

# SiGN SEMINAR

*Hosted by Prof LAM Kong Peng*

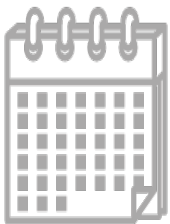


## Associate Prof Babita MADAN

Associate Professor  
Duke-NUS Medical School  
Singapore

### Bridging Cancer Metabolism and The Tumour Immune Microenvironment

Prof Madan's studies of Wnt signalling, particularly using the pan-Wnt inhibitor ETC-159, have uncovered unexpected roles for Wnt signalling in DNA repair, ribosomal biogenesis, and RTK/MAPK signalling, revealing how Wnts coordinate proliferation, differentiation, and tissue homeostasis. They recently identified a link between Wnt signalling and cholesterol biosynthesis through the discovery of FAXDC2, a novel cholesterol biosynthetic enzyme that regulates key sterol intermediates. Their findings suggest that FAXDC2 integrates Wnt, cholesterol, and RTK/MAPK signalling to influence differentiation, senescence, and cell fate. Ongoing work further indicates that sterol intermediates may contribute to immune senescence and thereby shape the tumor immune microenvironment, with important implications for cancer progression and aging.



**07 May 2026 (Thursday)**  
**10 – 11 AM (Singapore Time)**

**SiGN Seminar Room**  
**8A Biomedical Grove, Immunos, #04-06**  
**Singapore 138648**

Seminar is open for all to attend.

Registration is not required.

