

Manuscript title: "Silencing of Jumonji C domain-containing 1C inhibits the osteogenic differentiation of bone marrow mesenchymal stem cells via nuclear factor- κ B signaling"

Reported on ITEM 8 from ARRIVE checklist

This study related to manuscript writing of basic research was not using any animal experiments in vivo model (N/A (Not Applicable)).

We just isolated BMMs cells and BMSCs cells from 8-10-week-old female C57BL/6 mice (18-23g) purchased from Beijing Weitong Lihua Laboratory Animal Technology Co., Ltd. And then, we performed induction differentiation experiments on the two types of cells, individually. Finally, we used biochemical kits and other detection techniques (*Western Blot*, *RT-qPCR*, *ELISA*, et al.) to detect and analyze relevant biomarkers. All details were available from "MATERIALS AND METHODS" and "RESULTS" of our Reviewed manuscript on Page from 4 to 10.