A

Spot array

UMAP2, UMAP1

Sampling

y, x

B

Gridding

C

Z_{sr} X_{rf}

q_{sf} → W_{sf} ← d_f

E_{sf}

Cell2location

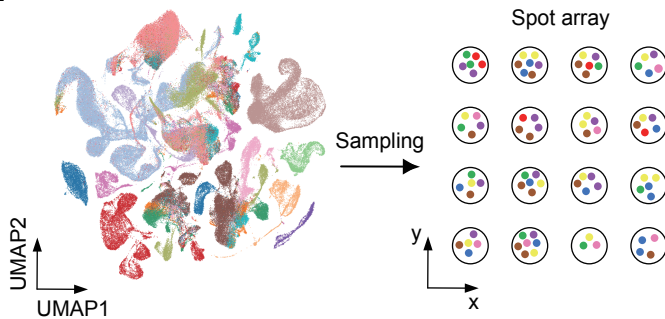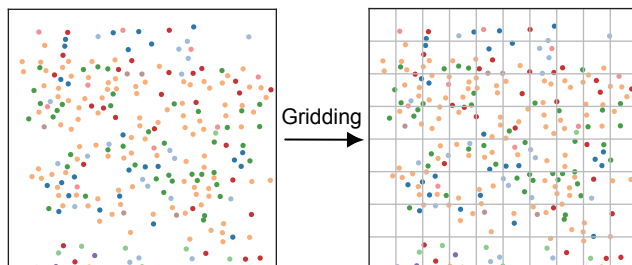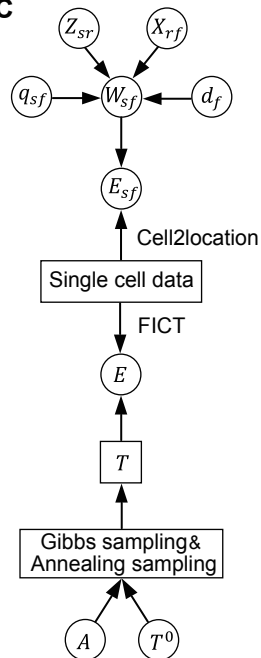Single cell data

FICT

E

T

Gibbs sampling&
Annealing sampling

A T^0

D

Method	Spatial pattern	Layer customization	Consistency	Reproducibility	Practicality
stereoscope	×	×	×	√	★
RCTD	×	×	×	-	★
STRIDE	×	×	×	-	★
STdeconvolve	√̵	×	√	-	★
SpatialPCA	√̵	√	√	-	★
BASS	√̵	√	×	√	★★★
FICT	√	×	×	√	★
cell2location	√̵	×	×	√	★
scDesign3	√̵	×	√	√	★★
SRTsim	√̵	√	√	√	★★★
Spider	√	√	√	√	★★★