Supplementary Information

Palmitate drives mitochondrial and ER stress through disruption of the CD73-Adenosine axis

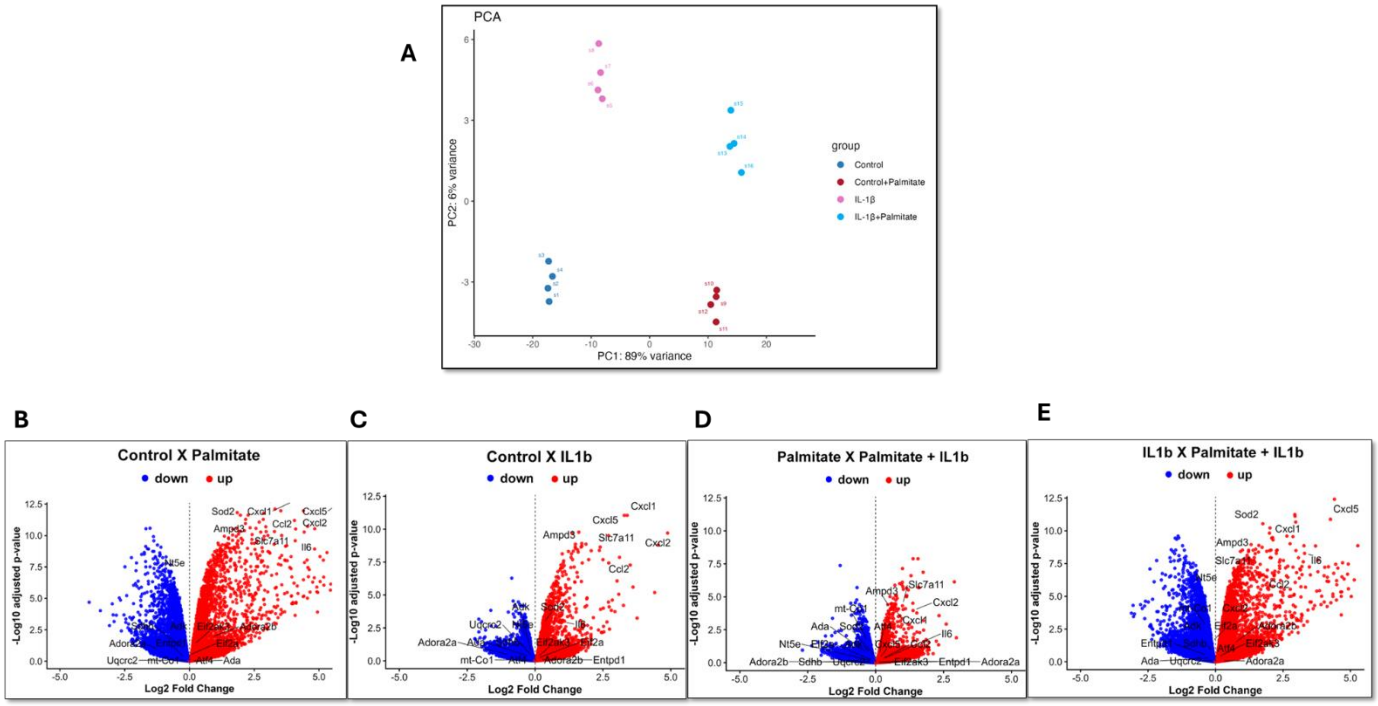
Shantiece Dawson[1,#], Sonia Batan[1,#], Nina Adams[1], Sergei Bombin[2], Erivan S. Ramos-Junior[1,*], Ana Carolina Morandini[1,3] *

1. Department of Oral Biology, Dental College of Georgia at Augusta University, Augusta, GA, USA
2. Georgia Cancer Center & Department of Pathology, Medical College of Georgia, Augusta University, Augusta, GA, USA
3. Department of Periodontics, Dental College of Georgia at Augusta University, Augusta, GA, USA

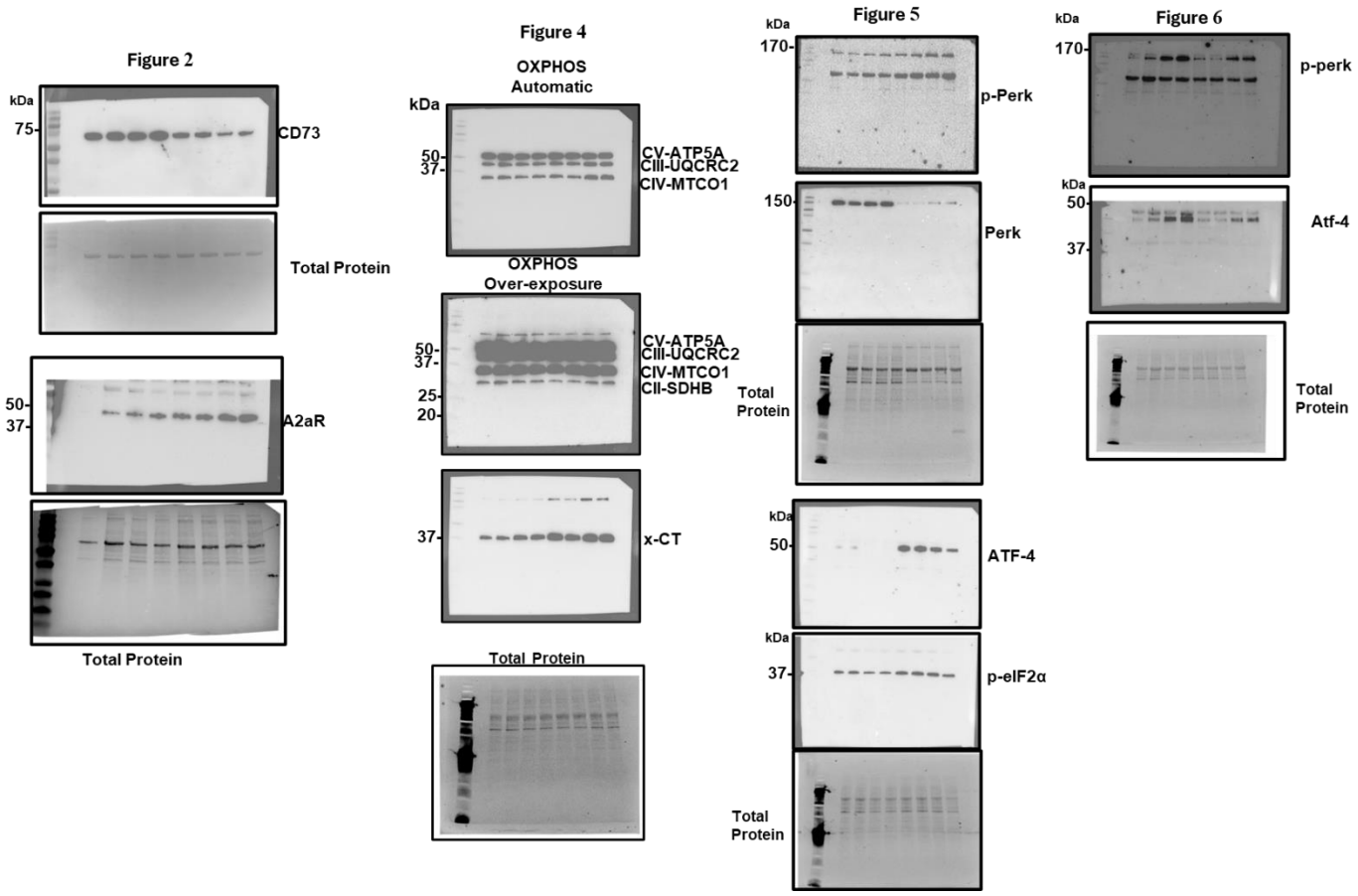
# These authors contributed equally and share first authorship in the manuscript.

***Corresponding authors:**
Ana C. Morandini
Dental College of Georgia
amorandini@augusta.edu
ORCID: 0000-0003-4749-571X

Erivan S. Ramos-Junior
Dental College of Georgia
eramosjunior@augusta.edu
ORCID: 0000-0003-0228-4257



Supplementary Figure 1. Global transcriptional changes induced by palmitate and IL-1β in mouse gingival fibroblasts. (A) Principal component analysis (PCA) showing separation of samples based on treatment conditions. (B) Volcano plot highlighting differentially expressed genes with significantly upregulated genes shown in red and downregulated genes in blue (adjusted $p < 0.05$)



Supplementary Figure 2. Images of Uncropped immunoblots.