Protein effects on specific dynamic action (SDA) in the estuarine killifish, *Fundulus heteroclitus*

I used the estuarine killifish, *Fundulus heteroclitus*, to determine how varying amounts of protein in diet affect specific dynamic action (SDA). The fish were fed diets of 100% carbohydrate mix, a 50:50 protein to carbohydrate mix, and a 100% protein mix. No significant difference between pre-prandial (F = 0.1891, p = 0.8288) and post-prandial (F = 0.2981, p = 0.7446) oxygen consumption was found. I expected to find an increase in metabolism as the amount of protein increased in the diet and other research supports this conclusion. Enhanced oxygen probe sensitivity, an increase in time and number of experimental unites, and a starvation diet prior to starting the experiment could potentially yield definitive results.

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