NUS National University of Singapore | Department of Biological Sciences
Faculty of Science

BIOLOGY COLLOQUIUM

Friday, 2 May 2014 | 4pm | DBS Conference Room 1

Hosted by Professor Paul Matsudaira



New Technologies for Engineering Proteins and Micromolecular Assemblies

By **Michael Chan**
Professor and Director, School of Life Sciences,
Chinese University of Hong Kong

Chemical and biological tools to engineer proteins and biological assemblies are becoming ever more powerful, providing new avenues of research at the cutting edge. This talk will describe two unique technologies that have originated from the Chan laboratory. The first part will describe the discovery of pyrrolysine, the 22nd genetically-encoded amino acid, and how this discovery has led to ability to incorporate novel amino acids for use in new biological applications. In the second part, a novel approach to generate biological microparticles in bacteria will be presented, along with our current progress in developing this technology as a potential tool for delivery of proteins into mammalian cells and animals.

Artwork by Ann Nee, DBS, NUS