

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Sheets are described individually below

1. `keg_gene_sets`: A list of the genes included in the oxytocinergic, dopaminergic, and cholinergic pathway genesets, derived from <https://www.kegg.jp> 2.
2. `AAL_atlas_gene_exp`: Gene expression values for AAL atlas brain regions from each donor for the 20 genes of interest
3. `AAL_atlas_means`: mRNA expression values (mean and standard deviation) for the 20 genes of interest in AAL atlas brain regions along with t statistics from the one-sample t-tests, p-values, FDR corrected p-values, and Cohen's d values. 3. `thalamic_hypothalamic_gene_exp`: mRNA expression values (mean and standard deviation), FDR adjusted p-value and z scores for OXTR, CD38, and OXT in thalamic and hypothalamic structures
4. `WGCNA_modules`: List of modules and genes derived from weighted gene co-expression network analysis.
5. `social_vs_nonsocial`: List of mental states categorized as social or non-social, along with OXTR, CD38, and OXT mRNA expression in brain regions associated with these mental states.

File Name: Supplementary Data 2

Description: The correlation between oxytocin pathway gene expression in the brain (OXTR, CD38, and OXT and all other protein coding genes ($n = 20736$)). Data is sorted largest to smallest correlation (Spearman's r) with associated p-values also shown
Sheets are described individually below

1. OXTR: Correlations with OXTR expression
2. CD38: Correlations with CD38 expression
3. OXT: Correlations with OXT expression