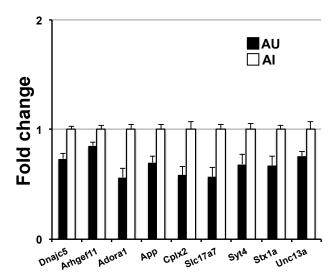


B. Activated



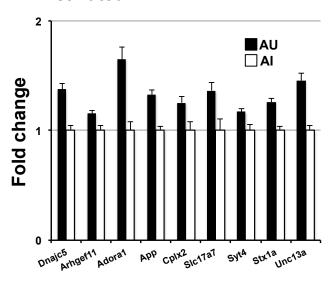


Figure S5. Relative microarray intensities of GO: Synaptic Transmission functional group genes demonstrate dynamic regulation with behavioral activation. A. Relative microarray expression intensities from from Basal aging dataset from the overlap of AU-specific decreased genes and activated AU increased genes as described in the text. B. Relative gene expression levels of the same genes in behaviorally activated dataset. All intensities normalized to AI subjects. Error bars indicate SEM. All differences significant at p<0.05 for A. and FDR<0.05 for B. Abbreviations: Dnajc5, DnaJ (Hsp40) homolog, subfamily C, member 5; Arhgef11, Rho guanine nucleotide exchange factor (GEF) 11; Adora1, adenosine A1 receptor; App, amyloid beta (A4) precursor protein; Cplx2, complexin 2, Slc17a7, solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7; Syt4, synaptotagmin IV; Stx1a, syntaxin 1A (brain), Unc13a, unc-13 homolog A (C. elegans).