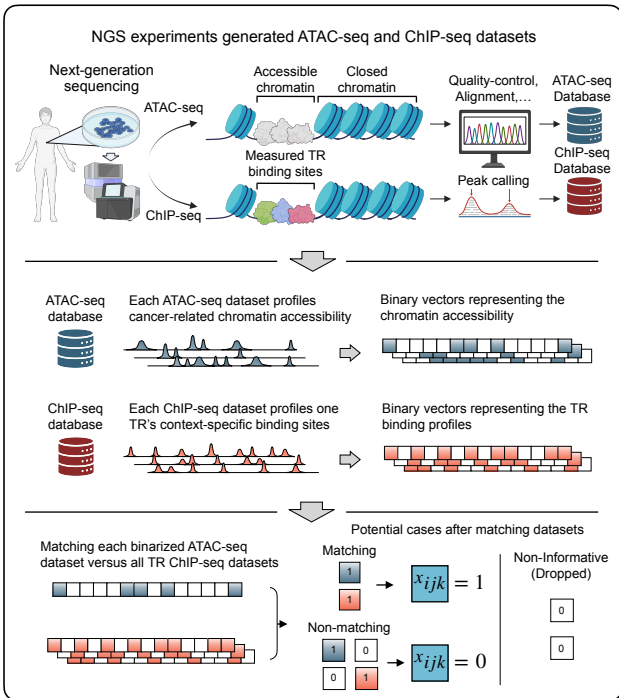


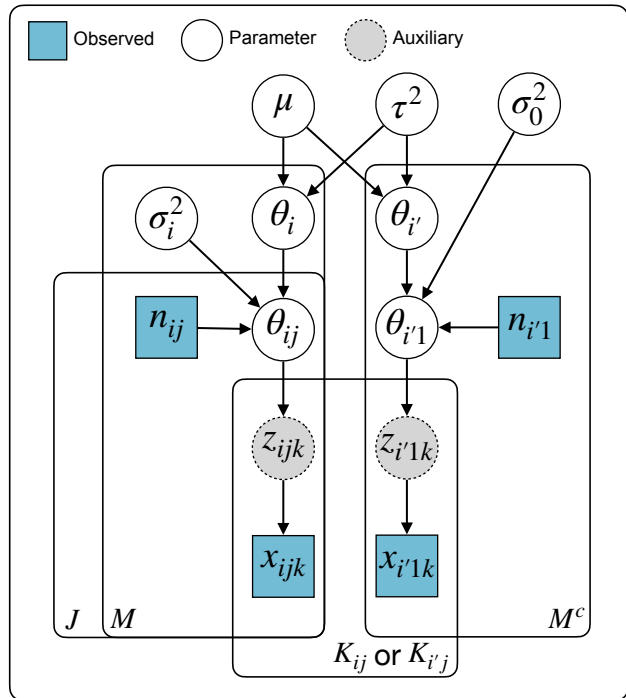
a

## Data preprocessing and region mapping



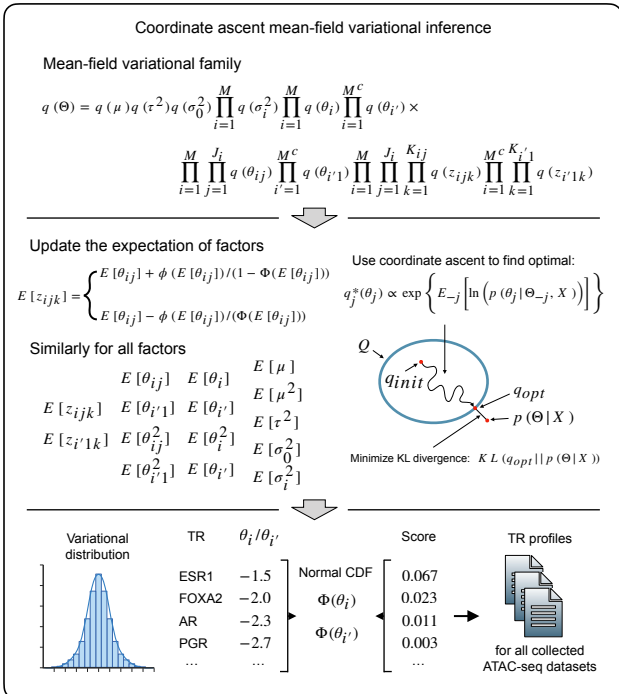
b

## TRex hierarchical model



c

## Mean-field variational inference



d

## Integration results for TRex online portal

