

Hydra Workshop Schedule, April 2019

Location: Marine Biological Laboratory

Instructors: Celina Juliano (UC Davis) and Jacob Robinson (Rice)

Teaching Assistants: Abby Primack (UCD), Yash Abeykoon (UCD), and Krishna Badhiwala (Rice)

Sunday March 31 – Suggested Arrival

Monday April 1

9:00 AM Lecture: Introduction to *Hydra*
10:30 AM Handling and culturing *Hydra*
12:00 PM Lunch
1:00 PM Regenerating *Hydra* from single cell suspensions
3:00 PM Coffee/Tea Break
4:30 PM Regenerating *Hydra* from single cell suspensions
6:30 PM Dinner
8:00 PM Grafting
9:00 PM Free Time

Tuesday April 2

9:00 AM Lecture: Imaging and Phenotyping
10:00 AM Setup behavioral tracking
12:00 PM Lunch
1:00 PM Immobilization and structural imaging
3:00 PM Coffee/Tea Break
3:30 PM Microfluidics and functional imaging
5:00 PM Chemical stimulation
6:30 PM Dinner
8:00 PM Analyze behavioral data
9:00 PM Free Time

Wednesday April 3

9:00 AM Lecture: Transgenics and Functional Genomics
10:00 AM Embryo microinjection
12:00 PM Lunch
1:30 PM Embryo microinjection
3:00 PM Coffee/Tea Break
3:30 PM Embryo microinjection
5:00 PM Observe grafted and re-aggregated animals
7:30 PM Dinner and Captain Kidd

Thursday April 4 – Suggested Departure