

a)					Method											b)	Summary				
					Inferable trajectory types											Aggregated scores per experiment					
					Priors required	Wrapper type	Platform	Topology inference	Cycle	Linear	Bifurcation	Multifurcation	Tree	Connected	Disconnected	Overall	Accuracy	Scalability	Stability	Usability	
Graph methods					×	Traj	Python	Free													
PAGA					×	Traj	Python	Free													
RaceID / StemID						Proj	R	Free													
SLICER					×	Cell	R	Free													
Tree methods																					
Slingshot						Traj	R	Free													
PAGA Tree					×	Traj	Python	Free													
MST						Proj	R	Free												Off-the-shelf	
pCreode						Proj	Python	Free													
SCUBA						Cluster	Python	Free													
Monocle DDRTree						Cell	R	Free													
Monocle ICA					×	Cell	R	Param													
cellTree maptpx						Cell	R	Free													
SLICE						Traj	R	Free													
cellTree VEM						Cell	R	Free													
EIPiGraph						Traj	R	Free													
Sincell						Cell	R	Free													
URD					×	Traj	R	Free													
CellTrails						Cell	R	Free													
Mpath					✖	Cluster	R	Free													
CellRouter					×	Cell	R	Free													
Multifurcation methods																					
STEMNET					✖	Prob	R	Param													
FateID					✖	Prob	R	Param													
MFA					×	Prob	R	Param													
GPfates					×	Prob	Python	Param													
Bifurcation methods																					
DPT						Traj	R	Fixed													
Wishbone					×	Traj	Python	Param													
Linear methods																					
SCORPIUS						Linear	R	Fixed													
Component 1						Linear	R	Fixed												Off-the-shelf	
Embeddr						Linear	R	Fixed													
MATCHER						Linear	Python	Fixed													
TSCAN						Linear	R	Fixed													
Wanderlust					×	Linear	Python	Fixed													
PhenoPath						Linear	R	Fixed													
topslam					×	Linear	Python	Fixed													
Waterfall						Linear	R	Fixed													
EIPiGraph linear						Traj	R	Fixed													
ouijaflow						Linear	Python	Fixed													
FORKS						Linear	Python	Fixed													
Cyclic methods																					
Angle						Cycle	R	Fixed												Off-the-shelf	
EIPiGraph cycle						Traj	R	Fixed													
reCAT						Cycle	R	Fixed													
Prior information required					Not shown, insufficient data points																
None					CALISTA					ouija											
× Weak: Start or end cells					cellTree Gibbs					pseudogp											
✖ Strong: Cell grouping or time course					GrandPrix					SCIMITAR											
					MERLoT					SCOUP											