

Mitosis under the Microscope Lab

In this lab you will observe onion root tips and whitefish blastula under the microscope to observe the stages of mitosis

Materials

Compound Microscope

Onion (Allium) Root Tip Prepared Slides

Fish Blastula Prepared Slides

PART 1: MITOSIS IN PLANT CELLS - ONION (Allium) ROOT TIP SLIDES

Examine the onion root tip prepared slide under the microscope. The tip of the onion root elongates via mitosis so you should be able to identify all the stages of mitosis under the microscope. The root tips have been stained so that the chromosomes are clearly identifiable. See if you can locate all the plant mitotic stages under the microscope.

[\(Onion Mitosis Stages\)](#)

PART B: MITOSIS IN ANIMAL CELLS - WHITEFISH (Leucichthys) BLASTULA SLIDES

Examine the Whitefish blastula prepared slide under the microscope. Mitotic activity is the most rapid during early animal development, such as the blastula stage. A blastula is basically a ball of rapidly dividing cells and mitotic stages can be seen readily. See if you can locate all the animal mitotic stages under the microscope.

[\(Whitefish Mitosis Stages\)](#)