

**Table S3. Genome information of representative Polyporales species used for phylogenetic analysis.**

| <b>Species</b>                   | <b>Assembly Accession</b> | <b>Genome Size (bp)</b> | <b>Gene Count</b> | <b>Order</b> | <b>Family</b>   |
|----------------------------------|---------------------------|-------------------------|-------------------|--------------|-----------------|
| <i>Sparassis crispa</i>          | GCA_003851025.1           | 39,020,349              | 13,339            | Polyporales  | Sparassidaceae  |
| <i>Laetiporus sulphureus</i>     | GCA_001632365.1           | 39,754,645              | 13,774            | Polyporales  | Laetiporaceae   |
| <i>Daedalea quercina</i>         | GCA_001632345.1           | 32,601,528              | 12,199            | Polyporales  | Fomitopsidaceae |
| <i>Postia placenta</i>           | GCA_002117355.1           | 41,835,349              | 12,541            | Polyporales  | Dacrybolaceae   |
| <i>Gelatoporia subvermispora</i> | GCA_000320605.2           | 38,777,970              | 12,125            | Polyporales  | Meruliaceae     |
| <i>Obba rivulosa</i>             | GCA_001687445.1           | 33,929,574              | 13,206            | Polyporales  | Gelatoporiaceae |