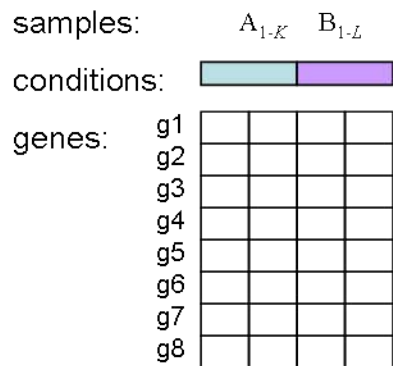


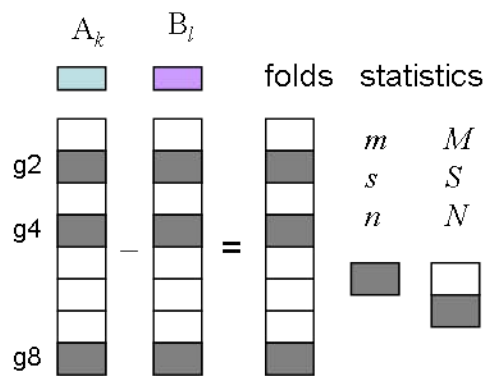


Microarray data (log based)



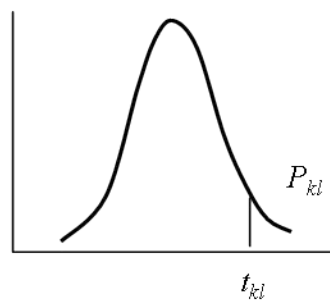
b

1-on-1 comparison



Two-sample t-test

$$t_{kl} = (m - M) / \sqrt{s^2 / n + S^2 / n}$$



c

Summarization and meta-test

$$x = -\frac{1}{L} \sum_{kl} \log P_{kl}$$

$$P(X > x) \sim \text{Gamma}(K, 1)$$