

Bootcamp 2018 Timetable (*Open Lectures*)

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

| Date | Time | Topic | Lecturer | Venue |
|---------------------------|---------------------|---------------------------------|---|-----------|
| e | | | | |
| 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 |
| 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 |
| DAY 4 | | | | |
| Sunday 5th Aug 2018 | No lectures/classes | | | |
| DAY 5 | | | | |
| Monday 6th Aug 2018 | No lectures/classes | | | |
| 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 | |
| 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 | |
| | 6.00-8.00pm | Biophysics | Prof. Matsudaira | |

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|--------------------------|---------------------|--|---|-------|--|
| DAY 8 | | | | | |
| Thursday 9th Aug 2018 | No lectures/classes | | | | |
| 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 | |