

Research



Translational Precision Oncology

We are a young laboratory comprising a highly collaborative team of oncologists and scientists with a special focus in **Sarcomas**, **Lymphomas** and **Melanomas**, as well as general applications in Oncology as a whole.

The National Cancer Centre Singapore (NCCS) is the largest cancer centre in Singapore and a regional centre of excellence with a world-class clinical trials program. Through our daily care of patients with cancer and multidisciplinary discussions of poignant aspects of their management, we recognise crucial limitations in diagnostics, prognostics and treatment that apply to our patients. Through technologies available in the laboratory, as well as the collective scientific expertise of our team and our collaborators, we address clinically meaningful questions to bring benefit to our patients.

Our current translational projects include the following:

1. Therapeutic vulnerabilities and resistance mechanisms in Sarcomas
2. Development of an *ex vivo* platform for drug testing in Sarcomas
3. Analysis of the Immune Microenvironment in Sarcomas and Therapeutic Implications for Immunotherapy

There are also multiple clinical projects spanning several domains and clinical trials (**with biomarker exploratory endpoints**) ongoing in Lymphomas and Melanomas with our highly collaborative clinical and scientific teams.

Current collaborators include:

- NCCS Medical Oncology :
Prof. Lim Soon Thye and the entire Lymphoma and Sarcoma Oncology team
- NCCS Surgical Oncology: Dr. Claramae Chia, Dr. Johnny Ong
- IMCB Chromatin Dynamics & Disease Epigenetics Laboratory:
Dr. Wee Wei Tee, Dr. Lau Mei Sheng

- NCCS Lymphoma Genomics Translational Laboratory: Dr. Ong Choon Kiat
- GIS High Throughput Phenomics: Dr. Giridharan Periyasamy
- Cancer Science Institute of Singapore: Prof. Edward Kai-Hua Chow

If you would like to know more or collaborate, or if you wish to explore studentships, please contact Dr. Valerie Yang at: yangswv@imcb.a-star.edu.sg or valerie.yang.s.w@singhealth.com.sg