



The Gateway to Singapore's Cancer Research Ecosystem



Synergising cancer research and translational capabilities for healthcare impact

Established in 2020 as a national level research and translation (R&T) programme, the Singapore Translational Cancer Consortium (STCC) aims to synergise cancer research capabilities and raise Singapore's overall prominence, competitiveness and healthcare impact regionally and globally, in selected Asian cancers.

STCC's five joint platforms – Cancer Clinical Trials and Investigational Medicine Units, Cancer Databases and Tissue Banks, Translational Research Integration and Support, Impact and Population Health, as well as Business Intelligence and Development – provide an enabling research and innovation environment driven to foster robust translational research and meaningful health outcomes for society.

Cancer Clinical Trials & Investigational Medicine Units

Streamline clinical trial start-up framework and facilitate multi-site investigator-initiated trials across three healthcare clusters in Singapore.

Advancing Oncology Clinical Trials



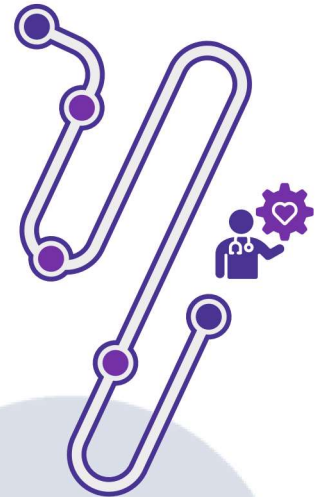
Simplified clinical trial start-up processes with established centralised workflows



Facilitate as a bridge from clinical trials to translational research



Clinical support from a national Key Opinion Leader (KOL) network comprising multidisciplinary experts in cancer research



Cancer Databases & Tissue Banks

Provision of governed access to high-quality, Asian-centric multi-modal cancer data to enable translational research, AI foundational models development and validation across Singapore's healthcare system.

STCC Cancer Data Commons & Bio Repositories

An integrated, AI-ready multi-modal data platform combining clinical, specimen and multi-omics data across Singapore's cancer research community, enabling cohort discovery, research and clinical translation to optimise patient care.



>200,000

Ecosystem-wide patients with longitudinal clinical data



>40,000

Clinically annotated specimens

1

Unified access point to clinical, imaging, pathology and multi-omics data



Predictive modelling and trial matching

Development of Asian-prevalent cancer AI models

AI-assisted clinical decision support

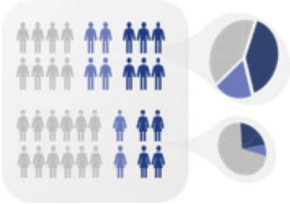
User access to STCC repositories is governed by a robust, end-to-end framework and adhere to national standards and security protocols, including international standards and certification to ensure patient data privacy, protection and security while enabling responsible AI development.

Translational Research Integration & Support

Bringing together expertise from cancer research institutes and academic centres across Singapore through a comprehensive facilitative pipeline for translational and pre-clinical research.

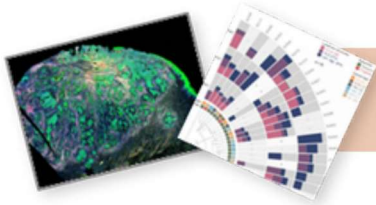
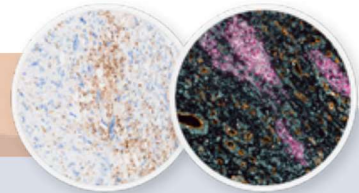
Broad Research Expertise

Cohort generation for translational research studies



Biomarker prevalence in ethnically diverse Asian cohorts

Target cohort characterisation using in-depth genomics and proteomics



Clinical trial **molecular profiling and biomarker discovery**

DIVERSITY Tumour Model Catalogue

Advancing precision medicine through Asian patient-derived models

A curated platform of organoids, explants and xenografts derived from Asian patient samples, supported by deep expertise in pre-clinical model development and translational research.

Potential Applications

Drug Discovery & Pre-Clinical
Therapeutic Testing

Biomarker Discovery &
Precision Oncology Research

Disease Modelling
& Biology Discovery

Use Cases

Organoids

High-Throughput
Drug Screening

Deep
profiling

Pan-Cancer Patient-
Derived Organoid Atlas

Downstream applications such as academia/industry collaborations, drug discovery and AI-driven applications

Impact & Population Health

Support data generation and assessment relevant to health impact to inform policy change and implementation aligned with value-based cancer care.

Core Research Focus Areas

Population Health



Incidence & trends



Survivorship



Disparities

Health Economics



Costs & Utilisation



End-of-life care



Real-world cost evaluation

Prevention & Preparedness



Prevention, screening & early detection



Benchmarking



Resilience for future pandemics

Business Intelligence & Development

As STCC's dedicated business team for active industry engagements, the platform develops outreach strategies and is a single contact point to industry partners interested in cancer-related clinical and research collaborations.

Core Capabilities



Driving innovative early concept across industry & academia



Facilitate collaborative cancer trials and studies



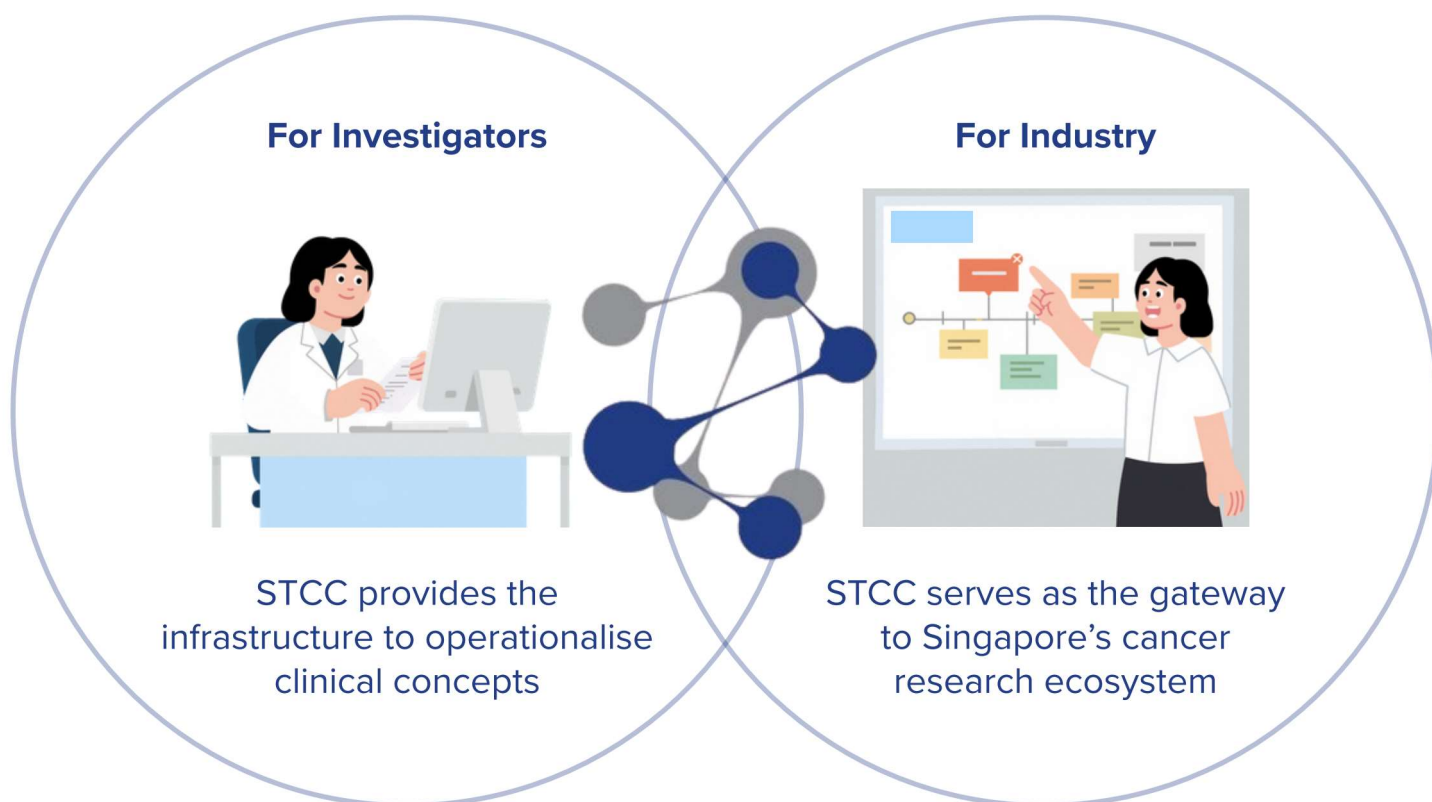
Access to global academic and industry networks



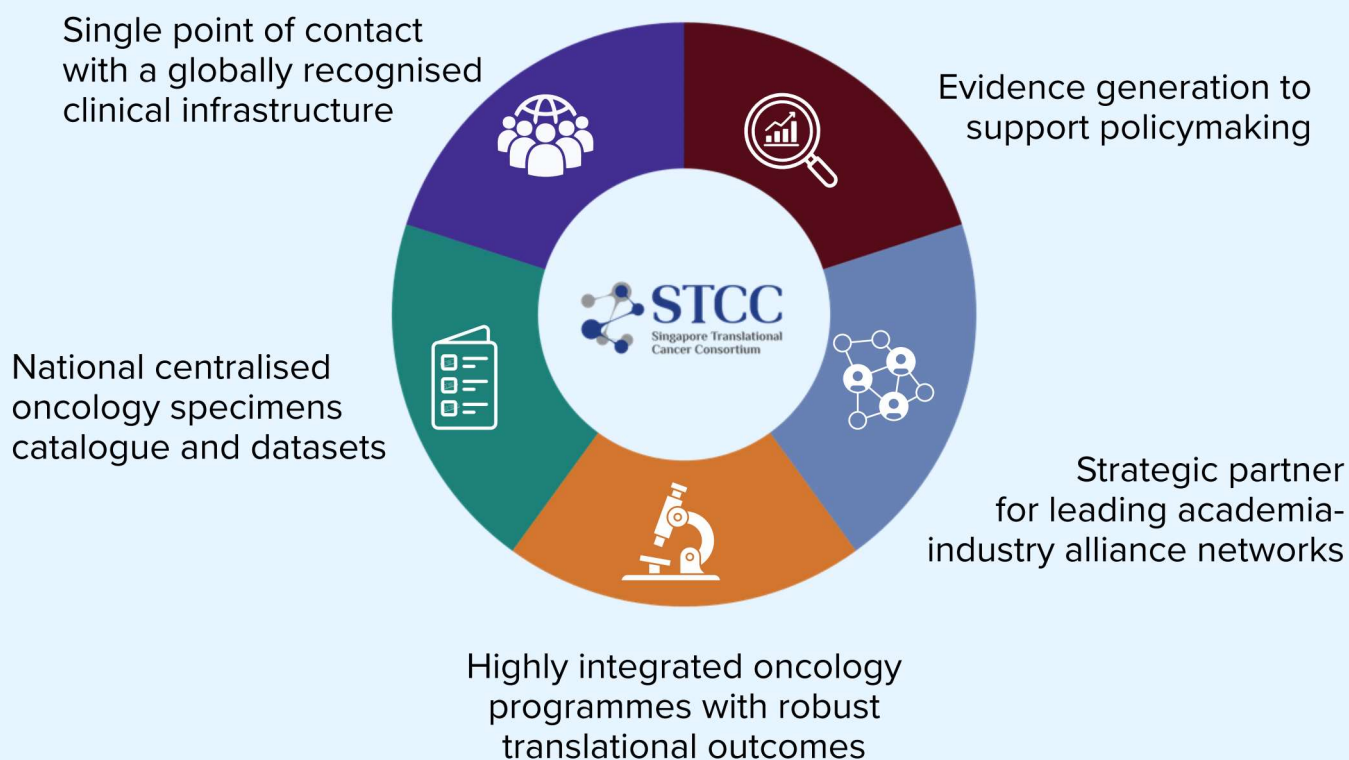
For collaboration or engagement enquiries, please scan the QR code.



How does STCC provide a strategic advantage in cancer translational research?



Our Service Provisions and Capabilities





Our Partners



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A programme of

