

$$P = 1 - \sum_{i=0}^{m-1} \frac{\binom{M}{i} \binom{N-M}{n-i}}{\binom{N}{n}}$$

Figure S10. Calculation formula for hypergeometric distribution.

N: The number of metabolites with KEGG annotations among all metabolites. n: The number of differential metabolites in N. M: The number of metabolites in a certain KEGG pathway in N. m: The number of differential metabolites in a certain KEGG pathway in M.