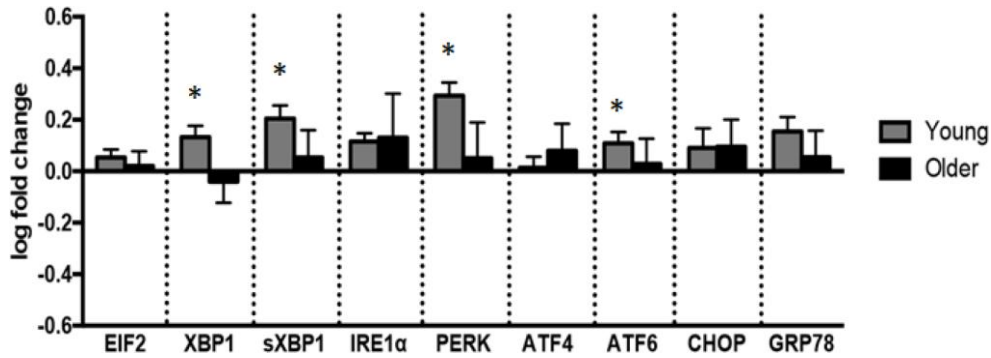
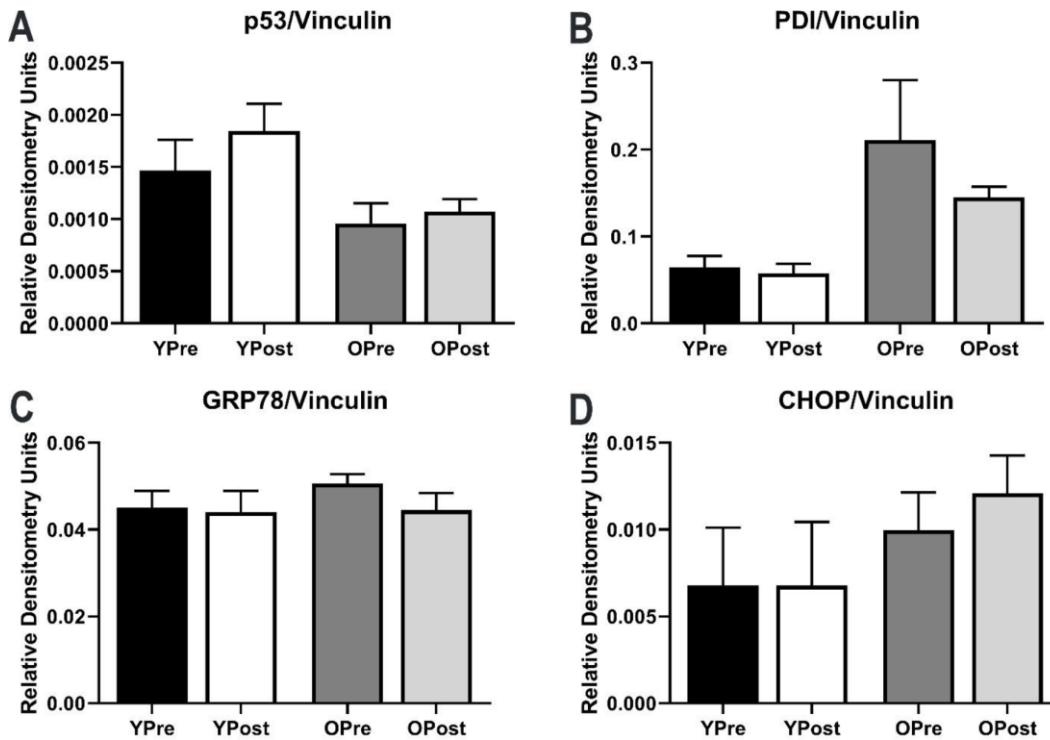


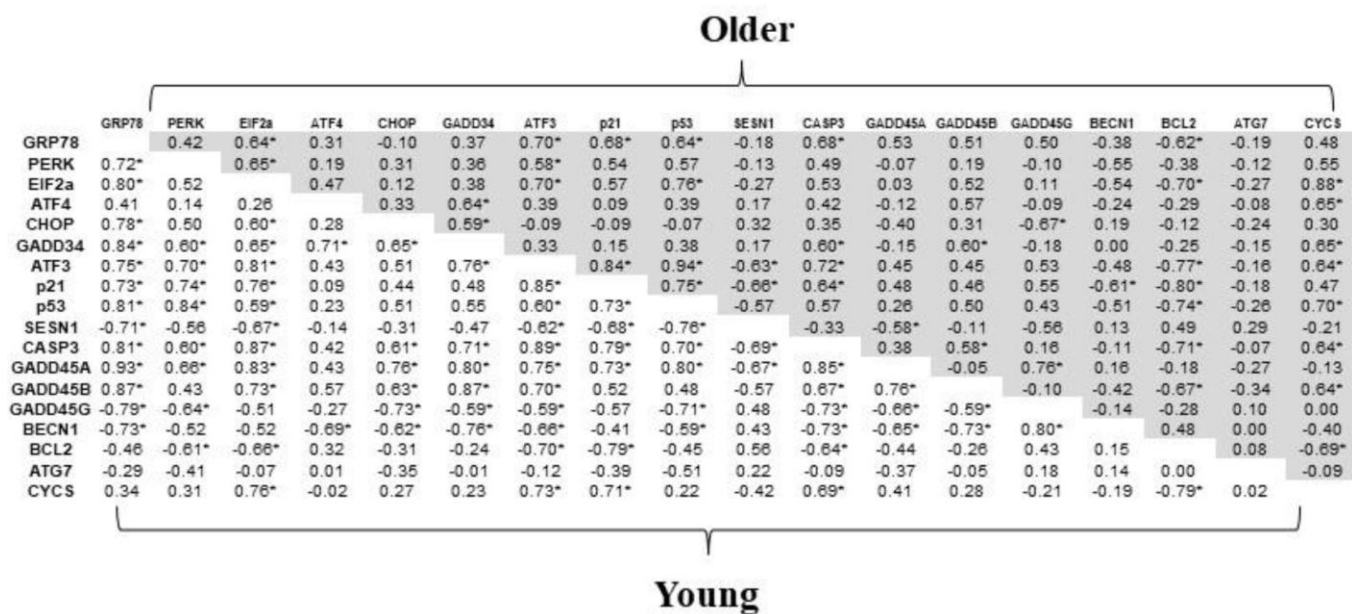
SUPPLEMENTARY FIGURES



Supplementary Figure 1. qRT-PCR validation of RNA-Seq. We verified nine mRNAs associated with the three primary transducers of the UPR. qPCR, quantitative PCR. *Significant ($p \leq 0.05$) log fold change from baseline within group. Data are means \pm SEM.



Supplementary Figure 2. Protein expression of p53 (A), PDI (B), UPR chaperone GRP78 (C), and PERK arm-associated terminal protein CHOP (D) in young (Y) and older (O) adults at baseline (Pre) and 18h post-exercise (Post). P53 and PDI protein expression was completed for six young and six older adults. CHOP and GRP78 protein expression were completed for three young and three older adults.



Supplementary Figure 3. Pearson R correlation values between gene transcripts associated with the PERK arm of the UPR and p53/p21 axis post-exercise in young (lower left) compared to older (upper right) adults. The correlation values demonstrate relationships displayed in Figure 4C between the fold-change from baseline to 18h post-exercise for the individual gene transcripts associated with the UPR pathway in young and older adults. *Significant ($p \leq 0.05$) correlation.