

**Monday, July 17**

Time	Topic	
8:30 - 9:00	<b>Registration</b>	
9:00 - 9:15	Welcome	
9:15 - 10:00	Lecture: Introduction to modern sequencing technologies and RAD-seq	Julian Catchen
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:00	Lecture: Introduction to modern sequencing technologies and RAD-seq, continued	JC & Nicolas Rochette
12:00 - 14:00	<b>Lunch</b>	
14:00 - 15:00	Introduction to UNIX, Part 1	JC & NR
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 17:00	Introduction to UNIX, Part 1, continued	
17:00 - 19:00	Poster Session (with wine/beer)	

**Tuesday, July 18**

Time	Topic	
9:00 - 10:00	Lecture: Molecular issues: Sample quality, library prep, alternative sequencing techniques.	Julian Catchen
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:00	Introduction to UNIX, Part 2	JC & Nicolas Rochette
12:00 - 14:00	<b>Lunch (Lightning Talks?)</b>	
14:00 - 15:00	Introduction to UNIX, Part 2, continued	JC
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 15:45	Mini-Lecture: FastQ files, data quality control, and sample multiplexing	JC
15:45 - 18:00	Cleaning and demultiplexing RAD-seq data	JC & NR

**Wednesday, July 18**

Time	Topic	
9:00 - 10:00	Lecture: Parameter selection for building stacks <i>de novo</i>	Nicolas Rochette
10:00 - 10:30	<b>Coffee Break</b>	

10:30 - 12:00	<i>de novo</i> assembly of RAD tags without a genome for a STRUCTURE Analysis	JC & NR
12:00 - 14:00	<b>Lunch</b>	
14:00 - 15:00	Guest Seminar	TBA
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 18:00	<i>de novo</i> assembly of RAD tags without a genome for a STRUCTURE Analysis, continued	

### Thursday, July 18

Time	Topic	
9:00 - 9:15	Mini-Lecture: genome alignment and SNP calling	Julian Catchen
9:15 - 10:00	Referenced-aligned RAD tags for genome scanning and identifying signatures of selection	JC & NR
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:00	Referenced-aligned RAD tags for genome scanning and identifying signatures of selection, continued	JC & NR
12:00 - 14:00	<b>Lunch</b>	
14:00 - 15:00	Second Guest Seminar	TBA
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 18:00	Referenced-aligned RAD tags for genome scanning and identifying signatures of selection, continued	

### Friday, July 18

Time	Topic	
9:00 - 9:15	Mini-Lecture: RAD-seq for phylogenetics	Julian Catchen
9:15 - 10:00	<i>de novo</i> assembly of RAD tags with or without a genome for phylogenetic analysis	
10:00 - 10:30	<b>Coffee Break</b>	
10:30 - 12:00	<i>de novo</i> assembly of RAD tags with or without a genome for phylogenetic analysis, continued	JC & NR
12:00 - 14:00	<b>Lunch</b>	
14:00 - 15:00	<i>de novo</i> assembly of RAD tags with or without a genome for phylogenetic analysis, continued	JC & NR
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 17:00	Open Lab?	