

Trajectory Analysis

Pseudotime Inference

Order cells along developmental paths

Branching Processes

Identify cell fate decisions

Monocle Algorithm

Reverse graph embedding

Slingshot Method

Cluster-based trajectory inference

Validation Approaches

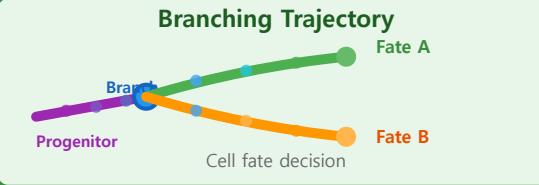
Known genes, time-series data

💡 Assumes continuous progression - verify biological relevance

Linear Trajectory



Branching Trajectory



Complex Trajectory

