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| **Table S3.** Phylum level Kruskal-Wallis test |
| Phylum | *P*-value | Relative abundance mean |  | Occurrence rate |
| NGT | Pre-DM | T2DM | NGT | Pre-DM | T2DM |
| *Actinobacteria* | 0.159  | 0.016615 | 0.010984 | 0.015787 | 0.977  | 1.000  | 1.000  |
| *Bacteroidetes* | 0.104  | 0.251968 | 0.270251 | 0.163432 | 1.000  | 1.000  | 1.000  |
| *Proteobacteria* | 0.148  | 0.010857 | 0.02987 | 0.011722 | 0.977  | 0.984  | 1.000  |
| *Planctomycetes* | 0.417  | 2.91E-06 | 0 | 0 | 0.023  | 0.000  | 0.000  |
| *Synergistetes* | 0.284  | 2.66E-05 | 4.21E-05 | 7.17E-05 | 0.136  | 0.078  | 0.231  |
| *Firmicutes*a | 0.091  | 0.712591 | 0.682742 | 0.801784 | 1.000  | 1.000  | 1.000  |
| *Cyanobacteria* | 0.376  | 3.24E-05 | 0.000201 | 0.000295 | 0.159  | 0.219  | 0.308  |
| TM7 | 0.417  | 1.52E-06 | 1.23E-06 | 6.36E-06 | 0.023  | 0.016  | 0.077  |
| *Deinococcus-Thermus* | 0.417  | 2.65E-06 | 0 | 0 | 0.023  | 0.000  | 0.000  |
| *Fusobacteria* | 0.314  | 3.20E-05 | 0.000657 | 7.36E-05 | 0.136  | 0.219  | 0.077  |
| *Euryarchaeota* | 0.507  | 1.00E-05 | 2.41E-06 | 0 | 0.045  | 0.016  | 0.000  |
| *Verrucomicrobia*b | 0.025  | 9.17E-05 | 1.16E-05 | 1.72E-05 | 0.227  | 0.063  | 0.077  |
| a The *Firmicutes* result was not significant at a first error rate of 5%. b The *Verrucomicrobia* result was significant.NGT = normal glucose tolerance; Pre-DM = prediabetes; T2DM = type 2 diabetes mellitus. |