



Are you (or your student) new to molecular lab work? Could you or they benefit from an introduction to operating in a genetics lab?

The ANU EcoGenomics Lab (EBL) is offering a 3 day basic introduction course to molecular lab fundamentals for new Hons & PhD students without a strong genetics/ molecular undergrad or background. The course is **3 full days, April 3-5**, no charge.

**Note:** This intro is NOT designed for those students who are doing a predominantly molecular project and have had molec / genetics lab training at undergrad level, but rather students who have a more ecological /morphological background and are either new to genetics or who have a small genetic component to their project.

Schedule will be as follows:

### **Day 1.**

#### **Introduction to lab operations**

- PPE (Personal protective equipment)
- Molarity and how to make a chemical solution
- Good pipetting practice.
- Intro to agarose gels

#### **DNA Extraction Method 1: Silica column based kit**

### **Day 2:**

#### **DNA Extraction Method 2: Phenol / Chloroform**

#### **DNA Quantitation**

- Qubit fluorometer
- Nanodrop spectrophotometer

### **Day 3:**

**PCR Amplification:** Master Mixes, enzymes, reactions generally.

#### **Run agarose gels:**

- Of both DNA extractions and PCRs