**Table S3.** The relationship between abundant bacterial taxa in SDF and CF groups and vaginal opening day

|  |  |  |  |
| --- | --- | --- | --- |
| **Group** | **Taxonomy** | **Spearman’s *rho*** | ***p*-valuea** |
| SDF | g\_Muribaculaceae\_Uncultured\_bacterium | 0.419 | 0.176 |
| g\_Muribaculaceae\_Uncultured\_organism | 0.469 | 0.124 |
| g\_Prevotellaceae\_UCG-001 | 0.453 | 0.139 |
| g\_Ruminococcaceae\_UCG-005 | 0.633 | 0.027\* |
| CF | g\_Ruminococcaceae\_NK4A214\_group | 0.067 | 0.837 |
| g\_Roseburia | -0.696 | 0.012\* |
| g\_Lachnospiraceae\_GCA-900066575 | -0.384 | 0.218 |
| g\_Ruminiclostridium\_9 | -0.233 | 0.465 |
| g\_Clostridiales\_vadinBB60\_group\_Uncultured | -0.165 | 0.608 |
| g\_Lachnospiraceae\_Uncultured | -0.551 | 0.063 |
| g\_Ruminococcus\_1 | -0.358 | 0.253 |

a: *p-*value is determined by Spearman's correlation analysis; \**p*<0.05. Abbreviations: CF, control female; SDF, sleep deprivation female.