



Academic Medicine
Research Institute
Duke-NUS SingHealth



RESEARCH GRAND ROUNDS

Thermogels for Biomedical Applications: Advancements in Thermogelling Polyurethane Technology

Biodegradable thermogels are a promising class of stimuli-responsive polymers in efficient drug delivery. In this talk, Prof Loh will present his three-component PEG-PPG-PCL thermogelling polyurethane technology as a unique platform for biomedical applications, with effects of anti-melanoma and growth inhibition of hepatocellular carcinoma. Join us as we discover valuable insights on the various drug transportation pathways and unprecedented use of these thermogels in vitreoretinal surgeries. New and exciting avenues for thermogels to be used in further biomedical applications that require higher mechanical strength will also be presented.

Wednesday, 19 May 2021
12:30pm to 1:30pm
via Zoom Webinar



Register for free now at
<https://qrd.by/RGR19May2021>

CME and CPE points may be awarded.

Speaker



Prof Loh Xian Jun

*Executive Director, Institute of Materials Research and Engineering (IMRE), Agency for Science, Technology and Research (A*STAR)*

- Current Vice President of the Executive Committee of the Singapore National Institute of Chemistry
- Elected as Fellow of Fitzwilliam College in the University of Cambridge, Royal Society of Chemistry, Institute of Materials, Minerals & Mining (IOM3), and Institution of Engineering and Technology
- Honoured as a Highly Cited Researcher by Clarivate Analytics in 2019 and 2020
- Known as a pioneer and recognised global expert in the field of biodegradable thermogels, with experience in successful commercialisation of different products such as skin care and household care products

Facilitator



Prof Leopold Schmetterer

*Scientific Director and Head (Ocular Imaging), Singapore Eye Research Institute (SERI)
Professor, Dept. of Ophthalmology and Biomedical Engineering, Nanyang Technological University (NTU)*

- An international expert in ocular and functional imaging, and optical coherence tomography (OCT), leading a team of researchers in the SERI-NTU Advanced Ocular Engineering (STANCE) programme
- Chaired the Ophthalmic Pharmacology at the Department of Clinical Pharmacology at Medical University of Vienna, Austria, with an affiliation with the Center of Medical Physics and Biomedical Engineering until Aug 2016
- Member of scholarly journals such as the Editorial Boards of Progress in Retinal and Eye Research and Journal of Ocular Pharmacology and Therapeutics

Organised by
SingHealth Office of Research