2021 MCSB Boot Camp Schedule

Week 1

Mon. Aug 23		
Time		Room
8:30 – 9:30	Welcome (Jun Allard); Program intro (Tina Rimal)	BS 3, 2120
9:30 – 9:45	**Break**	
9:45 – 12:45	Basic lab skills - Notebooks, pipetting, solutions, lab equipment, lab etiquette (Emi Embler)	Lander lab
12:45 – 1:45	**Lunch**	
1:45 – 2:45	"This View of Life" (Kyle Stanford)	BS 3, 2120
2:45 – 3:00	**Break**	
3:00 – 6:00	Coding practices including version control (Jun Allard)	BS 3, 2120
Tue. Aug 24		
8:30 – 9:30	Biochemistry (Felix Grun)	BS 3, 2120
9:30 – 9:45	**Break**	
9:45 – 12:45	Matlab Basics (Jun Allard)	BS 3, 2120
12:45 – 1:45	**Lunch**	
1:45 – 2:45	Molecular Biology Approaches (Rahul Warrior)	BS 3, 2120
2:45 – 3:00	**Break**	
3:00 – 6:00	Bio Lab – bacteria (transformation; streak)	Lander lab
Wed. Aug 25		
8:30 – 9:30	Chromosomes and Chromatin (Kyoko Yokomori)	BS 3, 2120
9:30 – 9:45	**Break**	
9:45 – 12:45	Modeling and simulation case study (Jun)	BS 3, 2120
12:45 – 1:45	**Lunch**	
1:45 – 2:45	Intro to Sys Bio (Arthur Lander)	NS 1, 1114
2:45 – 3:00	**Break**	
3:00 – 6:00	Paper assignment Meet the tutors	NS 1, 1114
Thurs. Aug 26		
8:30 – 9:30	Synthetic Biology (Chang Liu)	BS 3, 3120
9:30 – 9:45	**Break**	
9:45 – 12:15	Bio Lab – bacteria (mini prep); TC	Lander lab
12:15 – 1:15	**Lunch**	
1:15 – 1:45	Xenopus (Ken Cho)	BS 3, 3120
1:45 – 2:15	Hydra - **Pending**	BS 3, 3120
2:15 – 2:45	C. elegans (Olivier Cinquin)	BS 3, 3120
2:45 – 3:00	**Break**	
3:00 – 6:00	Numerical calculus in Matlab (Jun)	BS 3, 3120
Fri. Aug 27		
8:30 – 9:00	Drosophila (Grace Lee)	BS 3, 3120
9:00 – 9:30	Zebrafish (Michael Parsons)	BS 3, 3120
9:45 – 10:15	Mouse (Shimako Kawauchi)	BS 3, 3120
10:15 – 10:30	**Break**	
10:30 – 12:45	Bio Lab –TC treatment, TRIZOL	Lander lab
12:45 – 1:45	**Lunch**	

1:15 – 1:45	Kevin Beier	BS 3, 3120
1:45 – 2:15	Grace Lee	BS 3, 3120
2:15 – 2:45	Mike Hicks	BS 3, 3120
2:45 – 3:00	**Break**	
3:00 –	1st year faculty mentor meeting	NS 1, 1114

Week 2

Mon. Aug 30		
8:30 – 9:30	Ecology, Evolution, and Population Genetics (Anthony Long) - **Pending**	BS 3, 2120
9:30 – 9:45	**Break**	
9:45 – 12:45	Bio Lab: cDNA syn, RT	Lander lab
12:45 – 1:45	**Lunch**	
1:45 – 2:15	Vivek Swarup	NS 2, 4201
2:15 – 2:45	Anya Grosberg	NS 2, 4201
2:45 – 3:00	**Break**	
3:00 – 6:00	Classical mathematical biology (Jun Allards)	NS 2, 4201
Tues. Aug 31		
8:30 – 9:30	**TBD**	NS 2, 4201
9:30 – 9:45	**Break**	
9:45 – 12:45	Bio lab: set up QPCR	Lander lab
12:45 – 1:45	**Lunch**	
1:45 – 2:45	Yoga vs Yogurt: The human microbiome in health and disease (Katrine Whiteson)	NS 2, 4201
2:45 – 3:00	**Break**	
3:00 – 6:00	Bio lab: analysis	NS 2, 4201
Wed. Sept 1		
9:00 – 9:30		BS 3, 2120
9:30 – 10:00	Dequina Nicholas	BS 3, 2120
10:00 – 10:15	**Break**	
10:15 – 12:00	Tutor time	
12:00 – 1:00	**Lunch**	
1:00 – 2:00	Stem Cells and Aging (Olivier Cinquin)	NS 2, 4201
2:00 – 2:15	**Break**	
2:15 – 5:15	Language zoo Part I: Jupyter, C++, Julia (Jun)	NS 2, 4201
Thurs. Sept 2		
8:30 – 9:30	Cancer signaling and Genomics (Scott Atwood)	BS 3, 2120
9:30 – 9:45	**Break**	
9:45 – 12:00	Bio lab – Gel electrophoresis	Lander lab
12:00 – 1:00	**Lunch**	
1:00 –	UCI Rec TeamUp	Anteater Rec Center
Fri. Sept 3		
8:30 – 9:30	Biomechanics (Medha Pathak)	NS 2, 4201
9:30 – 9:45	**Break**	
9:45 – 12:00	Peer mentoring	NS 2, 4201
12:00 – 1:00	**Lunch**	
1:00 – 1:30	Tom Schilling	NS 2, 4201
1:30 – 2:00	Kyoko Yokomori	NS 2, 4201

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2:00 – 2:15	**Break**	
2:15 – 5:15	Language zoo Part II (Jun Allard)	NS 2, 4201

Week 3

	Mon. Sept 6	
	Labor Day!!!	

	Tues. Sept 7	
8:30 – 9:30	Gene Expression (Evgeny Kvon)	BS 3, 2120
9:30 – 9:45	**Break**	
9:45 – 12:00	Mass Spec Facility tour	Mass Spec Facility
12:00 – 1:00	**Lunch**	
1:00 – 2:00	Stem Cells (Max Plikus)	NS 2, 4201
2:00 – 2:15	**Break**	
2:15 – 5:15	Math/Computational overflow (Jun Allard)	NS 2, 4201

	Wed. Sept 8	
8:30 – 9:30	Elements of chemical physics: binding and diffusion (Enrico Gratton)	NS 2, 4201
9:30 – 9:45	**Break**	
9:45 – 12:45	Mathematica I (Taborek)	NS 2, 4201; CCBS conf; BS 3 2120
12:45 – 1:45	**LUNCH**	
1:45 – 2:15	Jing Zhang	NS 2, 4201
2:15 – 2:45	Chris Miles	NS 2, 4201
2:45 – 3:00	**Break**	
3:00 – 6:00	Mathematica II (Taborek)	NS 2, 4201; CCBS conf; BS 3 2120

	Thurs. Sept 9	
8:30 – 9:30	Confocal Microscopy and introduction to Fluorescence Lifetime Imaging Microscopy (Michelle Digman)	NS 2, 4201
9:30 – 9:45	**Break**	
9:45 – 12:45	Mathematica III (Taborek)	NS 2, 4201; CCBS conf; BS 3 2120
12:45 – 1:45	**Lunch**	
1:45 – 2:45	Systems biology approaches to neuroscience (Vivek Swarup)	NS 2, 4201
2:45 – 3:00	**Break**	
3:00 – 6:00	Mathematica IV (Taborek)	NS 2, 4201; CCBS conf; BS 3 2120

	Fri. Sept 10	
	Free morning!!!	
1:00 – 5:00	Lab part 1: Intranuclear protein dynamics to assess chromatin architecture. Lab part 2: Mapping the chromatin compaction with FLIM	LFD tour/workshop

Week 4

	Mon. Sept 13	
9:00 – 12:00	Genomics workshop	Bren Hall - **Pending**
12:00 – 1:00	**Lunch**	
1:00 – 5:00	Genomics workshop	

	Tues. Sept 14	
	PRESENTATION PREP/FREE DAY	

	Wed. Sept 15	

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9:00 – 10:00	Student Presentations #1 - 3	NS 1, 1114 (all presentations)
10:00 – 10:20	Break	
10:20 – 11:20	Student Presentation # 4 - 6	
11:20 – 1:00	Lunch	
1:00 – 2:00	Student Presentations #7 - 9	
2:00 – 2:20	Break	
2:20 – 3:20	Student Presentations #10 - 12	
3:20 -	Concluding remarks (Arthur Lander)	