

## **Introduction to Quantitative Genetics, Module 9**

Monday 18 July – Wednesday morning 20 July

**Guilherme Rosa**, University of Wisconsin

**Bruce Walsh**, University of Arizona

All lectures are prerecorded and posted with notes on the SISG website

All times is Pacific Daylight Time (PDT)

Zoom link for all class discussions

<https://arizona.zoom.us/j/84126572053>

**Zoom link for open class meeting (open zoom forum for students to chat amongst themselves) M-F 5 to 8pm PDT**

<https://arizona.zoom.us/j/87933359534>

### **Monday 18 July**

#### **Morning**

1) **Quantitative Genetics overview** (Bruce)

2) **Resemblance Between relatives, Heritability** (Bruce)

Extra details: Draft Chapters 7 and 8 of Lynch, Visscher & Walsh (LVW)

10:00-11:30 (PDT) **Zoom discussion**/reviews/breakouts

Structure: 5 minute breaks every 20-25 minutes

#### **Afternoon**

3) **Inbreeding and cross breeding** (Bruce)

Extra details: Draft Chapters 12 and 13 of LVW

1:00-2:30 (PDT) **Zoom discussion**/reviews/breakouts

Structure: 5 minute breaks every 20-25 minutes

### **Tuesday 19 July**

#### **Morning**

4) **Artificial Selection** (Bruce)

Extra details: Chapter 13 of LW

5) **Correlated Characters** (Bruce)

10:00-11:30 (PDT) **Zoom discussion**/reviews/breakouts

#### **Afternoon**

6) **Estimation** (Guilherme)

1:00-2:30 (PDT) **Zoom discussion**/reviews/breakouts

**Wednesday 20 July**

**Morning**

7) **QTL/Association mapping** (Guilherme)

10:00-11:30 (PDT) **Zoom discussion**/reviews/breakouts