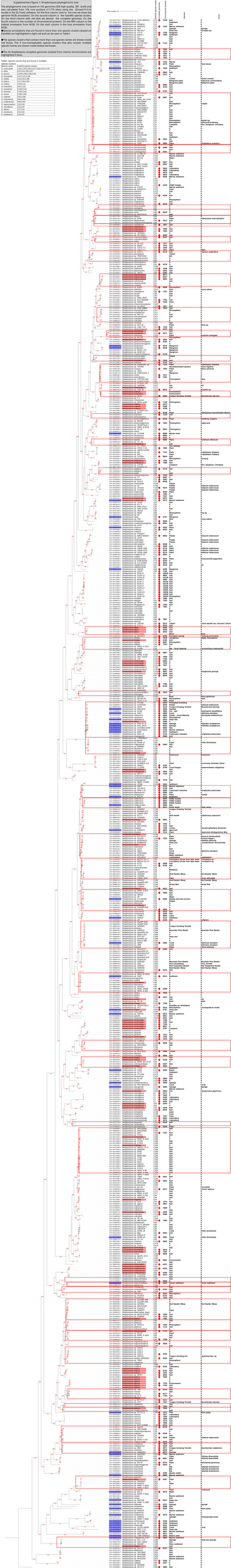
**Supplementary figure 1: Streptomyces phylogenomic tree**

The phylogenomic tree is based on 782 genomes (355 high quality, 367 draft) and was calculated from 104 core proteins (17,779 sites) using the `GTDB-Tk` v0.3.2 software. The tree was rooted using the *Actinobacteria* as outgroup and the genomes NCBI annotation. On the second column is the *Kasalath* species cluster. On the third column with red dots is the *Kasalath* species cluster representative. The fourth column with blue dots is the *Kasalath* annotation from NCBI. On the sixth column is the host annotation from NCBI.

Species annotations that are found in more than one species clusters (based on *Kasalath*) are highlighted in light red and can be seen in Table1.

**The species clusters that contain more than one species names are shown inside red boxes. The 3 non-monophyletic species clusters that also contain multiple species names are shown inside dotted red boxes.**

**The 54 Streptomyces complete genomes sourced from marine environments are highlighted in blue.**

Table1 Species names that are found in multiple species clusters

| Species name | Kasalath species clusters |
|---|---|
| S. atrovaceus | CSC1/CSC2/CSC3/CSC4/CSC5/CSC6 |
| S. griseus | CSA1/CSA2/CSA3/CSA4 |
| S. griseus | CSA1/CSA2/CSA3/CSA4 |
| S. griseus | CSA1/CSA2/CSA3/CSA4 |
| S. hiralae | CSA1/CSA3/CSB |
| S. hiralae | CSA1/CSA3/CSB |
| S. olivacius | CSA1/CSA3/CSB |
| S. olivacius | CSA1/CSA3/CSB |
| S. rochei | CSA1/CSB |
| S. rochei | CSA1/CSB |
| S. thermocarbo | CSA1/CSB |
| S. thermocarbo | CSA1/CSB |
| S. hygroscopicus | CSC1/HI |
| S. hygroscopicus | CSC1/HI |
| S. virginiae | CSB1/CSB2 |
| S. viridochromogenes | CSA1/CSB |
| S. yokosukanensis | CSA1/CSB |