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|  | **Two Epoch** | | | **One Epoch** |
| **Species** | Nu | Tau | Likelihood | Likelihood |
| A. finegoldii (Complete) | 0.590248 | 0.125047 | -191.163 | -273.9083643419799 |
| A. muciniphila (Complete) | 0.330587 | 0.289674 | -79.9993 | -503.9151326561587 |
| A. onderdonkii (Complete) | 0.00111624 | 0.00564187 | -455.471 | -801.5304460152565 |
| A. putredinis (Complete) | 10.7027 | 2.92997 | -383.1234 | -474.92766596231627 |
| A. shahii (Complete) | 34.9209 | 172.577 | -64.8001 | -37.52368725438009 |
| B. bacterium (Complete) | 0.464414 | 0.0667457 | -78.0369 | -151.86461776583837 |
| B. caccae (Complete) | 296.16 | 709.811 | -63.3465 | -36.34093501992811 |
| B. cellulosilyticus (Complete) | 1.46129 | 0.475054 | -103.653 | -321.77764861126707 |
| B. fragilis (Complete) | 1.88251 | 0.195185 | -104.782 | -326.11353711736956 |
| B. intestinihominis (Complete) |  |  |  | -167.35577546084824 |
| B. ovatus (Complete) | 0.000299311 | 8.73668e-06 | -693.599 | -386.1975486146366 |
| B. thetaiotaomicron (Complete) | 0.770457 | 0.0497167 | -208.589 | -140.86093934474775 |
| B. uniformis (Complete) | 394.013 | 837.865 | -91.9854 | -37.0644498818865 |
| B. vulgatus (Complete) | 0.895188 | 0.506591 | -63.9509 | -44.27775684678545 |
| B. xylanisolvens (Complete) | 0.00115518 | 2.77695e-05 | -80.913 | -119.4103280247673 |
| D. invisus (Complete) | 0.00272822 | 0.0251103 | -98.4336 | -58.73247848931078 |
| E. eligens (Complete) | 0.00215738 | 0.015655 | -209.089 | -34.971749485865985 |
| E. rectale (Complete) | 1.23419 | 0.238825 | -93.1012 | -119.62119918540702 |
| F. prausnitzii (Complete) | 184.624 | 578.327 | -216.439 | -96.21254241253519 |
| Oscillibacter sp. (Complete) | 0.000286308 | 0.00292652 | -209.499 | -79.5423538576024 |
| O. splanchnicus (Complete) | 0.607248 | 0.0315866 | -65.1321 | -53.48343931602585 |
| P. copri (Complete) | 27.1938 | 0.0600029 | -849.325 | -1036.3668324788305 |
| P. distasonis (Complete) | 374.228 | 707.204 | -387.885 | -66.04895734993443. |
| P. merdae (Complete) | 0.778422 | 0.0454067 | -167.828 | -82.87697490050505 |
| Phascolarcto. sp. (Complete) | 3.13313 | 0.0997377 | -159.181 | -292.03006849559733 |
| R. bicirculans (Complete) | 2.15694 | 0.448367 | -242.274 | -1287.9155043407336 |
| R. bromii (Complete) | 1.92731 | 0.279787 | -220.071 | -527.3137402931707 |