

# isLS 5

5th International Singapore Lipid Symposium 2014

**March 18–21, 2014**  
**National University of Singapore**

Chemical diversity  
Natural variation  
Lipidomics  
Selective recognition  
Capture devices

[www.lipidprofiles.com](http://www.lipidprofiles.com)



**SLING**  
Singapore  
Lipidomics  
Incubator

# 5th International Singapore Lipid Symposium 2014

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ISLS5 is organized and hosted by the Singapore Lipidomics Incubator, SLING. We invite and bring together researchers interested in lipid biology and novel technologies for lipid detection, modification and engineering.

## Tue–Mar 18

09:00 – 12:00

### Lipidomic mapping of Natural Variations (L-NAVA)

This is the founding meeting of a new consortium anchored in Asia-Pacific. The primary scientific aim of this multicenter initiative will be to determine natural variations in lipi- domes at baseline levels (i. e., non-perturbed, non-diseased, etc). Individual and population diversity driven by ethnicity will be variables in the case of human studies. This consortium will be a scalable network, with compatible technological platforms offering replication studies and opportunities for the training of and the exchange between research scientists. Glycomic (G-NAVA) and proteomic (P-NAVA) components will add additional layers of infor- mation for integration with available data on genetic variation.

12:00 – 13:00 *Lunch*

13:00 – 15:00

### Workshop 1

#### 'Lipid metabolism and homeostatic systems'

**VYTAS BANKAITIS** (TEXAS A&M)  
**CHARLIE BOONE** (U TORONTO)  
**DAVIS NG** (TLL, SINGAPORE)  
**HOWARD RIEZMAN** (U GENEVA)

15:00 – 17:00

### Workshop 2

#### 'Curating lipidomic information'

**ED DENNIS** (UCSD)  
**KIM EKROOS** (ZORA BIOSCIENCES)  
**IVO FEUSSNER** (U GOETTINGEN)  
**OLIVER FIEHN** (UC DAVIS)  
**HARALD KOFELER** (GRAZ)  
**TODD MITCHELL** (U WOLLONGONG)  
**CRAIG WHEELOCK** (KAROLINSKA)

19:00 – 21:00 *Reception (by invitation)*

## Wed–Mar 19

09:00 Opening Remarks

09:20 **GEORGE RADDA**  
A\*STAR, SINGAPORE  
**Spectroscopy for  
metabolic studies**

10:00 **JAY KEASLING**  
BERKELEY  
**Applying synthetic biology**

10:40 *Break*

11:10 **MALCOM MCCONVILLE**  
U MELBOURNE  
**Metabolism of (intra-  
cellular) parasites**

11:50 **ANNA NICOLAOU**  
U MANCHESTER  
**Lipid mediators in skin**

12:30 *Lunch*

13:30 **UTE ROESSNER**  
U MELBOURNE  
**Plant metabolomics**

14:10 **JOSHUA GOOLEY**  
DUKE-NUS  
**Circadian lipidomics**

14:50 **GIULIO SUPERTI-FURGA**  
CEMM, VIENNA  
**Signaling in immune cells**

15:30 *Break*

16:00 Short talk – selected from  
abstracts

16:20 Short talk – selected from  
abstracts

16:40 Short talk – selected from  
abstracts

17:00 Posters and reception

18:00 *Bus to hotel*

## Thu–Mar 20

09:00 **RAM RAJASEKHARAN**  
CFTRI, MYSORE  
**Biochemistry of  
plant oils**

09:40 **DAVID SILVER**  
DUKE-NUS  
**PUFA transport**

10:20 *Break*

10:50 **ED DENNIS**  
UCSD  
**Eicosanoid lipidomics**

11:30 **HOWARD RIEZMAN**  
U GENEVA  
**Yeast sphingolipid function**

12:10 **MARKUS WENK**  
NUS  
**'deep profiling' of  
signaling lipids**

12:50 *Lunch*

14:00 **GILBERT DI PAOLO**  
COLUMBIA  
**Synaptic lipid  
metabolism**

14:40 **OLIVER FIEHN**  
UC DAVIS  
**Metabolomics and  
informatics**

15:20 **IVO FEUSSNER**  
U GOETTINGEN  
**Plant lipid metabolism**

16:00 *Break*

16:30 Short talk – selected from  
abstracts

16:50 Short talk – selected from  
abstracts

17:10 Short talk – selected from  
abstracts

18:00 *Bus to hotel*

20:00 *Conference dinner*

## Fri–Mar 21

09:00 **BERND WOLLSCHIED**  
ETH, ZURICH  
**Cell surface proteomics**

09:40 **VYTAS BANKAITIS**  
TEXAS A&M  
**Targeting inositol  
lipid enzymes**

10:20 *Break*

10:50 **YASUYUKI IGARASHI**  
HOKKAIDO U  
**Diversity and function of  
sphingolipids**

11:30 **THORSTEN HORNEMANN**  
U HOSPITAL ZURICH  
**Title tba**

12:10 **LIAM BRUNHAM**  
A\*STAR-NUS  
**HDL biomarkers**

12:50 *Lunch*

14:00 **CHARLIE BOONE**  
U TORONTO  
**Mapping genetic  
interactions**

14:40 **TBA**

15:20 **TBA**

16:00 *Break*

16:30 Short talk – selected from  
abstracts

16:50 Short talk – selected from  
abstracts

17:10 Short talk – selected from  
abstracts

17:30 Closing Remarks

18:00 *Bus to hotel*