ChIP-chip probe-level data

Study 1 2 ... N

Perform model-based probe standardization and calculate MAT/MA2C score of individual study

Normalize score across different studies and identify ChIP-peaks using Stouffer's method

ChIP-seq aligned-tag data

Study 1 2 ... M

Estimate study-specific shift-size of ChIP-seq tags with MACS model and shift the tags of individual study

Pool shifted tags from different studies and identify ChIP-peaks using a dynamic Poisson model