Table 1: EASE Test

	in List	Not in List	in the Genome
In gene group	g-1	G-g	G
Not in gene group	L-g	N-G-L+g	N-G
Total	L	N-L	N

$$p = (\frac{\binom{N-G}{L-g} \times \binom{G-1}{g-1}}{\binom{N}{L-1}})$$

The gene list statistics are estimated using the EASE score, which is a modified version of the Fisher Exact test for enrichment. The exact p-values are estimated using the equation x and corrected for multiple tests using Benjam