

**Table S4.** Functional Class Scoring (FCS)

GeneTrail2 [50] was used to compare the entire lists of YO versus EL transcripts, and the entire lists of EL vs. SX transcripts.

GO - Biological Process	YO vs. EL		EL vs. SX	
	Type	Adj p-val	Type	Adj p-val
apoptotic cell clearance	enriched	6.5E-03		
cell activation involved in immune response	enriched	9.4E-03		
positive regulation of cellular protein catabolic process	depleted	1.3E-04	enriched	2.4E-03
regulation of cellular amino acid metabolic process	depleted	6.4E-05	enriched	4.0E-04
translational elongation	depleted	4.7E-04	depleted	5.6E-26
regulation of translation in response to stress	depleted	5.6E-03		
protein targeting to ER			depleted	1.6E-08
mitochondrial transmembrane transport	depleted	7.4E-03	depleted	2.4E-04
mitochondrial translation	depleted	4.8E-11	depleted	5.5E-17
oxidative phosphorylation	depleted	7.2E-07	depleted	4.2E-18
tricarboxylic acid metabolic process	depleted	8.9E-03	depleted	2.8E-03
extracellular matrix assembly	enriched	1.7E-03		
collagen fibril organization			enriched	1.6E-03
positive regulation of fat cell differentiation	enriched	1.2E-03		
regulation of lipase activity			enriched	8.9E-03
tumor necrosis factor superfamily cytokine production	enriched	8.9E-03		
regulation of transforming growth factor beta receptor signaling pathway	enriched	1.1E-03		
transforming growth factor beta receptor signaling pathway			enriched	8.0E-03