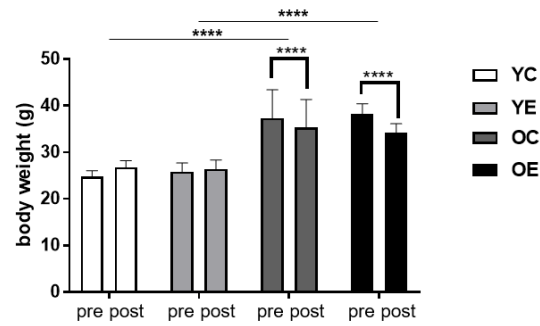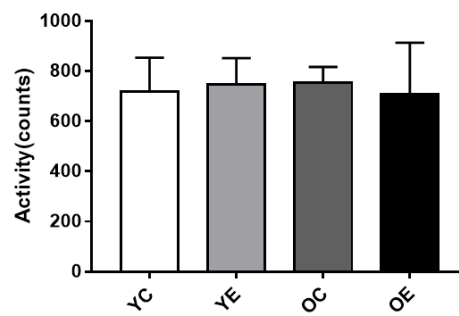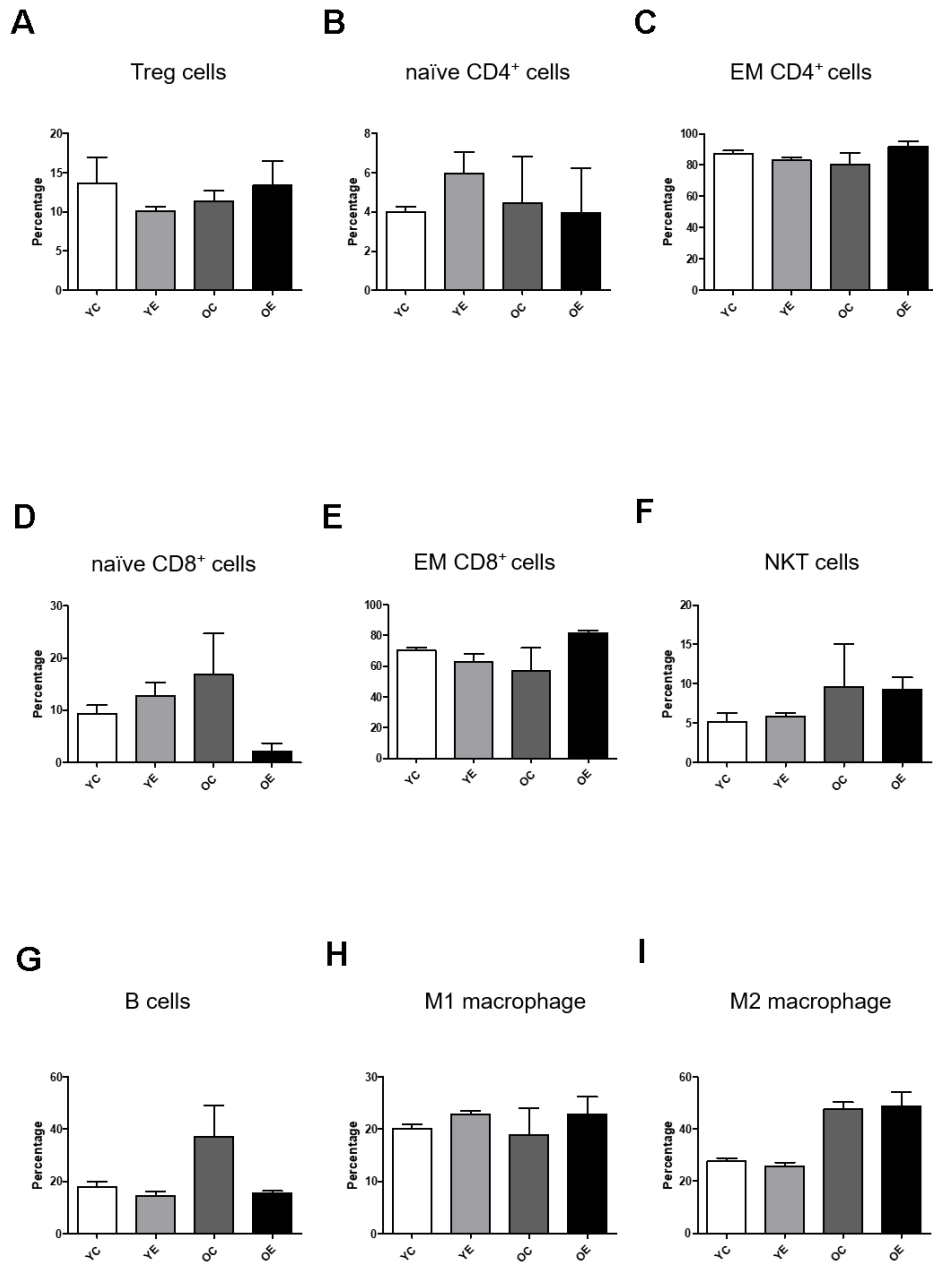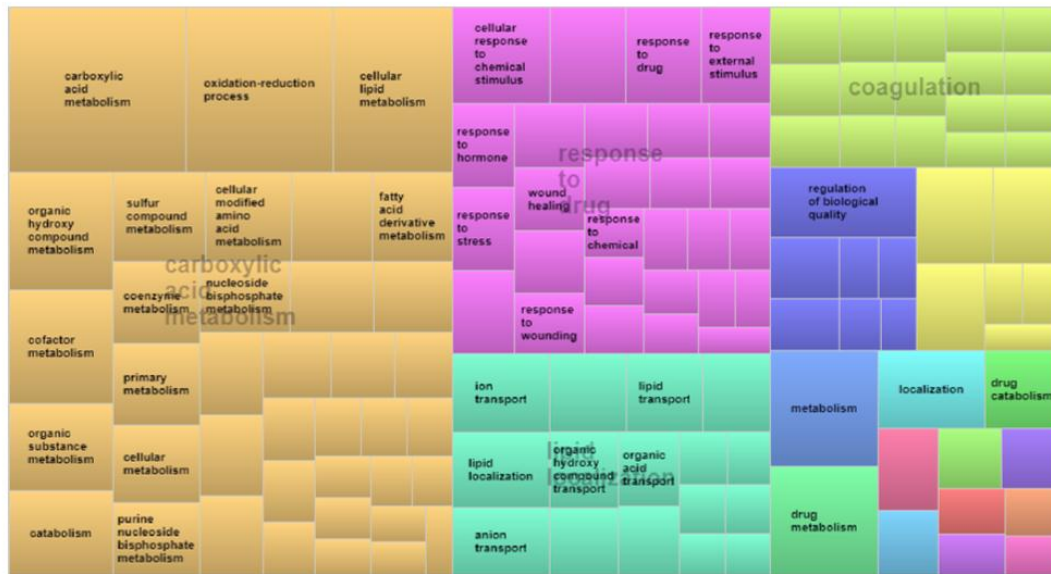# SUPPLEMENTARY FIGURES

Supplementary Figure 1. (**A**) Body composition change with or without 4-week of treadmill training. (**B**) The average (mean ± SD) x, y, and z activity. ****$p < 0.0001$.

Supplementary Figure 2. Effect of exercise on immune cell profiling in SVF of young and aged mice. Bar graph depict the mean frequencies (± SEM) of (**A**) Treg, (**B**) naïve CD4+ cells, (**C**) EM CD4+ cells, (**D**) naïve CD8+ cells, (**E**) EM CD8+ cells, (**F**) NKT cells, (**G**) B cells, (**H**) M1 macrophage, (**I**) M2 macrophage in SVF.
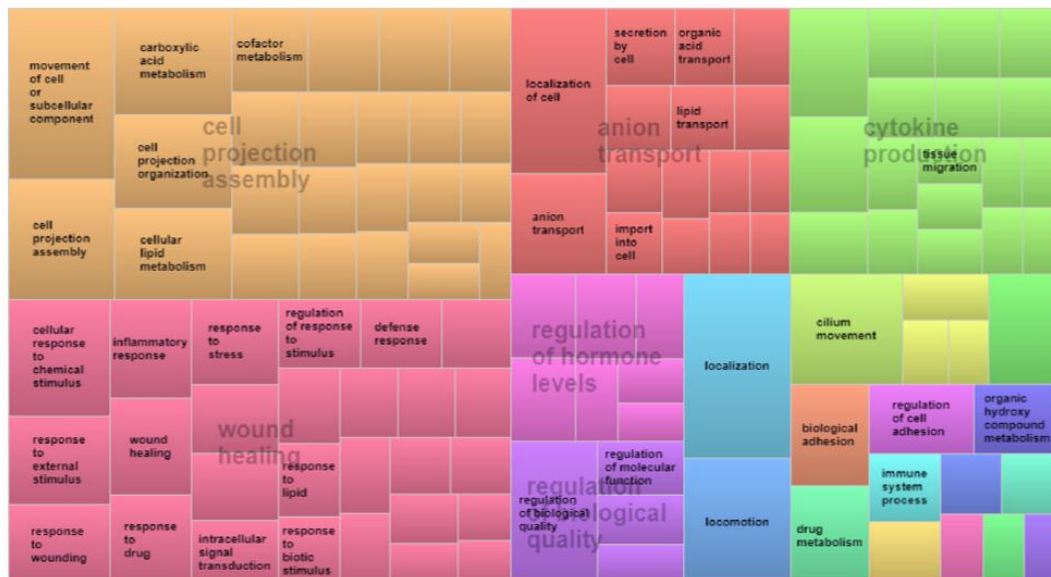
A

OC vs YC

B OE vs OC

Supplementary Figure 3. Gene ontology based- treeMap view of REVIGO. Exercise-induced altered gene expression in adipose tissue of aged mice. (**A**) OC versus YC (**B**) OE versus OC. Size of the rectangles may be adjusted to reflect the frequency of the gene ontology term in the underlying Gene Ontology Annotation Database.