**Supplement Table 1. Top20 keywords with highest count**

| **Rank** | **keywords** | **count** | **centrality** | **Rank** | **keywords** | **count** | **centrality** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | irritable bowel syndrome | 1672 | 0 | 11 | inflammatory bowel disease | 182 | 0.09 |
| 2 | gut microbiota | 1260 | 0.12 | 12 | health | 177 | 0.02 |
| 3 | intestinal microbiota | 630 | 0.02 | 13 | inflammation | 177 | 0.01 |
| 4 | double blind | 494 | 0 | 14 | gut microbiome | 169 | 0 |
| 5 | fecal microbiota | 383 | 0.05 | 15 | disease | 168 | 0.28 |
| 6 | chain fatty acid | 331 | 0.02 | 16 | functional gastrointestinal disorder | 161 | 0 |
| 7 | symptom | 269 | 0.15 | 17 | constipation | 158 | 0.07 |
| 8 | quality of life | 244 | 0.03 | 18 | prevalence | 157 | 0.43 |
| 9 | probiotics | 213 | 0.11 | 19 | ulcerative colitis | 145 | 0.04 |
| 10 | bacteria | 184 | 0.17 | 20 | gastrointestinal symptom | 139 | 0.02 |