

DEPARTMENT OF
BIOLOGICAL SCIENCES

SPECIAL SEMINAR

by **LOW BOON CHUAN**Associate Professor, Department of
Biological Sciences, NUS**2 PM - 3 PM****Monday, 4 March 2024****DBS Conference Room 1**

Hosted by Professor Prakash Kumar

Decoding Signaling Networks and Controls in Health and Diseases via the Versatile BCH domain-containing Scaffold Proteins

In this seminar, I will highlight how our pioneering discovery and characterization of various BNIP.2 and Cdc42GAP Homology (BCH) domain-containing proteins, has enabled us elucidate the spatiotemporal regulation of cell signalling by scaffold proteins.

Our findings integrate the biochemical and mechanical signals in health and disease in the emergent field of mechanosensing. Specific examples on the translational implications in cancer cell migration, ataxia and cardiac ageing will be deliberated.