

**Supplementary Data** 

**SUPPLEMENTARY FIG. S1.** Donor-to-donor variability of adipogenic differentiation potential of hASCs was evaluated with five random female donors (D1–D5), with no evidence of diabetes or metabolic syndrome. DNA content **(A)**, intracellular triglyceride **(B)**, and secreted glycerol **(C)** were measured following 2 weeks of culture on three-dimensional aqueous silk fibroin scaffolds. No significant differences between donors were observed.