

(a)

ChIP-chip probe-level data

Study 1

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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

(b)

ChIP-seq aligned-tag data

Study 1

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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