

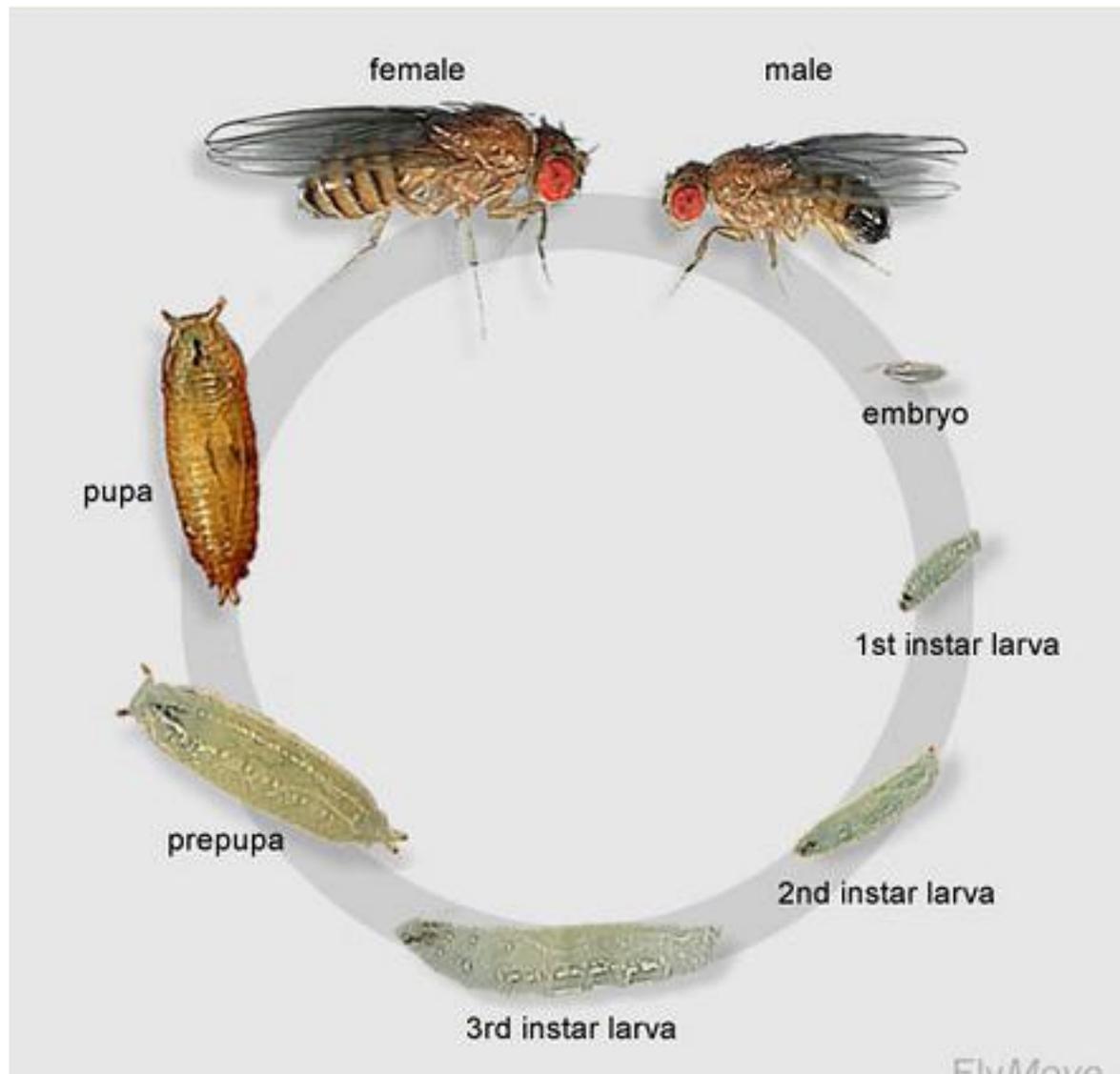
# Генная инженерия ЖИВОТНЫХ

Практикум  
ФББ МГУ – ЦКП ИБГ РАН  
2015

# Drosophila melanogaster



# Жизненный цикл



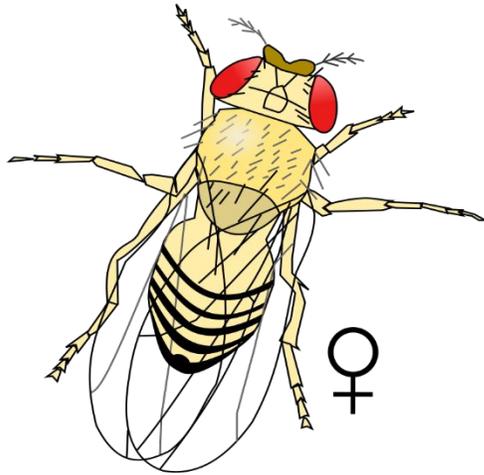
- Половозрелы на 7й день при температуре развития 28С

# Мальчики и девочки

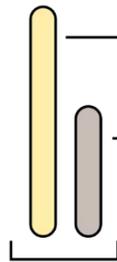
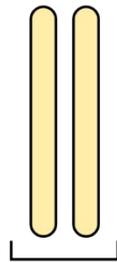
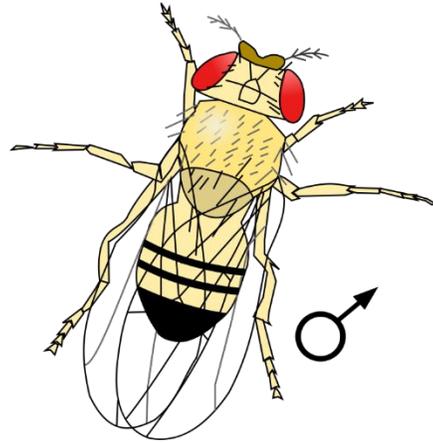
3.22 mm



Female



Male

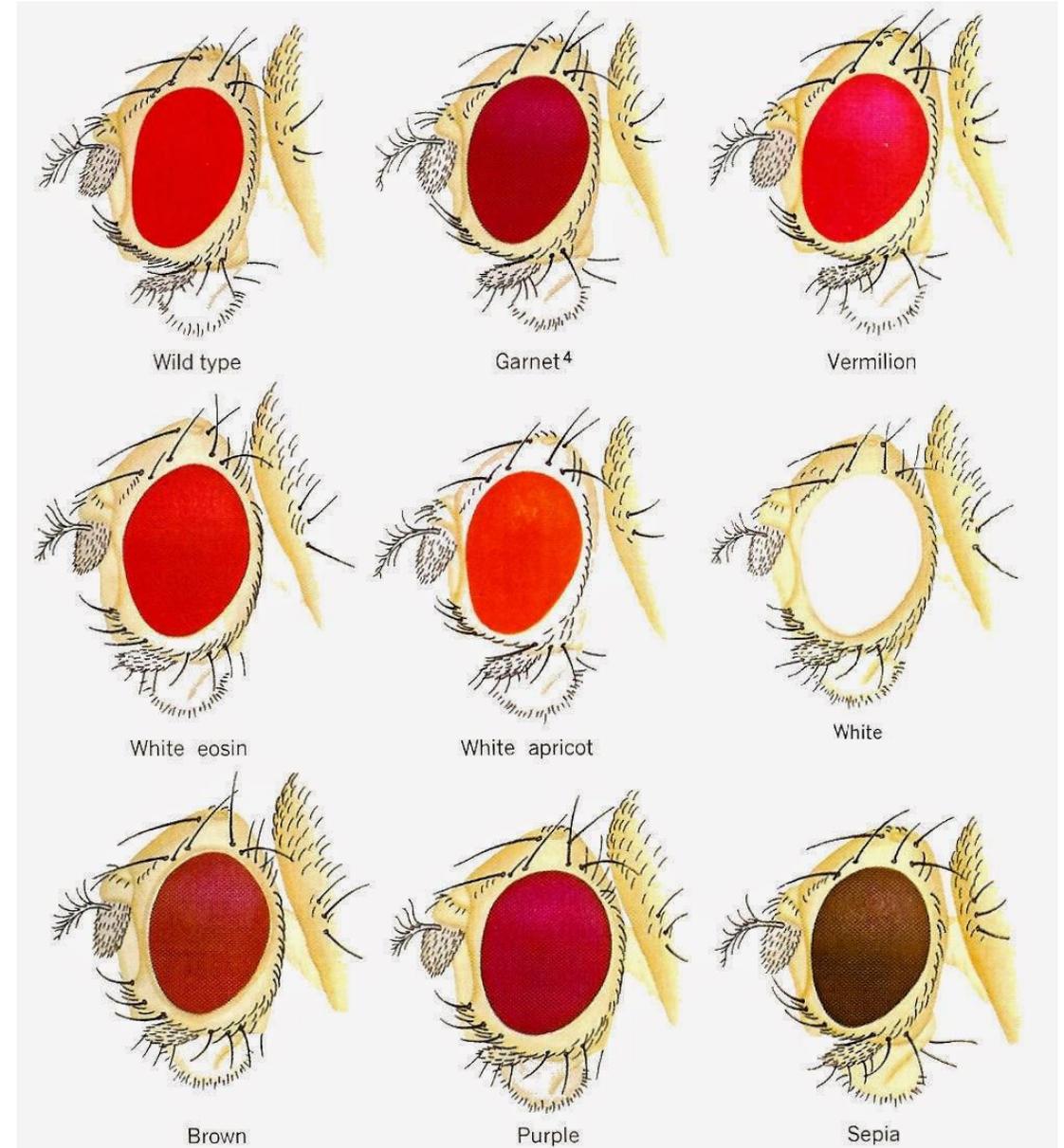


X chromosome

Y chromosome

Sex chromosomes

# Фенотипы: глаза

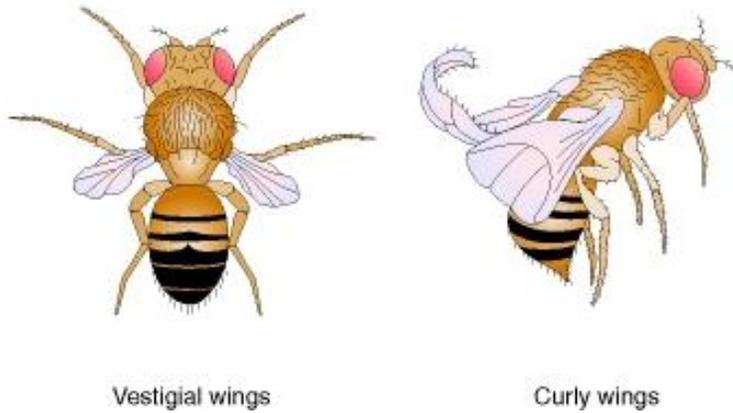
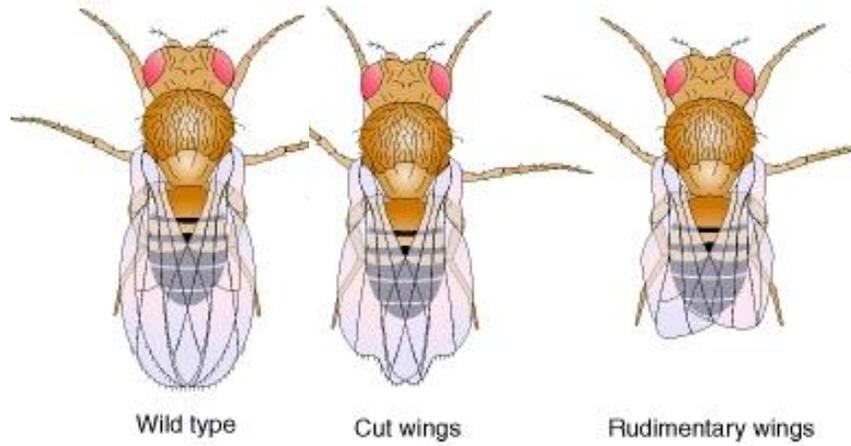


**Plate I.** Some eye colors in *Drosophila melanogaster*. (After E. M. Wallace, in *An Introduction to Genetics* by Sturtevant and Beadle, Saunders, 1938.)

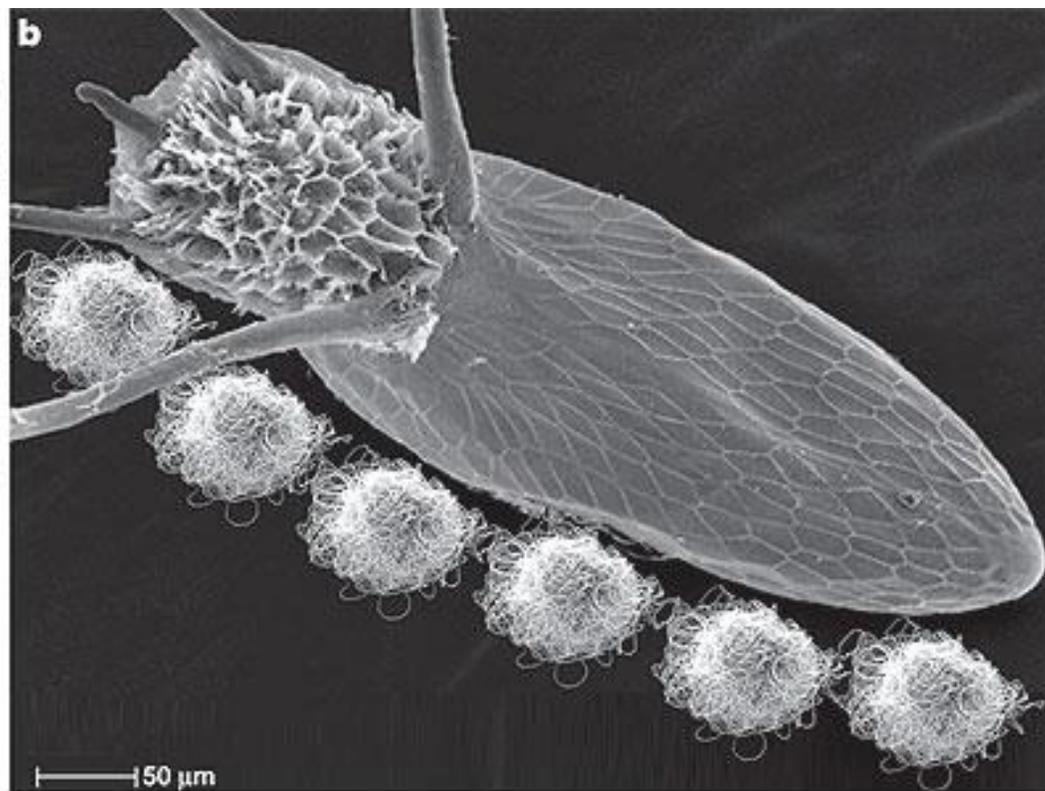
# Фенотипы: тело



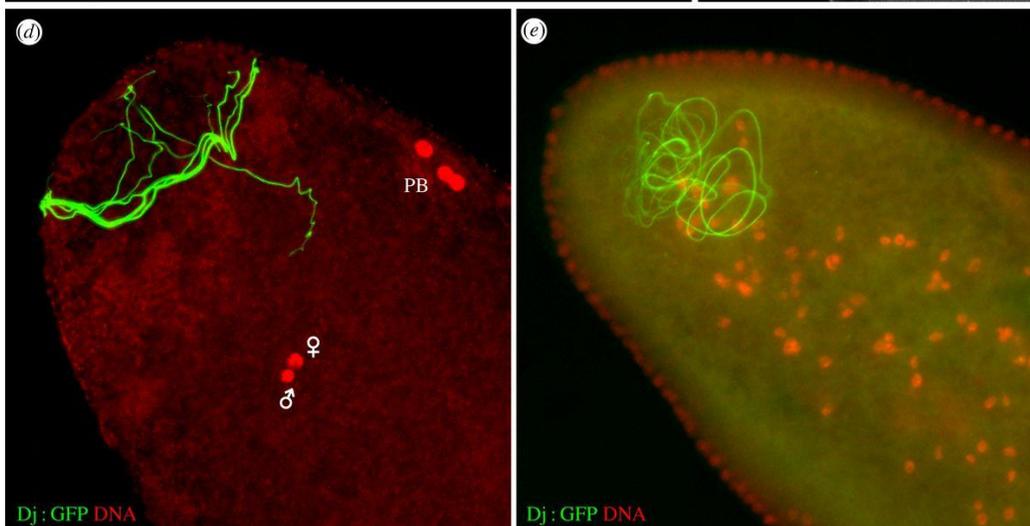
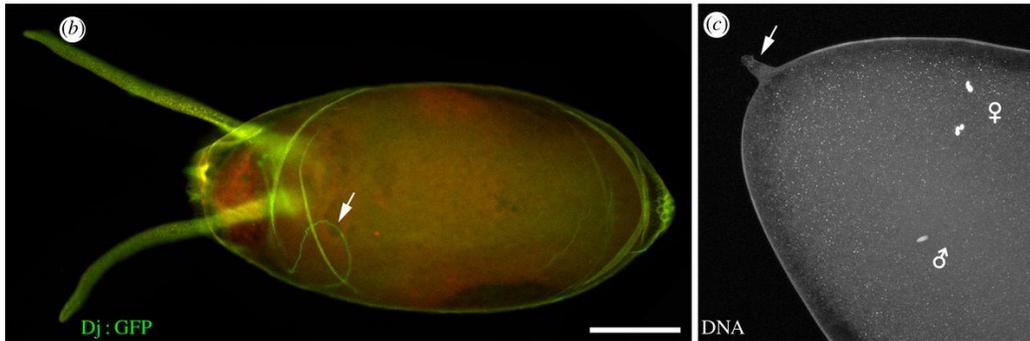
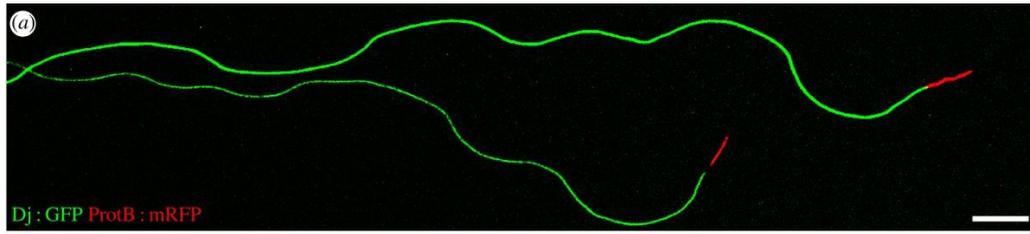
# Фенотипы: крылья



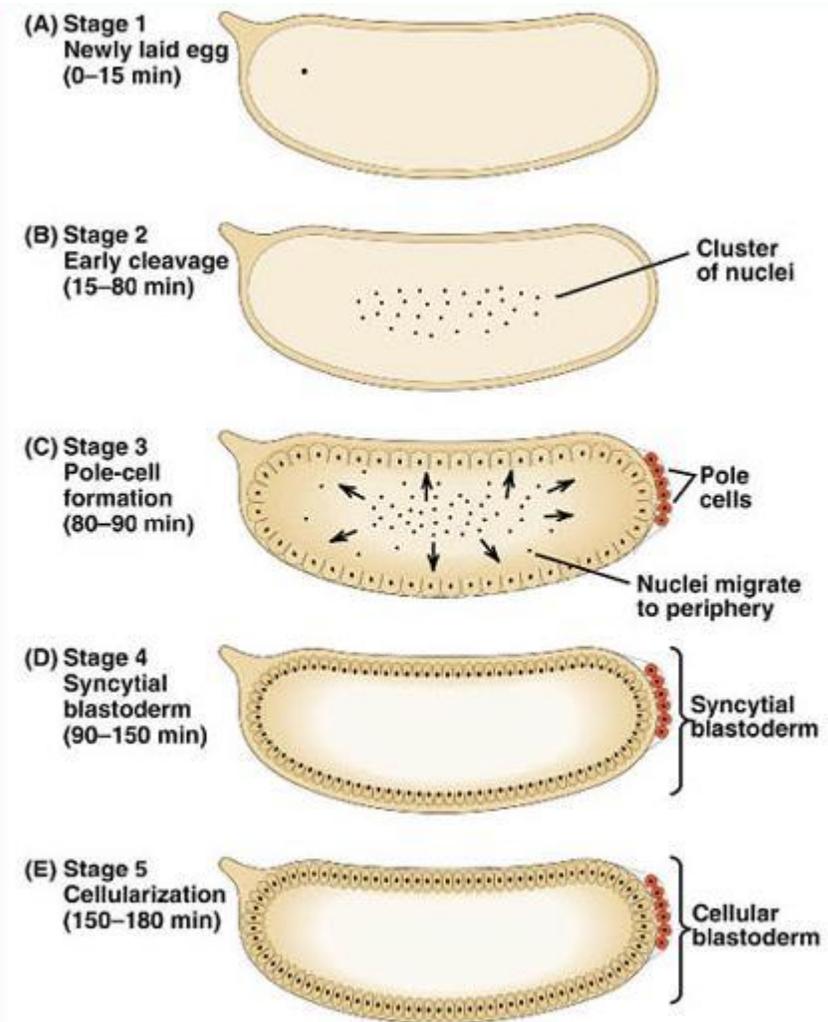
# Яйцеклетки и сперматозоиды



# Оплодотворение



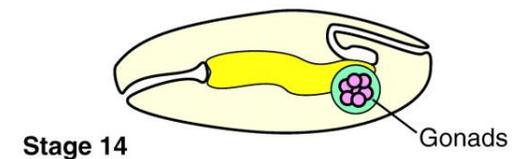
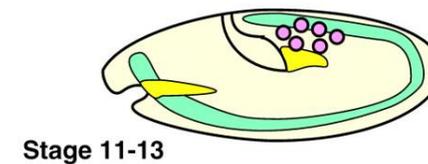
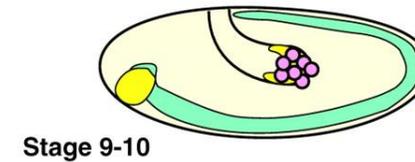
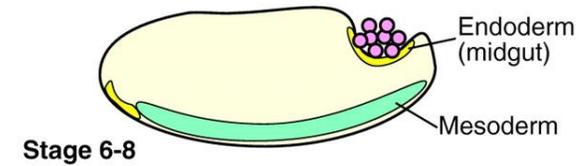
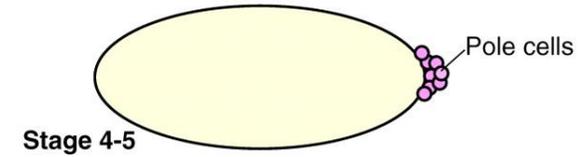
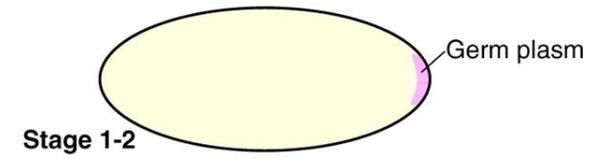
# Эмбриональное развитие



- Полилецитальная, центролецитальная яйцеклетка
- Поверхностное дробление
- Образование первых клеток через 90 мин

# Успеть за 80 минут

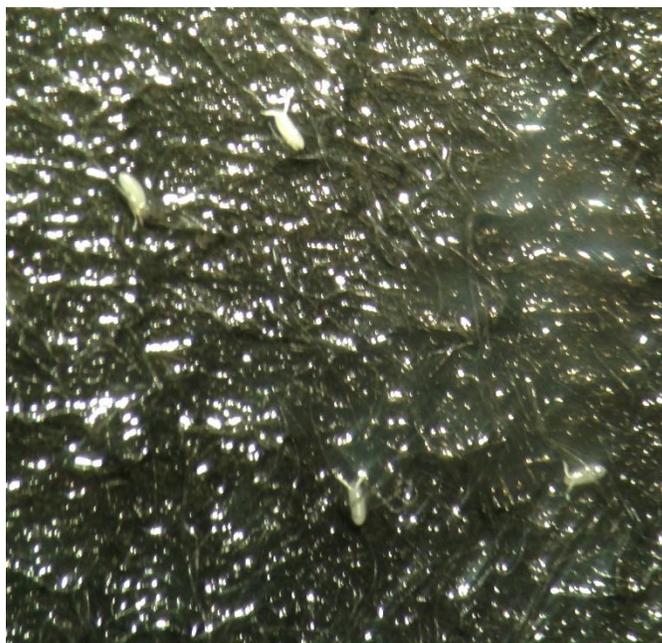
- Полярные клетки – предшественники клеток зародышевой линии



# Сбор эмбрионов и культивирование



Egg lay chamber.



# Микроинъекции

