

## **NAME: Desirair Jones      BIO 415 Article Review**

Citation Reference: Abel, D.C., Koenig, C.C. and Davis, W.P. (1987). Emersion The Mangrove Forest fish Rivulus marmoratus: a unique response to hydrogen sulfide. Environ. Biol. Fishes 18, 67-72.

Authors and affiliations Include:

Daniel C. Abel, Christopher C. Koenig & William P. Davis

Describe the Purpose of the Study:

The Purpose of the study: To differentiate between the possibilities, by comparing the mangrove rivulus to the *Kryptolebias marmoratus* from two different habitats. On a regular basis, fishes are acclimated to increasing gill surface area, in order to boost oxygen levels. The study has varied in on oxygen availability.

Describe the Setting:

Overall, the setting is depending on O<sub>2</sub> levels. The hypoxic freshwater pool versus nearly anoxic crab burrows, from two different habitats.

The Setting:

The hypoxic freshwater pool versus nearly anoxic crab burrows.

Describe the Test Animals:

Wild Mangrove Killifish are amphibious fish. These species are excellent in using, in order to cope with harsh environmental conditions. Second, they are known to be self-fertilizing.

Describe the Mechanism of measurement for Respiration:

Mangrove Killifish are species that have psychological mechanisms. These species are excellent in using, in order to cope with harsh environmental conditions. As a matter of fact, they are regularly exposed to aerial conditions in their natural environment. Second, they are independent, when it comes to fertilization, and they produce (homozygous) lineages. This is a great source for examination.

The Mechanism of Measurement for Respiration includes:

ANOVA interaction,  $F_{1,18}=7.633$ ,  $P<0.001$ ;

Summarize the author's conclusions:

As you can see, the species have psychological mechanisms. The *Rivulus marmoratus* Mangrove Killifish are independent, when it comes to fertilization, and producing (homozygous) lineages. The author biases the experiment pertaining to levels of  $O_2$ , comparing between the mangrove rivulus to the *Kryptolebias marmoratus* from two different habitats.