

Accepted Manuscript

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PII: S1744-117X(18)30016-9
DOI: doi:[10.1016/j.cbd.2018.04.001](https://doi.org/10.1016/j.cbd.2018.04.001)
Reference: CBD 495

To appear in:

Received date: 5 September 2017
Revised date: 7 March 2018
Accepted date: 7 April 2018

Please cite this article as: Hongwei Yan, Xin Cui, Xufang Shen, Lianshun Wang, Linan Jiang, Haiying Liu, Ying Liu, Qi Liu, Chen Jiang , De novo transcriptome analysis and differentially expressed genes in the ovary and testis of the Japanese mantis shrimp *Oratosquilla oratoria* by RNA-Seq. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Cbd*(2018), doi:[10.1016/j.cbd.2018.04.001](https://doi.org/10.1016/j.cbd.2018.04.001)

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De novo transcriptome analysis and differentially expressed genes in the ovary and testis of the Japanese mantis shrimp *Oratosquilla oratoria* by RNA-Seq

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Running title: Identification of genes involved in gonadal development by RNA-seq

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Abstract

The mantis shrimp *Oratosquilla oratoria* is a widely distributed, commercially important crustacean species. Although its conservation and the development of successful artificial breeding technologies have recently received considerable attention, there are currently no available data regarding the molecular mechanisms in controlling reproduction. In this study, we performed transcriptome sequencing of the testis, ovary, female and male eyestalks and the androgenic gland of *O. oratoria*, and compared the expression pattern of

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