

## Accepted Manuscript

Oxygen-dependent distinct expression of hif-1 $\alpha$  gene in aerobic and anaerobic tissues of the Amazon Oscar, *Astronotus crassipinnis*

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PII: S1096-4959(18)30121-0

DOI: doi:[10.1016/j.cbpb.2018.08.011](https://doi.org/10.1016/j.cbpb.2018.08.011)

Reference: CBB 10228

To appear in: *Comparative Biochemistry and Physiology, Part B*

Received date: 29 May 2018

Revised date: 30 August 2018

Accepted date: 31 August 2018

Please cite this article as: Heinrichs-Caldas Waldir, Campos Derek Felipe, Paula-Silva Maria Nazaré, Almeida-Val Vera Maria Fonsêca , Oxygen-dependent distinct expression of hif-1 $\alpha$  gene in aerobic and anaerobic tissues of the Amazon Oscar, *Astronotus crassipinnis*. Cbb (2018), doi:[10.1016/j.cbpb.2018.08.011](https://doi.org/10.1016/j.cbpb.2018.08.011)

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**Oxygen-dependent distinct expression of *hif-1 $\alpha$*  gene in aerobic and anaerobic tissues of the Amazon Oscar, *Astronotus crassipinnis***

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**Running title:** *HIF-1 $\alpha$*  regulation correlates to anaerobic response

ms. has 27 pages, 4 figures, 2 tables

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Summary statement: *hif-1 $\alpha$*  gene expression is related to anaerobic responses in the liver of the Amazon fish *Astronotus crassipinnis*, an ultimate relationship to survive hypoxia.

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