

Table 1. Summary of obesity, demographic, and beta-diversity analysis data for the studies used in the meta-analysis. NA indicates that those metadata were not available for that study.

| Study | Subjects (N) | Obese (%) | Average BMI (Min-Max) | Female (%) | Average Age (Min-Max) | Non-Hispanic White (%) | AMOVA (P-value) |
|--------------|---------------------|------------------|------------------------------|-------------------|------------------------------|-------------------------------|------------------------|
| Baxter | 172 | 27.3 | 27.0 (17.5-46.9) | 64.5 | 54.3 (29.0-80.0) | 87.8 | 0.078 |
| Escobar | 30 | 33.3 | 27.4 (19.5-37.6) | 46.7 | 38.1 (21.0-60.0) | NA | 0.047 |
| Goodrich | 982 | 19.7 | 26.3 (16.2-52.4) | 98.9 | 61.0 (23.0-86.0) | NA | <0.001 |
| Hmp | 287 | 10.8 | 24.3 (19.0-34.0) | 49.1 | 26.3 (18.0-40.0) | 81.5 | 0.322 |
| Ross | 63 | 60.3 | 31.6 (22.1-47.9) | 76.2 | 57.0 (33.0-81.0) | 0.0 | 0.845 |
| Schubert | 104 | 32.7 | 28.2 (18.5-62.5) | 66.3 | 52.8 (19.0-88.0) | 82.7 | 0.180 |
| Turnbaugh | 146 | 67.8 | NA | NA | NA | 51.4 | 0.040 |
| Wu | 64 | 7.8 | 24.3 (14.0-41.3) | 53.1 | 26.3 (2.16-50.0) | NA | 0.577 |
| Zeevi | 731 | NA | 26.4 (16.4-47.0) | NA | 43.4 (18.0-70.0) | NA | 0.135 |
| Zupancic | 207 | 36.2 | 28.2 (18.2-127.0) | 57.0 | 46.7 (20.0-79.0) | 100.0 | 0.206 |