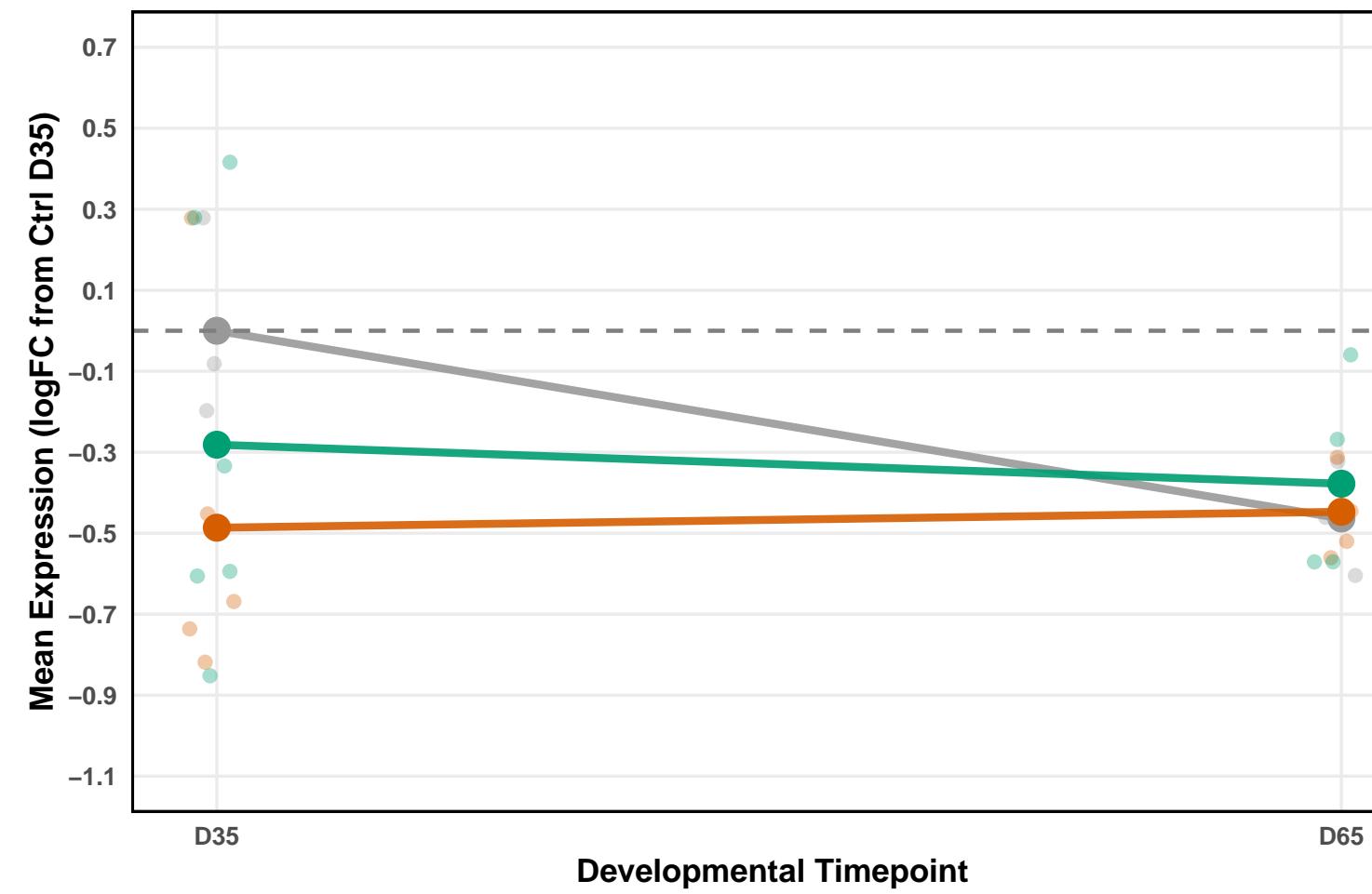


# Critical Period Trajectories: Cytoplasmic & Mitochondrial Dynamics

Left: Cytoplasmic/Synaptic modules | Right: MitoCarta compensation pathways

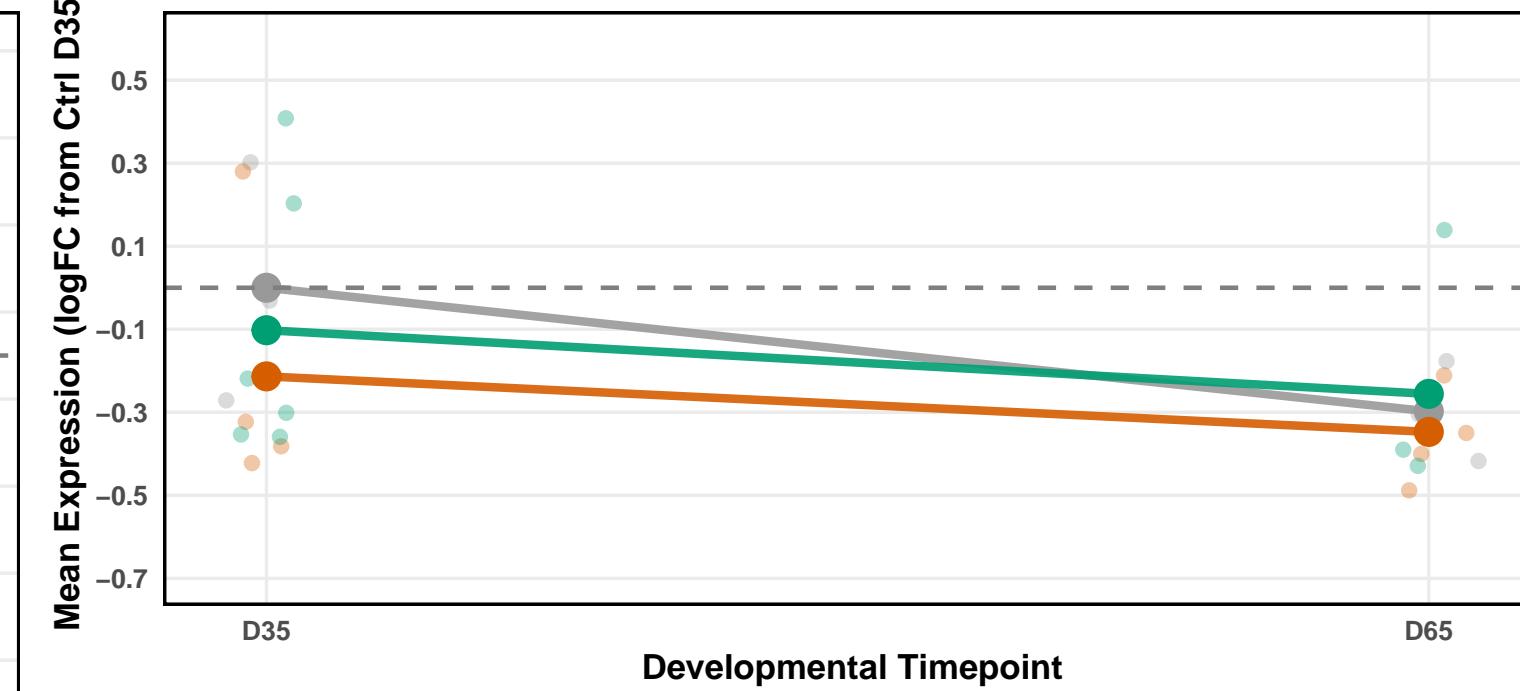
## Ribosome Biogenesis: Compensatory Upregulation

Expression trajectories (n=158 genes; points: n=3 biological replicates/group)



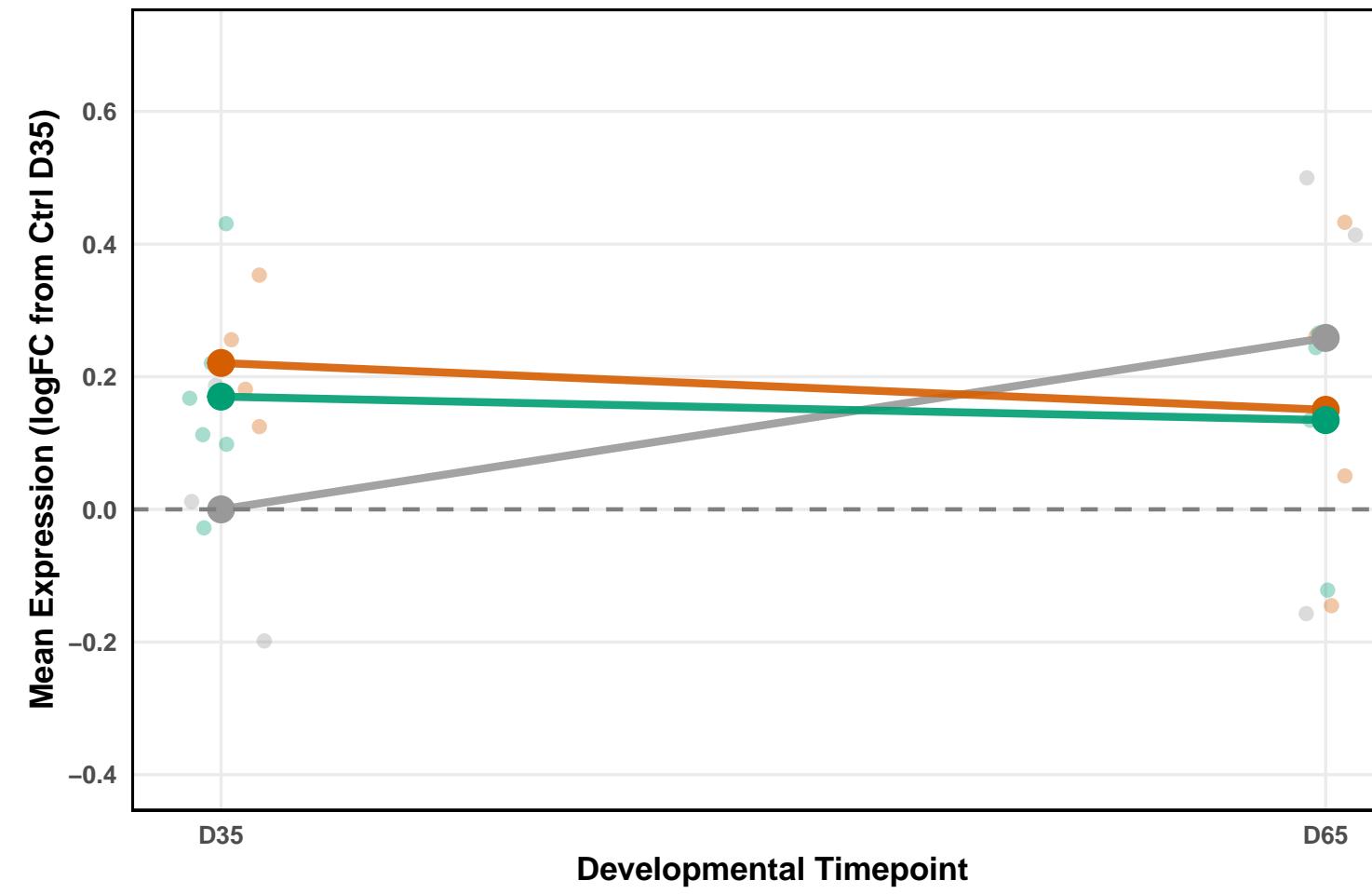
## Mitochondrial Ribosome: Compensation Response

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



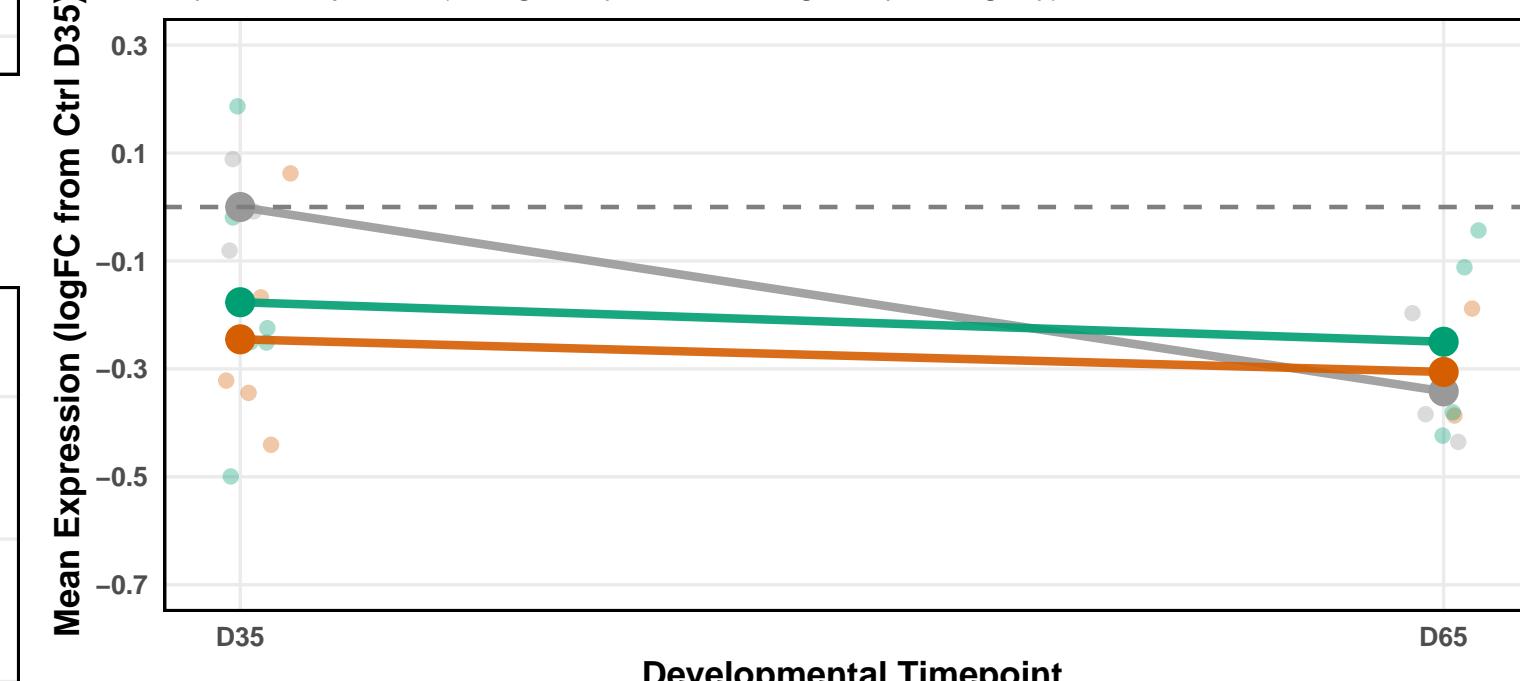
## Cytoplasmic Translation: Functional Failure

Expression trajectories (n=76 genes; points: n=3 biological replicates/group)



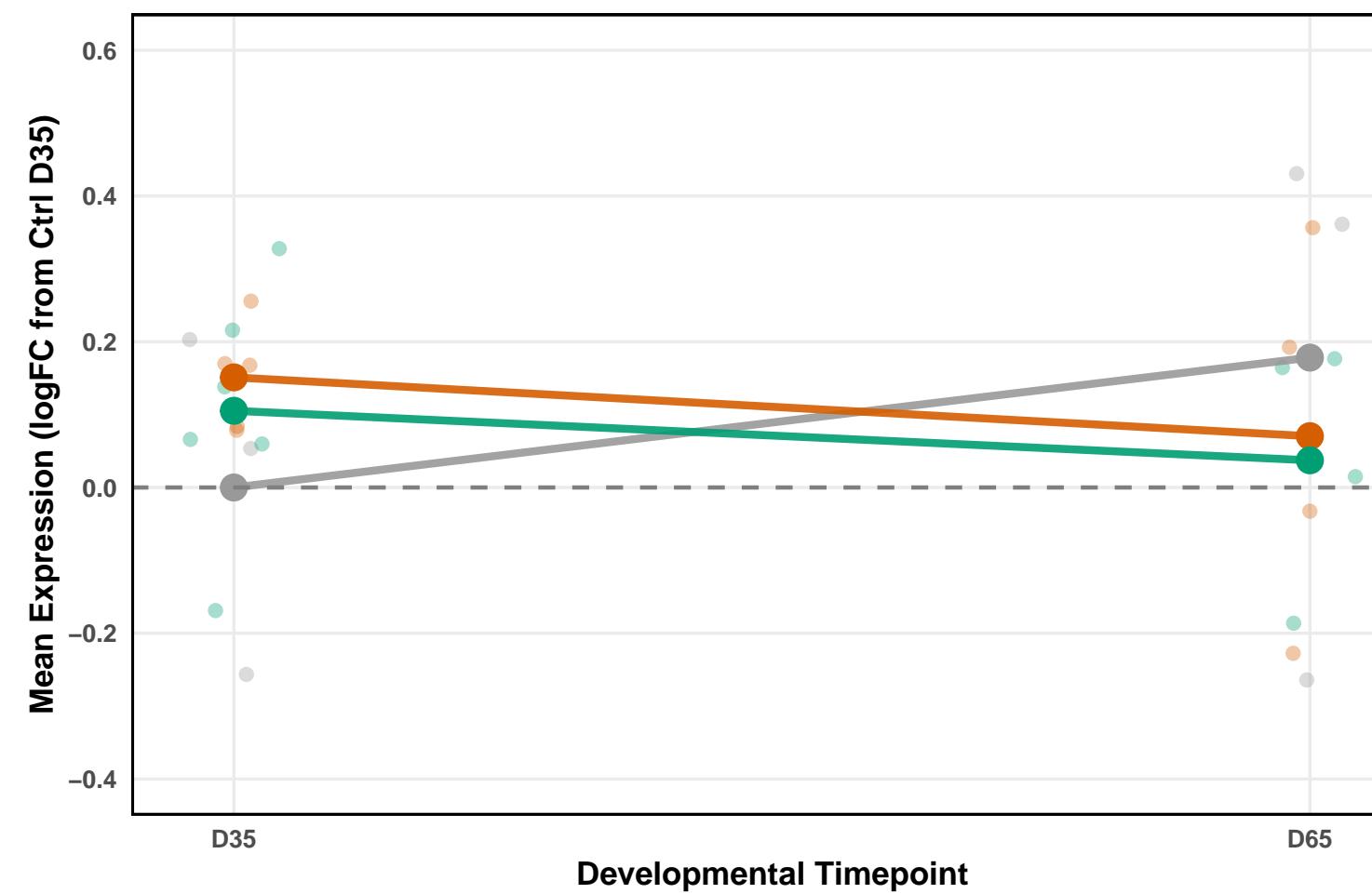
## Mito Ribosome Assembly: Early Stress Recovery

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



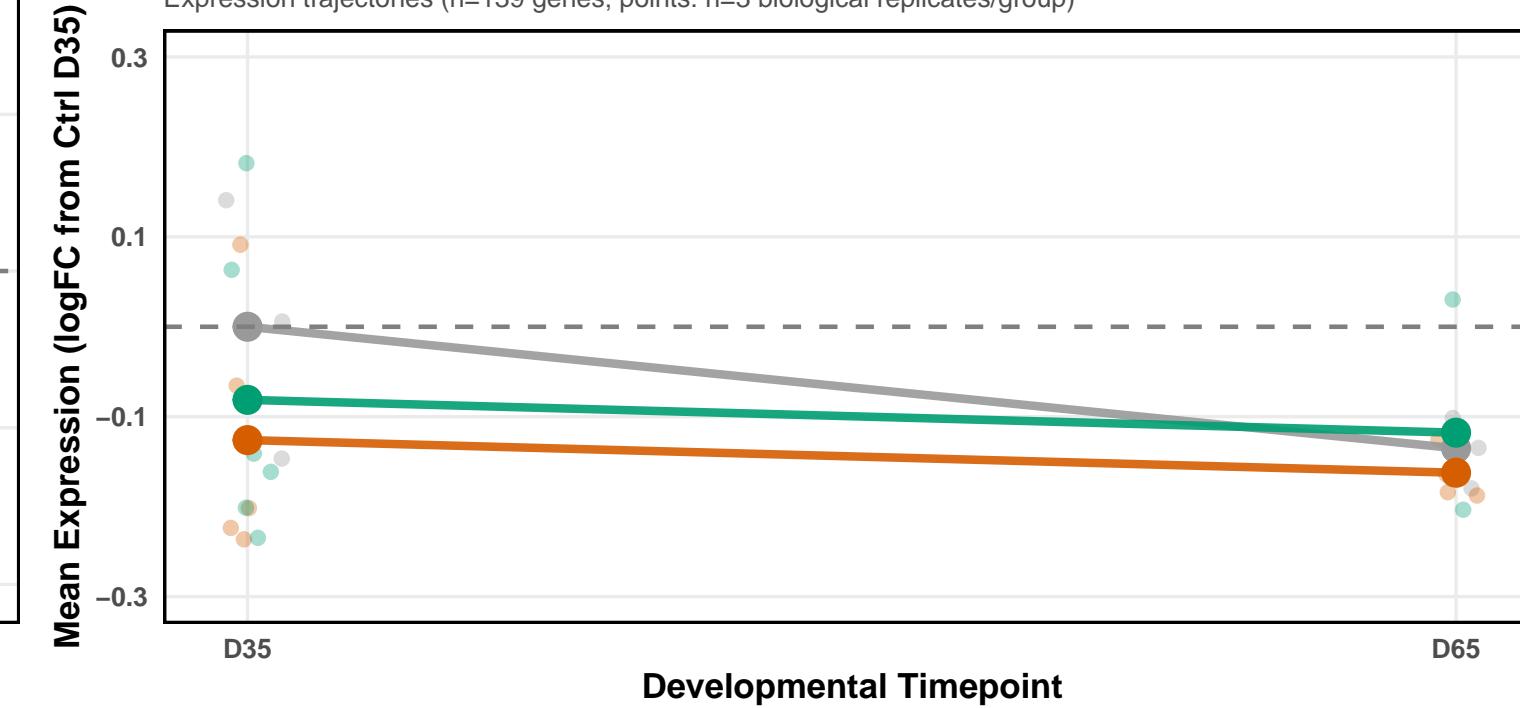
## Synaptic Ribosomes: Critical Period Failure

Expression trajectories (n=65 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

Genotype ● Control ○ G32A mutant ■ R403C mutant