

S9 Table. Different percentages of top degree nodes to calculate reproducibility for MPLasso, SPIEC (gl) and CCLasso at different body sites of different types of HMP datasets.

Body Site	MPLasso	SPIEC (gl)	CCLasso	MPLasso	SPIEC (gl)	CCLasso	MPLasso	SPIEC (gl)	CCLasso
HMASM	top 25%			top 50%			top 75%		
AntNar	0.857 (0.057)	0.633 (0.423)	0.891 (0.025)	0.885 (0.035)	0.661 (0.379)	0.884 (0.021)	0.897 (0.030)	0.676 (0.363)	0.901 (0.021)
BucMuc	0.929 (0.008)	0.847 (0.019)	0.703 (0.009)	0.942 (0.006)	0.859 (0.020)	0.730 (0.006)	0.954 (0.004)	0.880 (0.016)	0.732 (0.005)
Stool	0.894 (0.011)	0.820 (0.032)	0.917 (0.008)	0.919 (0.008)	0.857 (0.026)	0.913 (0.007)	0.937 (0.006)	0.887 (0.022)	0.914 (0.007)
SupPla	0.887 (0.008)	0.794 (0.016)	0.932 (0.005)	0.907 (0.007)	0.826 (0.012)	0.927 (0.005)	0.925 (0.006)	0.852 (0.009)	0.922 (0.005)
TonDor	0.887 (0.010)	0.657 (0.029)	0.928 (0.015)	0.916 (0.008)	0.692 (0.031)	0.921 (0.014)	0.935 (0.006)	0.720 (0.031)	0.918 (0.016)
HMMCP	top 25%			top 50%			top 75%		
AntNar	0.855 (0.012)	0.689 (0.044)	0.851 (0.017)	0.867 (0.010)	0.706 (0.039)	0.840 (0.015)	0.880 (0.008)	0.716 (0.037)	0.835 (0.013)
BucMuc	0.884 (0.010)	0.722 (0.037)	0.851 (0.018)	0.891 (0.008)	0.725 (0.036)	0.834 (0.015)	0.905 (0.007)	0.740 (0.037)	0.824 (0.014)
Stool	0.911 (0.006)	0.852 (0.007)	0.858 (0.011)	0.931 (0.003)	0.876 (0.006)	0.840 (0.009)	0.944 (0.002)	0.892 (0.005)	0.831 (0.010)
SupPla	0.880 (0.008)	0.814 (0.014)	0.866 (0.014)	0.891 (0.005)	0.829 (0.011)	0.854 (0.013)	0.905 (0.005)	0.845 (0.009)	0.845 (0.013)
TonDor	0.890 (0.007)	0.786 (0.019)	0.881 (0.011)	0.901 (0.004)	0.801 (0.017)	0.872 (0.011)	0.917 (0.003)	0.807 (0.016)	0.862 (0.012)
HMQCP	top 25%			top 50%			top 75%		
AntNar	0.873 (0.011)	0.807 (0.009)	0.909 (0.006)	0.905 (0.008)	0.851 (0.007)	0.910 (0.006)	0.922 (0.007)	0.880 (0.006)	0.917 (0.004)
BucMuc	0.813 (0.018)	0.710 (0.033)	0.860 (0.010)	0.825 (0.008)	0.733 (0.028)	0.844 (0.011)	0.849 (0.007)	0.759 (0.026)	0.829 (0.013)
Stool	0.843 (0.009)	0.602 (0.049)	0.842 (0.025)	0.858 (0.007)	0.622 (0.040)	0.821 (0.022)	0.874 (0.006)	0.655 (0.035)	0.804 (0.020)
SupPla	0.844 (0.019)	0.754 (0.023)	0.915 (0.007)	0.847 (0.017)	0.765 (0.019)	0.896 (0.008)	0.860 (0.013)	0.787 (0.016)	0.895 (0.007)
TonDor	0.840 (0.015)	0.716 (0.029)	0.863 (0.027)	0.846 (0.012)	0.729 (0.023)	0.860 (0.022)	0.848 (0.011)	0.726 (0.022)	0.847 (0.024)
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For each experiment, we average over 20 simulation runs with standard deviations in round brackets. Bold number shows best result. Abbreviations: AntNar: Anterior nares, BucMuc: Buccal mucosa, SupPla: Supragingival plaque, TonDor: Tongue dorsum.