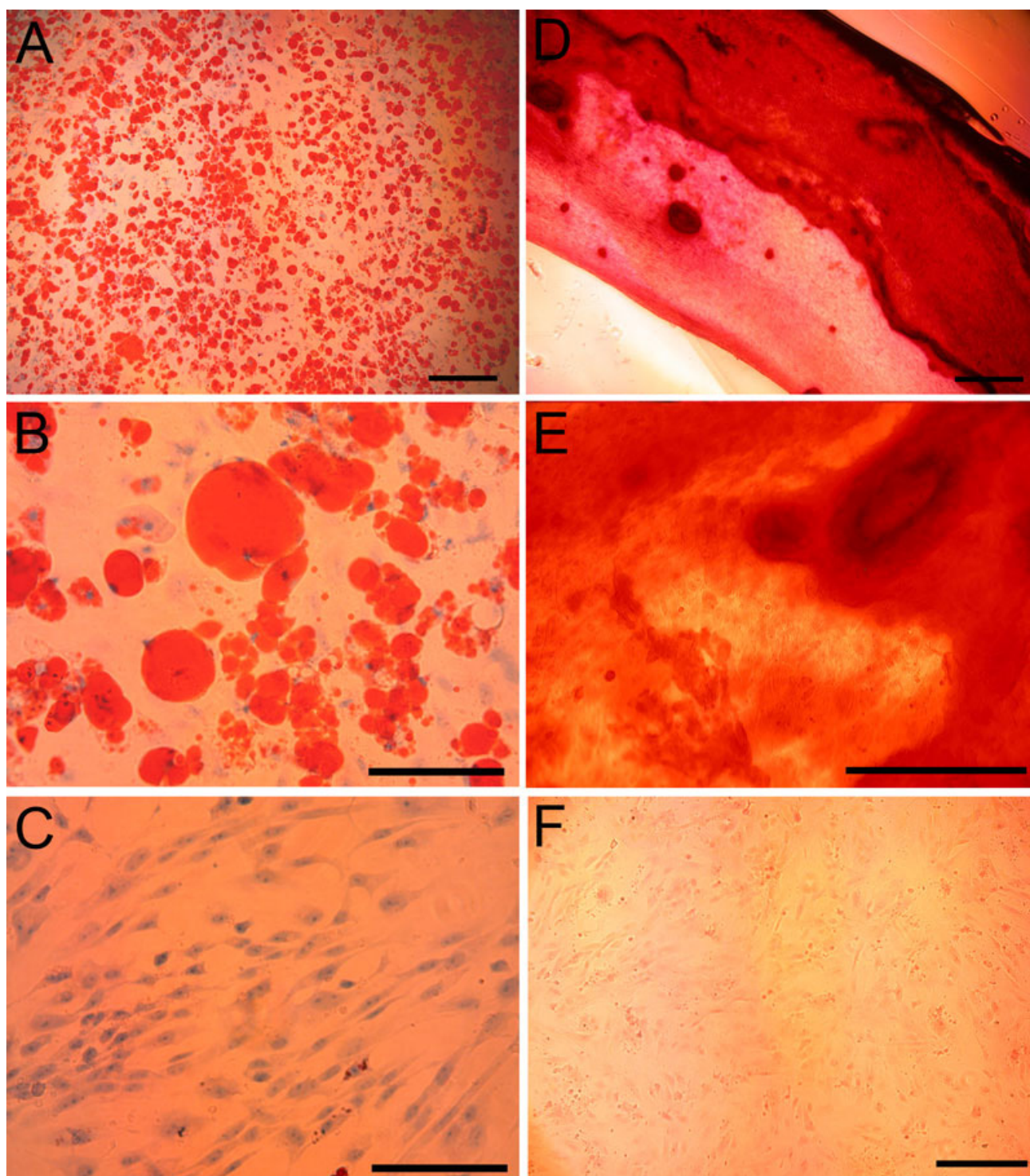


**Supplementary Figure 4 : Differentiation of MSCs (♀)- Adipogenesis and osteogenesis.**



(A-B) MSCs were cultured in adipogenic induction media for 21 days. Adipocytes differentiated from MSCs were stained with Oil Red O Solution. Lipid droplets in adipocytes were clearly observed. Cell nuclei were stained with Hematoxylin solution. (C) Astrocytes served as a negative control for MSC adipogenesis and showed no staining after being subjected to the adipogenic induction conditions.

(D-E) For osteogenesis, MSCs were differentiated in osteogenic induction media for 14 days. Osteocytes containing calcium deposits were visualized with Alizarin Red Solution. (F) Astrocytes served as a negative control for MSC osteogenesis and showed no staining after being subjected to the osteogenic induction conditions. Scale bars- A and D: 300  $\mu$ m; B-C: 100  $\mu$ m; E-F: 200  $\mu$ m.