

## Bootcamp 2018 Timetable *(for registered students leading to 4-MC)*

### MB5104: An Integrative Approach to Understand Cell Function

### 2nd August to 11th August 2018

#### Venue:

G - General lectures: CREATE Theatrette, Level 2, 1 CREATE Way, CREATE Tower, S138602

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

Directions to CREATE Tower can be found:

[create.edu.sg/contact-us](http://create.edu.sg/contact-us)

Date	Time	Topic	Lecturer	Venue
DAY 1				
Thursday 2nd Aug 2018	5.30-6.00pm	Registration	-	Outside G
	6.00-6.30pm	Introduction to the bootcamp	Assoc. Prof. Toyama and Asst. Prof. Saunders	G
	6.30-8.30pm	The cell as a machine	Prof. Sheetz	
DAY 2				
Friday 3rd Aug 2018	9.00-10.00am	The cell cytoskeleton	Prof. Yu	S
	10.00-10.45am	Cell compartments	Prof. Jedd	
	10.45-11.15am	Break		
	11.15-12.00pm	Cellular shape and polarization	Asst. Prof. Motegi	S
	12.00-1.00pm	Lunch		
	1.00-4.00pm	Introduction to Matlab (I)	Asst. Prof. Saunders Dr. Ong	S
	4.00-4.30pm	Group assignments	Assoc. Prof. Toyama Asst. Prof. Saunders	
	4.30-5.15pm	How to write well	Assoc. Prof. Toyama	S
	5.15-6.00pm	How to present well	Assoc. Prof. Toyama	
DAY 3				
Saturday 4th Aug 2018	9.00-10.00am	How fluorescence works	Prof. Wohland	G
	10.00-10.30am	History of GFP	Asst. Prof. Saunders	
	10.30-11.00am	Break		
	11.00-12.00pm	Introduction to microscopy	Prof. So	G
	12.00-1.00pm	Lunch		
	1.00-6.00pm	Optics tutorial	Prof. Wohland Asst. Prof. Loh Asst. Prof. Saunders	S
DAY 4				
Sunday 5th Aug 2018	9.00-12.00pm	Introduction to Matlab (II)	Asst. Prof. Saunders Dr. Ong	S
DAY 5				
Monday 6th Aug 2018	Student orientations - no lectures/classes			

Date	Time	Topic	Lecturer	Venue
DAY 6				
Tuesday 7th Aug 2018	8.30-10.00am	Gene editing	Dr. Lieu	G
	10.00-10.30am	Break		
	10.30-11.30am	Genomes	Dr. Lieu	G
	11.30-12.30pm	Genomics worksheet	Dr. Lieu	
	12.30-1.30pm	Lunch		
	1.30-6.30pm	Sample preparation and wetlab (Blk S16 #02-04)	Dr. Lieu	S16
DAY 7				
Wednesday 8th Aug 2018	9.00-9.45am	Perturbing the cell	Assoc. Prof. Toyama	G
	9.45-10.30am	Super-resolution microscopy	Assoc. Prof. Kanchanawong	
	10.30-11.00am	Break		
	11.00-11.45am	Electron microscopy	Dr. Kostyuchenko	G
	11.45-12.30pm	Single molecule manipulation	Prof. Yan	
	12.30-1.30pm	Lunch		
	1.30-5.30pm	Microscopy	MBI (Asst. Prof. Saunders) CBIS	MBI & CBIS
	5.30-6.00pm	Break		
	6.00-8.00pm	Biophysics	Prof. Matsudaira	G
DAY 8				
Thursday 9th Aug 2018	9.00-12.00pm	Image analysis with matlab and image J	Asst. Prof. Saunders Dr. Ong	S
DAY 9				
Friday 10th Aug 2018	9.00-9.30am	Introduction to bacteria	Dr. Desai	G
	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	G
	11.30-12.00pm	Introduction to plants	Asst. Prof. Lau	
	12.00-1.00pm	Lunch		
	1.00-12.00pm	Statistical methods for biology	Asst. Prof. Carrasco	S
	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	Dr. Connahs	G
DAY 10				
Saturday 11th Aug 2018	9.00-10.30am	Presentation	Assoc. Prof. Toyama Asst. Prof. Saunders Dr. Ong Dr. Lieu	G & S
	10.30-11.00am	Break		
	11.00-12.30pm	Presentation	Assoc. Prof. Toyama Asst. Prof. Saunders Dr. Ong Dr. Lieu	G & S
	12.30-1.30pm	Lunch		
	1.30-6.00pm	Writing and image analysis workshop	Assoc. Prof. Toyama Asst. Prof. Saunders	S
	End of bootcamp classes			
	Wednesday 15th Aug 2018	6.00pm	Deadline for submission of report	