**Supplementary figure 3.** qRT-PCR of the culture samples used for RNA-seq and interstitial cell culture; Oil Red O staining of these cultures. (A) Hsd3b6 and Hsd17b3, markers of adult Leydig cells, were downregulated in the adult SLC and ST cultures; P<0.05. The data are represented as a fold change (log2) relative to RNA levels in the interstitial cell culture that was established from adult testes and grown for 24 hours before harvest. (B) Leydig cells labeled by Oil Red O staining (arrows) were detected in the interstitial cell culture (1) and ST culture (2) but not in the SLC culture (3). Nuclei were counterstained with hematoxylin. (C) Validation of RNA-seq analysis. RNA expression in the adult SLC culture is represented as a fold change (log2) relative to RNA expression in the ST culture. P<0.05 for all genes examined. All PCR data are presented as the mean ± SEM from 3 biological replicates. Scale bars: 100 μm.