

Review of: "The Assembly of the Y Chromosome Reveals Amplification of Genes Regulating Male Fertility in *Bactrocera Dorsalis*"

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Potential competing interests: No potential competing interests to declare.

The authors of the manuscript entitled "The Assembly of the Y Chromosome Reveals Amplification of Genes Regulating Male Fertility in *Bactrocera Dorsalis*" conducted a great effort to explore the sequence of the Y chromosome of *Bactrocera Dorsalis*. They used appropriate tools, software, and applications such as the Accel-NGS® Methyl-Seq DNA Library Kit (Swift, MI, USA) with PE 150 bp mode, Bismark (v0.22.1), and ddPCR to reveal the targeted sequence. In addition, they showed *MoY* multi-copies. Furthermore, they demonstrated the impact of *gyfY2* knockdown on male infertility.

The results are very well presented and supported by convincing experimental evidence. The manuscript is well written and presented with a relative conclusion. I don't feel that more experiments are needed. However, further analysis of the Y chromosome is needed for potential target genes.

I think that the results of this study will be very helpful in future applications toward insect control, which will have an economic impact.

I would recommend acceptance.