

Preparation of pupae for eclosion recording

Jun Ishigohoka

February 13, 2026

1 Background

To perform both eclosion phenotyping and genotyping of the same individual, we need to keep track of individual flies. To this end, we place individual pupae in a 96-well plate, and the closed plate will be monitored. Flies will eclose in each well, after which they will be sacrificed and processed for genotyping in the designated well.

2 Objectives

To prepare pupae in a 96-well plate for eclosion recording.

3 Materials

- 96-well plates [TODO: Product info]
- Fly vials (7 days after egg lay)
- Toothpicks
- Water in a petri dish

4 Methods

1. Using a toothpick, gently detach individual pupae from the side of the vial.¹
2. Place one pupa in one well of the 96-well plate.

¹Soaking the toothpick with water can help