Impacts of hnRNP A1 Splicing Inhibition on the Brain Remyelination Proteome

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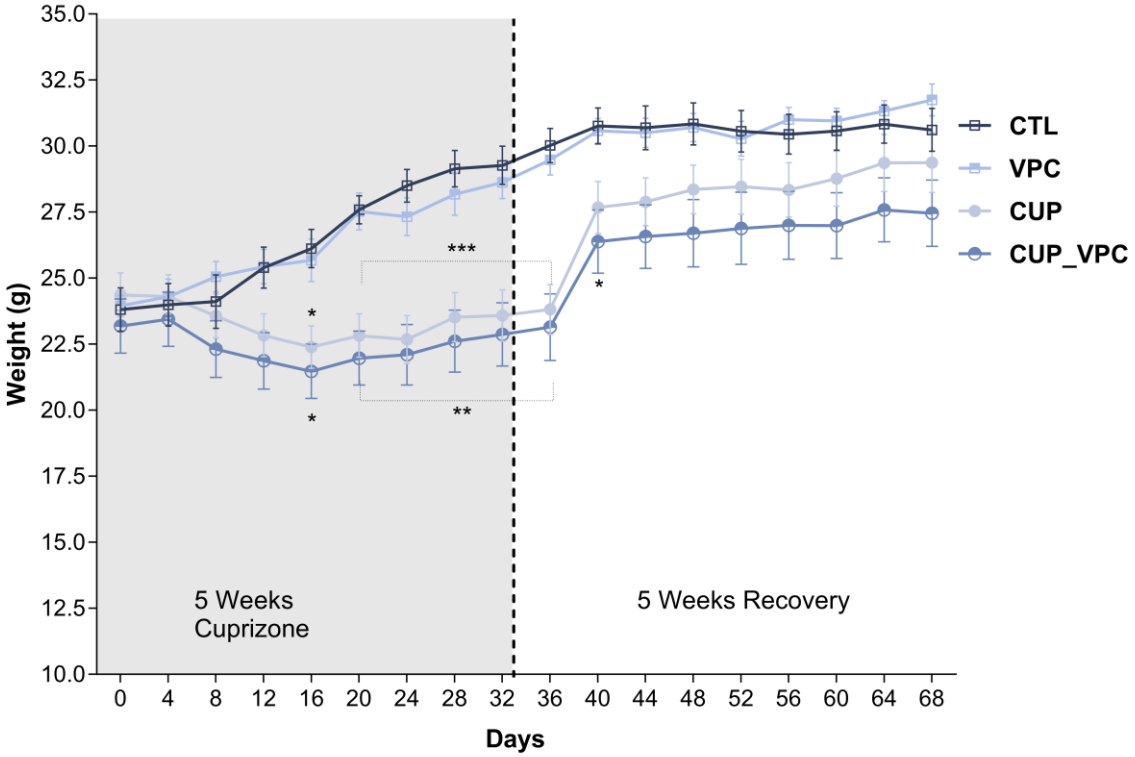
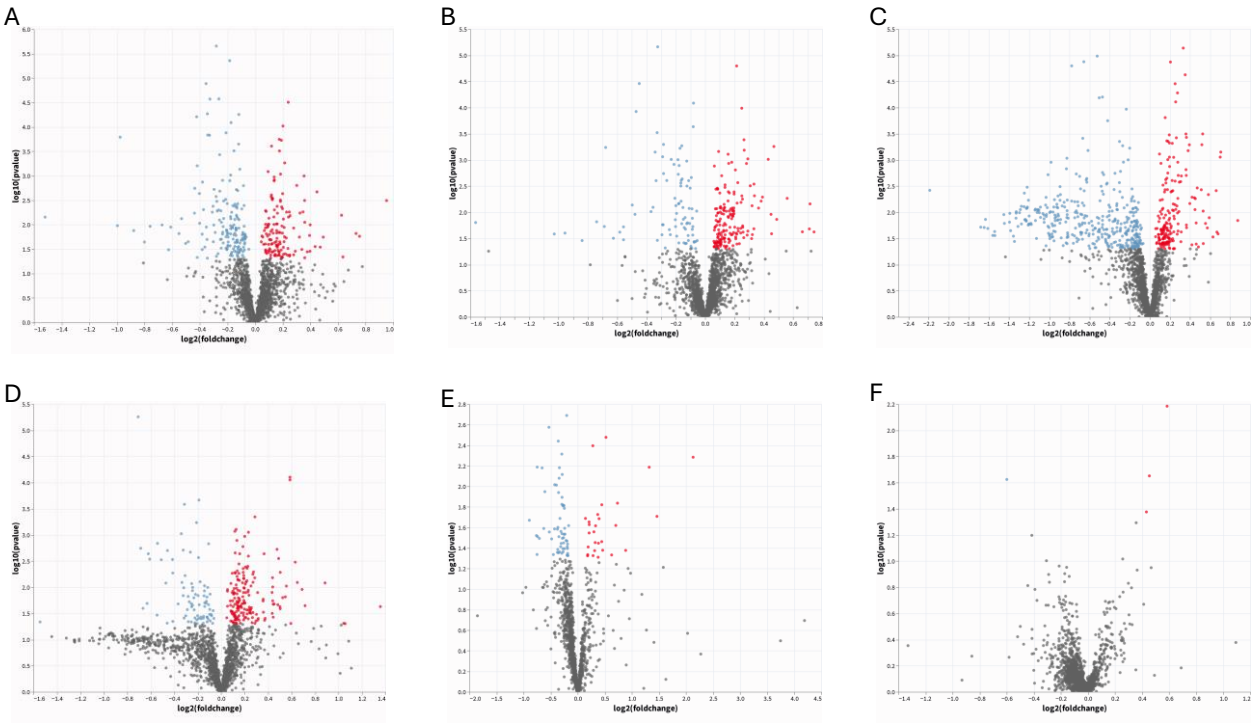
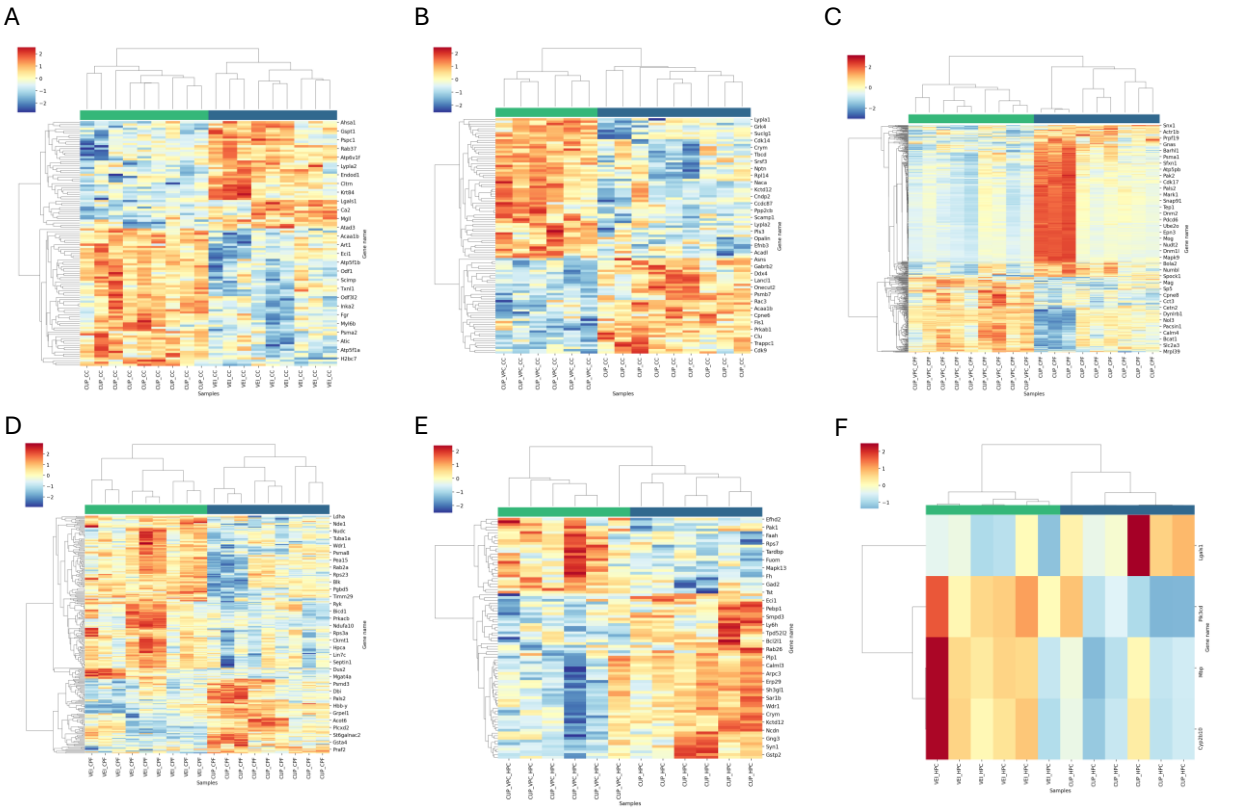
Supplementary Material



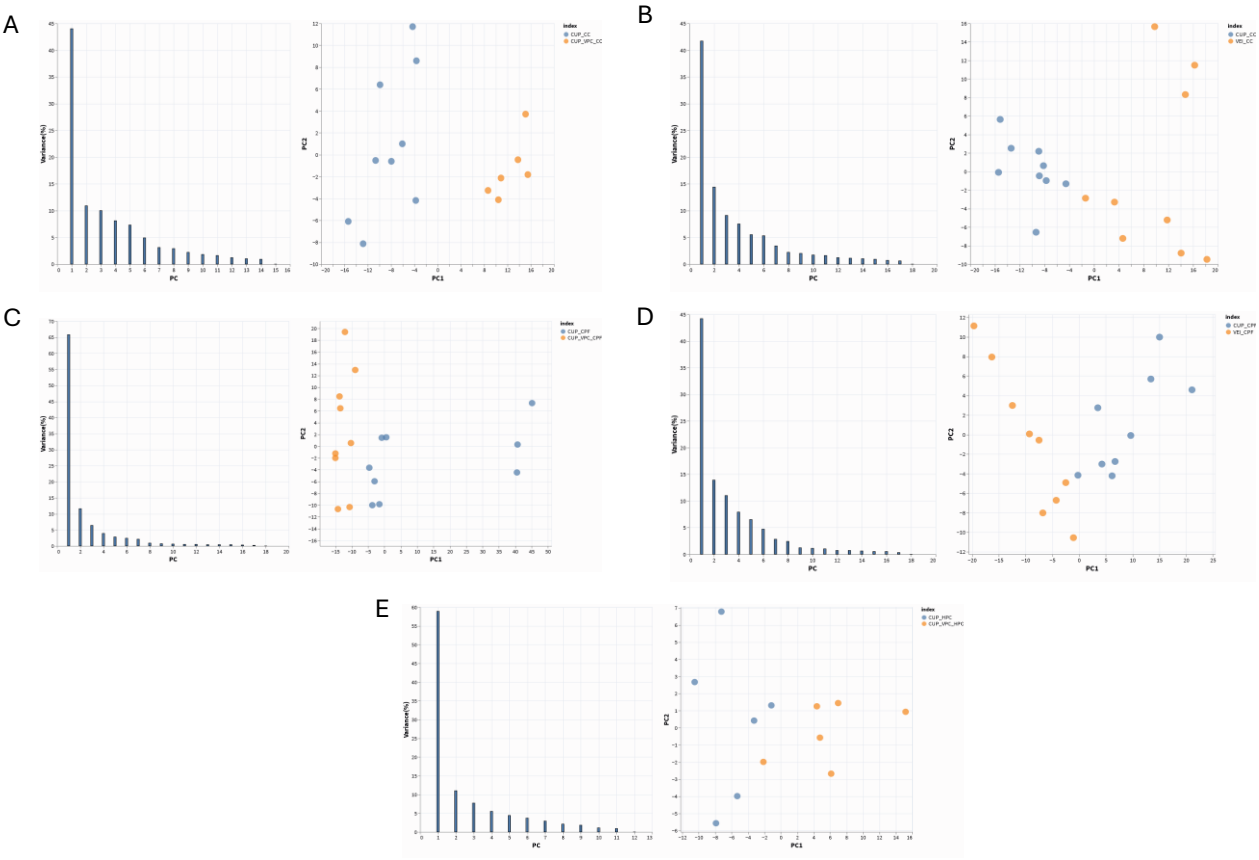
Supplementary Figure 1: Weight measurements. Average weight of animals throughout the study (error bars represent one standard deviation). The cuprizone diet was administered for 5 weeks (shaded area). Weight increased after cuprizone was removed from the diet, during the recovery period. Statistical significance was determined by two-way Anova followed by Tukey's multiple comparison test, *p<0.05; **p<0.01; ***p<0.001 compared to the control group. Shapiro–Wilk and Kolmogorov-Smirnov normality tests were applied to ensure that the data met the criteria for performing parametric tests. Once the criteria were accepted, the results were expressed as the mean ± 95% confidence interval (CI).



Supplementary Figure 2. Volcano Plots using log10(p-value) for the y-axis and log2(fold change) for the x-axis. Comparisons for the animals exposed to cuprizone for 5 weeks followed by a the remyelination period (CUP), compared to those not receiving cuprizone (CTL), and cuprizone-exposed animals treated with the inhibitor VPC-80051 during the remyelination period (CUP+VPC) and those that received the vehicle during the remyelination period (CUP) were generated separately, in that order, for A-B) Corpus Callosum, C-D) Prefrontal Cortex, and E-F) Hippocampus.



Supplementary Figure 3. Heatmap and cluster hierarchical analysis using the peak intensities of top dysregulated proteins. Heatmaps for the comparisons for the animals exposed to cuprizone for 5 weeks followed by a the remyelination period (CUP), compared to those not receiving cuprizone (CTL), and cuprizone-exposed animals treated with the inhibitor VPC-80051 during the remyelination period (CUP+VPC) and those that received the vehicle during the remyelination period (CUP) were generated separately, in that order, for A-B) Corpus Callosum,, C-D) Prefrontal Cortex, and E-F) Hippocampus.



Supplementary Figure 4. Principal Component Analysis (PCA). PCA for the comparisons for the animals exposed to cuprizone for 5 weeks followed by a the remyelination period (CUP), compared to those not receiving cuprizone (CTL), and cuprizone-exposed animals treated with the inhibitor VPC-80051 during the remyelination period (CUP+VPC) and those that received the vehicle during the remyelination period (CUP) cuprizone treatment were generated separately, in that order, for A-B) Corpus Callosum, C-D) Prefrontal Cortex, and E) Hippocampus.