



**Fig. S1.** The morphology of multilineage differentiation of ND-ASCs and T2DM-ASCs. T2DM-ASCs show impaired adipogenic and osteogenic differentiation potential. (A) The morphology of adipogenic differentiation of ND-ASCs (n=3) and T2DM-ASCs (n=3) by Oil Red O staining (100× magnification). (B) The morphology of osteogenic differentiation of ND-ASCs (n=3) and T2DM-ASCs (n=3) by von Kossa staining (100× magnification). (C) The morphology of chondrogenic differentiation of ND-ASCs (n=3) and T2DM-ASCs (n=3) by Alcian Blue staining (100× magnification). Each experiment was repeated at least twice, one representative example shown.