

Items	2FL	3FL	3SL
2'FL	1.000	-0.438*	-0.072
3FL	-0.438*	1.000	-0.203
3'SL	-0.072	-0.203	1.000
6'SL	-0.057	-0.439*	-0.251
LNT	-0.372	-0.488*	0.687**
LNnT	0.052	-0.774**	0.461*
LDFT	0.907**	-0.448*	-0.194
LNFP I	0.715**	-0.464*	-0.257
LNFP III	-0.242	-0.333	0.821**
LNFP II	-0.631**	0.510*	-0.596**
LSTb	-0.617**	-0.133	0.700**
LSTc	0.057	-0.516*	-0.210
LNnDFH II	-0.511*	0.840**	-0.194
LNDFH II	0.392	0.122	-0.693**
LNDFH I	0.721**	-0.488*	-0.249
LNnDFH I	0.080	-0.038	0.050
DSLNT	-0.594**	-0.322	0.170
3'SLNFP II&6'SLNFP VI	-0.414	0.200	-0.589**
MFLNnH	-0.229	-0.234	-0.354
MFLNH III	-0.408	-0.474*	0.311
DFpLNnH	-0.440*	0.109	-0.481*
DFLNHa	0.781**	-0.355	0.124
Proteobacteria	0.090	-0.503*	0.268
Firmicutes	-0.125	0.410	-0.149
Bacteroidetes	-0.051	0.279	-0.201
Actinobacteria	0.211	0.246	-0.355
Acidobacteria	0.580**	-0.236	-0.168
Cyanobacteria	0.599**	-0.124	-0.232
Chloroflexi	0.504*	-0.156	-0.319
Planctomycetes	0.482*	-0.032	-0.273
[Thermi]	0.427	-0.126	-0.077

* represents $p < 0.05$, ** represents $p < 0.01$.

6SL	LNT	LNnT	LDFT
-0.057	-0.372	0.052	0.907**
-0.439*	-0.488*	-0.774**	-0.448*
-0.251	0.687**	0.461*	-0.194
1.000	0.105	0.176	0.048
0.105	1.000	0.791**	-0.413
0.176	0.791**	1.000	0.052
0.048	-0.413	0.052	1.000
0.047	-0.310	0.237	0.807**
-0.142	0.869**	0.630**	-0.353
0.157	-0.278	-0.483*	-0.602**
-0.022	0.887**	0.492*	-0.643**
0.899**	0.065	0.263	0.244
-0.361	-0.365	-0.636**	-0.481*
-0.083	-0.771**	-0.504*	0.518*
0.083	-0.339	0.139	0.903**
-0.156	-0.058	-0.001	0.135
0.516*	0.674**	0.429	-0.592**
0.499*	-0.278	-0.415	-0.297
0.685**	0.073	0.151	-0.247
0.572**	0.741**	0.582**	-0.475*
0.215	-0.065	-0.176	-0.342
0.063	-0.263	-0.053	0.595**
0.246	0.374	0.596**	0.182
-0.283	-0.216	-0.407	-0.190
0.008	-0.268	-0.412	-0.122
-0.205	-0.481*	-0.444*	0.224
0.313	-0.312	-0.169	0.477*
-0.187	-0.336	-0.016	0.468*
0.247	-0.365	-0.232	0.573**
-0.138	-0.372	-0.272	0.438*
-0.126	-0.266	0.054	0.357

LNFP I	LNFP III	LNFP II	LSTb
0.715**	-0.242	-0.631**	-0.617**
-0.464*	-0.333	0.510*	-0.133
-0.257	0.821**	-0.596**	0.700**
0.047	-0.142	0.157	-0.022
-0.310	0.869**	-0.278	0.887**
0.237	0.630**	-0.483*	0.492*
0.807**	-0.353	-0.602**	-0.643**
1.000	-0.298	-0.473*	-0.559**
-0.298	1.000	-0.457*	0.799**
-0.473*	-0.457*	1.000	-0.052
-0.559**	0.799**	-0.052	1.000
0.262	-0.127	-0.017	-0.090
-0.482*	-0.153	0.509*	-0.033
0.498*	-0.754**	0.213	-0.707**
0.881**	-0.339	-0.496*	-0.581**
0.178	-0.126	-0.07	-0.122
-0.503*	0.440*	0.333	0.641**
-0.290	-0.438*	0.760**	-0.119
-0.161	-0.235	0.499*	-0.050
-0.364	0.505*	0.110	0.618**
-0.284	-0.103	0.617**	0.018
0.360	-0.062	-0.495*	-0.424
0.222	0.254	-0.328	0.259
-0.191	-0.147	0.243	-0.173
-0.157	-0.173	0.244	-0.088
0.044	-0.351	0.088	-0.564**
0.146	-0.253	-0.219	-0.517*
0.623**	-0.253	-0.270	-0.500*
0.218	-0.371	-0.173	-0.526*
0.274	-0.294	-0.124	-0.478*
0.207	-0.107	-0.147	-0.392

LSTc	LNnDFH II	LNDFH II	LNDFH I
0.057	-0.511*	0.392	0.721**
-0.516*	0.840**	0.122	-0.488*
-0.210	-0.194	-0.693**	-0.249
0.899**	-0.361	-0.083	0.083
0.065	-0.365	-0.771**	-0.339
0.263	-0.636**	-0.504*	0.139
0.244	-0.481*	0.518*	0.903**
0.262	-0.482*	0.498*	0.881**
-0.127	-0.153	-0.754**	-0.339
-0.017	0.509*	0.213	-0.496*
-0.090	-0.033	-0.707**	-0.581**
1.000	-0.388	-0.027	0.333
-0.388	1.000	0.157	-0.490*
-0.027	0.157	1.000	0.547*
0.333	-0.490*	0.547*	1.000
-0.139	-0.139	0.166	0.215
0.387	-0.128	-0.529*	-0.504*
0.421	0.392	0.322	-0.228
0.460*	-0.193	-0.061	-0.174
0.374	-0.388	-0.621**	-0.393
0.190	0.480*	0.231	-0.256
0.152	-0.367	0.163	0.433
0.289	-0.311	-0.134	0.165
-0.260	0.221	-0.0549	-0.149
-0.125	0.234	0.300	-0.149
-0.164	0.199	0.245	0.279
0.269	-0.236	0.117	0.286
-0.146	-0.209	0.288	0.424
0.286	-0.226	0.222	0.410
-0.148	-0.159	0.357	0.347
0.062	-0.116	0.056	0.229

L_NDFH I	DSLNT	3'SLNFP_{II}& 6'SLNFP_{VI}	MFLN_H
0.080	-0.594**	-0.414	-0.229
-0.038	-0.322	0.200	-0.234
0.050	0.170	-0.589**	-0.354
-0.156	0.516*	0.499*	0.685**
-0.058	0.674**	-0.278	0.073
-0.001	0.429	-0.415	0.151
0.135	-0.592**	-0.297	-0.247
0.178	-0.503*	-0.290	-0.161
-0.126	0.440*	-0.438*	-0.235
-0.070	0.333	0.760**	0.499*
-0.122	0.641**	-0.119	-0.050
-0.139	0.387	0.421	0.460*
-0.139	-0.128	0.392	-0.193
0.166	-0.529*	0.322	-0.061
0.215	-0.504*	-0.228	-0.174
1.000	-0.129	-0.126	-0.12
-0.129	1.000	0.432	0.506*
-0.126	0.432	1.000	0.430
-0.120	0.506*	0.430	1.000
-0.150	0.812**	0.083	0.666**
-0.132	0.493*	0.792**	0.235
-0.014	-0.346	-0.203	-0.134
0.077	0.238	-0.206	0.147
-0.071	-0.141	0.068	-0.121
-0.028	-0.139	0.294	-0.080
-0.015	-0.422	0.014	-0.020
-0.043	-0.192	0.025	0.215
-0.058	-0.489*	-0.319	-0.157
0.039	-0.277	0.048	0.001
0.386	-0.478*	-0.162	-0.185
-0.140	-0.155	-0.135	-0.065

MFLNH III	DFpLNnH	DFLNHa	Proteobacteria
-0.408	-0.440*	0.781**	0.090
-0.474*	0.109	-0.355	-0.503*
0.311	-0.481*	0.124	0.268
0.572**	0.215	0.063	0.246
0.741**	-0.065	-0.263	0.374
0.582**	-0.176	-0.053	0.596**
-0.475*	-0.342	0.595**	0.182
-0.364	-0.284	0.360	0.222
0.505*	-0.103	-0.062	0.254
0.110	0.617**	-0.495*	-0.328
0.618**	0.018	-0.424	0.259
0.374	0.190	0.152	0.289
-0.388	0.480*	-0.367	-0.311
-0.621**	0.231	0.163	-0.134
-0.393	-0.256	0.433	0.165
-0.15	-0.132	-0.014	0.077
0.812**	0.493*	-0.346	0.238
0.083	0.792**	-0.203	-0.206
0.666**	0.235	-0.134	0.147
1.000	0.062	-0.230	0.314
0.062	1.000	-0.296	-0.028
-0.230	-0.296	1.000	-0.080
0.314	-0.028	-0.080	1.000
-0.236	-0.028	-0.015	-0.854**
-0.138	0.115	0.098	-0.446*
-0.402	0.012	0.280	-0.553**
-0.106	-0.115	0.733**	-0.090
-0.349	-0.313	0.325	-0.045
-0.273	-0.085	0.417	-0.026
-0.408	-0.132	0.428	-0.140
-0.232	0.011	0.413	0.097

Firmicutes	Bacteroidetes	Actinobacteria	Acidobacteria
-0.125	-0.051	0.211	0.580**
0.410	0.279	0.246	-0.236
-0.149	-0.201	-0.355	-0.168
-0.283	0.008	-0.205	0.313
-0.216	-0.268	-0.481*	-0.312
-0.407	-0.412	-0.444*	-0.169
-0.190	-0.122	0.224	0.477*
-0.191	-0.157	0.044	0.146
-0.147	-0.173	-0.351	-0.253
0.243	0.244	0.088	-0.219
-0.173	-0.088	-0.564**	-0.517*
-0.260	-0.125	-0.164	0.269
0.221	0.234	0.199	-0.236
-0.055	0.300	0.245	0.117
-0.149	-0.149	0.279	0.286
-0.071	-0.028	-0.015	-0.043
-0.141	-0.139	-0.422	-0.192
0.068	0.294	0.014	0.025
-0.121	-0.080	-0.020	0.215
-0.236	-0.138	-0.402	-0.106
-0.028	0.115	0.012	-0.115
-0.015	0.098	0.280	0.733**
-0.854**	-0.446*	-0.553**	-0.090
1.000	-0.078	0.526*	0.049
-0.078	1.000	0.037	-0.035
0.526*	0.037	1.000	0.504*
0.049	-0.034	0.504*	1.000
0.082	-0.106	0.206	0.247
0.017	-0.107	0.457*	0.774**
0.014	0.137	0.440*	0.558**
-0.044	-0.174	0.174	0.239

Cyanobacteria	Chloroflexi	Planctomycetes	[Thermi]
0.599**	0.504*	0.482*	0.427
-0.124	-0.156	-0.032	-0.126
-0.232	-0.319	-0.273	-0.077
-0.187	0.247	-0.138	-0.126
-0.336	-0.365	-0.372	-0.266
-0.016	-0.232	-0.272	0.054
0.468*	0.573**	0.438*	0.357
0.623**	0.218	0.274	0.207
-0.253	-0.371	-0.294	-0.107
-0.270	-0.173	-0.124	-0.147
-0.500*	-0.526*	-0.478*	-0.392
-0.146	0.286	-0.148	0.062
-0.209	-0.226	-0.159	-0.116
0.288	0.222	0.357	0.056
0.424	0.410	0.347	0.229
-0.058	0.039	0.386	-0.140
-0.489*	-0.277	-0.478*	-0.155
-0.319	0.048	-0.162	-0.135
-0.157	0.001	-0.185	-0.065
-0.349	-0.273	-0.408	-0.232
-0.313	-0.085	-0.132	0.011
0.325	0.417	0.428	0.413
-0.045	-0.026	-0.140	0.097
0.082	0.017	0.014	-0.044
-0.106	-0.107	0.137	-0.174
0.206	0.457*	0.440*	0.174
0.247	0.774**	0.558**	0.239
1.000	0.175	0.229	0.0316
0.175	1.000	0.687**	0.236
0.229	0.687**	1.000	0.096
0.032	0.236	0.096	1.000