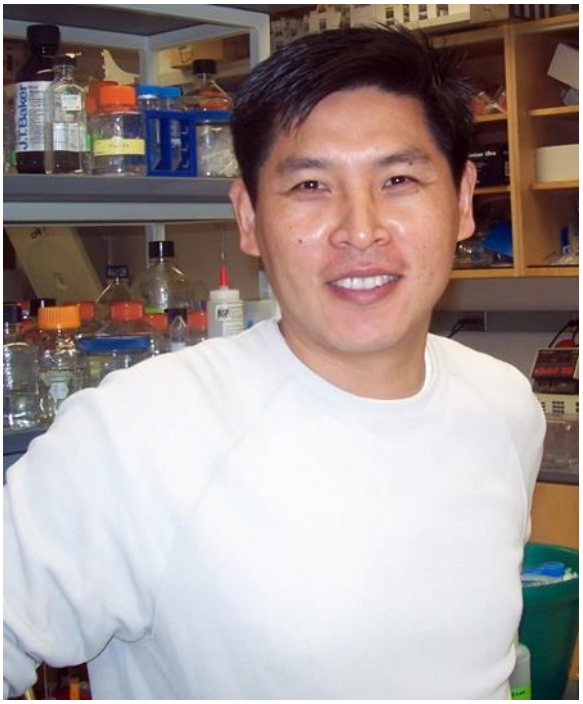
NUS National University of Singapore | Department of Biological Sciences, Faculty of Science

SEMINAR

Thurs, 9 May 2019 | 4pm | DBS Conference Room 1

Hosted by A/P Cynthia He



A tale of two tails : A centriolar protein shuttling between the centriole and the Golgi

By **Gang Dong**

MAX F. PERUTZ LABORATORIES, Vienna BioCenter, Austria

Centrioles are crucial for the biogenesis and function of both cilia and centrosomes. A few core centriolar proteins have been identified and their hierarchical recruitment during centriole biogenesis has been established. However, the molecular mechanism ensuring the 9 fold radial symmetry of centrioles is still not fully understood. We have been working on a newly identified centriolar protein named DRAGON (Drosophila abnormal spindle golgin). It plays an essential role in centriole duplication and assembly by interacting with the cartwheel protein SAS-6 through its C-terminal coiled-coil domain and with the microtubules at the centriolar outer wall via its N-terminal unstructured region. Additionally, DRAGON also localizes to the Golgi by interacting directly with a Golgi-associated small GTPase. I will discuss about our recent characterization of the structure and function of DRAGON in centriole biogenesis as well as its hypothetical role at the Golgi apparatus.

Artwork by Ann Nee, DBS, NUS