

N2CR INSIGHTS

THE QUARTERLY NEWSLETTER OF N2CR

LATEST NEWS AND ACHIEVEMENTS



Prof Ng Siok Bian



Prof Tan Soo Yong

Promotion to full Professor

Congratulations to our members, Prof Ng Siok Bian and Prof Tan Soo Yong, on their promotion to full Professors – a well-deserved recognition of their outstanding contributions to research, education and clinical care.

Prof Tan is internationally recognised for redefining lymphoma pathology and advancing pathology education. Prof Ng is a leading expert in EBV-associated lymphomas, driving molecular insights and diagnostic precision.

Both are Senior Consultants at the Department of Pathology, NUH. Their work continues to inspire progress in cancer research and patient care.



It's a mental challenge to not allow the frustrations to overwhelm you and keep you down. When I get bad news, I allow myself to 'grieve' over it for 48 hours. And then I tell myself to pull together and move on.

MRS CHAN LI LENG, who has battled cancer for nearly two decades

Mrs Chan Li Leng with her husband, Mr Paul Chan (left), and her doctor, Professor Chng Wee Joo (right). ST PHOTO: NG SOR LIAN

Spotlight on World Cancer Research Day

24 September 2025 marked World Cancer Research Day, to time to honour the courage of those affected by cancer and to celebrate the scientific efforts driving change.

In a feature by The Straits Times, readers were introduced to personal stories of patients navigating their cancer journeys, alongside insights from clinicians and researchers working at the forefront of cancer breakthroughs. Among those highlighted was Prof Chng Wee Joo, an N2CR member, whose research in blood cancers such as multiple myeloma is helping to shape the future of treatment.



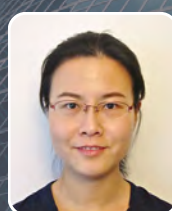
N2CR Postdoc & Graduate Student Club

The N2CR Postdoc & Graduate Student Club, established to support the professional growth of postdocs and graduate students, launched its first talk of the year on 5 Sep 2025, marking the start of its second chapter under our new president, Dr Stephen Chong.

Dr Chong warmly welcomed attendees and shared an overview of upcoming seminar sessions designed to promote learning, networking, and career development within the cancer research community.

Stay tuned for more events and opportunities to engage!

Let's Welcome our Primary Members



Dr Shen Yujia
Dept of Medicine,
NUS



Dr Peter Yeow
Dept of
Biochemistry, NUS



Dr Liu Bee Hui
Cancer Science
Institute of
Singapore, NUS



Dr Ren Yi
Dept of
Otolaryngology,
NUS



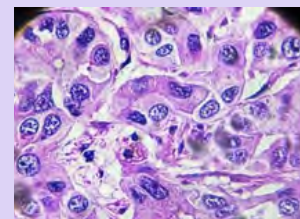
Dr Tan Tuan Zea
Cancer Science
Institute of
Singapore, NUS

Overcoming Drug Resistance in Liver Cancer

(Cell Communication and Signaling; Yu Tian, ... Gautam Sethi, Zhirui Zeng)

Sorafenib is a first-line therapy used to treat advanced liver cancer, but its effectiveness is often reduced due to resistance in cancer cells. This study co-led by N2CR member, A/Prof Gautam Sethi, explored the biological mechanisms behind that resistance and identified a group of genes involved in retinoic acid metabolism that help cancer cells survive treatment.

These genes are activated by a protein called POU3F3, which boosts the production of retinoic acid — a compound that protects cells from damage. By silencing POU3F3, researchers were able to make cancer cells more responsive to sorafenib. They also identified a compound called rosarin that inhibits POU3F3 and enhances the drug's effectiveness. Laboratory and animal tests showed that combining rosarin with sorafenib significantly improved treatment outcomes. These findings suggest that targeting POU3F3 could be a promising strategy to overcome drug resistance and improve the success of liver cancer therapies.



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Prospective Evaluation of QPOP in Relapsed/ Refractory Non-Hodgkin's Lymphoma

(ICO Precision Oncology; Rui Xue Lee ... Edward KH Chow, Anand D Jeyasekharan)



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Treatment of relapsed/refractory non-Hodgkin's lymphoma (R/R-NHL) remains one of the most difficult challenges in haematologic malignancies, with many patients exhausting standard therapies and facing limited treatment options. In a final report extending on interim results from a prospective study led by N2CR members, Dr Anand D Jeyasekharan and A/Prof Edward Chow, at NCIS and NUS, a novel AI-guided ex vivo drug screening tool, Quadratic Phenotypic Optimisation Platform (QPOP), accurately predicted response to drug combinations in 74.5% of 117 lymphoma cases.

Those who received QPOP-guided patient-specific treatment had a 59% overall response rate and nearly 60% experienced longer response duration compared to their preceding treatment. Two-year survival analysis revealed significant extension of progression-free survival in QPOP-guided group compared to those on standard salvage regimens ($P=0.019$), with 44% lower risk of progression. These findings demonstrated clinical utility and potential of QPOP as a functional precision medicine platform, supporting its development as a clinical decision support tool in the management of R/R-NHL patients.

New Hope for Treating Drug-Resistant Leukaemia

(Nature Reviews Clinical Oncology; Antonino Glaviano, ... Courtney D DiNardo, Alan P Kumar)

Acute myeloid leukaemia (AML) is a fast-growing blood cancer that often becomes resistant to standard treatments. This resistance is linked to proteins that prevent cancer cells from dying. A new class of drugs, called BH3 mimetics, is showing promise by targeting these proteins and helping treatments work more effectively. One such drug, venetoclax, has already improved outcomes for older patients or those unable to undergo intensive chemotherapy. When combined with existing therapies, it has led to better response rates and longer survival, earning approval from the U.S. FDA.

In this review, co-led by Dr Alan Prem Kumar, the transformative potential of BH3 mimetics in AML therapy is explored, including ongoing research into new drug combinations and strategies aimed at refining treatment approaches. The ultimate goal is to improve outcomes for patients by making therapies more effective and better tailored to individual needs.



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UPCOMING EVENTS



12 to 1 pm Friday, 31 Oct 2025
Lvl 13 CONFERENCE ROOM, MD6

Talk title:

Quantitative Proteomics in Action: Case Studies, Expertise, and Core Support



DR YONG WAI KHANG, PHD
CORE FACILITY MANAGER

POSTDOC &
GRADUATE
STUDENT CLUB



NUS Centre for Cancer Research
Yong Loo Lin School of Medicine

 National University
Cancer Institute
Singapore

NUS Centre for Cancer Research
EDUCATIONAL OUTREACH
INSPIRING YOUNG MINDS

A Day in the World of Cancer Research and Healthcare



WEDNESDAY
29 OCT 2026
8.30 AM - 4.15 PM
NUS YONG LOO LIN SCHOOL
OF MEDICINE & NATIONAL
UNIVERSITY HOSPITAL

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