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Corrigendum: A Matrine Derivative M54 Suppresses Osteoclastogenesis and Prevents Ovariectomy-Induced Bone Loss by Targeting Ribosomal Protein S5

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A Corrigendum on

A Matrine Derivative M54 Suppresses Osteoclastogenesis and Prevents Ovariectomy-Induced Bone Loss by Targeting Ribosomal Protein S5

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In the original article, there were mistakes in **Figures 1C, 6C** as published. In Figure 1C, the original image of RANKL induced group was mistakenly selected. **Figure 1C** is now replaced with the right image. In **Figure 6C**, the original image of OVX group was wrongly selected. **Figure 6C** is now replaced with the right image. The corrected **Figures 1C, 6C** appear below.

The authors apologize for these errors and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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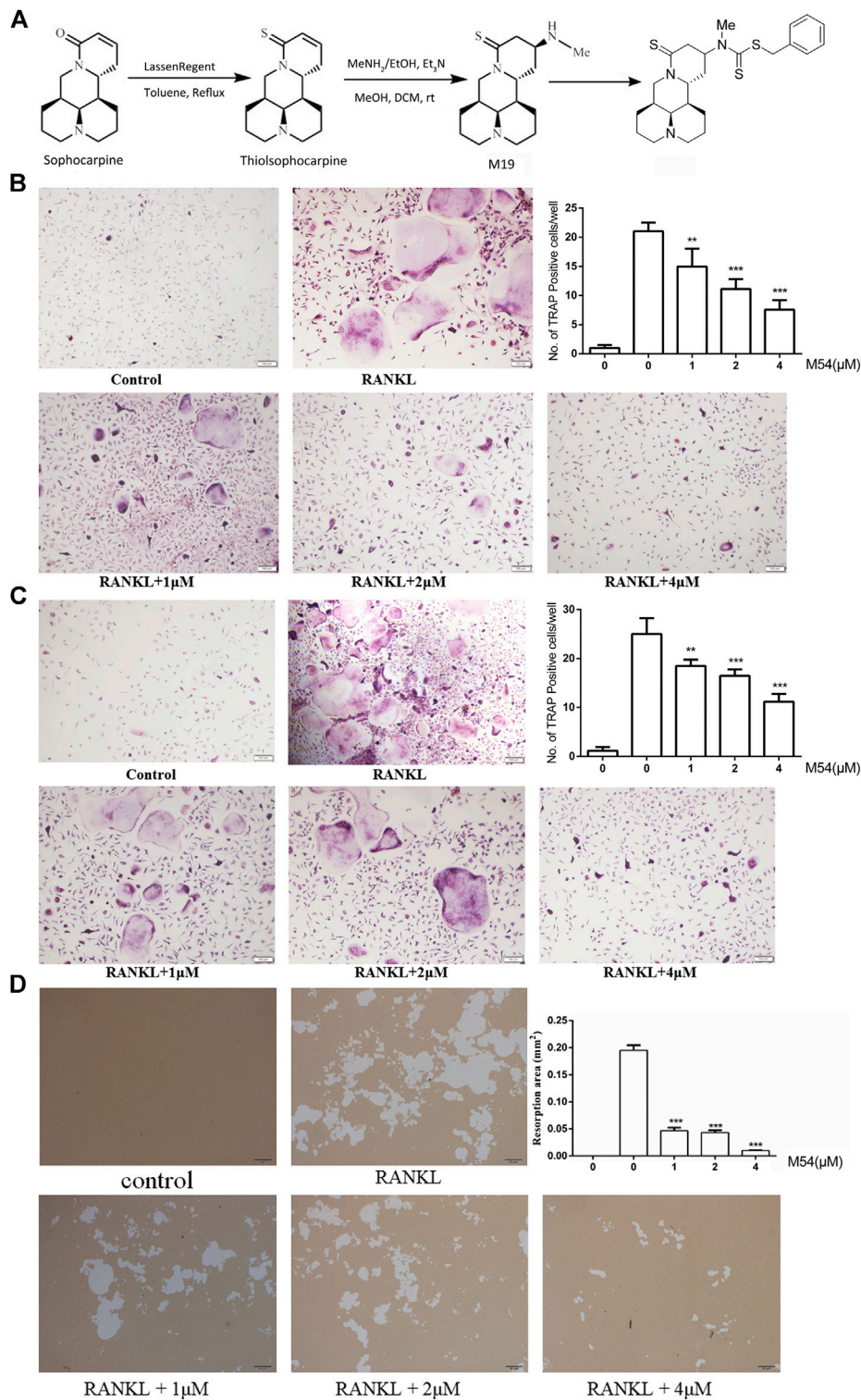


FIGURE 1 | M54 inhibits RANKL-induced osteoclast differentiation and bone resorption in vitro. **(A)** Chemical structure of M54 and the synthesis process. **(B)** Formation of TRAP-positive cells from BMSCs and the quantification of formed osteoclasts. **(C)** Formation of TRAP-positive cells from RAW264.7 cells and the quantification of formed osteoclasts. **(D)** The resorption area on the bone biomimetic synthetic surface was quantified by image analysis ($^*p < 0.05$, $^{**}p < 0.01$, $^{***}p < 0.001$).

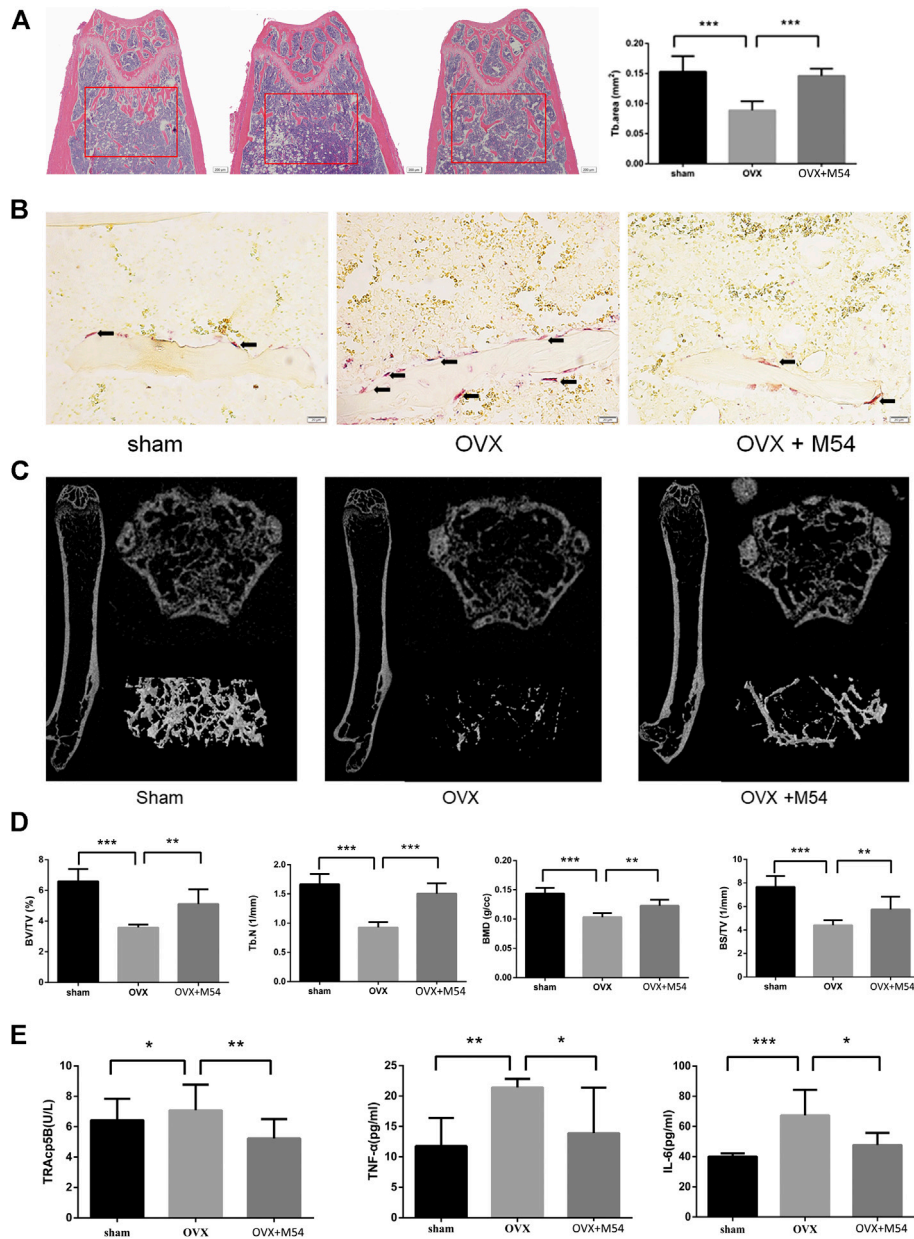


FIGURE 6 | M54 prevents ovariectomy-induced bone loss in vivo. **(A)** Representative H&E staining of distal femoral sections and quantification of trabecular area from each group 6 week after the operation (×40). **(B)** Representative TRAP-stained histologic distal femur sections from sham, OVX and OVX + M54 group (×400). **(C)** Micro CT analysis of the distal femur from sham, OVX, and OVX + M54 group. **(D)** Calculations of bone value/total value (BV/TV), trabecular number (Tb.N), bone mineral density (BMD), and bone surface area/total value (BS/TV). **(E)** Serum TRAcsp5B, TNF-α, and IL-6 were examined (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$).