$$GenomeSize = \sum_{i=1}^{n} Function_i$$

$$Count = Sample_i \quad (1)$$

$$GeneRatio = \frac{Sample_i}{Function_i} \quad (2)$$

$$EnrichFactor = \frac{Sample_i}{SampleSize} / \frac{Function_i}{GenomeSize} \quad (3)$$

Hypergeometric Test (4)

$$p = \frac{\binom{SampleSize}{Sample_i}\binom{GenomeSize - SampleSize}{Function_i - Sample_i}}{\binom{GenomeSize}{Function_i}}$$

$$HT = -\log_{10}(p)$$

Fisher's Exact Test (5)

$SampleSize$	$GenomeSize$
$SampleSize - Sample_i$	$GenomeSize - Function_i$

$$SampleSize = \sum_{i=1}^{n} Sample_i$$