Looking at a Real Cell

In numerous diagrams the cell is seen as a well ordered place. Unfortunately that is far from the truth. In this exercise you will realize what a real cell looks like, specifically focusing on the sperm and egg cells of fruit flies.

**Before the presentation begins** answer the following questions.

1. Where do you think mitochondria are located on a sperm cell? (tail or head)

2. What organelle(s) do you think can be “tagged” to find meiosis occurring within the testes?

3. What role do centrosomes have in meiosis?

**Answer the following questions during and after the presentation.**

1. Where were mitochondria located on a sperm cell? Why would their location make sense?

2. What organelles were tagged in the testes? What organelles were involved in meiosis?