a)	Method Characteristics b)							Evaluation Summary							
	The application scenarios					Scores of overall performace and four criteria									
Class 1 Method	Р/ ₉	trorm Prior Information	el Gront	DEGE	Batches Trajec	lno _{ti} on	Overall		Accuracy	Fu ^r 1	ctionality	9	calability	Usability	
SPARSim	R	group labels (optional) ERCC spike-in (optional)	✓	✓	✓			1		1		1			
Splat	R		✓	✓	✓										
powsimR	R	ERCC spike-in (optional)	✓	✓	✓					1		1			
SplatPop	R		✓	✓	✓							1			
SPsimSeq	R	group labels (optional) batch labels (optional)	✓	✓	✓			1							
Class 2 Method															
Lun	R		✓	✓						1		1			
scDesign	R		✓	✓								1			
muscat	R	group labels (optional)	✓	✓				1 1 1		1		1			
Lun2	R	group labels	✓	✓						1		1		1	
ESCO	R	group labels (optional)	✓	✓							_	1			
Class 3 Method															
scDesign2	R	group labels (optional)	✓					1							
POWSC	R		✓												
hierarchicell	R		✓												
SparseDC	R	group labels	✓												
Class 6 Method									-						
ESCO-tree	R	group labels (optional)	✓	✓	✓							1			
ESCO-traj	R	group labels (optional)	✓	√	✓							1			
TedSim	R	group labels (optional)	✓		✓										
SymSim	R	group labels (optional)	✓		✓										
VeloSim	R	group labels (optional)	✓		✓										