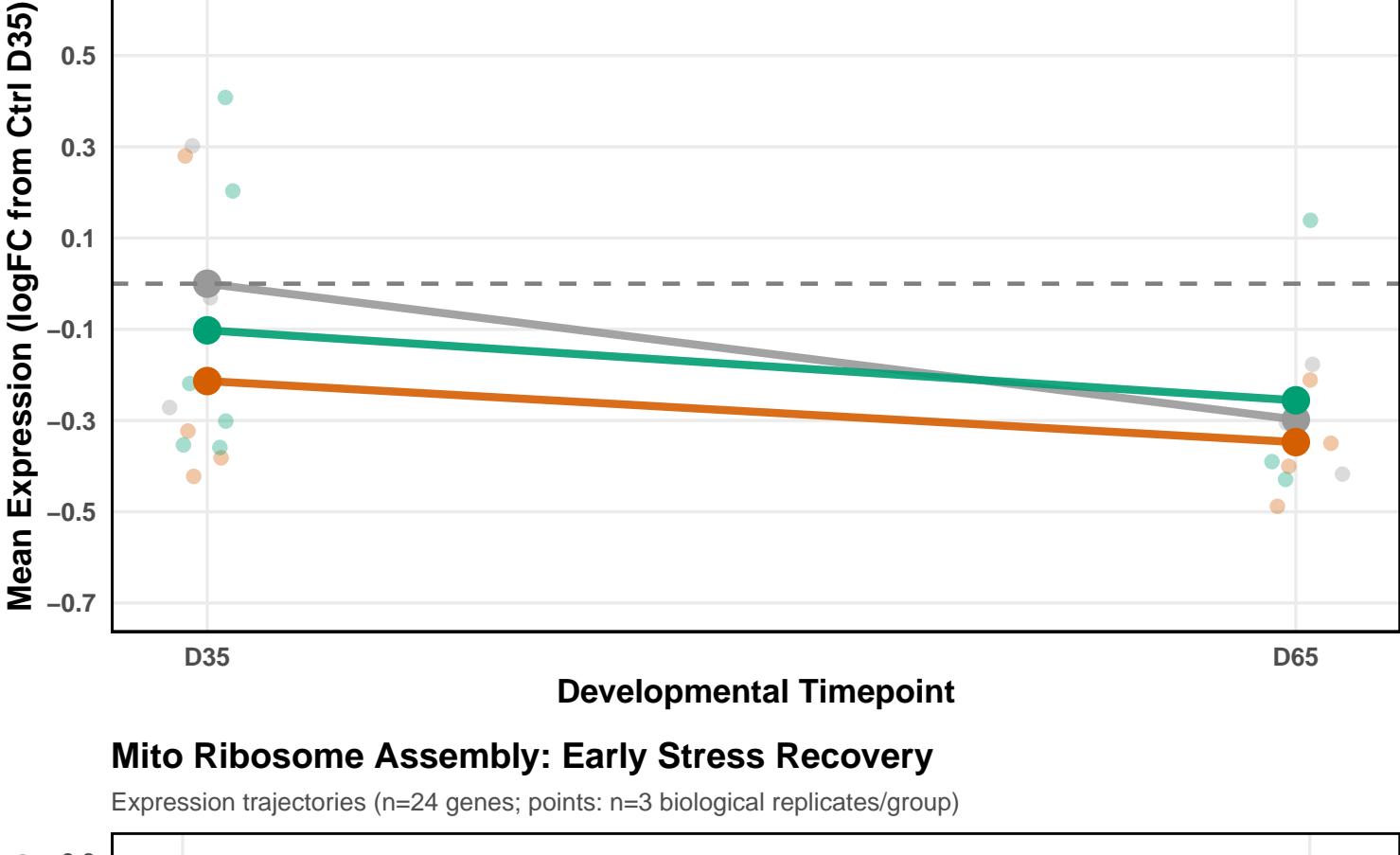


MitoCarta Compensation Pathways: D35 to D65 Dynamics

Mitochondrial pathways show compensatory upregulation during maturation

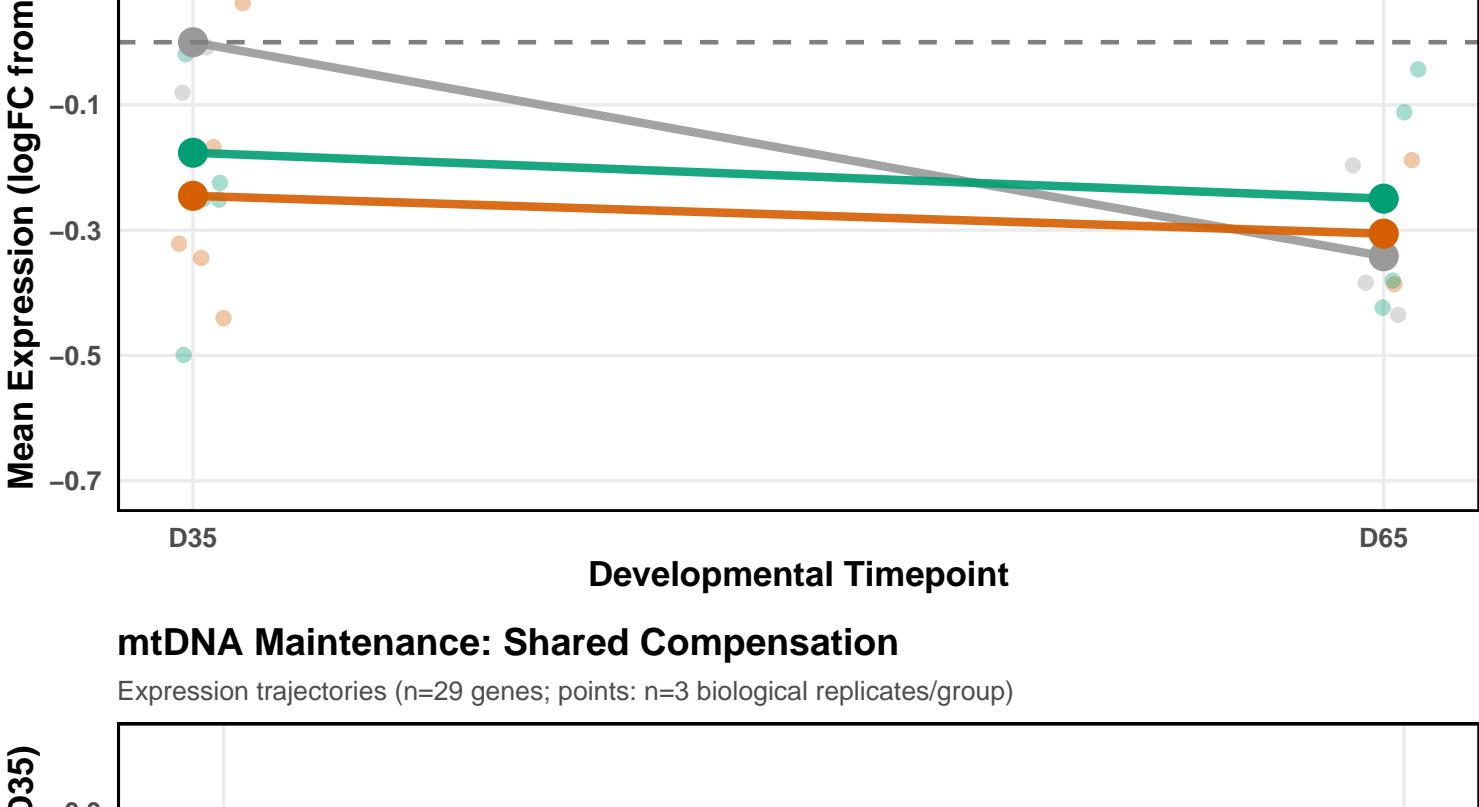
Mitochondrial Ribosome: Compensation Response

Expression trajectories (n=77 genes; points: n=3 biological replicates/group)



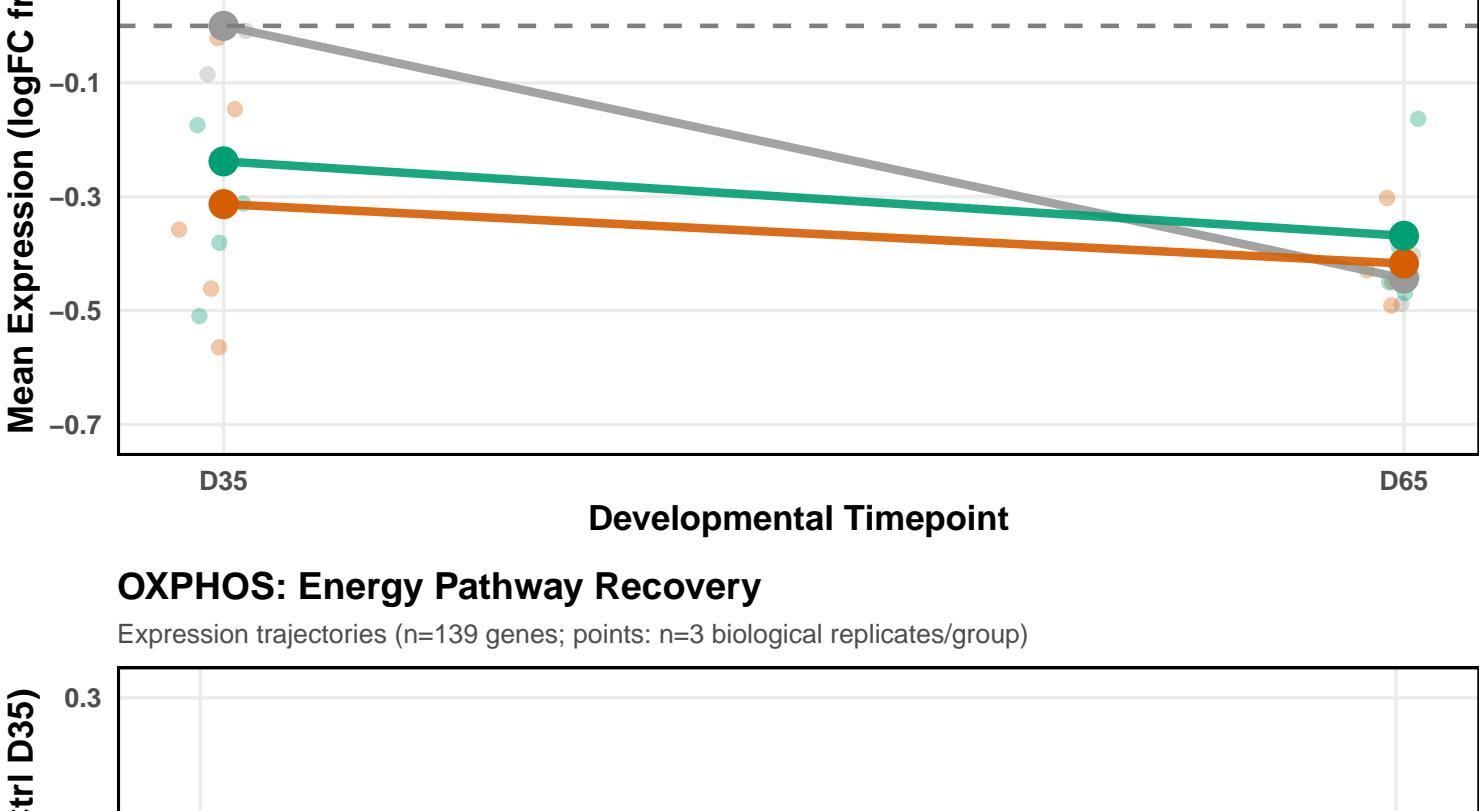
Mito Ribosome Assembly: Early Stress Recovery

Expression trajectories (n=24 genes; points: n=3 biological replicates/group)



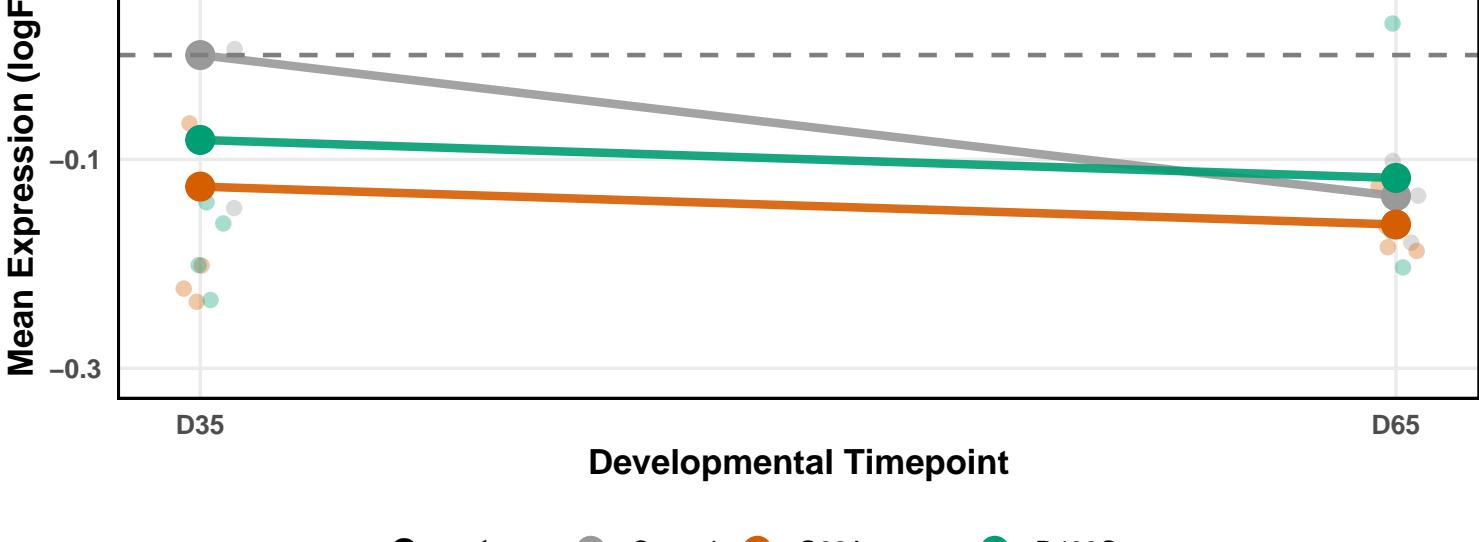
mtDNA Maintenance: Shared Compensation

Expression trajectories (n=29 genes; points: n=3 biological replicates/group)



OXPHOS: Energy Pathway Recovery

Expression trajectories (n=139 genes; points: n=3 biological replicates/group)



Genotype ● Control ● G32A mutant ● R403C mutant