# JBC WITHDRAWALS/RETRACTIONS

## Withdrawal: E3 ubiquitin ligase Fbw7 negatively regulates osteoblast differentiation by targeting Runx2 for degradation.

**Yogesh Kumar, Isha Kapoor, Kainat Khan, Gatha Thacker, Mohd. Parvez Khan, Nidhi Shukla, Jitendra Kumar Kanaujiya, Sabyasachi Sanyal, Naibedya Chattopadhyay, and Arun Kumar Trivedi**

This article has been withdrawn by Isha Kapoor, Kainat Khan, Gatha Thacker, Mohd. Parvez Khan, Nidhi Shukla, Jitendra Kumar Kanaujiya, Sabyasachi Sanyal, Naibedya Chattopadhyay, and Arun Kumar Trivedi. Yogesh Kumar could not be reached. The corresponding author identified some issues and brought them to the attention of the Journal. Subsequently, some issues were also noted in the article by the Journal. Based on the original data provided for Fig. 2$C$, the human Runx2 construct resolves at the size of $\beta$-actin. While they grossly differ in size (size of Runx2 is ~60 kDa while that of $\beta$-actin is 42 kDa), the withdrawing authors claim that the loading control was possibly probed with $\beta$-tubulin (~55 kDa), which separates at an almost similar size as Runx2 and was erroneously labeled as $\beta$-actin. The Runx2 immunoblots from Figs. 2$E$ and 2$J$ were duplicated, and the FLAG Fbw7 immunoblot from Fig. 2$J$ was inappropriately manipulated. Additionally, the actin immunoblots from Figs. 3$B$ and 3$C$ were duplicated, the graphs shown in Figs. 4$A$ and 4$B$ were duplicated, and a non-matching image due to overcropping was used in the Fbw7 panel for the Ovx + E2 group in Fig. 6$A$, which the withdrawing authors state were inadvertent errors. Given these errors, the withdrawing authors state that the responsible course of action would be to withdraw the article to maintain the high standards and rigor of scientific literature from the withdrawing authors' group as well as the Journal. However, the withdrawing authors state that these errors do not change the underlying scientific findings of the article.

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