Supplementary Material

**Supplementary Tables**

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| **Name** | **Description** | **Doi** |
| **Supplementary Table S1** | BGCs originated by antiSMASH fungal version from *B. deweyae* B1 genome | http://dx.doi.org/10.25267/rodin.33731 |
| **Supplementary Table S2** | BGCs originated by antiSMASH fungal version from *B. cinerea* B05.10genome | http://dx.doi.org/10.25267/rodin.33732 |
| **Supplementary Table S3** | BUSCO analysis for *B. deweyae* B1 and *B. cinerea* B05.10 | http://dx.doi.org/10.25267/rodin.33733 |
| **Supplementary Table S4** | The top 55 homologous protein to XP 038807933 | http://dx.doi.org/10.25267/rodin.33034 |
| **Supplementary Table S5** | PKS domains of all the putative PKS identified in *B. cinerea* and *B. deweyae* | http://dx.doi.org/10.25267/rodin.33035 |
| **Supplementary Table S6** | Distribution of all the putative PKS described by Suarez *et al.* in 2024 among other Fungi | http://dx.doi.org/10.25267/rodin.33036 |
| **Supplementary Table S7** | Top 18 homologous protein to BdPKS22 in other fungal species | http://dx.doi.org/10.25267/rodin.33037 |
| **Supplementary Table S8** | Top 51 homologous protein to BdPKS23 in other fungal species | http://dx.doi.org/10.25267/rodin.33038 |
| **Supplementary Table S9** | Top 4 Homologous protein to BdPKS24 in other fungal species | http://dx.doi.org/10.25267/rodin.33039 |
| **Supplementary Table S10** | Top 25 homologous proteins to BdPKS25 in other fungal species | http://dx.doi.org/10.25267/rodin.33040 |
| **Supplementary Table S11** | Top 55 homologous proteins to BdPKS26 in other fungal species | http://dx.doi.org/10.25267/rodin.33041 |