

Bootcamp 2017 Timetable (for Open Lectures)

MB5104: An Integrative Approach to Understand Cell Function

4th August to 12th August 2017

Venue:

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

P - Perseverance Rooms 1 and 2, CREATE Enterprise Level 5, University Town

Directions to CREATE Tower and CREATE Enterprise can be found:

<http://www.create.edu.sg/contact-us>

DAY 1

| Date | Time | Content | Lecturer | Venue |
|------------------------------------|-----------------|--------------------------------------|--|-----------|
| Friday 4 th Aug 2017 | 8.00-8.30a.m. | Registration | | Outside G |
| | 8.30-9.00a.m. | Introduction to the bootcamp | Assoc. Prof. He and Asst. Prof. Saunders | G |
| | 9.00-10.00a.m. | The cell cytoskeleton | Prof. Yu | |
| | 10.00-10.30a.m. | <i>Break (coffee and discussion)</i> | | Outside G |
| | 10.30-11.15a.m. | Cell compartments | Adj. Assoc. Prof. Jedd | G |
| | 11.15-12.00p.m. | Cellular shape and polarization | Asst. Prof. Motegi | |

DAY 2

| Date | Time | Content | Lecturer | Venue |
|--------------------------------------|-----------------|--------------------------------------|--|-----------|
| Saturday 5 th Aug 2017 | 9.00-9.30a.m. | How fluorescence works | Prof. Wohland | G |
| | 9.30-9.45a.m. | History of GFP | Asst. Prof. Saunders | |
| | 9.45-10.30a.m. | Introduction to microscopy | Prof. So | |
| | 10.30-11.00a.m. | <i>Break (coffee and discussion)</i> | | Outside G |
| | 11.00-12.30p.m. | Optics tutorial | Prof. Wohland Asst. Prof. Saunders Asst. Prof. Loh | G |

DAY 3

| Date | Time | Content | Lecturer | Venue |
|------------------------------------|------|------------------|----------|-------|
| Sunday 6 th Aug 2017 | | <i>No lesson</i> | | |

DAY 4

| Date | Time | Content | Lecturer | Venue |
|------------------------------------|-----------------|--------------------------------------|----------------------|--------------|
| Monday 7 th Aug 2017 | 8.30-9.05a.m. | Introduction to bacteria | Dr. Foo Dr. Desai | G |
| | 9.05-9.40a.m. | Introduction to yeast | Assoc. Prof. Yeong | |
| | 9.40-10.15a.m. | Introduction to <i>Drosophila</i> | Assoc. Prof. Wang | |
| | 10.15-10.45a.m. | <i>Break (coffee and discussion)</i> | | Outside G |
| | 10.45-11.20a.m. | Introduction to fish | Dr. Tao | G |
| | 11.20-12.00p.m. | Introduction to plants | Asst. Prof. Lau | |

DAY 5

| Date | Time | Content | Lecturer | Venue |
|-------------------------------------|-----------------|--------------------------------------|--------------------------|--------------|
| Tuesday 8 th Aug 2017 | 9.00-9.45a.m. | Perturbing the cell | Asst. Prof. Toyama | G |
| | 9.45-10.30a.m. | Super-resolution microscopy | Asst. Prof. Kanchanawong | |
| | 10.30-11.00a.m. | <i>Break (coffee and discussion)</i> | | Outside G |
| | 11.00-11.45a.m. | Electron microscopy | Dr. Kostyuchenko | G |
| | 11.45-12.30p.m. | Single molecule manipulation | Prof. Yan | |

DAY 6

| Date | Time | Content | Lecturer | Venue |
|---------------------------------------|------|------------------|----------|-------|
| Wednesday 9 th Aug 2017 | | <i>No lesson</i> | | |

DAY 7

| Date | Time | Content | Lecturer | Venue |
|---------------------------------------|-----------------|--------------------------------------|---|--------------|
| Thursday 10 th Aug 2017 | 9.00-10.00a.m. | Gene editing | Dr. Lieu | G |
| | 10.00-10.30a.m. | Genomes | Prof. Tucker-Kellogg | |
| | 10.30-11.00a.m. | <i>Break (coffee and discussion)</i> | | Outside G |
| | 11.00-11.30a.m. | Genomes | Prof. Tucker-Kellogg | G |
| | 11.30-12.30p.m. | Genomics worksheet | Prof. Tucker-Kellogg Assoc. Prof. He Dr. Lieu | |

DAY 8

| Date | Time | Content | Lecturer | Venue |
|-------------------------------------|-----------------|---|---|--------------|
| Friday 11 th Aug 2017 | 9.00-9.45a.m. | Statistical methods for biology | Prof. Koehl | G |
| | 9.45-10.15a.m. | Perils of the p-value | Asst. Prof. Saunders | |
| | 10.15-10.45a.m. | Theoretical modeling in biology | Asst. Prof. Carrasco | |
| | 10.45-11.15a.m. | <i>Break (coffee and discussion)</i> | | Outside G |
| | 11.15-12.30p.m. | Statistics and modeling problem solving | Prof. Koehl Asst. Prof. Saunders Asst. Prof. Carrasco | G |