Table S3: Posterior probabilities for each species according to the bGMYC analyses on the different loci and the bPTP analysis on the tree resulted from the concatenated dataset, for the Scabrosoid and the Dolichorhizoid clades. Species names refer to the lineages defined in Figure 2.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Scabrosoid clade | | | | | | | | | | | | |
|  | ITS | | *EFT2*.1 | | LSU | | IGS3 | | IGS16 | | bPTP all loci | | |
| species | No. taxa | support value | No. taxa | support value | No. taxa | support value | No. taxa | support value | No. taxa | support value | No. taxa | support value |
| *P. neopolydactyla* 4 | 10 | 0.49 | 9 | 0.45 | 9 | (0.11) | 5 | 0.51 | 5 | 0.41 | 10 | 0.5 |  | |
| *P. neopolydactyla* 5 | 3 | 0.86 | 2 | 0.87 | 3 | 0.67 | 1 | 0.88 | 1 | 0.91 | / |  |  | |
| *P. neopolydactyla* 6 | 2 | 0.95 | 0 | / | 2 | 0.84 | 2 | 0.92 | 2 | 0.9 | 2 | 0.52 |  | |
| *P. neopolydactyla* 7 | 1 | 0.97 | 1 | 0.93 | 1 | 0.87 | 1 | 0.95 | 1 | 0.92 | 1 | 1 |  | |
| *P. scabrosa* 1 | 5 | 0.89 | 4 | 0.31 | 5 | 0.6 | 4 | 0.48 | 4 | 0.7 | 5 | 0.98 |  | |
| *P. scabrosa* 2 | 6 | 0.5 | 5 | 0.42 | 5 | 0.3 | 4 | 0.34 | 4 | 0.46 | 6 | 0.87 |  | |
| *P. scabrosa* 3a | 3 | 0.88 | 2 | 0.68 | 2 | 0.58 | 2 | 0.65 | 2 | 0.48 | / |  |  | |
| *P. scabrosa* 3b | 1 | 0.8 | 1 | 0.59` | 1 | 0.67 | 1 | 0.5 | 1 | 1 |  | |
| *P. scabrosa* 4 | 3 | 0.87 | 2 | 0.59 | 3 | 0.51 | 2 | 0.88 | 0 | / | 3 | 0.81 |  | |
| *P. melanorrhiza* | 2 | 0.93 | 2 | 0.86 | 2 | 0.92 | 1 | 0.99 | 1 | 0.99 | 2 | 0.89 |  | |
| Dolichorhizoid clade | | | | | | | | | | | | |
|  | ITS | | ß-tubulin | | IGS1 | | IGS3 | | IGS16 | | bPTP | ML | Bayesian | |
|  | No. taxa | support value | No. taxa | support value | No. taxa | support value | No. taxa | support value | No. taxa | support value | No. taxa | support value | support value | |
| *P. neopolydactyla* 3 | 1 | 0.86 | 1 | 0.34 | 1 | 0.47 | 1 | 0.19 | 1 | 0.58 | 1 | 1 | 1 | |
| *P.* sp. 12 | 1 | 0.83 | 1 | 0.75 | 1 | 0.53 | 1 | 0.84 | 1 | 0.68 | 1 | 1 | 1 | |
| *P.* sp. 6 | 3 | 0.76 | 3 | 0.63 | 3 | 0.74 | 3 | 0.62 | 2 | 0.56 | 3 | 0.81 | 0.51 | |
| *P.* sp. 7a | 7 | 0.6 | 3 | 0.42 | 7 | 0.8 | 6 | 0.52 | 7 | 0.8 |  |  | 0.53 | |
| *P.* sp. 7b | 2 | 0.49 | 3 | 0.76 | 0.52 | |
| *P. scabrosella* | 2 | 0.42 | 2 | 0.7 | 0.84 | |
| *P. neopolydactyla* 1b | 1 | 0.57 |  |  | 1 | 0.43 |  |  |  |  | 1 | 0.99 | 0.98 | |
| *P. occidentalis* | 7 | 0.51 | 5 | 0.45 | 4 | 0.33 | 4 | 0.32 | 4 | 0.3 |  |  |  | |
| *P. pulverulenta* 3 | 2 | 0.5 | 2 | 0.47 | 2 | 0.54 | 2 | 0.35 |  |  | 2 | 0.65 | 0.62 | |
| *P. pulverulenta* 1 | 6 | 0.48 | 6 | 0.28 | / |  | 3 | 0.34 | 3 | 0.56 | 6 | 0.75 | / | |
| *P. pulverulenta* 2 | 2 | 0.46 | 2 | 0.25 | 2 | 0.45 | 2 | 0.36 | 2 | 0.55 | 2 | 0.64 | 0.63 | |
| *P. hawaiensis* | 1 | 0.39 |  |  | 0 | / |  |  |  |  |  |  | 0.98 | |
| *P*. sp. 2a | 3 | 0.38 | 2 | 0.29 (without P907) | 2 | 0.42 (without P907) | 2 | 0.28 (without P907) | 2 (without P907) | 0.59 |  |  | 0.88 (without P907) | |
| *P. neopolydactyla* 1 | 9 | 0.37 |  |  | 9+1 | 0.32 with P325 | |  |  |  | 6 (without 640 645- 1252) | 0.52 | 0.39 | |
| *P*. sp. 3 | 4 | 0.33 | 4 | (0.23) | 0 | / |  |  | 3 | 0.8 | 4 | 0.36 with hawaiensis | 0.64 | |
| *P. truculenta* | 8 | 0.33 |  |  | 5 | (0.15) |  |  |  |  |  |  |  | |
| *P*. sp. 5 | 1 | 0.29 |  |  | 0 |  |  |  |  |  | 1 | 0.75 | 1 | |
| *P*. sp. 4 | 1 | 0.27 |  |  | 0 |  |  |  |  |  | 1 | 0.94 | 1 | |
| *P. pacifica* | 2 | 0.27 | 2 | 0.33 | 1 | 0.47 |  |  | 2 | 0.35 | 2 | 0.88 | 0.82 | |
| *P. neopolydactyla* 2a | 6 | 0.24 |  |  | 4 | 0.69 |  |  |  |  |  |  | 0.38 | |
| *P. neopolydactyla* 2c |  |  | 0 | / |  |  | 2 | 0.54 | 3 | 0.43 |  | |
| *P. dolichorhiza* b | 2 | 0.22 |  |  | / |  |  |  |  |  |  |  |  | |
| *P. neopolydactyla* 2b | 4 | 0.2 |  |  | 2 | 0.38 |  |  |  |  |  |  |  | |
| *P. dolichorhiza* | 8 | 0.18 | 8 | 0.46 | 6 | 0.19 | 7 | 0.41 |  |  | 8 | 0.62 | 0.62 | |
| *P.* sp. 2b | 2 | 0.14 |  |  | 2 | 0.57 | 2 | 0.38 | 2 | 0.66 | 2 | 0.51 | 0.89 | |
| *P. hymenina* | / | / |  |  | 4 | 0.27 |  |  | 3 | 0.72 | 7 (but without P1229) | 0.47 | 0.29 | |
| *P.* sp. 1 | / | / |  |  | / |  |  |  | 2 | 0.45 | 1 | 0.54 | 0.56 | |
| *P. dolichorhiza* 2 | / | / | 2 | 0.4 | / |  | 2 | 0.22 | 2 | 0.46 | 2 | 0.84 | 0.73 | |
| P1202 alone |  |  |  |  |  |  | 1 | 0.5 |  |  |  | 0.99 | 0.98 | |
| P1596 alone |  |  |  |  |  |  | 1 | 0.44 |  |  |  | 0.99 | 0.98 | |