

# Review of: "Y chromosomal noncoding RNAs regulate autosomal gene expression via piRNAs in mouse testis"

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**Potential competing interests:** The author(s) declared that no potential competing interests exist.

1. Page 2, "Subsequently multicopy transcripts such as Y353/B, spermiogenesis-specific transcript on the Y (Ssty) and Sycp3-like, Y-linked (Sly) from mouse Yq were projected as putative candidate genes for male sterility and spermiogenesis in mice [2, 15, 17–19]." Incorrect punctuation.
2. Is the genetic background of the mouse model "XY<sup>RIII</sup>qdel" and "B10.BR-Ydel" clear? Are there other gene deletions besides the Y chromosome?
3. Page 7, Please mark the "XY<sup>RIII</sup>" as normal mice when it first appears from misunderstanding.
4. The additional file 10: Fig. S5A, the tubulin band in western blot and northern blot are a little fuzzy, and D3 did not have the error bar. It would be better to change a clearer image for more certain.
5. Fig4, the distortion of the electrophoresis direction and the clipping of the image lead to a weaker explanation. It is recommended to provide an unprocessed original image and statistical data of repeated experiments..
6. Page 7, "Many proteins coded by autosomal genes are deregulated in XYR<sup>III</sup>qdel sperm proteome", this conclusion cannot be reached without cell experiment and rescue experiment verification.