

# Mita Kale

The Effects of Infliximab on the Fibrosis Response  
of Threespine Stickleback Fish

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**UCONN**

I ran an experiment to see the effects of the monoclonal antibody drug Infliximab on the fibrosis response of threespine stickleback fish. Some of these fish exhibit an immune response where their organs fibrose and begin to stick together after infection from a parasite. Humans also have a fibrosis response, and there are certain drugs that are available to treat this. Infliximab was chosen to see if it would significantly suppress the fibrosis response in the stickleback. In order to provoke the fibrosis response, we used injections of aluminum phosphate. All injections for the four treatment groups were given intraperitoneally. If this drug is effective, we could potentially run experiments where certain immune responses could be observed in isolation.