

Prior knowledge of marker genes

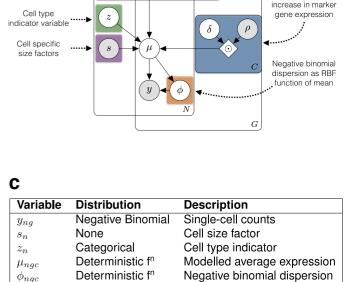
Cells

Probability cell is of type

a

Expression count matrix for

Dim-1



Marker over-expression

Marker-cell type matrix

Covariate coefficients

Covariates (batch or sample)

Dispersion basis coefficients

Cell type specific

b

0000

Batch & sample

 δ_{gc}

 ρ_{qc}

 x_{nn}

 β_{pq}

a, b

Log-Normal

None

None

None

Gaussian