

Reviewer Report

Title: A draft genome sequence of the elusive giant squid, *Architeuthis dux*

Version: Revision 1 **Date:** 10/31/2019

Reviewer name: Yi-Jyun Luo

Reviewer Comments to Author:

The authors have addressed most of my comments. However, I am still cautious about their gene model prediction. Running gene prediction using parameters from other species, especially *Drosophila* usually gives rise to very inaccurate results. The best situation would be using the transcriptome from the same species to train the gene model predictor. I understand there might be a technical limitation, but applying a random filter threshold to reduce the numbers of gene models is also problematic. This filtering may remove lineage-specific genes (i.e., novel genes in this species) and neural peptide genes that are usually very short. If having a good gene model is not possible, I would recommend the authors providing both versions of their gene models (i.e., original and filtered). And the authors should address this weakness in their manuscript.

Minor comments:

Lines 261-262: "*Drosophila melanogaster*" -> use italic type

Line 265: "*A. dux*" -> use italic type

Line 266: "*A. dux*" -> use italic type

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