

Reviewer Report

Title: "Whole genome sequencing of Chinese clearhead icefish, *Protosalanx hyalocranius*"

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Reviewer name: Frederic Brunet

Reviewer Comments to Author:

The paper presented here provides efficient combination of different programs used to characterise the genome of the Chinese clear head icefish.

I only can regret that the basic results provided here are way too succinct to get a full appreciation for the reviewers and the readers, lately. As an example, we are left with an final average value for the total number of transposable elements in this genome, but we are left with no idea about the proportions of each TE subdivisions. No evolutionary values are provided. Teleost fish are known to have a extra round of whole genome duplication, this result was not searched, nor discussed. Synteny hasn't been considered as well.

The authors put forward the methods they use and they provide minimalist details of the results.

Why hasn't the homology annotation done using the tilapia and platyfish?

Having in hand such a genome could have been the opportunity for more results, to enhance the interest of this publication. As an example, some phylogenetical analyses of key genes.

Minor typos:

l15 Missing blank space

l42 no plural at cavefish (fishes only used when an exact number is provided)

l124 missing "p" in RepBase

l128 missing "o" in MaxPeriod

l151 we employed GLEAN (no need of article before GLEAN)

The bibliography has a strong record of missing names (e.g. ref 19 and 39, or layout problems, like in ref. 20, 21, 23)

Level of Interest

Please indicate how interesting you found the manuscript: An article of limited interest

Quality of Written English

Please indicate the quality of language in the manuscript: Acceptable

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