**Supplemental Table S2**. Classification, functional prediction and abundance of OTUs in sclerotia of *C. militaris*.

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| --- | --- | --- | --- |
| **OTU ID** | **Taxonomy** | **Function of prediction** | **Abundance** |
| OTU1940 | Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium | None | 29 |
| OTU1261 | Devosia | None | 47 |
| OTU1448 | Pseudomonas | aerobic chemoheterotrophy；chemoheterotrophy | 537 |
| OTU2324 | Comamonas | None | 713 |
| OTU1490 | Stenotrophomonas | human pathogens；animal parasites or symbionts；nitrate respiration；nitrate reduction；nitrogen respiration；aerobic chemoheterotrophy；chemoheterotrophy； | 3593 |
| OTU1229 | norank\_f\_\_Ilumatobacteraceae | None | 6 |
| OTU2330 | Pseudomonas | aerobic chemoheterotrophy；chemoheterotrophy | 32281 |
| OTU1071 | Pedomicrobium | aerobic chemoheterotrophy；chemoheterotrophy | 33 |
| OTU1534 | Pedobacter | aerobic chemoheterotrophy；chemoheterotrophy | 20951 |
| OTU1539 | Rhodococcus | ligninolysis | 11404 |
| OTU2342 | Sphingobacterium | ureolysis  | 11404 |
| OTU2028 | norank\_c\_\_KD4-96 | None | 18 |
| OTU1507 | unclassified\_f\_\_Micromonosporaceae | None | 15 |
| OTU2350 | Sphingopyxis | aerobic chemoheterotrophy；chemoheterotrophy | 109 |
| OTU1732 | Gaiella | None | 11 |
| OTU2338 | Bosea | None | 199 |
| OTU1633 | Ochrobactrum | None | 2009 |
| OTU1632 | Variovorax | None | 6207 |
| OTU1243 | Labrys | aerobic chemoheterotrophy；chemoheterotrophy | 2121 |
| OTU1854 | norank\_f\_\_Methyloligellaceae | None | 22 |
| OTU1479 | Sphingobacterium | None | 3105 |
| OTU4 | Ralstonia | None | 11 |
| OTU1179 | Microlunatus | aerobic chemoheterotrophy；chemoheterotrophy | 24 |
| OTU1047 | Ensifer | nitrate reduction；aerobic chemoheterotrophy；chemoheterotrophy； | 96 |
| OTU1477 | Luteibacter | None | 7692 |
| OTU1313 | Phyllobacterium | None | 3343 |
| OTU1629 | Achromobacter | None | 12357 |
| OTU2313 | Delftia | None | 864 |
| OTU1579 | Serratia | fermentation | 1556 |
| OTU1423 | Rhodococcus | aromatic compound degradation；aliphatic non methane hydrocarbon degradation；hydrocarbon degradation；chemoheterotrophy； | 16 |
| OTU6 | unclassified\_f\_\_Enterobacteriaceae | None | 26773 |
| OTU2234 | Candidatus\_Xiphinematobacter | animal parasites or symbionts | 7 |
| OTU1387 | Mycobacterium | aerobic chemoheterotrophy；chemoheterotrophy | 61 |
| OTU2314 | Pseudomonas | aerobic chemoheterotrophy；chemoheterotrophy | 75 |
| OTU2356 | Rhodopseudomonas | None | 124 |
| OTU1845 | Allorhizobium-Neorhizobium-Pararhizobium-Rhizobium | nitrogen fixation | 385 |
| OTU1334 | norank\_f\_\_norank\_o\_\_IMCC26256 | None | 15 |
| OTU1529 | Arthrobacter | None | 24 |
| OTU212 | Ellin6055 | aerobic chemoheterotrophy；chemoheterotrophy | 20 |
| OTU1060 | Mesorhizobium | None | 89 |
| OTU2348 | Curtobacterium | aerobic chemoheterotrophy；chemoheterotrophy | 2312 |