

Supplementary Material S1.

Average Jensen-Shannon divergence and Pearson correlation for estimating the proportion of sources in fully simulated microbiome data across MST methods.

Average Jensen-Shannon divergence for estimating proportions of sources						
Number of known sources	Number of major sources	FastST	FEAST	SourceTracker2	STENSL	SourceID-NMF
2	2	0.1669	0.0921	0.2462	0.1530	0.1324
5	2	0.0784	0.1473	0.3143	0.2042	0.3130
5	5	0.1768	0.0493	0.1692	0.1549	0.0567
10	2	0.0611	0.1523	0.3463	0.1570	0.3723
10	5	0.0715	0.1377	0.2957	0.2001	0.2356
50	2	0.1224	0.1559	0.5719	0.1944	0.2543
50	5	0.1262	0.1556	0.5775	0.1904	0.2116
100	2	0.1794	0.1563	0.6684	0.8116	0.2451
100	5	0.1852	0.1622	0.6513	0.5865	0.2228

Average Pearson correlation for estimating proportions of sources						
Number of known sources	Number of major sources	FastST	FEAST	SourceTracker2	STENSL	SourceID-NMF
2	2	0.9890	0.9798	0.1338	0.8663	0.9772
5	2	0.9973	0.9826	0.8029	0.9377	0.7774
5	5	0.9295	0.9375	0.0439	0.3132	0.9831
10	2	0.9994	0.9902	0.9534	0.9828	0.7102
10	5	0.9946	0.9640	0.7398	0.8142	0.8108
50	2	0.9987	0.9985	0.9541	0.9966	0.9783
50	5	0.9987	0.9955	0.7781	0.9900	0.9877
100	2	0.9995	0.9995	0.8115	-0.0254	0.9954
100	5	0.9983	0.9981	0.5183	0.3664	0.9947