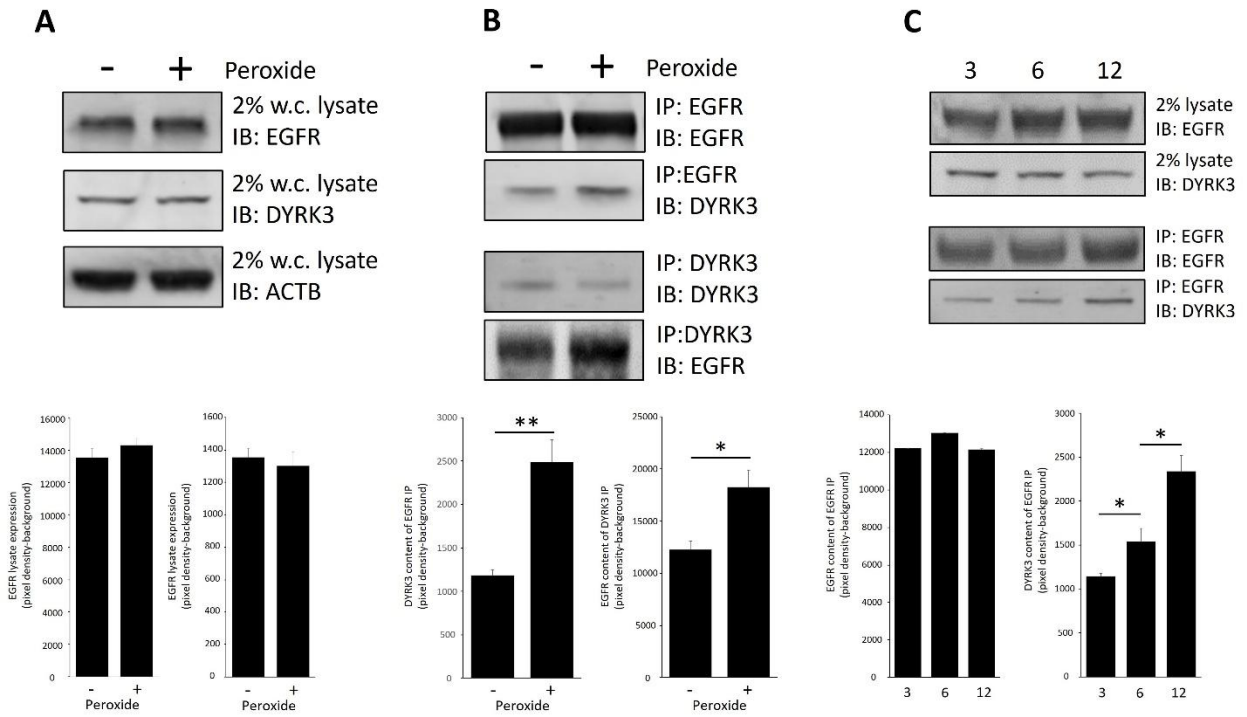
Unravelling convergent signaling mechanisms underlying the aging-disease nexus using computational language analysis

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Supplementary Figure 3. Stress and age-dependent interactions between EGFR and DYRK3. (**A**) Total protein expression levels of EGFR or DYRK3 are not affected by an acute exposure to hydrogen peroxide. The associated histograms depict the mean ± standard error of the mean for n=3 individual experiments (this applies to all histograms in the Figure). (**B**) Acute hydrogen peroxide treatment of cells results in a significant increase of the DYRK3 content of EGFR-based immunecomplexes (p=0.0039) as well as the EGFR content of DYRK3 immunecomplexes (p=0.032). (**C**) EGFR and DYRK3 expression levels remain relatively constant in the murine cerebral cortex across three age timepoints (3, 6, 12 months). In contrast there is a significant (6 vs. 3 p=0.0284; 12 vs. 6 p=0.01306) age-associated increase in the DYRK3 content of EGFR immunecomplexes extracted from cortical tissues. IB = immunoblot, IP = Immunoprecipitation.