

Reviewer Report

Title: A hybrid-hierarchical genome assembly strategy to sequence the invasive golden mussel *Limnoperna fortunei*

Version: Original Submission **Date:** 8/23/2017

Reviewer name: Kevin Kocot

Reviewer Comments to Author:

This is a high quality Data Note describing a new genomic resource for the invasive golden mussel (*Limnoperna fortunei*). The assembly and annotation follow industry standard protocols and are a good example of how to combine Illumina and PacBio data to produce a high quality draft genome for a non-model organism, of interest to workers in broad fields. The manuscript is well written (although I have some suggestions for improvement; see below). Specific comments: There are too many very short paragraphs. A paragraph should always have at least two sentences. The paragraph spanning lines 58-65 covers two disparate topics and the introduction of the text may need to be reorganized. Why were multiple individuals used? The recent Crown of Thorns sea star genome paper (<http://www.nature.com/nature/journal/v544/n7649/full/nature22033.html?foxtrotcallback=true>) would be an appropriate citation on line 82. Line 85: Change "U\$" to "USD \$" Lines 166-167: I suggest the authors move this text to the table. Lines 266-273: Despite the name, OrthoMCL does not identify orthologs, it identifies gene families. These are gene family comparisons and not strict orthologs.

Level of Interest

Please indicate how interesting you found the manuscript: An article of importance in its field

Quality of Written English

Please indicate the quality of language in the manuscript: Acceptable

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