

LIPIDOMICS FOR CLINICAL APPLICATIONS

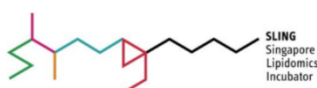
INTRODUCTORY WORKSHOP FOR CLINICIAN RESEARCHERS

Date: 4 - 5 April 2017, Tuesday to Wednesday
Venue: Centre for Life Sciences (CeLS), Seminar Room 2

Day 1: 4 April 2017, Tuesday

TIME	TOPIC	LECTURER
9.00 AM – 9.30 AM	Registration	
	Introduction to the Singapore Lipidomics Incubator	
9.30 AM – 10.15 AM	Basics of lipidomics What are lipids and why they matter for clinicians	Markus R WENK, SLING
10.30 AM – 11.15 AM	Why would you use mass spec for clinical research/ applications? Practical examples of ongoing research	Chester DRUM
11.15 AM – 11.45 AM	Round table discussion	All
11.45 PM – 1.00 PM	<i>Lunch (with tour through SLING)</i>	
1.00 PM – 1.45 PM	Importance of study design and sample quality	Federico TORTA
2.00 PM - 2.45 PM	Basics of mass spectrometry (MALDI, ESI; untargeted vs. targeted)	Amaury CAZENAVE GASSIOT
3.00 PM – 3.30 PM	Regulatory guidelines & practical implications	Anne BENDT
3.30 PM – 4.00 PM	<i>Tea break with networking</i>	
	Summarise day 1	
4.00 PM – 5.00 PM	Introduction to overnight assignment (perform study design for a specific research question)	SLING

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LIPIDOMICS

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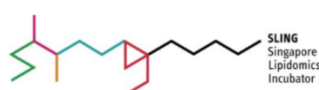
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Day 2: 5 April 2017, Wednesday

TIME	TOPIC	LECTURER
09.30 AM – 10.15 AM	Discussion of overnight assignment by participants	Participants
10.30 AM – 11.15 PM	More details on study design (sample size, controls, stratification & randomization, fasting vs non-fasting)	Federico TORTA
11.30 AM – 1.00 PM	<i>Lunch and networking</i>	
1.00 PM – 1.45 PM	Data I: medical databases & repositories, gene expression databases	Bo BURLA
2.00 PM – 2.45 PM	Data II: Statistics & correlations, batch effects, 'outliers', PCA & ROC, correlations with outcomes	CHOI Hyung Won
3.00 PM – 3.30 PM	Examples of current applications of mass spec in the clinics	LOH Tze Ping
3.45 PM - 4.15 PM	Examples of current clinical applications: MALDI-based pathogen detection; routine utilization, challenges & future applications	CHEW Kean Lee
4:30 PM – 5:00 PM	Project presentations by participants with feedback by experts	Participants
5.15 PM – 5.30 PM	Summarise day 2, closing thoughts and hand-out of certificates	SLING

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