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| Spearman's correlations |
| Bacterial class | Calories | Carbohydrate | Fat | Moisture | Protein | Total sugar | Sodium |
| Diversity (ASV number) | Correlation Coefficient | -.820\*\* | -0.364 | -.564\* | .810\*\* | -.517\* | -.700\*\* | 0.050 |
| Sig. | 0.000 | 0.183 | 0.028 | 0.000 | 0.048 | 0.004 | 0.859 |
| Richness | Correlation Coefficient | -.821\*\* | -0.360 | -.569\* | .804\*\* | -0.514 | -.694\*\* | 0.050 |
| Sig. | 0.000 | 0.188 | 0.027 | 0.000 | 0.050 | 0.004 | 0.860 |
| *Bacilli* | Correlation Coefficient | 0.493 | -0.113 | .912\*\* | -.514\* | .818\*\* | -0.005 | .536\* |
| Sig.  | 0.062 | 0.689 | 0.000 | 0.050 | 0.000 | 0.986 | 0.040 |
| alpha-*Proteobacteria* | Correlation Coefficient | -0.414 | 0.045 | -.829\*\* | 0.468 | -.865\*\* | 0.235 | -.621\* |
| Sig.  | 0.125 | 0.874 | 0.000 | 0.079 | 0.000 | 0.399 | 0.013 |
| gamma-*Proteobacteria* | Correlation Coefficient | -.774\*\* | -0.297 | -.592\* | .786\*\* | -0.472 | -.690\*\* | 0.091 |
| Sig.  | 0.001 | 0.282 | 0.020 | 0.001 | 0.076 | 0.004 | 0.747 |
| *Cyanobacteriia* | Correlation Coefficient | -0.371 | 0.007 | -.756\*\* | 0.371 | -.867\*\* | 0.350 | -.689\*\* |
| Sig.  | 0.173 | 0.980 | 0.001 | 0.173 | 0.000 | 0.201 | 0.004 |
| *Halobacteria* | Correlation Coefficient | -0.461 | -0.266 | -0.317 | 0.438 | -0.367 | -0.342 | -0.298 |
| Sig.  | 0.083 | 0.337 | 0.249 | 0.102 | 0.179 | 0.212 | 0.281 |
| *Bacteroidia* | Correlation Coefficient | -.777\*\* | -0.290 | -.571\* | .773\*\* | -0.486 | -.692\*\* | 0.095 |
| Sig.  | 0.001 | 0.294 | 0.026 | 0.001 | 0.066 | 0.004 | 0.736 |
| *Fusobacteriia* | Correlation Coefficient | 0.103 | 0.035 | 0.393 | -0.089 | .603\* | -.534\* | .598\* |
| Sig.  | 0.714 | 0.901 | 0.147 | 0.754 | 0.017 | 0.040 | 0.019 |
| *Actinobacteria* | Correlation Coefficient | -.885\*\* | -.568\* | -0.473 | .872\*\* | -.591\* | -.690\*\* | 0.013 |
| Sig.  | 0.000 | 0.027 | 0.075 | 0.000 | 0.020 | 0.004 | 0.965 |
| *Deinococci* | Correlation Coefficient | -.663\*\* | -0.142 | -.651\*\* | .655\*\* | -.659\*\* | -0.342 | -0.293 |
| Sig.  | 0.007 | 0.614 | 0.009 | 0.008 | 0.008 | 0.212 | 0.289 |
| *Nanosalinia* | Correlation Coefficient | -.532\* | -0.051 | -.525\* | .527\* | -0.503 | -0.295 | -0.325 |
| Sig.  | 0.041 | 0.858 | 0.044 | 0.043 | 0.056 | 0.286 | 0.237 |
| \*\* Correlation is very significant at the 0.01 level. |
| \* Correlation is significant at the 0.05 level. |