Summary of Differential Expression and Correlation Analysis
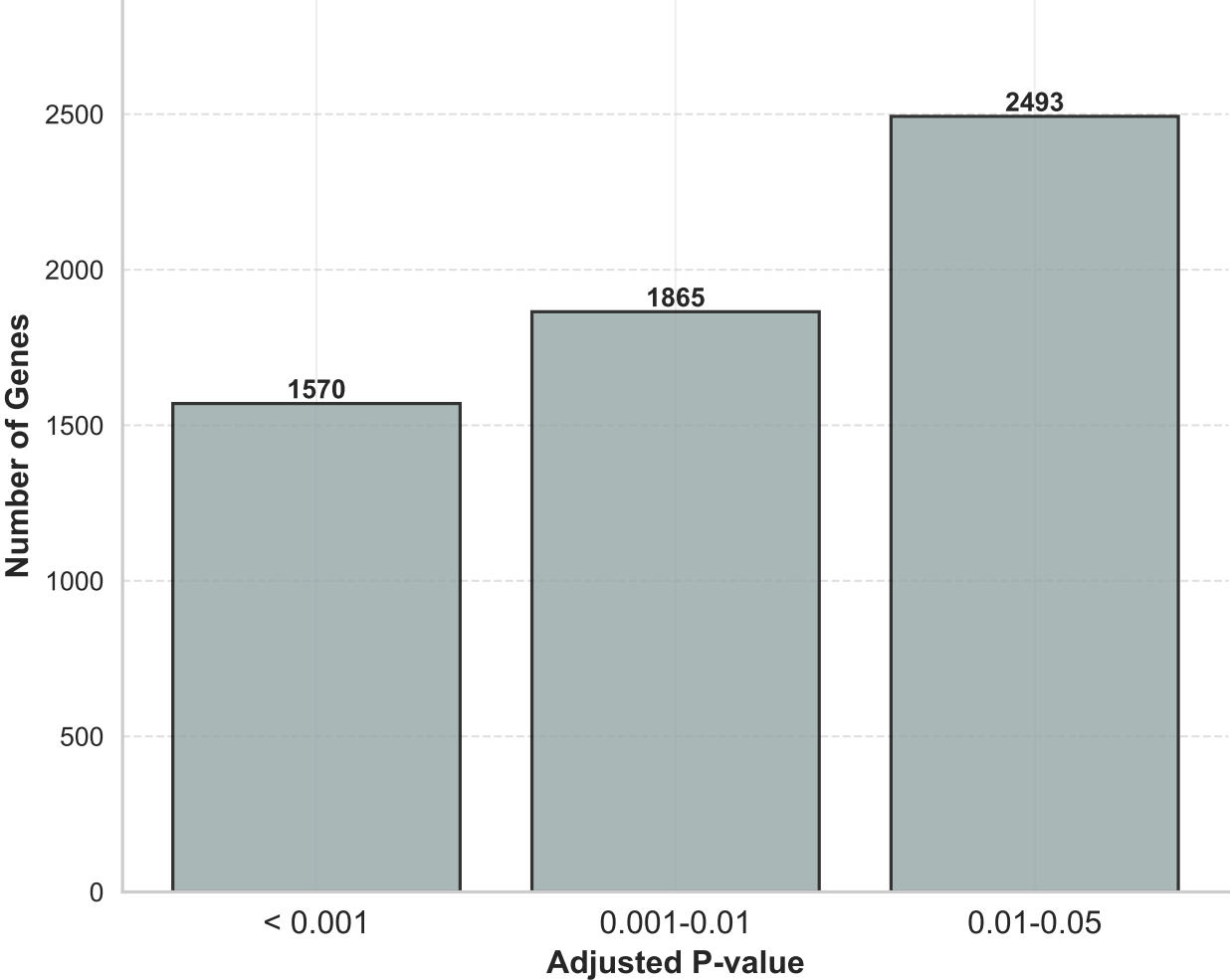
A. Significant DEGs Distribution

Downregulated: 2743 (46.3%)
Upregulated: 3185 (53.7%)
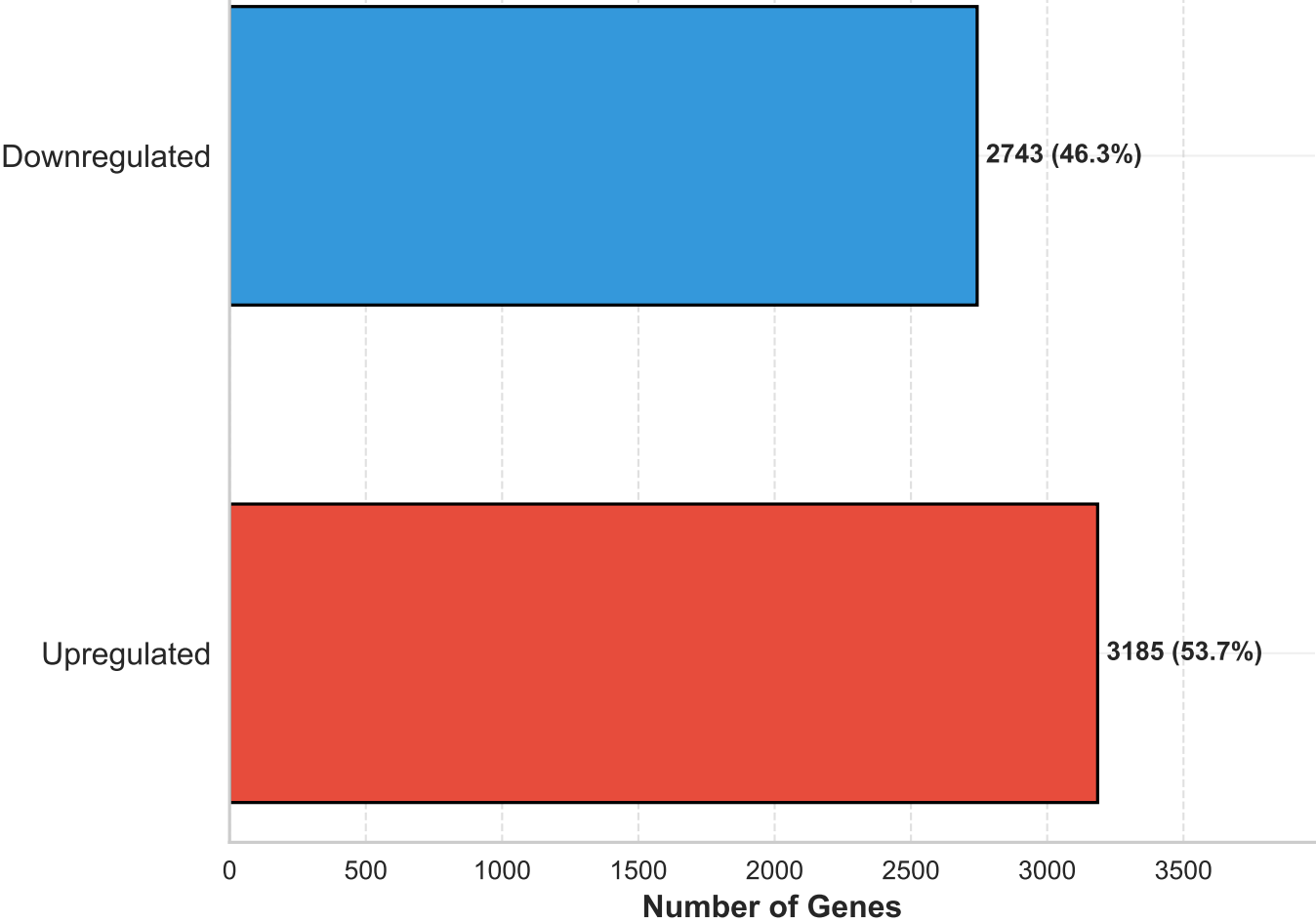
B. Effect Size Distribution of DEGs

|log2(Fold Change)|	Number of Genes
0-0.5	4066
0.5-1	1628
1-1.5	190
1.5-2	39
>2	5
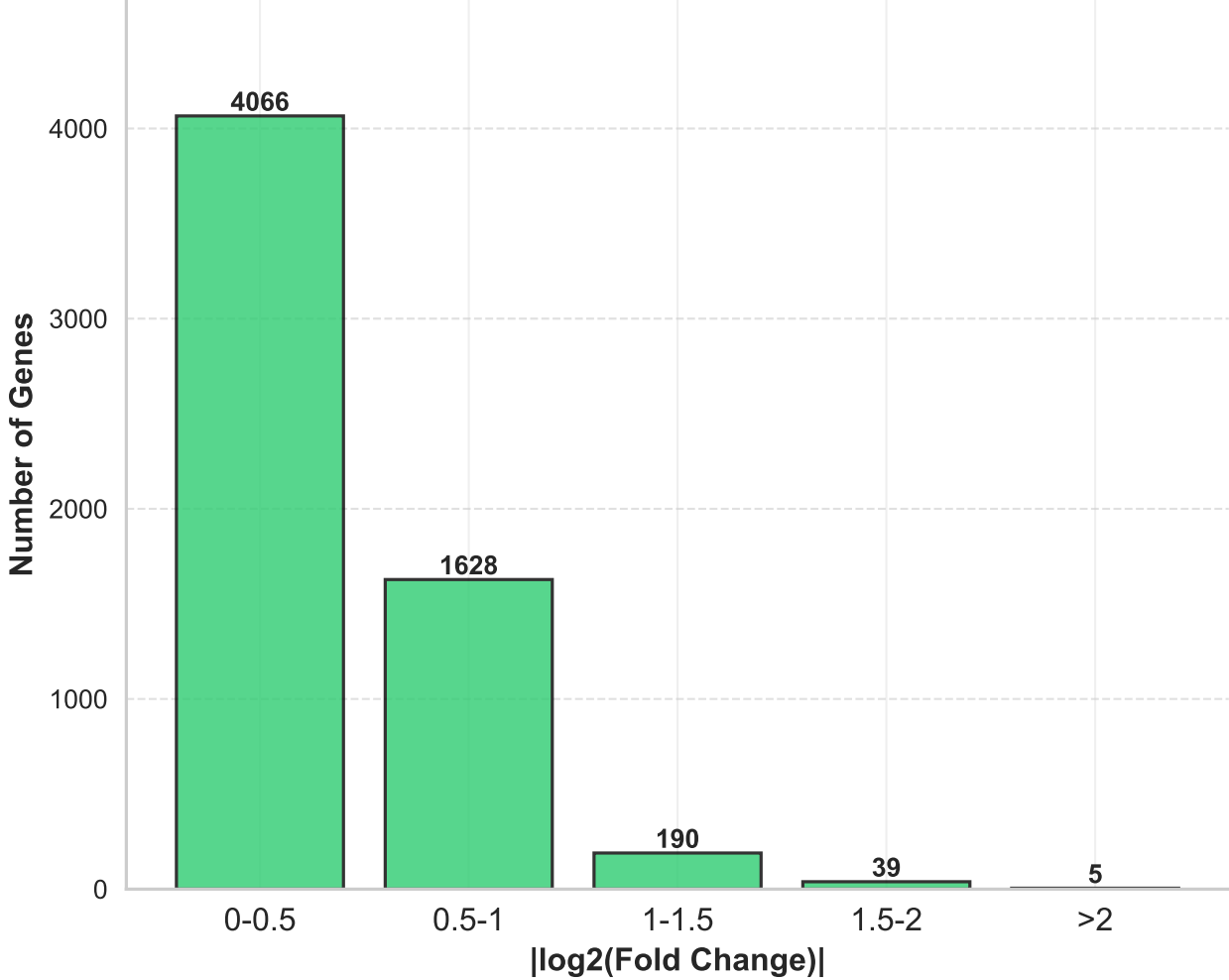
C. Significance Level of DEGs

Adjusted P-value	Number of Genes
< 0.001	1570
0.001-0.01	1865
0.01-0.05	2493

D. Significant Correlations Distribution

Negative: 471 (43.1%)
Positive: 622 (56.9%)