**S7 file**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Mucosal rRNA in tumor tissue(n=5) | Mucosal rDNA in tumor tissue(n=5) | Mucosal rRNA in adjacent non-tumor tissue(n=8) | Mucosal rDNA in adjacent non-tumor tissue(n=8) | Fecal rDNA in dogs with tumors(n=10) | Fecal rDNA in control dogs(n=13) |
| Sobs | 74(61-96) |  71(65-105) | 73(64-96) | 79(64-84) |  71(21-111) |  55(31-106) |
| NpShannon | 2.6(1.1-3.3) | 2.5 (2-3.3) | 2.8(2.5-3.1) | 2.7(2.3-3) | 2.3 (1-3.3) |  2.8(1.5-3.3) |
| InvSimpson |  7.1(1.5-13.6) |  6.5(3.4-17.3) | 11.7(4.5-13.8) | 5.6(3.417.3) | 4.7(1.718.4) |  9.5(2.8-18.3) |