



Hello! I am a *Danio rerio*. Most people call me a "zebrafish". I am a model organism used by Duke University to research the impacts of exposure to chemicals such as pesticides and flame retardants.

Frequently Asked Questions

- 1. Why are you such a great model?
 - Visible embryonic development
 - Rapid development
 - Mapped genome
 - Short generation time
 - High fertility
 - Easy to maintain in the lab
 - Possess same organs as other vertebrates
- 2. What types of research are you used for?
 - Toxicology
 - Neurodevelopment
 - Behavior/Learning
 - Pharmacology
 - Early development
- 3. Are you half zebra, half fish? No.

Check out this **cool video** for more information!

Startle Test









The startle/tap test is used to assess anxiety in fish. A little hammer taps the bottom of the fish plate. Over time the fish should get used to the tapping and become less anxious. Scientists are looking at the ability of a fish exposed to chemicals to habituate, or get used to the tapping.

Eddins et al. Zebrafish provide a sensitive model of persisting neurobehavioral effects of developmental chlorpyrifos exposure: comparison with nicotine and pilocarpine effects and relationship to dopamine deficits, Neurotoxicology and Teratology, Vol. 32, Issue 1. 2010. P. 99-108.

Living



Kathmandu, Nepal Hometown



Durham, North Carolina Current City

Basic Information

Sex Male

Birthday March 22

Favorite Food Insects, zooplankton

Lifespan 3-5 years Size 6 cm max.

Habitat Freshwater systems

Employment







Dr. Heather Stapleton's lab

Contact Information

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