in
cancers



TOSHIO SUDA

Establishment of an ex vivo expansion platform for hematopoietic stem cells



TAM WAI LEONG
Translational
approaches for
targeting cellular
energetics and cell
states in cancer



PATRICK TAN

Genetic analysis of Asian-prevalent malignancies to identify new biomarkers and drug targets



DAVID SP TAN

Development of

Development of biomarkers and novel anti-cancer therapeutic agents focusing on gynaecological cancers



YVONNE TAY

Understanding RNA biology and developing RNA-based biomarkers and drugs



DANIEL G. TENEN

(1) Gene regulation and cancer; (2) the role of the oncofetal protein SALL4 in cancer



ASHOK VENKITARAMAN

Deciphering the mechanisms underlying cancer susceptibility to intercept cancer evolution

AWARDS & ACHIEVEMENTS

2013 SINGAPORE TRANSLATIONAL RESEARCH (STar) INVESTIGATOR 2014 TOSHIO SUDA SINGAPORE TRANSLATIONAL RESEARCH (STAR) INVESTIGATOR DANIEL TENEN NATIONAL RESEARCH FOUNDATION (NRF) AWARDS H.PHILLIP KOEFFLER TAKAOMI SANDA MELISSA FULLWOOD 2015 MELISSA FULLWOOD NATIONAL RESEARCH FOUNDATION (NRF) AWARDS PROFESSORSHIP, NATIONAL UNIVERSITY OF SINGAPORE YVONNE TAY TAM WAI LEONG YVONNE TAY PRESIDENT'S SCIENCE AND TECHNOLOGY AWARD (PSTA) 2016 PATRICK TAN SINGAPORE TRANSLATIONAL RESEARCH (STar) INVESTIGATOR TEH BIN TEAN AWARD YOUNG SCIENTIST AWARD PATRICK TAN YVONNE TAY PRESIDENT'S ASSISTANT PROFESSORSHIP, NATIONAL UNIVERSITY OF SINGAPORE 2017 SINGAPORE TRANSLATIONAL RESEARCH (STAR) INVESTIGATOR POLLY CHEN AWARD NANYANG ASSISTANT PROFESSORSHIP, NANYANG TECHNOLOGICAL UNIVERSITY CHNG WEE JOO NMRC CLINICIAN SCIENTIST MELISSA FULLWOOD TRANSITION AWARD 2018 ANAND JEYASEKHARAN PROVOST'S CHAIR PROFESSOR, NATIONAL UNIVERSITY OF 2019 CHNG WEE JOO SINGAPORE TRANSLATIONAL RESEARCH (STar) INVESTIGATOR AWARD TOSHIO SUDA 2020 DANIEL TENEN DONNALL THOMAS LECTURE THE PUBLIC ADMINISTRATION AWARD (BRONZE) TOSHIO SUDA GOH BOON CHER NATIONAL OUTSTANDING CLINICIAN SCIENTIST AWARD PROGRAMME GOH BOON CHER POLLY CHEN 2021 YONG LOO LIN SCHOOL OF MEDICINE RESEARCH EXCELLENCE AWARD FOR YONG LOO LIN SCHOOL OF MEDICINE GRADUATE MENTOR TAKAOMI SANDA CHNG WEE JOO ACHIEVEMENT AWARD RESEARCH EXCELLENCE AWARD - AY 2019/2020 CHNG WEE JOO POLLY CHEN SINGAPORE TRANSLATIONAL RESEARCH (STAR) INVESTIGATOR GOH BOON CHER NMRC CLINICIAN SCIENTIST AWARD

ANAND JEYASEKHARAN

NMRC CLINICIAN SCIENTIST

LEE SOO CHIN

AWARD

CORE FACILITIES

Core Facilities support the research groups and operations in CSI, NUS & the wider scientific community in Singapore.

Drug Analysis Pharmacokinetics Core

Boon Cher Goh

Transgenic & Gene Targeting Facility

Motomi Osato

Leukemia Cell Bank

Wee Joo Chng / Allen Yeoh

Quantitative Proteomics Core

Dennis Kappei

Fluorescence Activated Cell Sorting (FACS) Facility

Motomi Osati

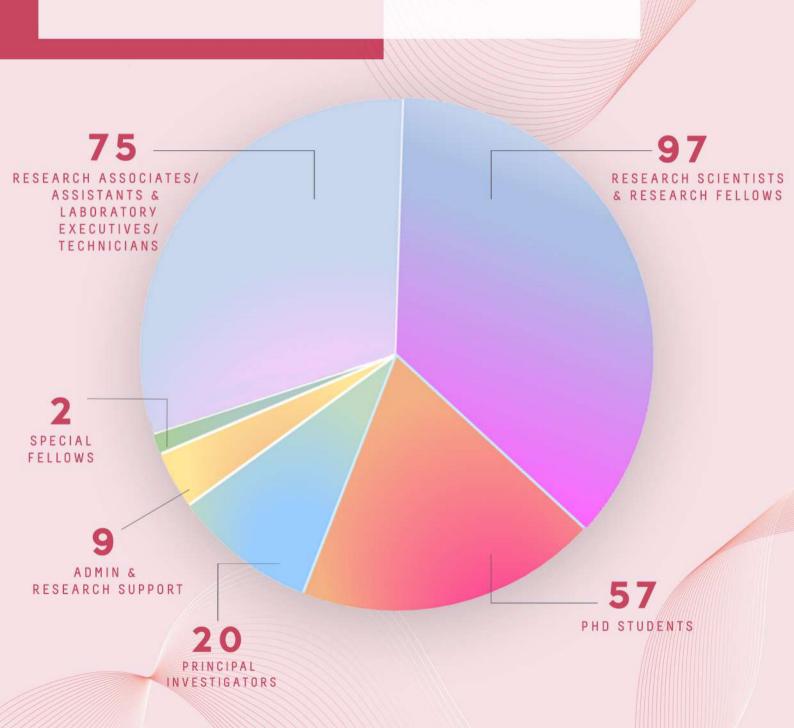
Microscopy Core

Anand Devaprasath Jevasekharan

Genomics and Data Analytics Core (GeDaC)

Jason Pitt

STAFF STRENGTH



GRADUATE PROGRAM

CSI Singapore offers competitive scholarships for PhD in Cancer Biology. Successful candidates will have access to world-class facilities dedicated to cancer research and can look forward to working with a dynamic global team of renowned specialized scientists in an intellectually stimulating environment.



Monthly Scholarship Stipend of Up to SGD \$3,600

Full Subsidy of Tuition and Miscellaneous Fees





Allowances for Relocation, Laptop, Books/Software and Conferences

Bond Free Premium Scholarship





Yearly Intake in August

2020 PUBLICATION HIGHLIGHTS

122

PUBLICATIONS

66,972

CITATIONS RECEIVED 2010 - 2020

79

INTERNATIONAL COLLABORATIONS 31

PRESS RELEASES

COLLABORATION NETWORK

Metric Details OOO Size: Scholarly Output Types of publications included: all Field-weighted: no Colour: Field-Weighted Citation Impact Types of publication included: all

Top Collaborators by Country:

United States
China
Taiwan
Taiwan
Italy
Italy
Canada





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