

Zebrafish Fin Regeneration

Materials Needed

- **Small fish net** to transfer fish between separate tanks during experiments
- **Tank of diluted Tricaine** will be used as an anesthetizing agent used to slow zebrafish movement for amputation
- **Gloves** must be worn at all times because Tricaine will be used in this experiment
- **Dissecting scissors** for amputating caudal fin from fish
- **Blunt forceps** are used to hold zebrafish during amputation
- **Petri dishes** will serve as the platform on which the zebrafish will have its fin clipped and photographed
- **Recovery beaker** will be necessary to wash any remaining Tricaine from the fish after the amputation
- **Transfer pipet** for pushing water through the zebrafish's gills after being placed in the recovery tank

Equipment Needed

- **Dissecting microscope**- To observe anatomical features of the zebrafish at various points in the experiment
- **Digital camera**- Pictures will be taken at the time of amputation and at certain points of regeneration

Techniques Used

- **Fin clip**
- **Use of dissecting microscope**