

Bootcamp 2019 Timetable *(for registered students leading to 4-MC)*

MB5104: An Integrative Approach to Understand Cell Function

1st August to 10th August 2019

Venue:

TLS - T-Lab Seminar Rooms: 5A Engineering Drive 1, T-Lab Building, Level 5, S117411

CT - CREATE Theatre, Level 2, 1 CREATE Way, CREATE Tower, S138602

CS - CREATE Seminar Room, Level 2, 1 CREATE Way, CREATE Tower, S138602

Directions to CREATE Tower and T-Lab Building can be found:

T-Lab Building : temasek-labs.nus.edu.sg/about/about_visitor.php

CREATE Tower : create.edu.sg/contact-us

Date	Time	Topic	Lecturer	Venue
DAY 1				
Thursday 1st Aug 2019	3.45-4.15pm	Registration		Outside TLS
	4.15-4.45pm	Introduction to the bootcamp	Assoc. Prof. Toyama and Asst. Prof. Saunders	
	4.45-5.00pm	Safety briefing	Ms. Tan Bee Leng	
	5.00-7.00pm	The cell as a machine	Prof. Sheetz	
DAY 2				
Friday 2nd Aug 2019	9.00-10.00am	The cell cytoskeleton	Prof. Yu	TLS
	10.00-10.45am	Cell compartments	Prof. Jedd	
	10.45-11.15am	Break		
	11.15-12.00pm	Cellular shape and polarization	Asst. Prof. Motegi	TLS
	12.00-1.00pm	Lunch		
	1.00-4.00pm	Introduction to Matlab (I)	Asst. Prof. Saunders Dr. Makhija	TLS
	4.00-4.30pm	Group assignments	Assoc. Prof. Toyama Asst. Prof. Saunders	
	4.30-5.15pm	How to write well	Assoc. Prof. Monteiro	
	5.15-6.00pm	How to present well	Assoc. Prof. Monteiro	
	6.00pm~	Social event		
DAY 3				
Saturday 3rd Aug 2019	9.00-10.00am	How fluorescence works	Asst. Prof. Saunders	CT
	10.00-10.30am	History of GFP	Asst. Prof. Saunders	
	10.30-11.00am	Break		
	11.00-12.00pm	Introduction to microscopy	Prof. So	CT
	12.00-1.00pm	Lunch		
	1.00-6.00pm	Optics tutorial	Assoc. Prof. Kanchanawong Asst. Prof. Loh Asst. Prof. Saunders	CS

Date	Time	Topic	Lecturer	Venue
DAY 4				
Sunday 4th Aug 2019	9.00-12.00pm	Introduction to Matlab (II)	Asst. Prof. Saunders Dr. Makhija	CS
DAY 5				
Monday 5th Aug 2019	8.30-10.00am	Gene editing	Dr. Lieu	TLS
	10.00-10.30am	Break		
	10.30-11.30am	Genomes	Dr. Lieu	TLS
	11.30-12.30pm	Genomics worksheet	Dr. Lieu	
	12.30-1.30pm	Lunch		
	1.30-6.30pm	Sample preparation and wetlab SPS teaching labs (Block S16, #02-04)	Dr. Lieu	Blk S16
DAY 6				
Tuesday 6th Aug 2019	9.00-9.45am	Perturbing the cell	Assoc. Prof. Toyama	TLS
	9.45-10.30am	Super-resolution microscopy	Assoc. Prof. Kanchanawong	
	10.30-11.00am	Break		
	11.00-11.45am	Electron microscopy	Dr. Kostyuchenko	TLS
	11.45-12.30pm	Single molecule manipulation	Prof. Yan	
	12.30-1.30pm	Lunch		
	1.30-5.30pm	Microscopy	MBI (Asst. Prof. Saunders) CBIS (Assoc. Prof. Toyama) SMART (Dr. Makhija)	MBI, CBIS & SMART
	5.30-6.00pm	Break		
	6.00-8.00pm	Mechanopathology of diseases – from bench to bedside	Prof. Lim	TLS
DAY 7				
Wednesday 7th Aug 2019	Student Orientations - No lectures/classes			
DAY 8				
Thursday 8th Aug 2019	9.00-9.30am	Introduction to bacteria	Dr. Singh Dr. Mon	TLS
	9.30-10.00am	Introduction to yeast	Assoc. Prof. Yeong	
	10.00-10.30am	Introduction to <i>Drosophila</i>	Assoc. Prof. Wang	
	10.30-11.00am	Break		
	11.00-11.30am	Introduction to fish	Assoc. Prof. Winkler	TLS
	11.30-12.00pm	Introduction to plants	Asst. Prof. Chae	
	12.00-1.00pm	Lunch		
	1.00-2.00pm	Statistical methods for biology	Assoc. Prof. Carrasco	TLS
	2.00-3.00pm	Perils of the p-value	Asst. Prof. Saunders	
	3.00-5.00pm	Statistics in biology discussion with coding	Assoc. Prof. Toyama Asst. Prof. Saunders	
	5.00-5.30pm	Break		
	5.30-7.30pm	Evolution of complex traits	Assoc. Prof. Monteiro	TLS
DAY 9				
Friday 9th Aug 2019	9.00-12.00pm	Image analysis with matlab and image J	Asst. Prof. Saunders Dr. Makhija	TLS

Date	Time	Topic	Lecturer	Venue
DAY 10				
Saturday 10th Aug 2019	9.00-10.30am	Presentation	Assoc. Prof. Toyama Asst. Prof. Saunders Dr. Makhija Dr. Lieu	CT & CS
	10.30-11.00am	<i>Break</i>		
	11.00-12.30pm	Presentation	Assoc. Prof. Toyama Asst. Prof. Saunders Dr. Makhija Dr. Lieu	CT & CS
	12.30-1.30pm	<i>Lunch</i>		
	1.30-6.00pm	Writing and image analysis workshop	Assoc. Prof. Toyama	CS
	<i>End of bootcamp classes</i>			
Wednesday 14th Aug 2019	6.00pm	Deadline for submission of report		