Table S1. Sample metagenome mean read depth and number of samples per body site and disease phenotypes.

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| --- | --- | --- | --- | --- |
| Disease Phenotype | Body site | Mean read depth | Number  of samples | Reference |
| Control | gut | 2.72E+08 | 340 | (Brito et al., 2016; Schmidt et al., 2019; Voigt et al., 2015; Zeller et al., 2014; X. Zhang et al., 2015) |
| Control | oral | 1.06E+08 | 255 |
| Colorectal cancer | gut | 1.11E+08 | 26 | (Schmidt et al., 2019; Zeller et al., 2014) |
| Colorectal cancer | oral | 5.16E+07 | 25 |
| Diabetes type1 | gut | 9.47E+08 | 41 | (Heintz-Buschart et al., 2016; Schmidt et al., 2019) |
| Diabetes type1 | oral | 5.39E+08 | 38 |
| Rheumatoid arthritis | gut | 6.43E+07 | 135 | (X. Zhang et al., 2015) |
| Rheumatoid arthritis | oral | 4.35E+07 | 75 |
| Total |  |  | 935 |  |