**Table 8** Analysis of the components of sCAG1 versus GRS.

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| --- | --- | --- | --- |
|  |  |  |  |
| **Host factor** | **genus** | **Beta** | **p-value** |
| GRS | Acidaminococcus fermentans | 0.00016 | 0.437 |
|  | Acidaminococcus intestini | 8.93E-05 | 0.538 |
|  | Akkermansia muciniphila | -0.00424 | 0.232 |
|  | Anaerostipes hadrus | -0.00077 | 0.233 |
|  | Bacteroides gallinarum | 2.46E-05 | 0.705 |
|  | Bacteroides intestinalis | -0.00303 | 0.245 |
|  | Bacteroides pectinophilus | -0.00014 | 0.672 |
|  | Bifidobacterium adolescentis | -0.00172 | 0.561 |
|  | Bifidobacterium animalis | -7.34E-05 | 0.56 |
|  | Blautia hydrogenotrophica | 5.81E-05 | 0.683 |
|  | Catenibacterium mitsuokai | 0.00086 | 0.117 |
|  | Collinsella aerofaciens | 9.30E-05 | 0.932 |
|  | Collinsella tanakaei | -0.00109 | 0.067 |
|  | Coprobacter fastidiosus | 0.00039 | 0.317 |
|  | Coprococcus catus | -0.00064 | 0.245 |
|  | Coprococcus comes | -0.00015 | 0.861 |
|  | Coprococcus sp | 0.00106 | 0.304 |
|  | Desulfovibrio desulfuricans | -0.00029 | 0.161 |
|  | Desulfovibrio piger | -0.00044 | 0.276 |
|  | Dorea formicigenerans | 0.00066 | 0.309 |
|  | Dorea longicatena | 0.00032 | 0.809 |
|  | Enterococcus faecalis | 0.00012 | 0.063 |
|  | Eubacterium biforme | 0.00113 | 0.158 |
|  | Eubacterium eligens | -0.00055 | 0.741 |
|  | Eubacterium hallii | 0.00047 | 0.712 |
|  | Eubacterium ramulus | -0.00051 | 0.372 |
|  | Faecalibacterium prausnitzii | -0.00093 | 0.754 |
|  | Gordonibacter pamelaeae | -0.00011 | 0.179 |
|  | Haemophilus pittmaniae | 4.52E-05 | 0.807 |
|  | Lactobacillus sakei | 7.06E-05 | 0.151 |
|  | Lactococcus lactis | 1.37E-05 | 0.629 |
|  | Marvinbryantia formatexigens | -0.00032 | 0.44 |
|  | Methanobrevibacter smithii | -0.00499 | 0.075 |
|  | Mitsuokella multacida | -6.97E-05 | 0.504 |
|  | Odoribacter laneus | -0.00026 | 0.655 |
|  | Oxalobacter formigenes | -0.00053 | 0.232 |
|  | Parabacteroides distasonis | -0.00069 | 0.743 |
|  | Parabacteroides johnsonii | 0.00067 | 0.145 |
|  | Prevotella copri | 0.00279 | 0.331 |
|  | Ruminococcus bromii | -0.00382 | 0.083 |
|  | Ruminococcus callidus | 0.00247 | 0.012 |
|  | Ruminococcus champanellensis | -5.98E-05 | 0.127 |
|  | Ruminococcus lactaris | 0.00064 | 0.636 |
|  | Ruminococcus obeum | -0.00178 | 0.091 |
|  | Ruminococcus sp | 0.00258 | 0.148 |
|  | Ruminococcus torques | -0.00255 | 0.119 |
|  | Streptococcus australis | 9.54E-05 | 0.151 |
|  | Streptococcus thermophilus | 0.00058 | 0.246 |
|  | Sutterella wadsworthensis | -0.00228 | 0.176 |