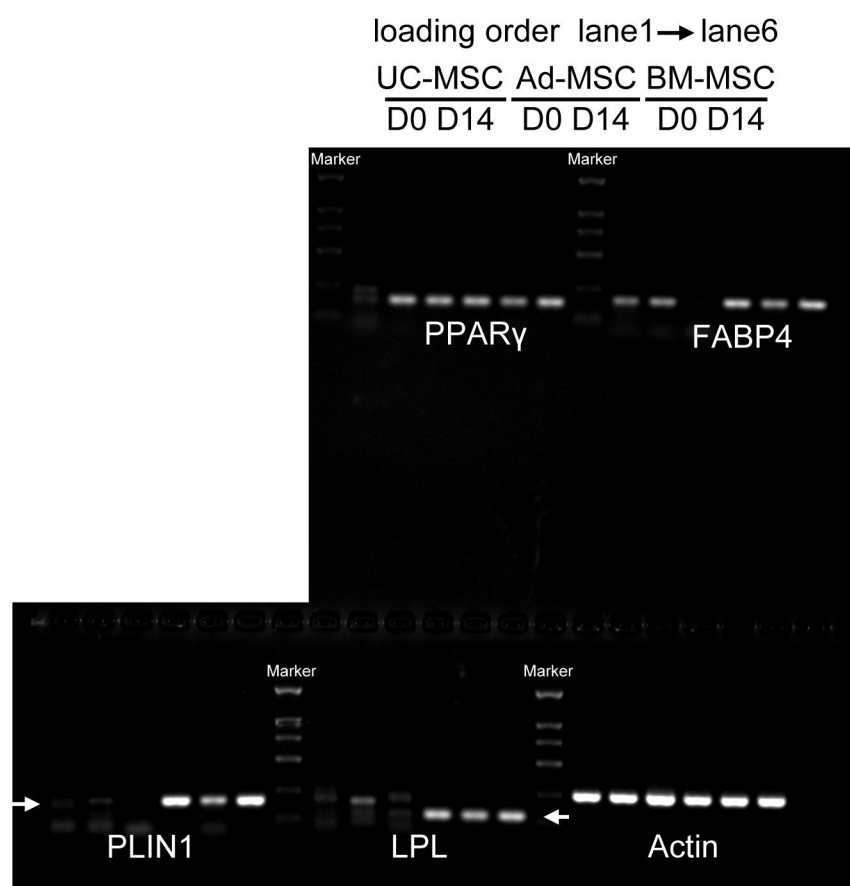


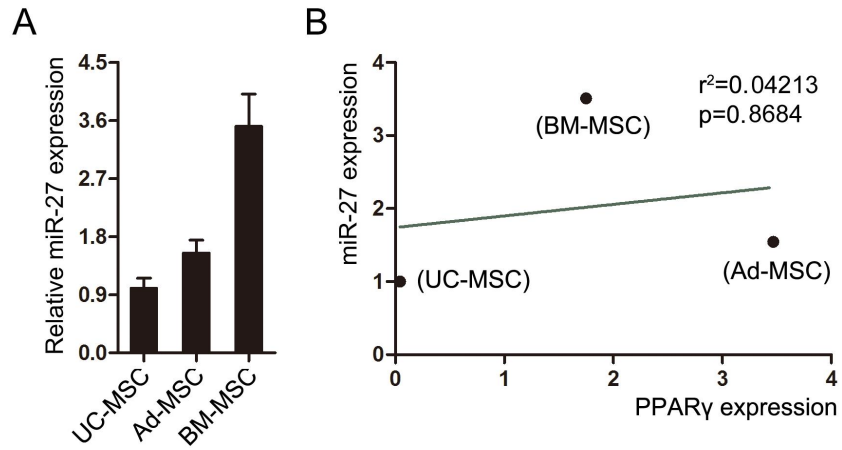
Supplementary Information

miR-301b~miR-130b—PPAR γ axis underlies the adipogenic capacity of mesenchymal stem cells with different tissue origins

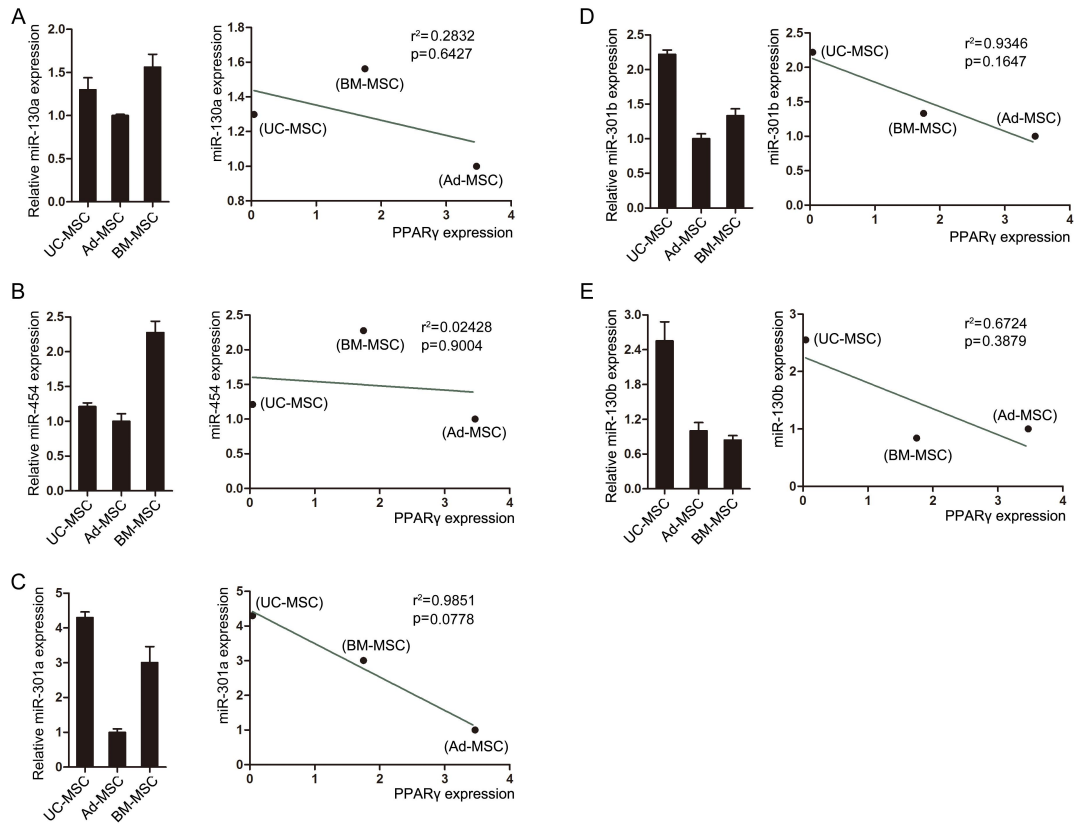
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Supplementary Figure 1. Comparison of adipogenic gene expression in the three tissues-derived MSCs by RT-PCR. UC-MSC, Ad-MSC and BM-MSC were incubated with or without adipogenic medium for 14 days. Adipogenic markers including PPAR γ , FABP4, PLIN1 and LPL were detected at the indicated days of differentiation. Actin was used as a loading control. (Original picture)



Supplementary Figure 2. Correlation analysis of miR-27 expression with PPAR γ expression in the three sources-derived MSCs. (A) The expression of miR-27 was detected in UC-MSC, Ad-MSC and BM-MSC. (B) The correlation of miR-27 expression with PPAR γ expression in the three sources-derived MSCs was performed using linear regression analysis.



Supplementary Figure 3. Correlation analysis of miR-130/301/454 family expression with PPAR γ expression in the three sources-derived MSCs. (A) The expression of miR-130a and its correlation with PPAR γ expression in UC-MSC, Ad-MSC and BM-MSC. (B) The expression of miR-454 and its correlation with PPAR γ expression in UC-MSC, Ad-MSC and BM-MSC. (C) The expression of miR-301a and its correlation with PPAR γ expression in UC-MSC, Ad-MSC and BM-MSC. (D) The expression of miR-301b and its correlation with PPAR γ expression in UC-MSC, Ad-MSC and BM-MSC. (E) The expression of miR-130b and its correlation with PPAR γ expression in UC-MSC, Ad-MSC and BM-MSC.