

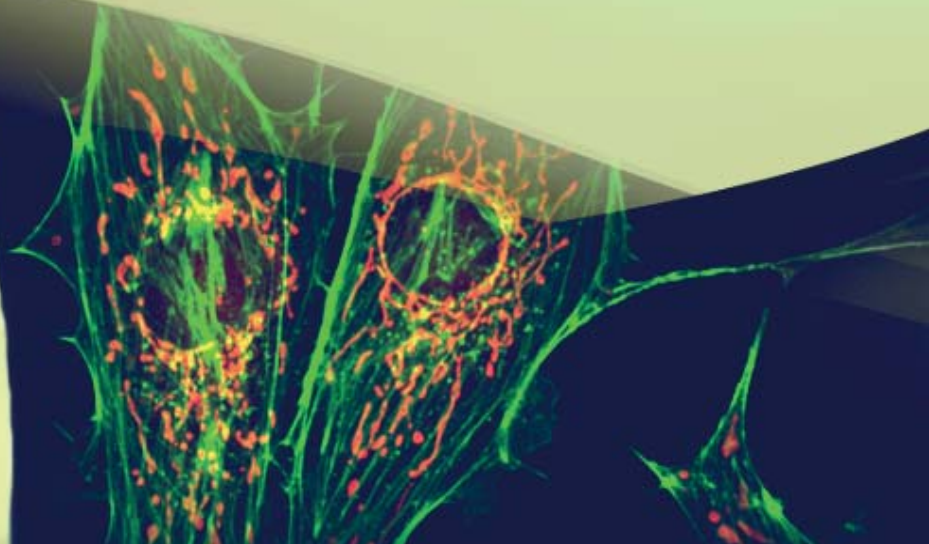
**8th HKU- PASTEUR CELL BIOLOGY COURSE**

**14 - 23 March 2018**

**HKU-Pasteur Research Pole, Hong Kong**

**Proteomics in Cell Biology  
of Human Diseases**

**Course Programme**



# PROGRAMME

## WEEK ONE:

### Wednesday, 14 March 2018

### Venue

8:30 – 9:00	<b>Welcome and Introduction to the Course</b> Course Directors	HRI-S7
9:00 – 11:30	<b>Students' self-presentations</b>	HRI-S7
11:30 – 14:00	<b>Visit to TARA Ocean</b>	
15:00 – 15:30	<b>Introduction to the Practical Sessions</b> Sumana Sanyal HKU – Pasteur Research Pole, Hong Kong SAR Rakesh Sharma The University of Hong Kong, Hong Kong SAR	HRI-S7
15:30 – 17:30	<b>W1: Practicum</b> Seeding HeLa cells producing virus-like particles of dengue or Zika virus for use the next day	HRI-S7
17:30 – 18:00	<b>Break</b>	
18:00 – 19:00	<b>Special Lecture: The Tara Oceans Project - Eco-Systems Biology at Planetary Scale</b> Chris Bowler Ecole Normale Superieure, Paris, France	HRI-S7
19:00 –	<b>Pizza Party</b>	HRI-7FI

### Thursday, 15 March 2018

8:30 – 10:30	<b>L1:</b> Mass spectrometry: Ionization techniques and their new developments Zhongping Yao The Hong Kong Polytechnic University, Hong Kong SAR	HRI-S7
10:30 – 11:00	<b>Break</b>	
11:00 – 13:00	<b>L2:</b> Chemoproteomics in the ubiquitin system for anti-cancer therapy Benedikt Kessler University of Oxford, UK	HRI-S7
13:00 – 14:00	<b>Lunch</b>	

## Thursday, 15 March 2018 ..... cont'd

- 14:00 – 16:00 **L3:** Role of ubiquitin-like proteins in host-pathogen interactions **HRI-S7**  
[Lilliana Radoshevich](#)  
 Institut Pasteur, France
- 16:00 – 16:30 **Break**
- 16:30 – 19:00 **W2: Practicum**  
 Trypsin digest of lysates for peptide generation Introduction to software analysis

## Friday, 16 March 2018

- 8:30 – 10:30 **L4:** Unearthing the secrets of T cell signaling by MS-based proteomics **HRI-S7**  
[Oreste Acuto](#)  
 University of Oxford, UK
- 10:30 – 11:00 **Break**
- 11:00 – 13:00 **L5:** Proteomic approaches to understand ER quality control and organelle biogenesis **HRI-S7**  
[Pedro Carvalho](#)  
 University of Oxford, UK
- 13:00 – 14:00 **Lunch**
- 14:00 – 16:00 **L6:** Applications of proteomics to biomarker discovery for disease diagnoses and prognoses **HRI-S7**  
[Terence Chuen-Wai Poon](#)  
 University of Macau, Macau
- 16:00 – 16:30 **Break**
- 16:30 – 19:00 **W3: Practicum**  
 Enrichment on TiO<sub>2</sub> beads; elution; silver staining Software analyses

## Saturday, 17 March 2018

- 10:00 – **W4: Practicum**  
 Immunoblotting for VLP-secretion from cells Sample preparation and practical demonstration to the use of mass spectrometers (core facility)

## WEEK TWO:

### Monday, 19 March 2018

9:00 – 11:00	<b>L7:</b> Contribution of the stroma secretome to tumour invasion <a href="#">Sara Zanivan</a> Cancer Research UK Beatson Institute, UK	<b>HRI-S7</b>
11:30 – 11:30	<b>Break</b>	
11:30 – 12:30	<b>L8:</b> Proteomic methods to study the extracellular matrix composition of normal tissues and tumors <a href="#">Alexandra Naba</a> University of Illinois at Chicago, USA	<b>HRI-S7</b>
12:30 – 13:30	<b>Lunch</b>	
13:30 – 14:30	<b>L9:</b> Application of "matrisomics" to human cancer <a href="#">Alexandra Naba</a> University of Illinois at Chicago, USA	<b>HRI-S7</b>
14:30 – 15:00	<b>Break</b>	
15:00 –	<b>W5: Practicum</b> Analyses of mass spectra using Proteome Discoverer/Scaffold Introduction to Mascot database search for peptide identification	<b>HRI-S7</b>

### Tuesday, 20 March 2018

9:00 – 11:00	<b>L10:</b> Interrogating the Cell Biology of Infection and Immunity with Alpaca Nanobodies <a href="#">Florian Schmidt</a> University of Bonn, Germany	<b>HRI-S7</b>
11:30 – 11:30	<b>Break</b>	
11:30 – 12:30	<b>L11:</b> Proteomic and genetic approaches to viral evasion (Part 1) <a href="#">Paul Lehner</a> Cambridge Institute for Medical Research, UK	<b>HRI-S7</b>
12:30 – 13:30	<b>Lunch</b>	
13:30 – 14:30	<b>L11:</b> Proteomic and genetic approaches to viral evasion (Part 2) <a href="#">Paul Lehner</a> Cambridge Institute for Medical Research, UK	<b>HRI-S7</b>
14:30 – 15:00	<b>Break</b>	
15:00 –	<b>W6: Practicum</b> Data analysis Identification of phosphorylation sites using PhosphoRS	<b>HRI-S7</b>

## Wednesday, 21 March 2018

9:00 – 11:00	<b>L12:</b> Quantitative multiplexed proteomics to investigate host-pathogen interactions <a href="#">Michael Weekes</a> Cambridge Institute for Medical Research, UK	<b>HRI-S7</b>
11:30 – 11:30	<b>Break</b>	
11:30 – 12:30	<b>L13:</b> Chemical proteomic approaches to studying protein lipidation (Part I) <a href="#">Remigiusz Serwa</a> Imperial College London, UK	<b>HRI-S7</b>
12:30 – 13:30	<b>Lunch</b>	
13:30 – 14:30	<b>L13:</b> Chemical proteomic approaches to studying protein lipidation (Part 2) <a href="#">Remigiusz Serwa</a> Imperial College London, UK	<b>HRI-S7</b>
14:30 – 15:00	<b>Break</b>	
15:00 –	<b>W7: Practicum</b> Data analysis Network analyses using String, Perseus and Cytoscape	<b>HRI-S7</b>

## Thursday, 22 March 2018

9:30 – 11:30	<b>L14:</b> Functional strategies to isolate ubiquitylated proteins during flavivirus infections <a href="#">Sumana Sanyal</a> HKU-Pasteur Research Pole, Hong Kong SAR	<b>HRI-S7</b>
11:30 – 13:00	<b>Lunch</b>	
13:00 –	<b>W8: Practicum</b> <b>Exam preparation</b>	<b>HRI-S7</b>

## Friday, 23 March 2018

All day	<b>Oral Exam</b>	<b>HRI-S7</b>
19:00	<b>Award Dinner</b> Tak Kee Chiu Chow Restaurant Shop G, Belcher's Street, Kennedy Town	

**Remarks:**    **L = Lecture**    **W = Workshop**

## Course Information

### Date and Venue

The Course will be held from **Wednesday 14 March 2018 to Friday 23 March 2018** in Room 7-03, 7<sup>th</sup> Floor, HKJC Building for Interdisciplinary Research, 5 Sassoon Road



### How to get there

If you need to take public transportation (including, bus, minibus and MTR) in Hong Kong, **Octopus Card is very convenient**. It can be purchased at "Customer Service" center at the Airport Express and any MTR station. It is refundable but will incur a HKD\$ 9 handling charge if return within 90 days. Please visit the following webpage for details:

<http://www.octopus.com.hk/customer-service/getting-a-refund/en/index.html>

The HKJC Building for Interdisciplinary Research can be easily reached by:

#### From Airport:

- Taxis, which are plentiful throughout Hong Kong and are all metered, relatively cheap, air-conditioned and clean.
- City Bus A10 (Please stop at "**Queen Mary Hospital**", then cross the street through the walkway bridge. Walk downhill about 5 min along Sassoon Road.

#### From Central

- Green line minibus
    - No. 8 departs from Central – Exchange Square
    - No.28 departs from Causeway Bay
- <<http://minibus.ampac.com.hk/>; <http://www.vectormap.com/iconhp/p/bus/m-hk.htm>>

Please wave your hand when you see the minibus and tell the minibus driver where you would like to stop. Please note that minibuses in Hong Kong do not stop if no one gets off or gets on.

- Public bus routes number 4, 7, 37, 40, 40M, 46X, 71, 90B, 91, 94, 970, 970X and 973 to stop at “Queen Mary Hospital”, then cross the street through the walkway bridge. Walk downhill about 5 min along Sassoon Road. You are suggested to not take 970, 970X and 973 if there are other buses available since it is more expensive.

<http://www.nwstbus.com.hk/home/default.aspx?intLangID=1>

#### **From Kennedy Town MTR Station**

- Green line minibus  
No. 23 & 23M get off at Queen Mary’s Hospital

#### **From Robert Black College/Main Campus**

Get onto Pokfulam Road from Haking Wong Building (MRT exit A1/A2)

- Green line minibus No. 8 & 28 get off at 5 Sassoon Road (in front of the building)  
No. 22 & 22M get off at Queen Mary’s Hospital
- Public bus routes number 4, 7, 37, 40, 40M, 71, 90B, 91, 94, 970, 970X and 973.  
<http://www.nwstbus.com.hk/home/default.aspx?intLangID=1>  
Get off at Queen Mary’s Hospital

## **Official Language**

The official language of the Course is English

## **Badges**

Participants will be provided with badges which should be worn at all times for admission to the meeting venues.

## **Arrange for Adverse Weather Conditions**

When Tropical Storm Warning Signal No. 8 (or a higher number) or the Rainstorm Black Warning Signal is hoisted, the following arrangements will apply:

### **(a) For day not yet started**

If either of the warnings is hoisted or in force at or after 6:00 am

All activities and talks before 2:00 pm will be cancelled automatically.

If either of the warnings is hoisted or in force at or after 11:00 am

All activities and talks commencing between 2:00 pm and 6:00 pm will be cancelled automatically.

### **(b) For day already started**

If Storm Warning Signal No. 8 is hoisted

All activities and talks will be suspended immediately.

If Black Rainstorm Warning Signal is hoisted

All activities and talks, except those held outdoors, will continue.

For outdoor activities and talks, the responsible staff members on the spot should suspend the activities immediately, ensure that all students are taken to a safe place, and remain there until it is safe for them to return home.

## Major Sponsors



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