

Equation 1

$$E = \log_2 \text{median}(w_1 2^{RMA_1}, w_2 2^{RMA_2}, \dots, w_n 2^{RMA_n}) \quad (w_i > 0.1)$$

Equation 2

$$\text{Distance} = 1 - \frac{\text{cov}(\text{rank}_{gene}, \text{rank}_{smORF})}{\sigma_{\text{rank}_{gene}} \cdot \sigma_{\text{rank}_{smORF}}}$$

Equation 3

$$p_S = \sum_{x=I_S}^{N_S} \frac{\binom{M_S}{x} \binom{T_S - M_S}{N_S - x}}{\binom{T_S}{N_S}}$$

Equation 4

$$p = \sum_{x=\sum I_S}^{\sum N_S} \frac{\binom{\sum M_S}{x} \binom{\sum T_S - \sum M_S}{\sum N_S - x}}{\binom{\sum T_S}{\sum N_S}}$$