D. magna / P. ramosa co-extraction (Day 1)

Introduction

This is day 1 of a 2 day protocol for co-extraction of D. magna and P. ramosa DNA from a single infected D. magna.

Materials

- (n) Daphnia samples
- (n) 1.5 mL Eppendorf tubes
 - Label each with the sample number and "S". The letter "S" indicates that this is the tube which will contain the un-lysed P. ramosa spores at the end of the procedure. DO NOT DISCARD.
- (n) clean pestles
- MilliQ water (room temperature)
- › Qiagen lysis buffer (room temperature)
- > Proteinase K (on ice)

Procedure

Ethanol removal from preserved sample, cell lysis

- 1. Transfer daphnia to labled 1.5 mL tube. Pipette off any transferred ethanol remaining on preserved sample.
- 2. Wash sample by adding 1 mL milliQ water, inverting 3 times, waiting 1 minute, and then pipetting off water. Daphnia should remain wet, but not sitting in water.
- 3. Add 100 uL cell lysis solution to daphnia and grind 50 times with mortar
- 4. Add 200 uL cell lysis solution (300 uL total) to sample and vortex for 2-3 seconds
- 5. Add 1.5 uL proteinase K, invert 25 times, and incubate at 55 °C overnight with moderate shaking (~800 rpm).