

<i>Date</i>	<i>Time</i>	<i>Session</i>	<i>Topic</i>	<i>Instructor</i>	<i>Location</i>	
28-Jul	8:15	8:45	Registration	LaRita, Jiang, Kevin, Juan	Avery 115	
	8:45	9:00		Juan		
	9:00	9:15	Welcome	Stephen		
	9:15	9:30		David		
	9:30	10:05	Talk 1	Steve		
	10:05	10:40	Talk 2	Juan		
	10:40	11:00	Break			
	11:00	11:35	Talk 3	Adam		
	11:35	11:50	Discussion	All		
	12:00	13:00	Lunch			Schorr Center 2nd floor
	13:00	13:45	Lecture	Steve	Avery 115	
	13:45	14:15	Lecture	Steve		
	14:15	14:45	Lecture	Juan		
	14:45	15:00	Break			
	15:00	15:45	Lab	Juan, Jiang, Kevin	Avery 20,21	
15:45	17:00	Lecture	Juan, Jiang, Kevin			
17:00	17:30	Help Session	Jiang			
29-Jul	8:30	9:00	Lecture	Juan	Avery 20,21	
	9:00	9:30	Lecture	Steve		
	9:30	9:45	Talk	Jitender		
	9:45	10:45	Lab	Jingchao, Natasha, Sairam		
	10:45	11:00	Break			
	11:00	11:30	Lecture	Juan		

11:30	12:00	Lab	Galaxy	Juan, Jingchao	
12:00	13:00	Lunch			Schorr Center 2nd floor
13:00	13:45	Lecture	Structural variation detection (CNVs, translocation)	Chi	Avery 20,21
13:45	14:30	Lecture	Functional annotation (resequencing vs new-species sequencing)	Juan	
14:30	14:45	Break			
14:45	16:45	Lab	Lab project: assembly of the given chromosome and annotation	Natasha, Sairam	
16:45	17:00	Lab	Summary	Juan, Jiang, Kevin	
17:00	17:30	Help Session	Additional assistance	Jiang	

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8:30	9:00	Lecture	Microarray data preprocessing and normalization	Chi	Avery 20,21
9:00	9:30	Lecture	RNA-seq data preprocessing and expression summarization	Chi	
9:30	10:30	Lab	Tools (e.g. Tophat and Cufflink) and Galaxy	Jingchao, Juan, Sairam, Natasha	
10:30	10:45	Break			
10:45	11:15	Lecture	Differential expression analysis	Chi	
11:15	12:00	Lab	Data analysis using Mev or command-line based scripts	Jiang, Kevin	
12:00	13:00	Lunch			Schorr Center 2nd floor
13:00	13:30	Lecture	Clustering analysis	Juan	Avery 20,21
13:30	14:30	Lab	Clustering analysis	Kevin, Jiang, Juan	
14:30	14:45	Break			
14:45	15:15	Lecture	Functional and pathway enrichment analysis	Juan	
15:15	16:15	Lab	Cytoscape (and DAVID/KOBAS)	Jiang, Kevin, Juan	
16:15	17:00	Discussion	Wrap-up	Juan, Jiang, Kevin	