

A Noise

		stability single cell/bulk		B cell	Cancer associated fibroblast	Dendritic cell	Endothelial cell	Macrophage/Monocyte	NK cell	T cell CD4+	T cell CD4+ (non-regulatory)	T cell CD8+	T cell regulatory (Tregs)
xCell	Schelker (ovarian, n=3)	< 0	Simulated dataset	0.94	0.79	0.46	0.98	0.96	0.54	0.81	0.54	0.81	0.96
TIMER		0.99		0.85		0.56		0.68*		0.92		0.76	
quanTIseq		0.62		0.92		0.14		0.34	0.83	0.78	0.48	0.98	0.95
MCPcounter		0.88		0.99	0.97	0.35	0.94	0.93	0.94			0.95	
EPIC		0.82		0.99	0.96		0.99	0.83*	0.98	0.89		0.94	
CIBERSORT (abs.)		0.88		0.84		< 0		0.8	0.68	0.73	0.32	0.87	0.46
CIBERSORT		0.88		0.71		< 0		0.49	0.42	0.44	0.15	0.8	0.42

C Validation Benchmark

All datasets	All cells	B cell	Dendritic cell	Macrophage/Monocyte	NK cell	T cell	T cell CD4+	T cell CD8+
	0.18	0.91	0.68	0.98	0.84	< 0	0.5	0.75
	0.03	0.6	0.31	0.41		< 0	0.93	0.57
	0.92	0.93	0.45	0.77	0.96	0.86	0.75	0.48
	0.3	0.83	0.88	0.77	0.98	0.98		0.74
	0.87	0.95		< 0	0.97	0.96	0.72	< 0
	0.54	0.89	0.25	0.85	0.93	< 0	0.74	0.32
	0.74	0.95	0.3	0.83	0.97	0.05	0.36	0.21
	Hoek (PBMC, n=8)	All cells	B cell	Dendritic cell	Macrophage/Monocyte	NK cell	T cell	
0.18	0.85	0.76	0.27	0.81	0.89			
0.05	0.73	0.71	0.51		< 0			
0.99	0.73	0.55	0.64	0.99	0.97			
0.92	0.89	0.87	0.57	0.99	0.95			
0.98	0.9		0.87	0.98	0.98			
0.68	0.79	n/a	0.57	0.98	0.77			
0.69	0.81	n/a	0.79	0.99	0.93			
Rade (melanoma, n=4)	All cells							
0.81								
0.19								
0.87								
0.71								
0.88								
0.75								
0.67								
Schelker (ovarian, n=3)	All cells							
0.63								
< 0								
0.94								
0.91								
0.16								
0.85								
0.89								

D

