

**SLING Workshop:
'Bacterial Lipids'
Tuesday 6 March 2018**

*Auditorium at the Centre for Life Sciences, 28 Medical Drive, Singapore 117456
National University of Singapore*

Please contact the organizers if you are interested in attending:

Shu Sin Chng (chmchngs@nus.edu.sg) and Amaury Cazenave Gassiot (bchacgt@nus.edu.sg)

9:00 – 9:10	Welcome and Introduction
9:10 – 10:10	Session 1: <ul style="list-style-type: none"> - Nikolay Berezhnoy, SCELSE <i>Lipidomics of butanol-producing e. coli</i> - Kimberly Kline, NTU <i>Membrane lipid microdomains organize virulence factor assembly sites in Gram positive pathogens</i> - XueLi Guan, NTU <i>Systems biology of lipid metabolism in Mycobacterium tuberculosis complex</i>
10:10 – 10:20	Break
10:20 – 11:00	Session 2: <ul style="list-style-type: none"> - Alan Mark, University of Queensland <i>Understanding the role of branched chain fatty acids and hopanoids in modulating membrane stability and bactericide resistance.</i> - Shu Sin Chng, NUS <i>Inter-membrane lipid trafficking in Gram-negative bacteria</i>
11:00 – 11:45	Discussion

Key discussion topics:

All participants are encouraged to submit discussion topics and comments via web-based interactive Q&A platform 'Pigeonhole' prior to and during the workshop, please login into www.pigeonhole.at using the passcode "ISLS7", and navigate to the Bacterial Lipidomics workshop Q&A session.

Possible topics to be discussed include:

- Transport of phospholipids to outer membrane in the context of membrane biogenesis. Can lipidomics help pathway identification?
- Lipidomics of bacterial membranes: how does lipid composition and distribution influence outer membrane permeability to various insults, e.g. detergents, and large drugs like vancomycin? Can lipidomics inform computational modelling?
- Lipopolysaccharide and phospholipid levels coordination