Search for Selection Tutorial Schedule
June 3-7, 2019

Day 1: Tests of neutral trait divergence (WL Chapter 12)
8:00 Breakfast
8:45 Welcome and Introduction to NIMBioS, Suzanne Lenhart
9:00 Lecture 1: Introduction and Overview
10:30 Break
11:00 Lecture 2: Drift in the Mean of Quantitative Traits: Rate-based and Time-series Based Tests
12:30 Lunch
1:30 Lecture 3: Q_{st} vs F_{st}
3:00 Break
3:30 Lecture 4: Orr QTL tests and their Extensions with Applications to Genome Data
5:00 Reception

Day 2: Tests based on Molecular Data I (WL Chapters 8, 9)
8:00 Breakfast
8:45 Lecture 5: Background: The Neutral Theory (WL Chapters 2, 4)
10:15 Break
10:45 Lecture 6: Sweep Theory
12:15 Group Photo
12:25 Lunch
1:30 Lecture 7: Detecting selection with Markers. I. Overview
3:00 Break
3:30 Lecture 8: Detecting Selection with Markers. 2. Polymorphism-based Tests I

Day 3: Tests based on Molecular Data II (WL Chapters 9, 10)
8:00 Breakfast
8:45 Lecture 9: Detecting Selection with Markers. 3. Polymorphism-based Tests II
10:15 Break
10:45 Lecture 10: Selection Scans in Humans and Domesticated Organisms
12:15 Lunch
1:30 Lecture 11: Divergence-based tests 1: HKA and MK tests
3:00 Break
3:30 Lecture 12: Divergence-based tests 2: Rate of Adaptive Substitutions, Poisson Random Field Models

Day 4: Estimating Individual fitness (WL Chapter 29)
8:00 Breakfast
8:45 Lecture 13: Episodes of Selection and the Assignment of Fitness
10:15 Break
10:45 Lecture 14: Variance in Individual Fitness, Sexual Selection
12:15 Lunch
1:30 Lecture 15: Descriptions of Phenotypic Selection 1: Basics
3:00 Break
3:30 Lecture 16: Descriptions of Phenotypic Selection 2: Fitness surfaces

Day 5: Trait-fitness associations II (WL Chapter 30)
8:00 Breakfast
8:45 Lecture 17: Multivariate Selection 1: Basics
10:15 Break
10:45 Lecture 18: Multivariate Selection 2: Fitness Surfaces
12:15 Lunch and Depart

WL = Walsh and Lynch, *Evolution and Selection of Quantitative Traits*, Oxford (2018)