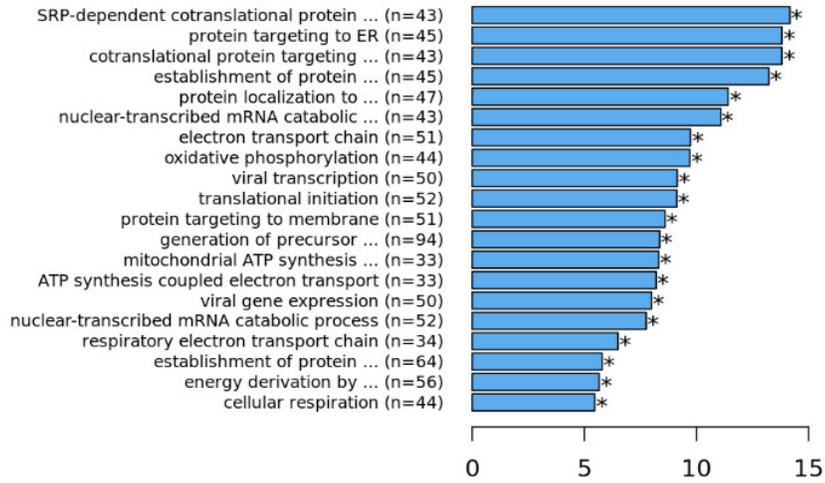
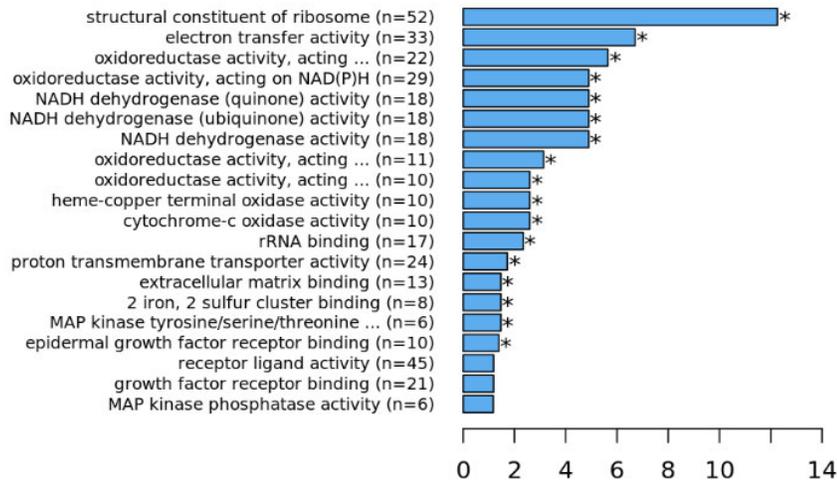


Figure S1: L-Arginine enhances oral keratinocyte proliferation under a low glucose condition (6mM). TIGK cells were treated with Arg with concentrations ranging from 0.5 to 2mM. Proliferation was assessed by an MTS proliferation assay 24-96 hours after treatment. OD490 values were recorded. # $p < 0.01$ compared to untreated cells.

ArgH24hvsConH24h.down(BP)



ArgH24hvsConH24h.down(MF)



ArgH24hvsConH24h.down(CC)

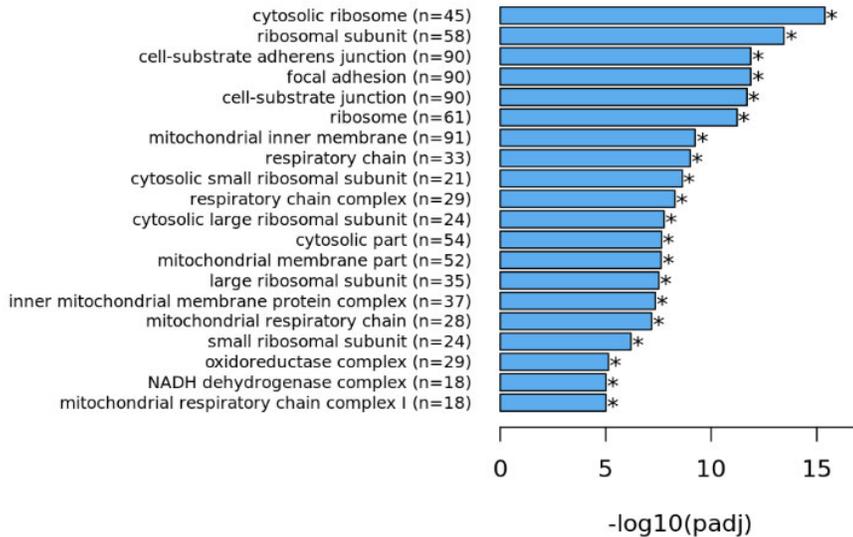


Figure S2: Top 20 downregulated enriched gene ontology (GO) terms (biological processes/BP, molecular functions/MF, and cellular components/CC) 24 hours after Arg treatment under high glucose conditions.

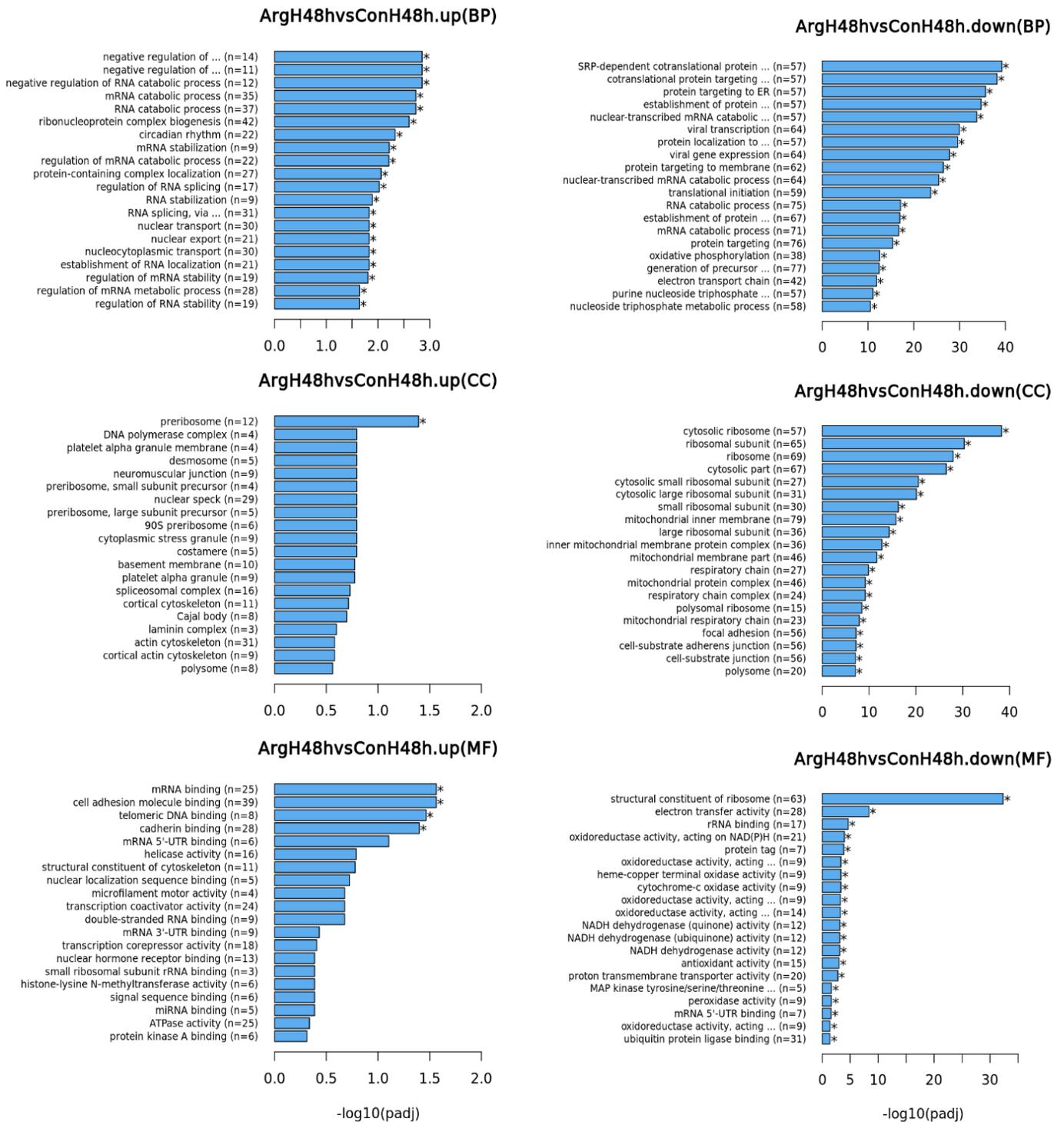


Figure S3: Top 20 upregulated and downregulated enriched gene ontology (GO) terms (biological processes/BP, molecular functions/MF, and cellular components/CC) 48 hours after Arg treatment under high glucose conditions.

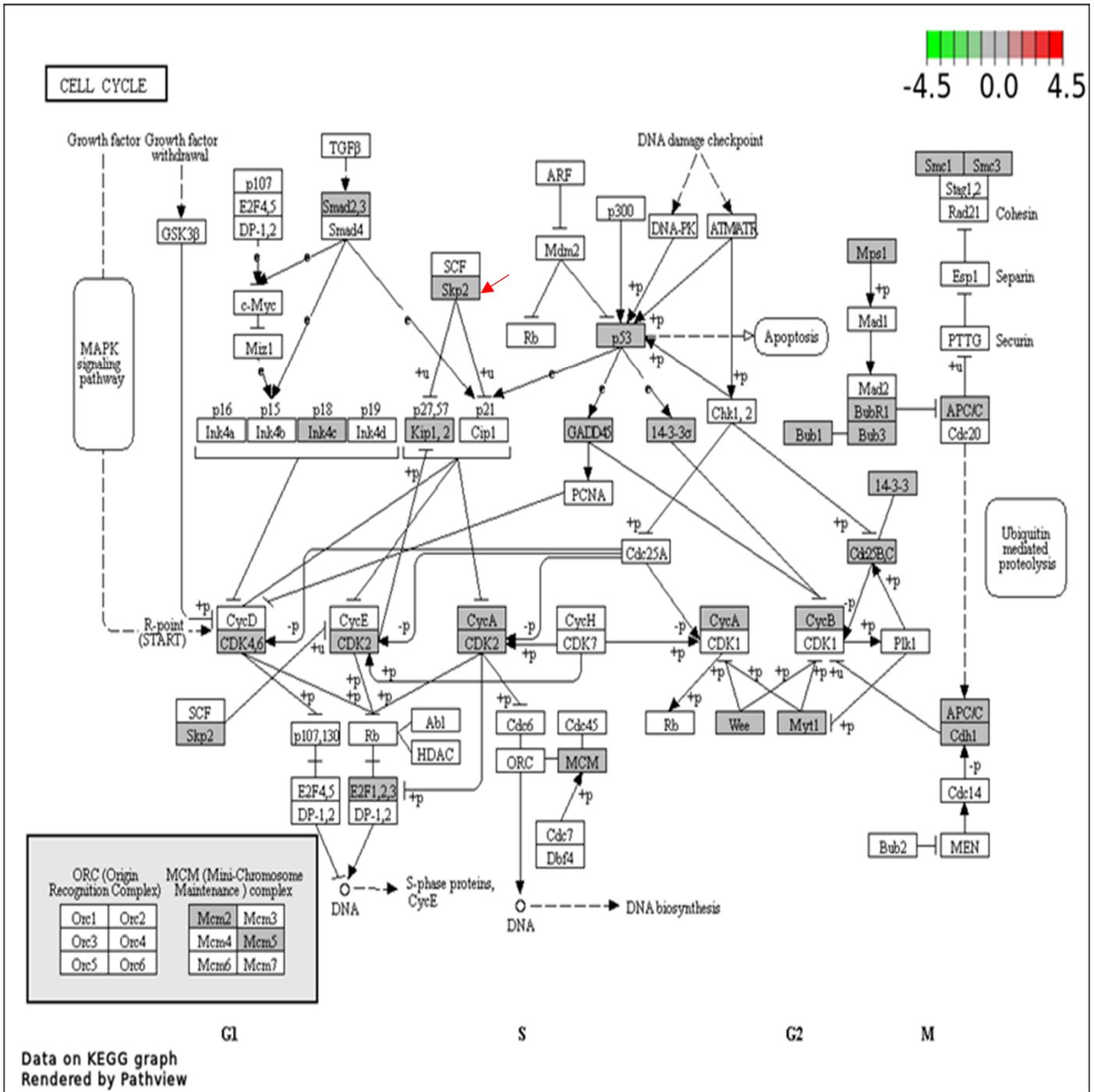


Figure S4: Significantly upregulated cell cycle pathway in Enriched Kyoto Encyclopedia of Genes and Genomes (KEGG) 24 hours after Arg treatment under high glucose conditions

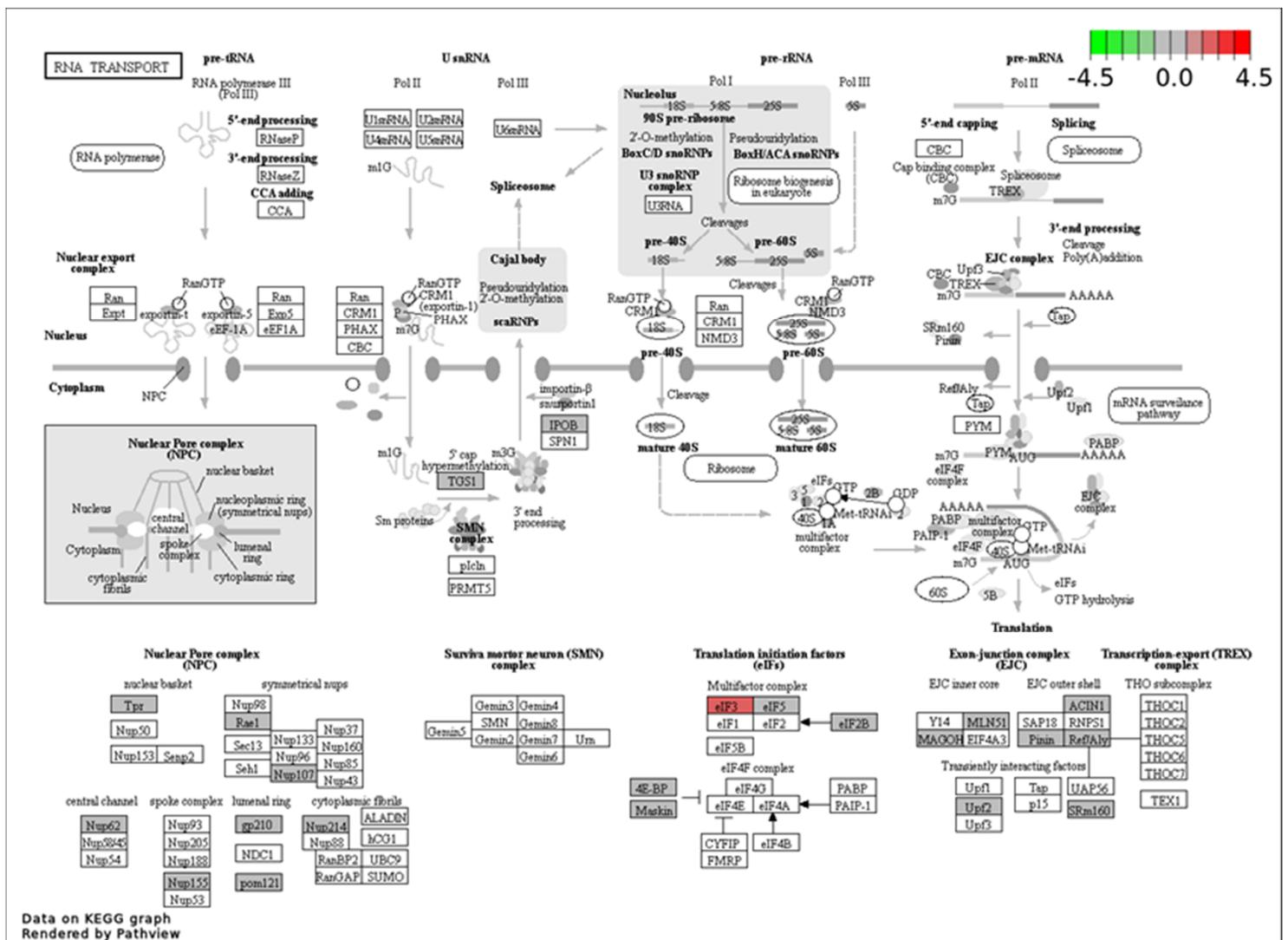
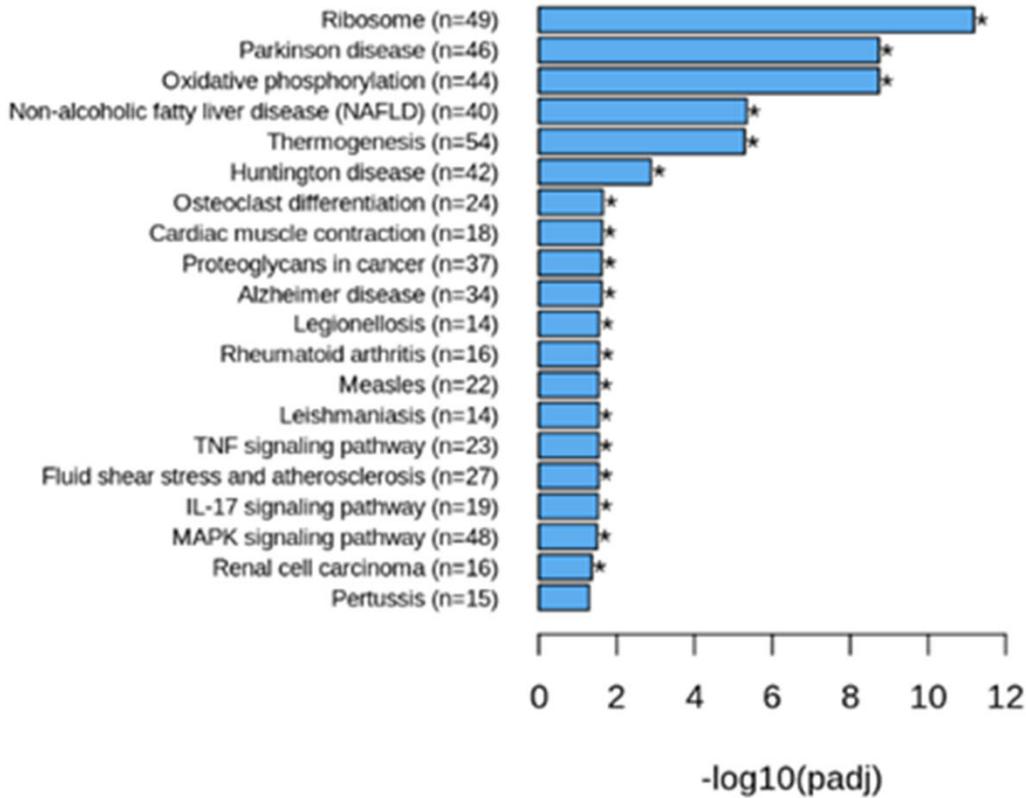


Figure S6: Significantly upregulated RNA transport in Enriched Kyoto Encyclopedia of Genes and Genomes (KEGG) pathway 24 hours after Arg treatment under high glucose conditions.

ArgH24hvsConH24h.down



ArgH48hvsConH48h.down

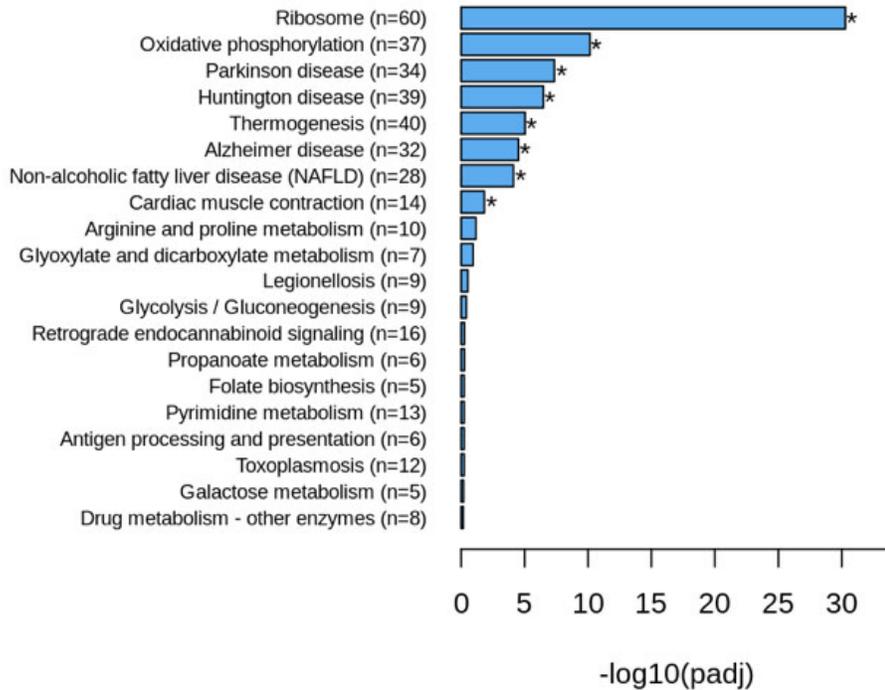


Figure S7: Top 20 downregulated enriched Kyoto Encyclopedia of Genes and Genomes (KEGG) pathways 24 and 48 hours after Arg treatment under high glucose conditions.