

S8 Table. Reproducibility for MPLasso, SPIEC (gl), and CCLasso at different body sites of different types of HMP datasets.

Body Site	(n, p)	MPLasso	SPIEC (gl)	CCLasso
HMASM				
AntNar	(91, 14)	0.917 (0.023)	0.679 (0.363)	0.902 (0.022)
Stool	(143, 87)	0.951 (0.005)	0.912 (0.019)	0.914 (0.006)
HMMCP				
AntNar	(445, 57)	0.901 (0.006)	0.734 (0.035)	0.840 (0.013)
Stool	(437, 135)	0.956 (0.002)	0.908 (0.004)	0.827 (0.009)
HMQCP				
AntNar	(269, 116)	0.937 (0.005)	0.899 (0.005)	0.921 (0.004)
Stool	(319, 64)	0.894 (0.005)	0.689 (0.030)	0.806 (0.016)

For each experiment, we average over 20 simulation runs with standard deviations in round brackets. Bold number shows best result. n and p represent sample size and taxa number, respectively. Abbreviations: AntNar: Anterior nares.