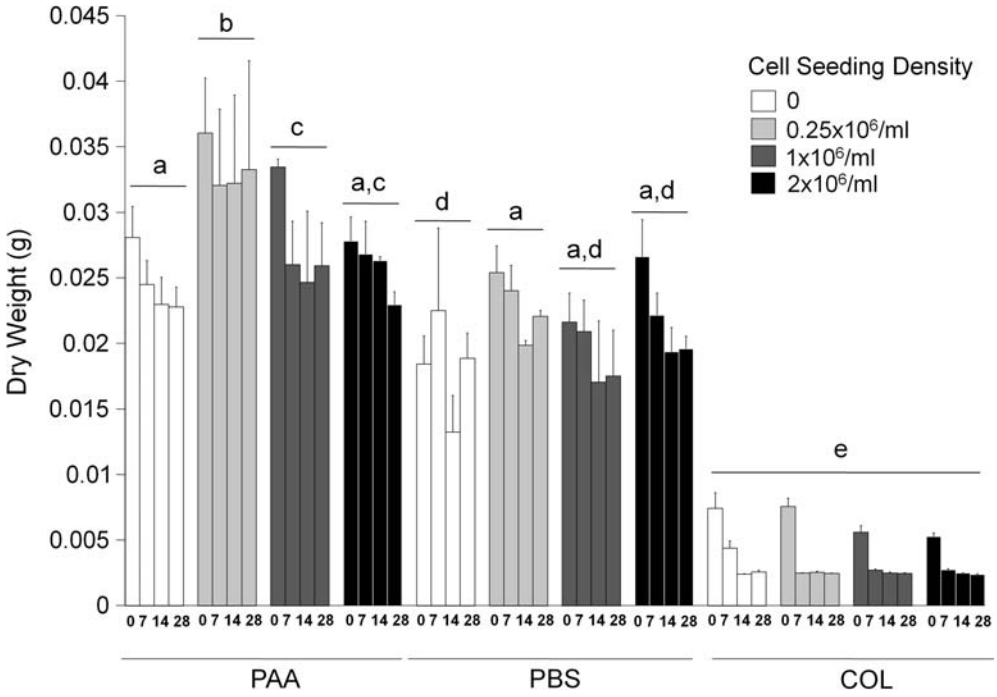
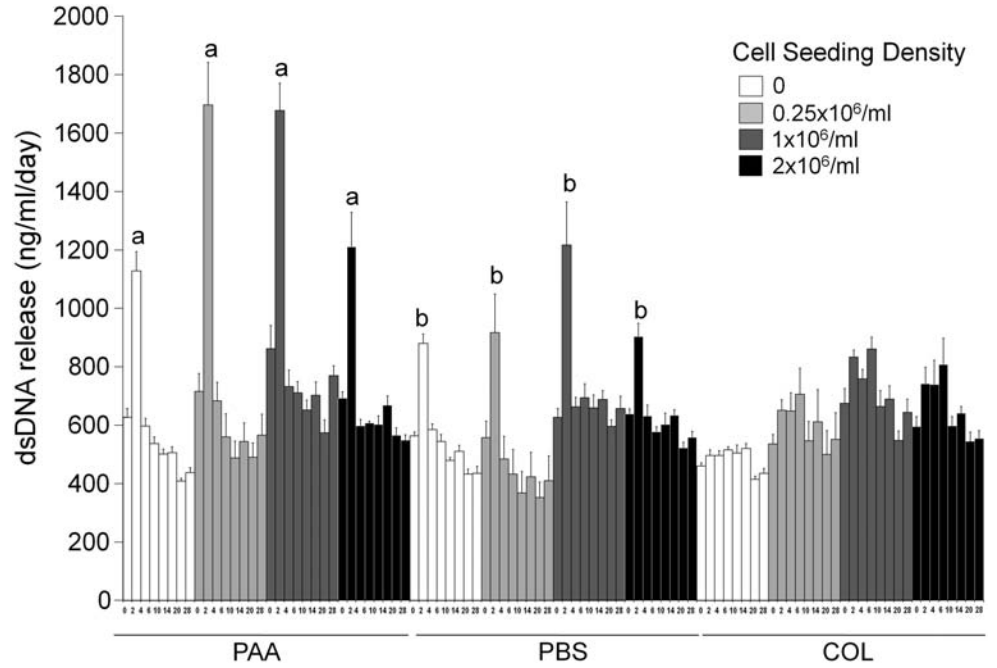
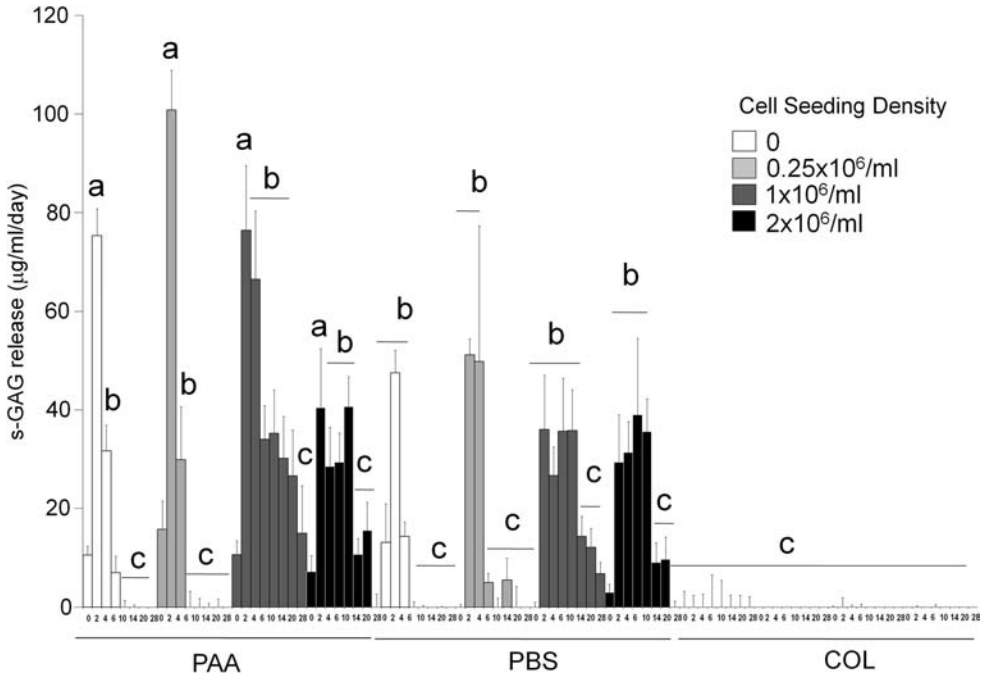


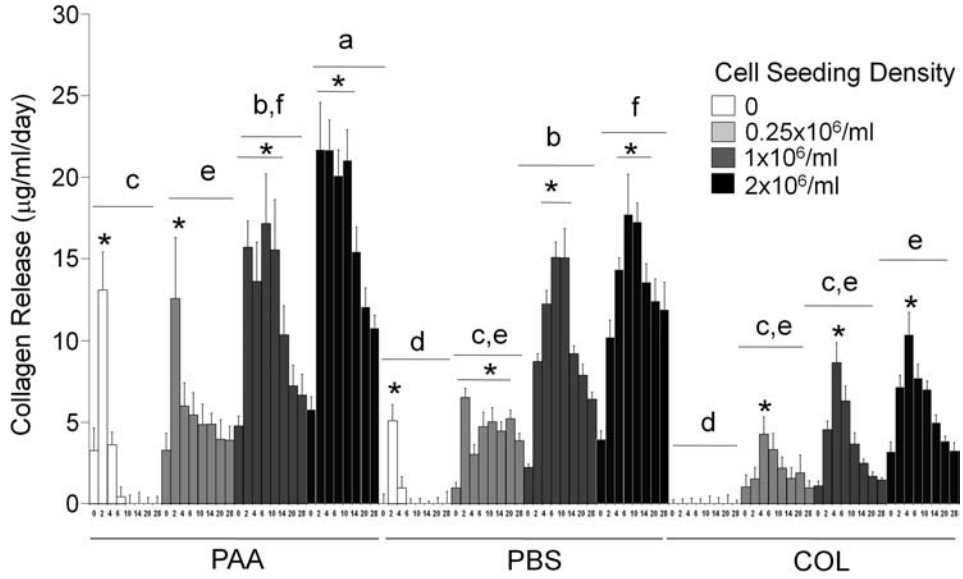
SUPPLEMENTAL FIG. S1. Dry weight (g) for constructs prepared with peracetic acid (PAA)-ligament-derived matrix (LDM) (PAA), phosphate-buffered saline (PBS)-LDM (PBS), or collagen gel alone (COL) and seeded with 0, 0.25×10^6, 1×10^6, or 2×10^6 human adipose stem cells (hASCs)/mL and cultured for 0, 7, 14, or 28 days. Dry mass of constructs containing collagen gel alone was significantly less than those containing either PBS- or PAA-LDM. Groups having different letters are significantly different from other groups across all time points ($p \leq 0.05$; $n = 3$ biologic donors, mean ± standard error of the mean [SEM]).



SUPPLEMENTAL FIG. S2. dsDNA release (ng/mL/day) into the cell culture medium over a 28-day culture period (evaluated at days 0, 2, 4, 6, 10, 14, 20, and 28) for constructs prepared with PAA-LDM (PAA), PBS-LDM (PBS), or collagen gel alone (COL) and seeded with 0, 0.25×10^6, 1×10^6, or 2×10^6 hASCs/mL. dsDNA release into the cell culture medium was increased at day 2 for constructs containing PAA- or PBS-LDM compared to all other time points, and to constructs containing collagen gel alone. Constructs containing PAA-LDM released more dsDNA into the medium than those containing PBS-LDM on day 2 of culture. Time points having different letters are significantly different from other groups and biologically relevant ($p \leq 0.05$; $n = 3$ biologic donors, mean ± SEM).



SUPPLEMENTAL FIG. S3. Sulfated-glycosaminoglycan (s-GAG) release (µg/mL/day) into the cell culture medium over a 28-day culture period (evaluated at days 0, 2, 4, 6, 10, 14, 20, and 28) for constructs prepared with PAA-LDM (PAA), PBS-LDM (PBS), or collagen gel alone (COL) and seeded with 0, 0.25×10^6, 1×10^6, or 2×10^6 hASCs/mL. Sulfated-glycosaminoglycan release into the culture medium was significantly less from constructs containing collagen gel alone than those containing either PAA- or PBS-LDM. Groups having different letters are significantly different from other groups and biologically relevant ($p \leq 0.05$; $n = 3$ biologic donors, mean ± SEM).



SUPPLEMENTAL FIG. S4. Collagen release (µg/mL/day) into the cell culture medium over a 28-day culture period (evaluated at days 0, 2, 4, 6, 10, 14, 20, and 28) for constructs prepared with PAA-LDM (PAA), PBS-LDM (PBS), or collagen gel alone (COL) and seeded with 0, 0.25×10^6, 1×10^6, or 2×10^6 hASCs/mL. Collagen release through the culture period from constructs at all seeding densities prepared using collagen gel alone was significantly less than LDM constructs seeded with either 1×10^6 or 2×10^6 hASCs/mL. Groups having different letters are significantly different from other groups and biologically relevant. *Significantly different from other time points for similar treatment and seeding density ($p \leq 0.05$; $n = 3$ biologic donors, mean ± SEM).