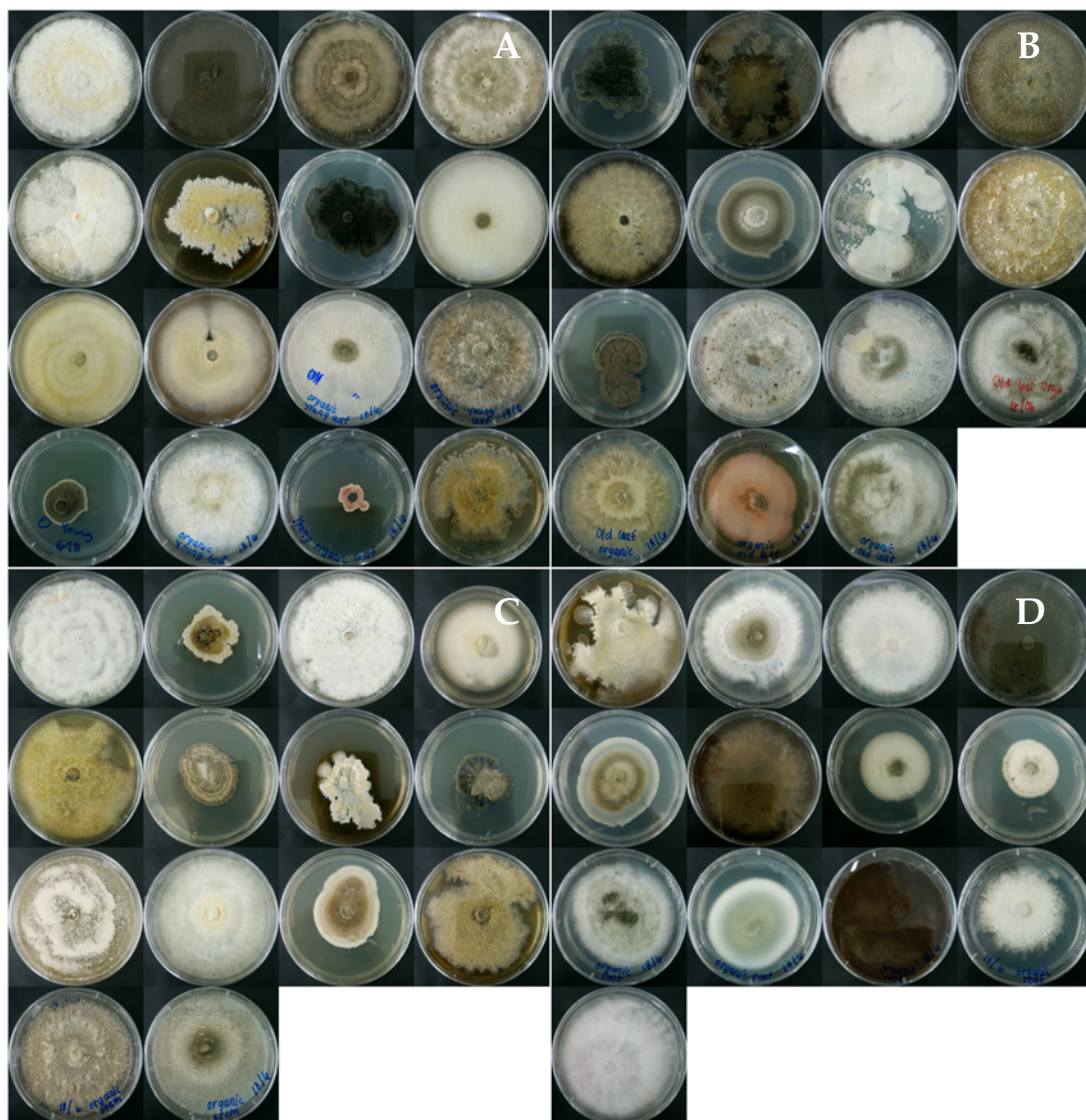
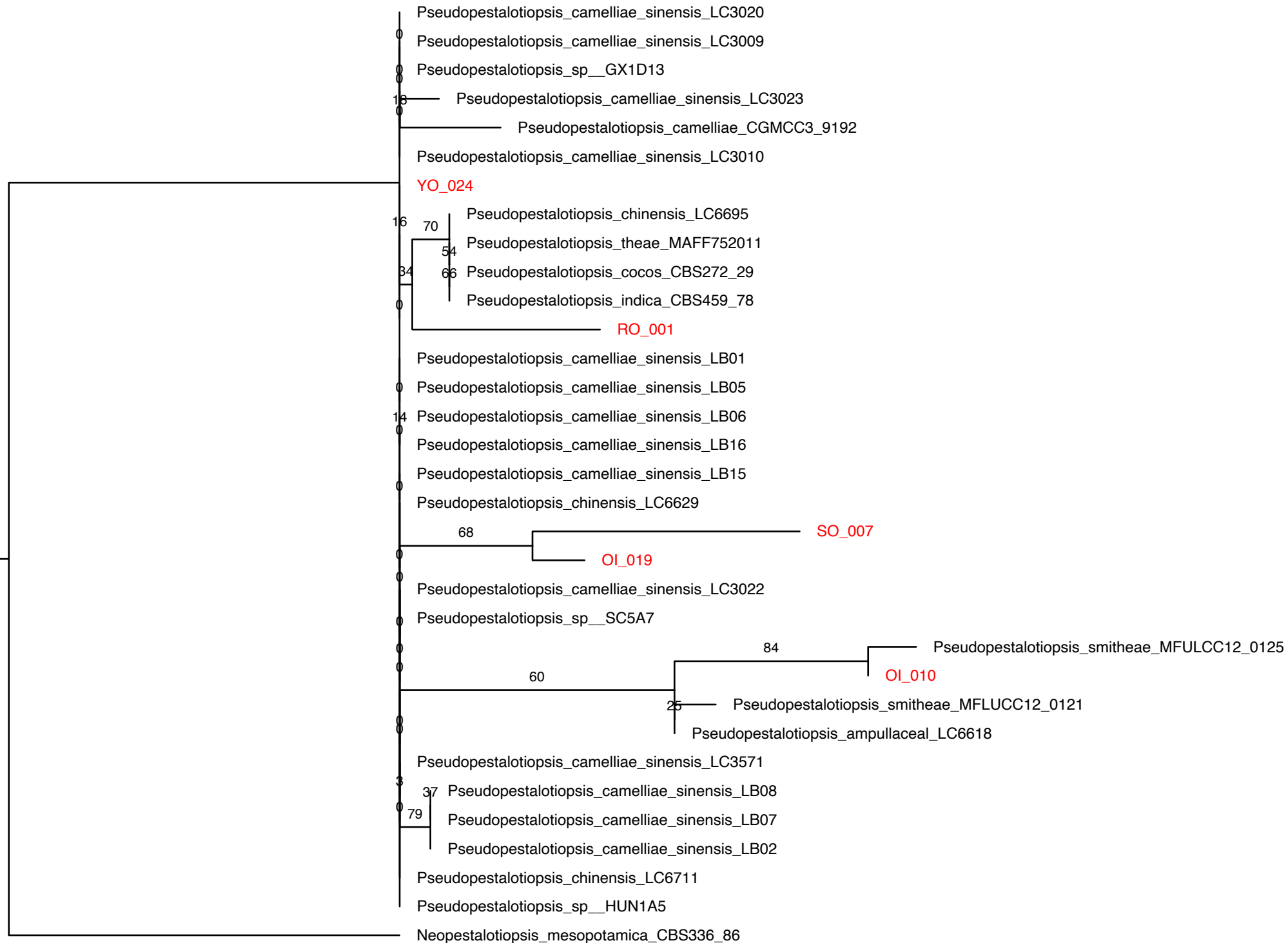


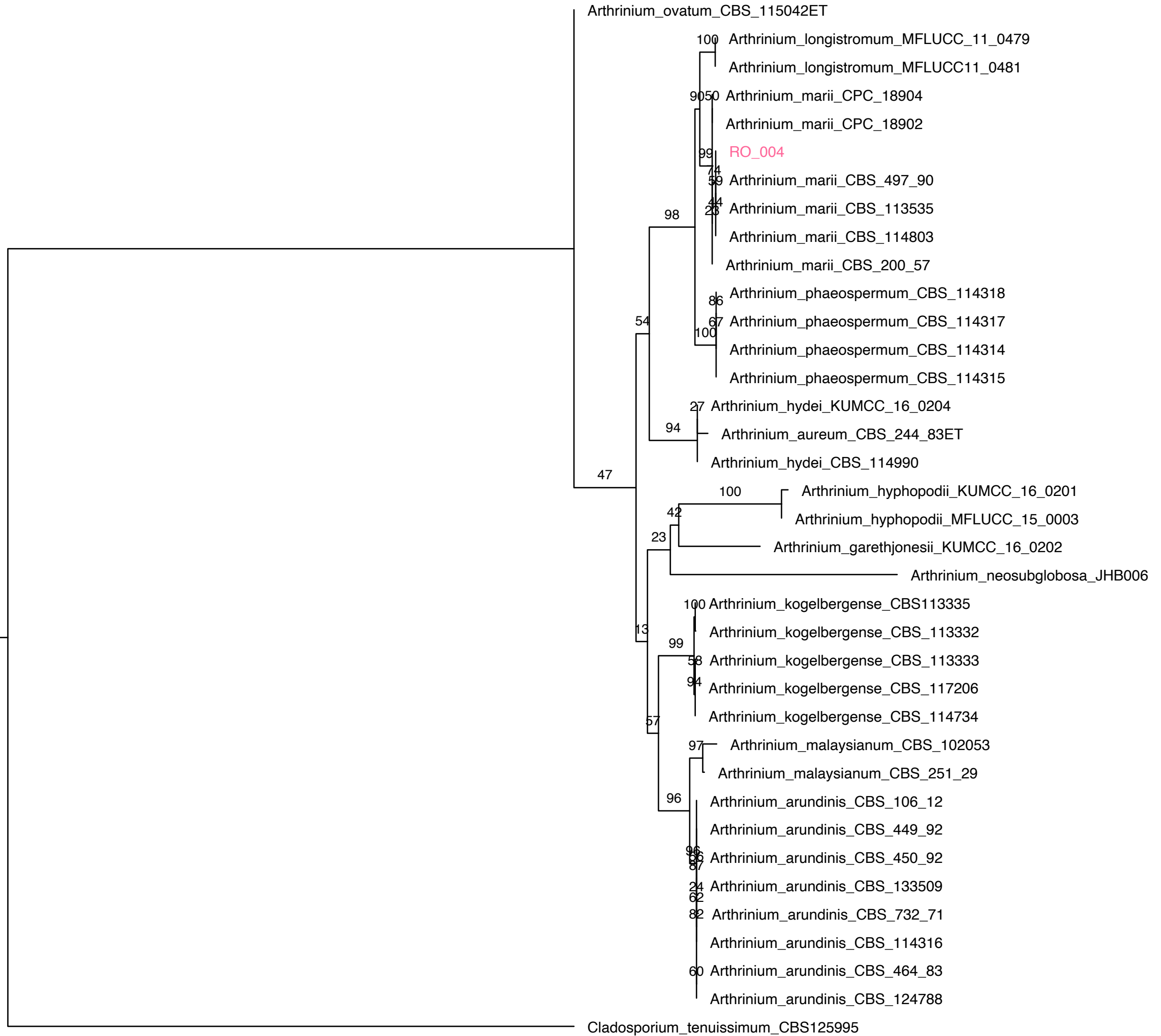
**Supplementary Figure S1.** Representative of fungal strains that were isolated from tea grown in the conventional system including 12 strains from old leaves (A), six strains from young leaves (B), seven strains from root (C) and 12 strains from stem (D). All fungal strains were cultivated on PDA media for 7 days at 28°C.



**Supplementary Figure S2.** Representative of fungal strains that were isolated from tea grown in the organic system including 16 strains from young leaves (A), 15 strains from old leaves (B), 14 strains from stem (C), and 13 strains from root (D). All fungal strains were cultivated on PDA media for 7 days at 28° C.

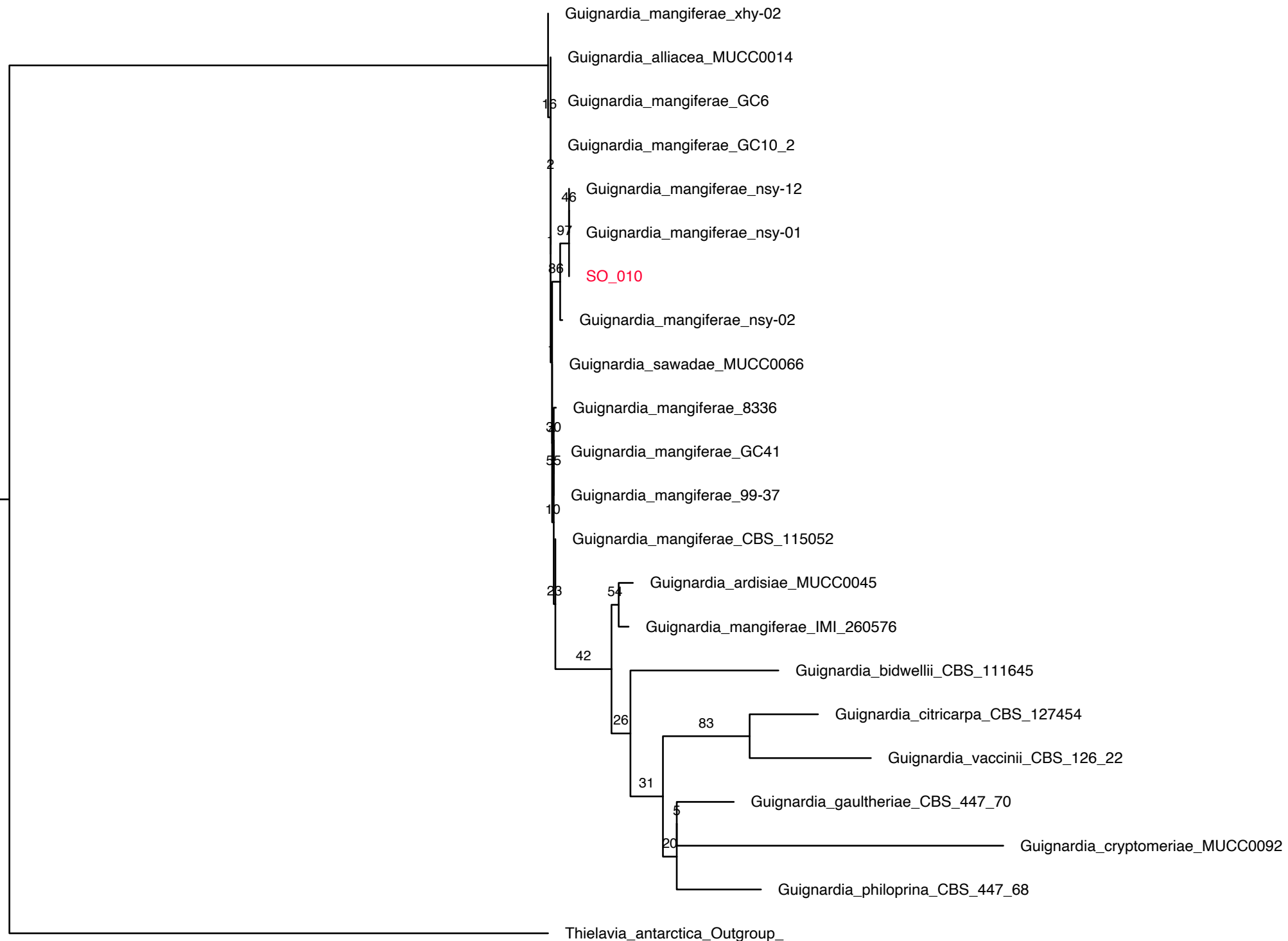


0.006



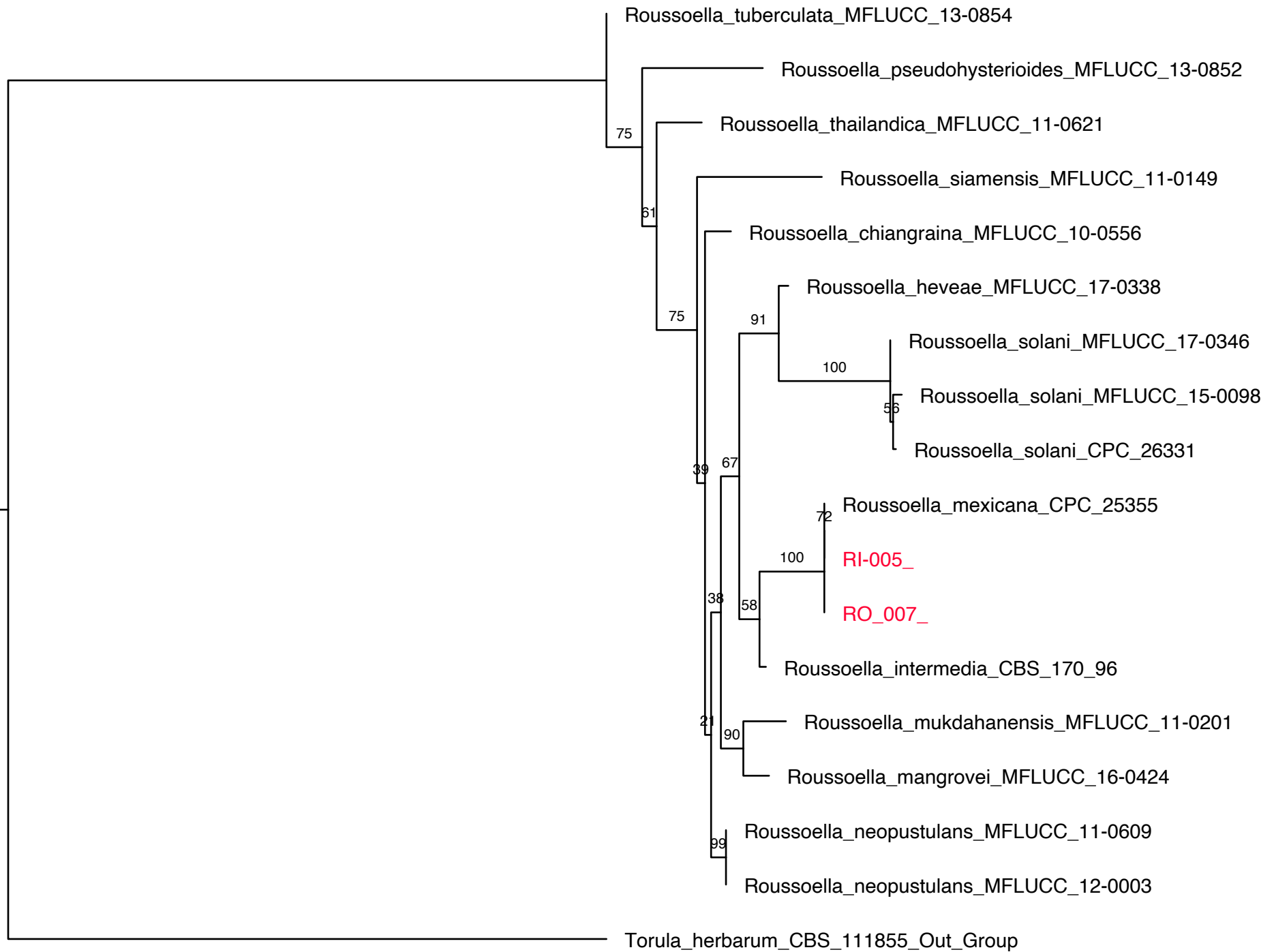


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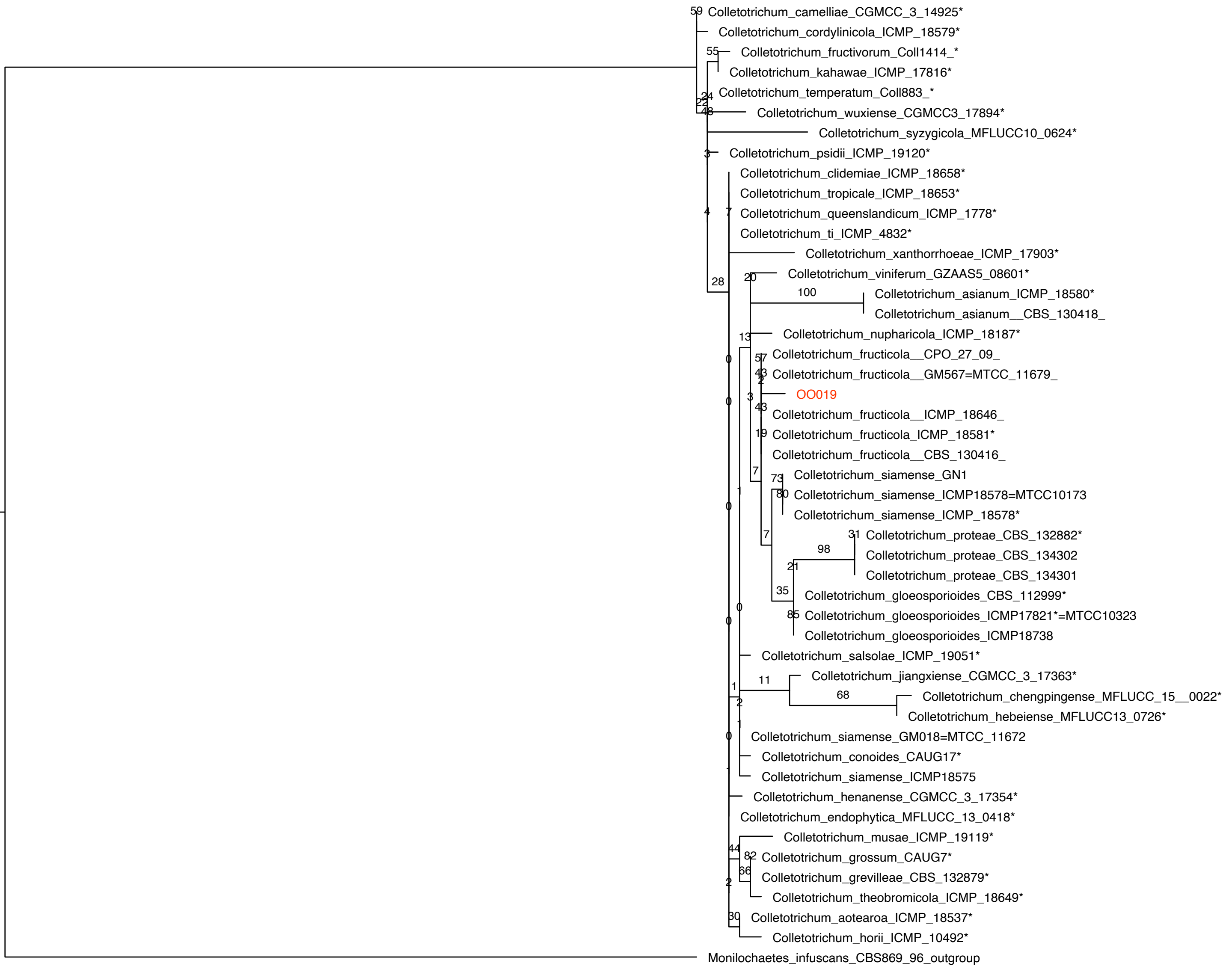


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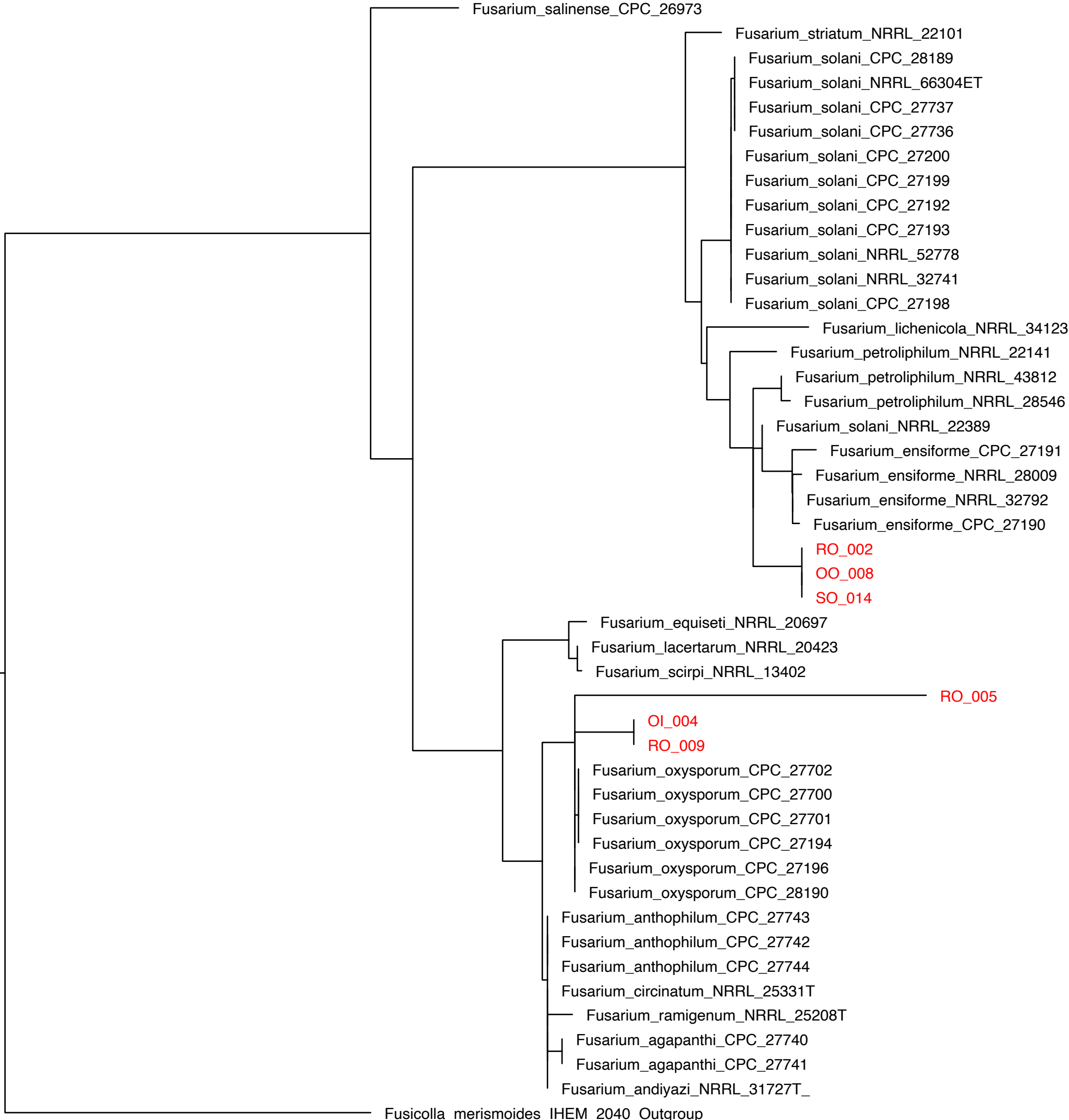


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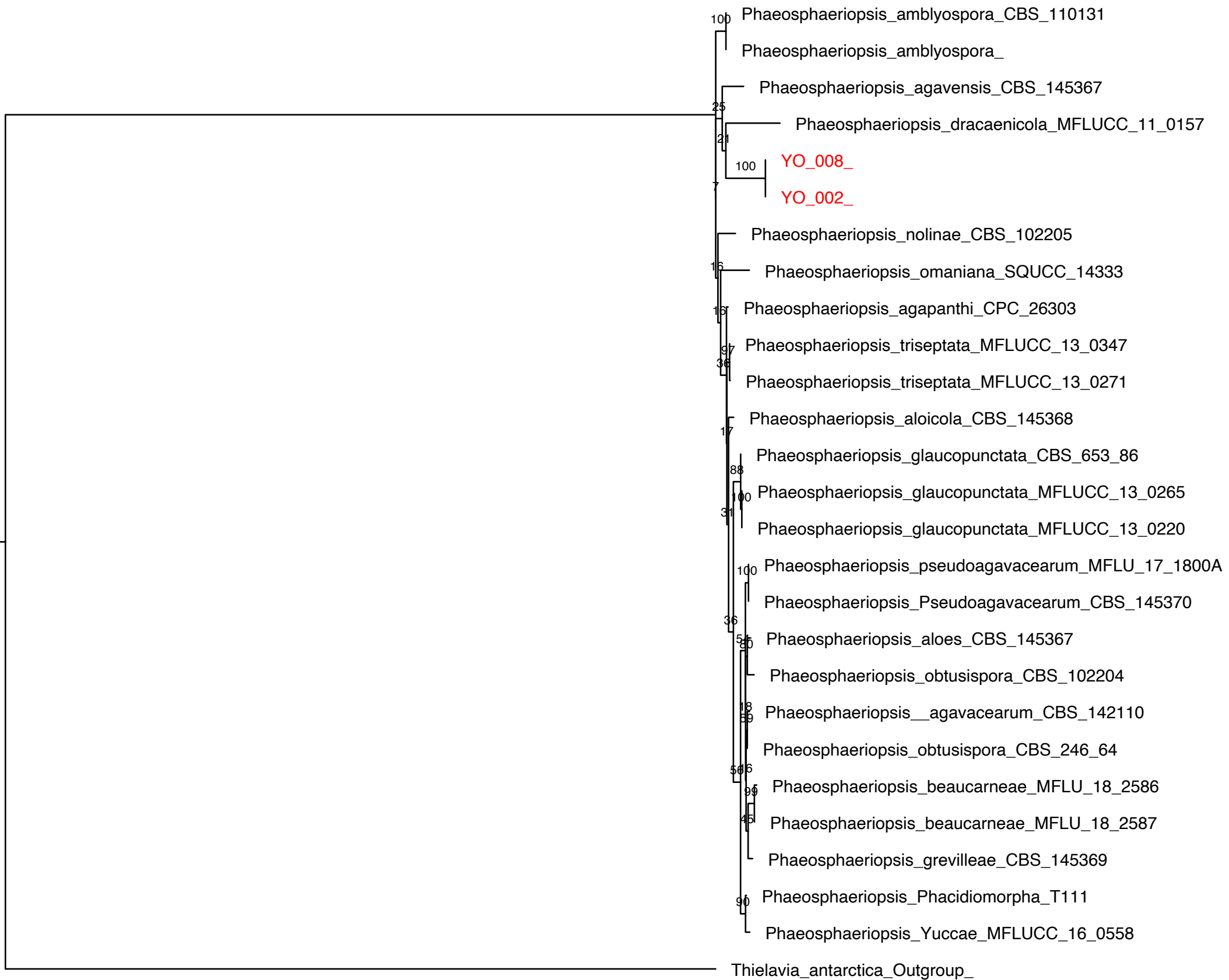


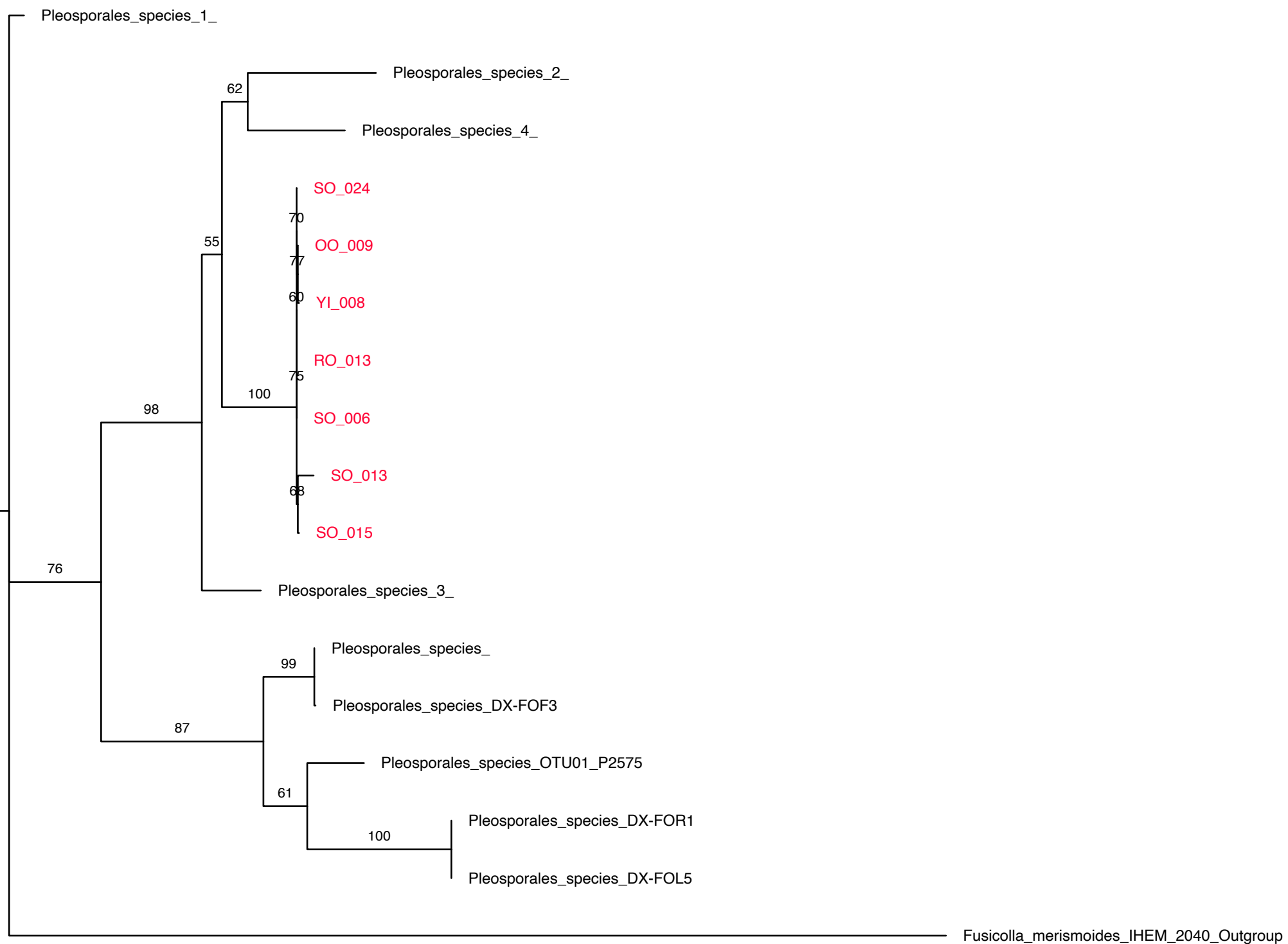
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0.02

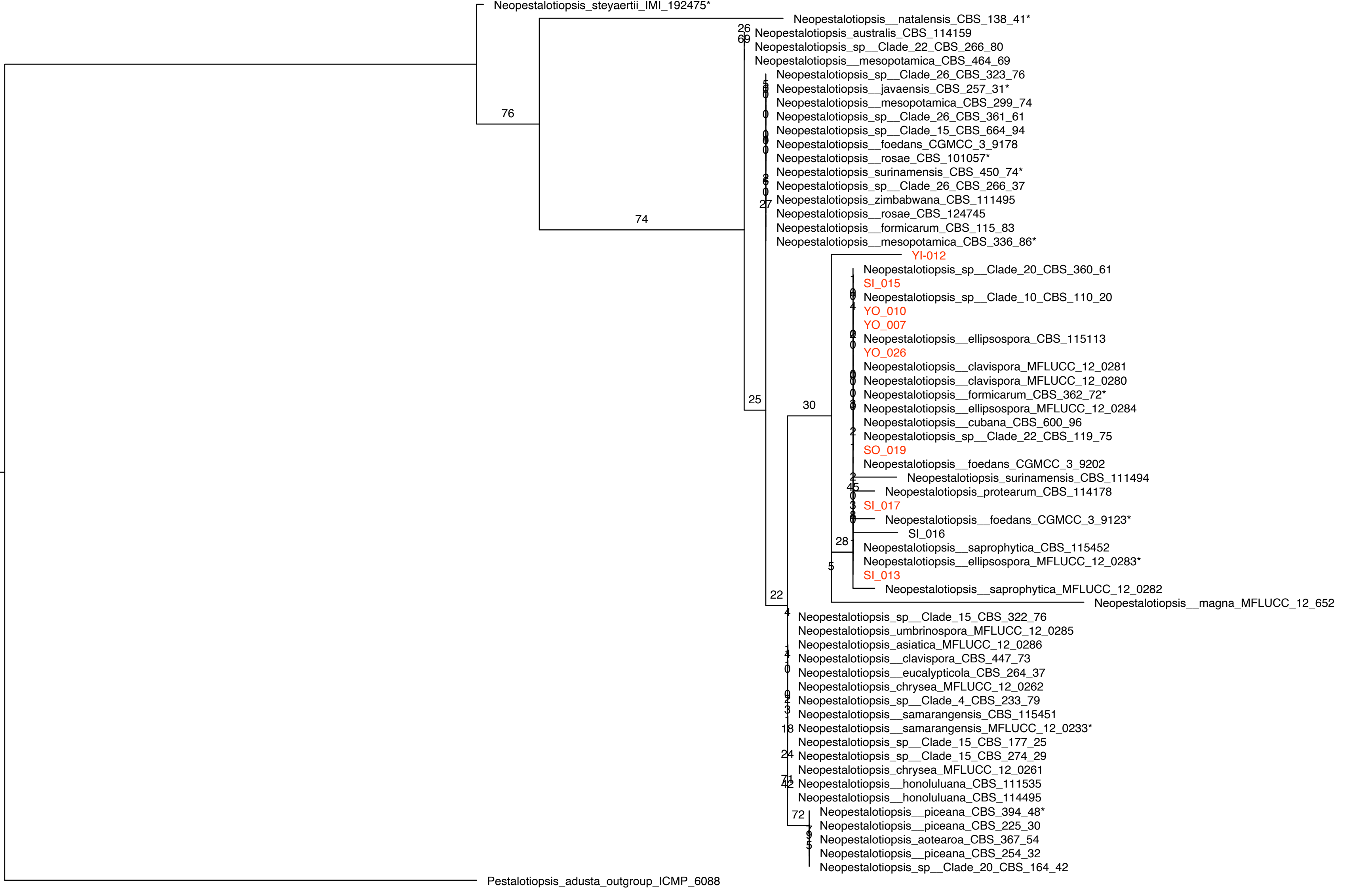




0.2

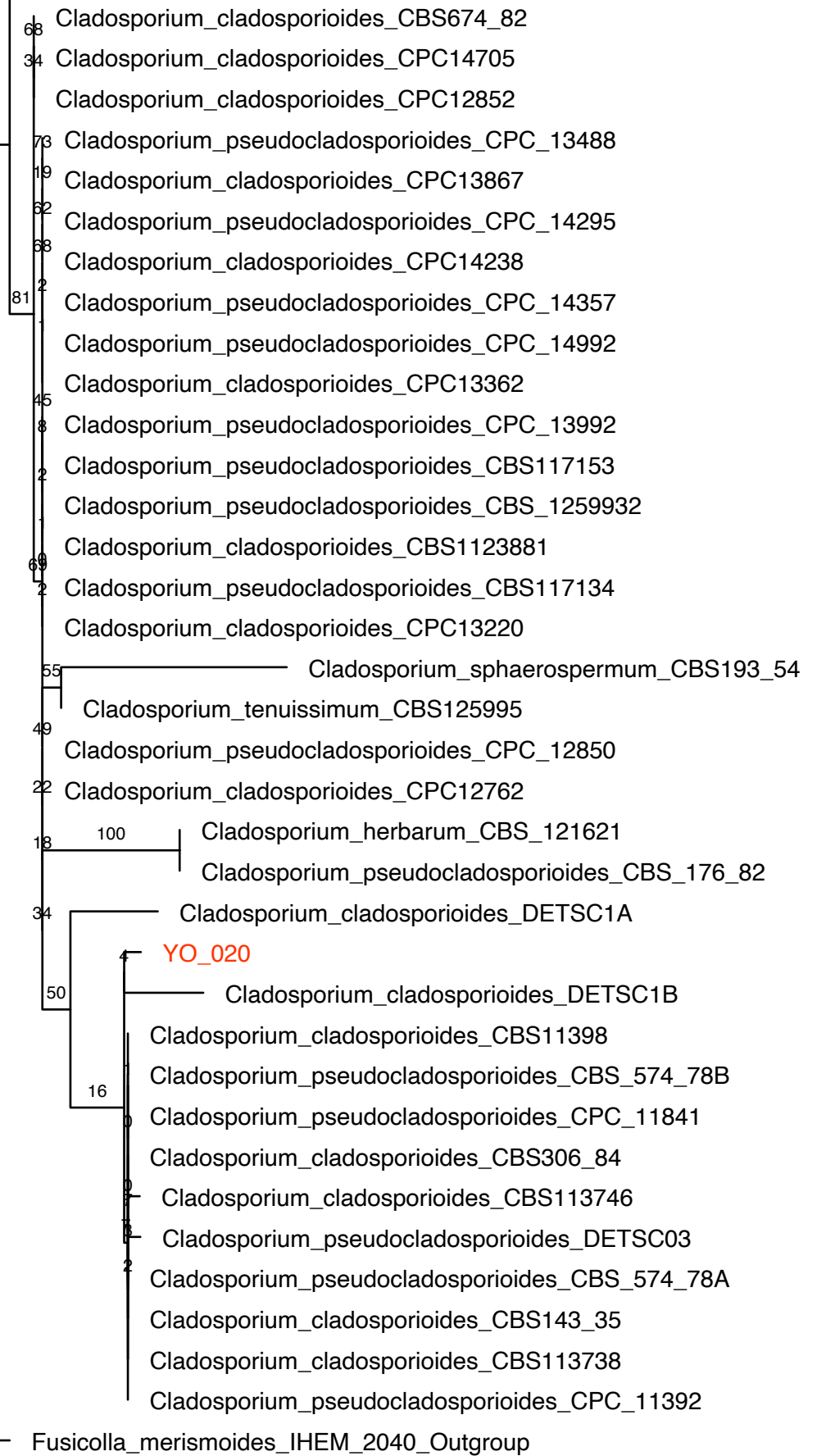


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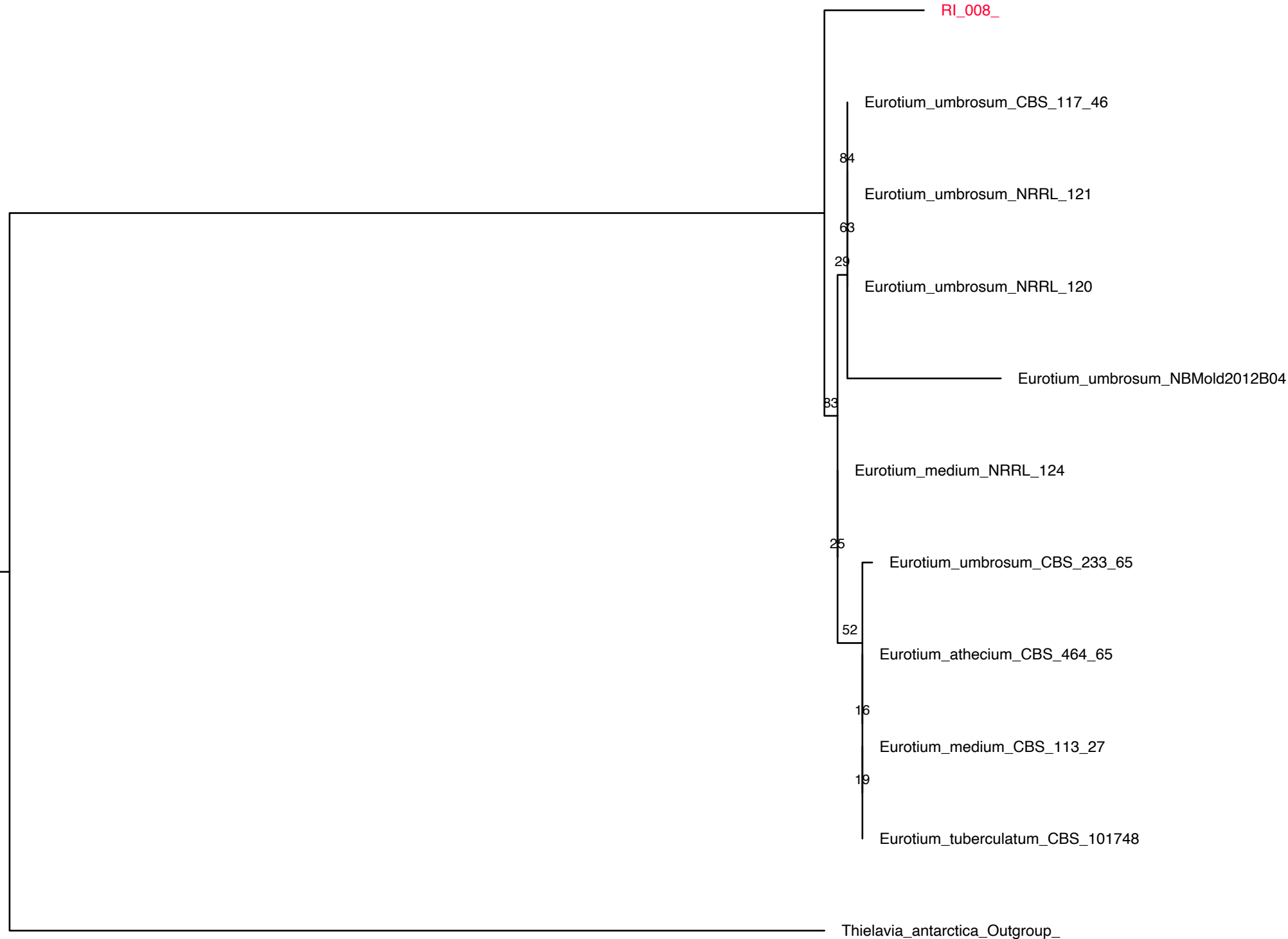
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SO\_022

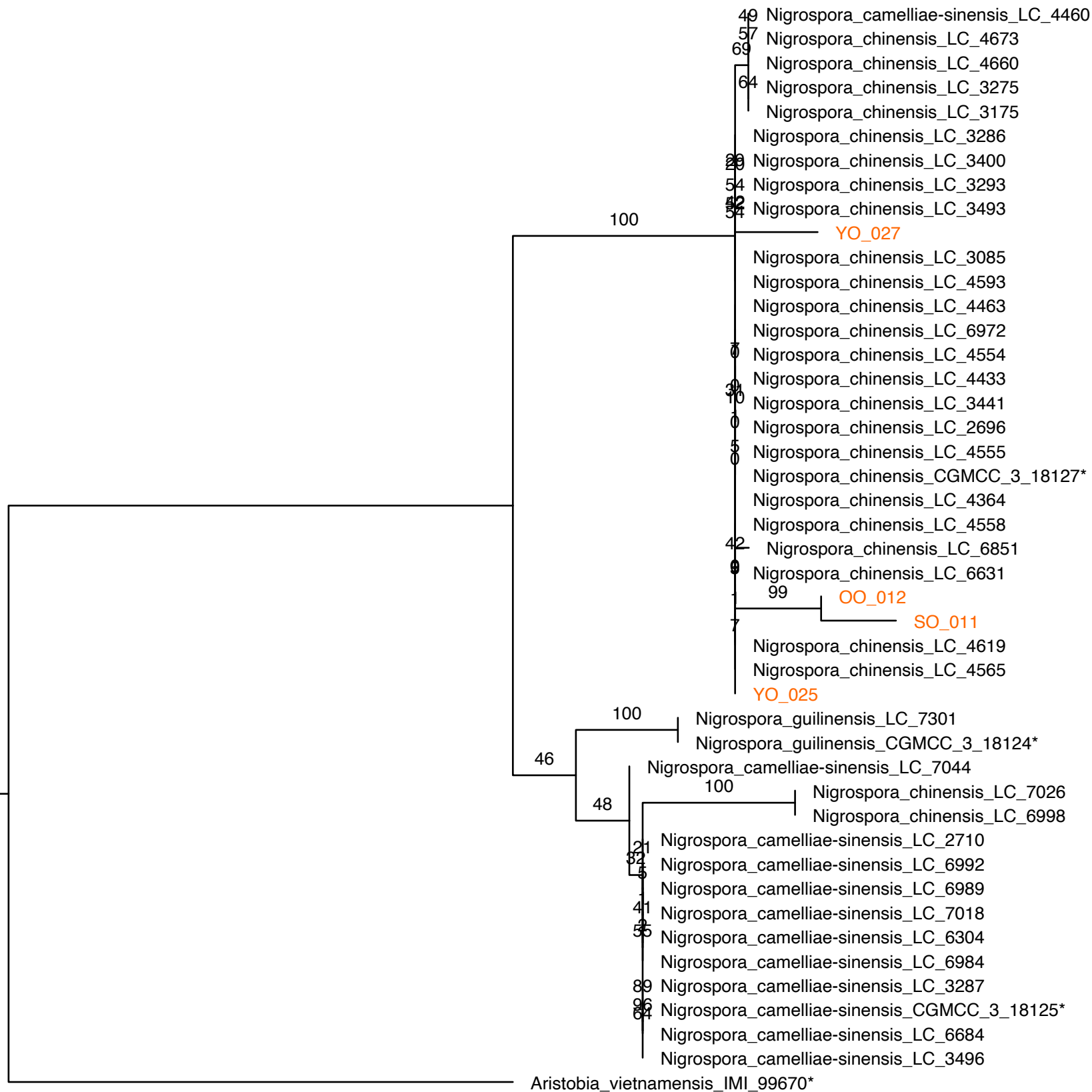


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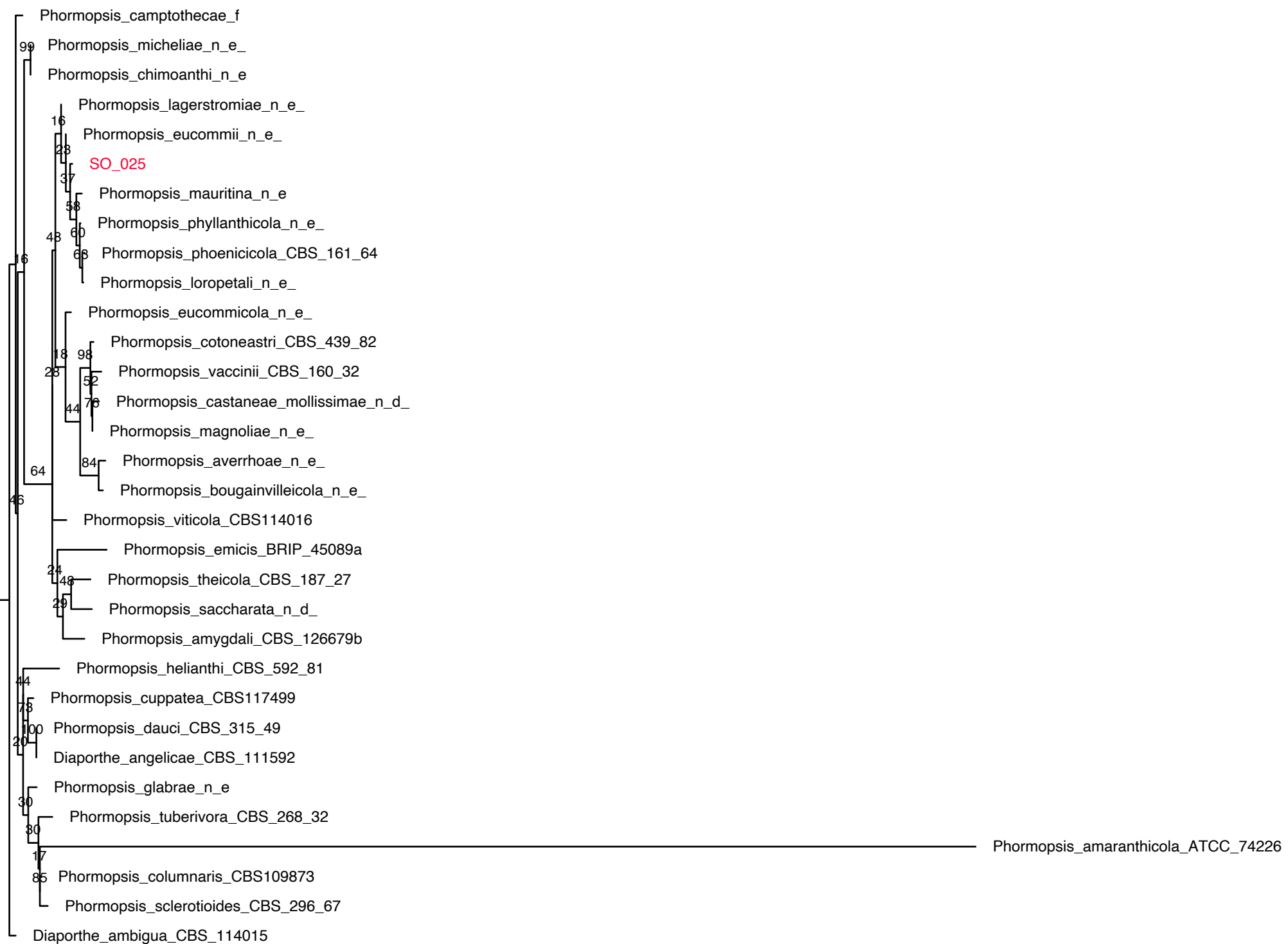




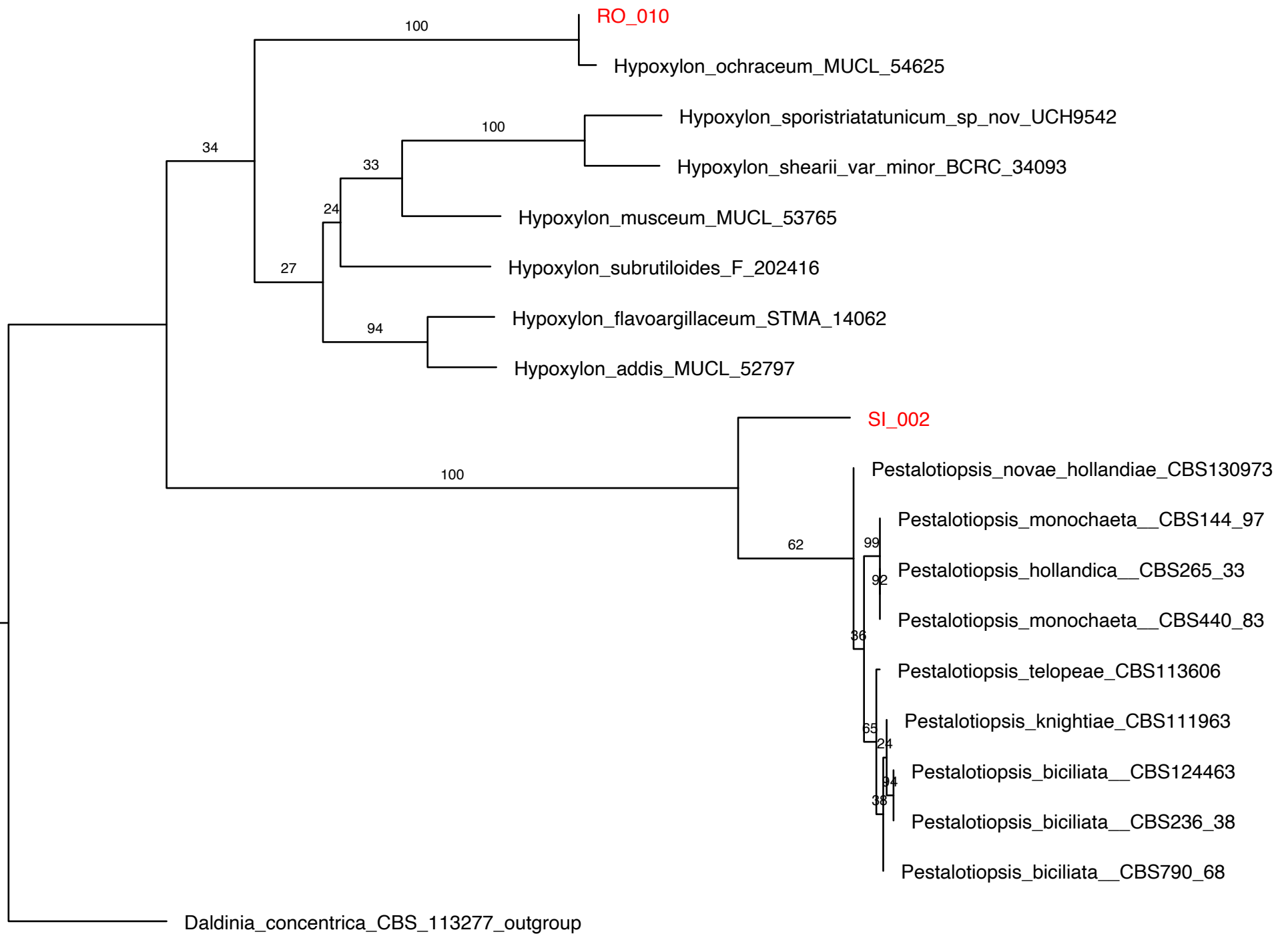
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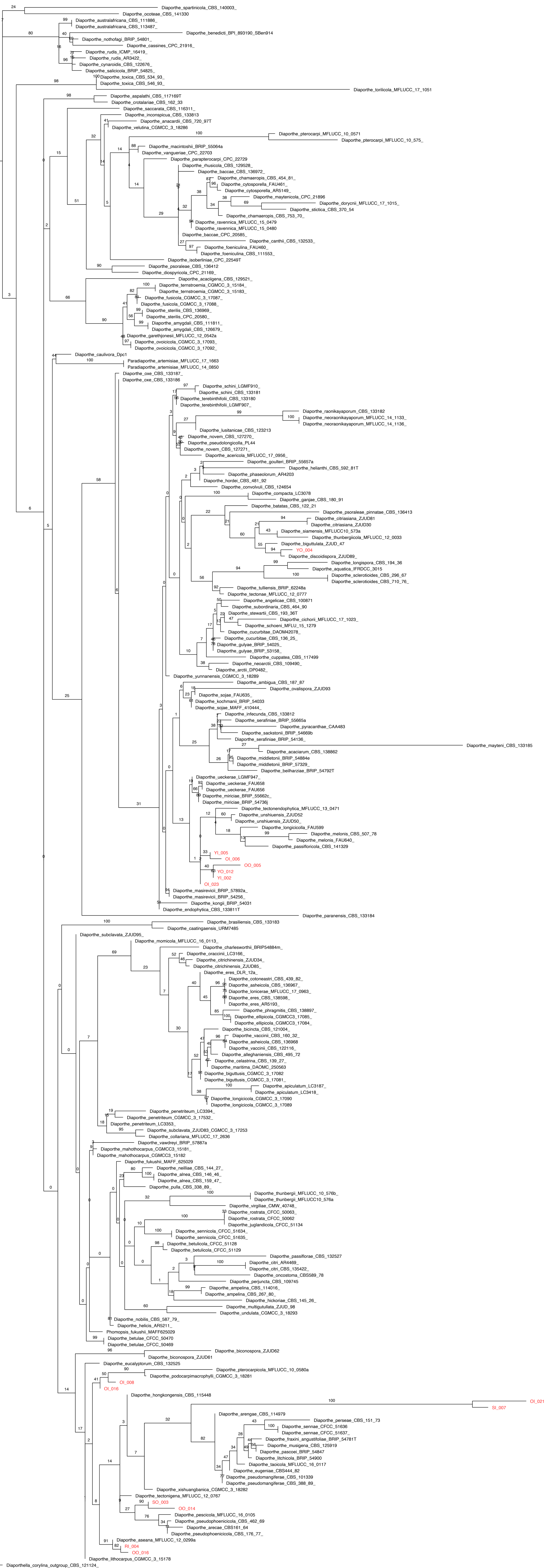


0.3



0.05





**Supplementary Figure S3.** Phylogenetic tree of 66 isolates based on the nucleotide sequences of rDNA-ITS. The isolates and their phylogenetic position based on the ITS region according to the RAxML analyses. Bootstrap support values for ML equal to or greater than 90%.



**Table S1.** Maximum nucleotide identity match for 66 fungal isolated based on ITS sequences using BLAST and phylogenetic tree analysis

No.	Isolates ID	GenBank accession number	Database species	Identity (%)	Accession number	Phylum, Class, Family
1	YI-002	MT043777.1	<i>Diaporthe sp.</i>	96.54%	OM189555	Ascomycota, Sordariomycetes, Nectriaceae,
2	YI-005	KP199195.1	<i>Diaporthe sp.</i>	99.59%	OM190460	Ascomycota, Sordariomycetes, Diaporthaceae
3	YI-008	HQ832808.1	<i>Pleosporales sp.</i>	99.48%	OM190401	Ascomycota, Sordariomycetes, Diaporthaceae
4	YI-012	MT576586.1	<i>Neopestalotiopsis sp.</i>	99.20%	OM149730	Ascomycota, Sordariomycetes, Amphisphaeriaceae
5	OI-004	MT560381.1	<i>Fusarium oxysporum</i>	99.81%	OM190461	Ascomycota, Sordariomycetes, Diaporthaceae
6	OI-006	KF498865.1	<i>Diaporthe sp.</i>	99.29%	OM127751	Ascomycota, Sordariomycetes, Amphisphaeriaceae
7	OI-008	MG832475.1	<i>Diaporthe sp.</i>	98.92%	OM127832	Ascomycota, Sordariomycetes, Diaporthaceae
8	OI-010	MT322075.1	<i>Pseudopestalotiopsis sp.</i>	99.82%	OM127833	Ascomycota, Sordariomycetes, Diaporthaceae
9	OI-016	MG832475.1	<i>Diaporthe sp.</i>	98.75%	OM127847	Ascomycota, Sordariomycetes, Chaetomiaceae
10	OI-019	MT322091.1	<i>Pseudopestalotiopsis sp.</i>	83.25%	OM127834	Ascomycota, Sordariomycetes, Diaporthaceae
11	OI-021	KY790594.1	<i>Diaporthe sp.</i>	97.84%	OM190463	Ascomycota, Dothideomycetes Didymosphaeriaceae
12	OI-023	MK111104.1	<i>Diaporthe sp.</i>	92.73%	OM127848	Ascomycota, Sordariomycetes, Chaetomiaceae
13	SI-002	MN486554.1	<i>Neopestalotiosis sp.</i>	100%	OM189550	Ascomycota, Eurotiomycetes, Trichocomaceae.
14	SI-007	KY790594.1	<i>Diaporthe sp.</i>	98.53%	OM108436	Ascomycota, Sordariomycetes, Chaetomiaceae

15	SI-012	MN486561.1	<i>Clonostachys sp.</i>	100%	OM189548	Ascomycota, Sordariomycetes, Xylariaceae
16	SI-013	MT151848.1	<i>Neopestalotiopsis sp.</i>	99.63%	OM189547	Ascomycota, Sordariomycetes, Diaporthaceae
17	SI-015	LC412067.1	<i>Neopestalotiopsis sp.</i>	100%	OM117569	Ascomycota, Sordariomycetes, Bionectriaceae
18	SI-016	MK278906.1	<i>Neopestalotiopsis sp.</i>	99.41%	OM135584	Ascomycota, Sordariomycetes, Sporocadaceae
19	SI-017	MT322103.1	<i>Neopestalotiopsis sp.</i>	100%	OM117591	Ascomycota, Sordariomycetes, Sporocadaceae
20	RI-003	MN341327.1	<i>Chaetomium sp.</i>	98.65%	OM124054	Ascomycota, Sordariomycetes, Sporocadaceae
21	RI-004	KF159984.1	<i>Diaporthe aseana</i>	84.58%	OM135374	Ascomycota, Sordariomycetes, Sporocadaceae
22	RI-005	MT112308.1	<i>Roussoella sp.</i>	99.40%	OM124055	Ascomycota, Sordariomycetes, Diaporthaceae
23	RI-007	MH855939.1	<i>Chaetomium sp.</i>	97.61%	OM124056	Ascomycota, Sordariomycetes, Diaporthaceae
24	RI-008	KJ863518.1	<i>Eurotium sp.</i>	99.81%	OM124069	Ascomycota, Dothideomycetes, Pleosporomycetidae
25	RI-012	MN886594.1	<i>Ovatospora sp.</i>	99.64%	OM169009	Ascomycota, Sordariomycetes, Sporocadaceae
26	YO-002	KU529845.1	<i>Phaeosphaeriopsis sp.</i>	99.42%	OM125263	Ascomycota, Sordariomycetes, Diaporthaceae
27	YO-004	MN816409.1	<i>Diaporthe sp.</i>	99.09%	OM190448	Ascomycota, Sordariomycetes, Nectriaceae,
28	YO-007	MT019206.1	<i>Neopestalotiopsis sp.</i>	99.81%	OM190449	Ascomycota, Dothideomycetes, Pleosporomycetidae
29	YO-008	KM434268.1	<i>Phaeosphaeriopsis sp.</i>	98.57%	OM125357	Ascomycota, Dothideomycetes Pleosporaceae
30	YO-010	MT151848.1	<i>Neopestalotiopsis sp.</i>	99.81%	OM190441	Ascomycota,

						Sordariomycetes, Trichosphaeriaceae
31	YO-012	MT043777.1	<i>Diaporthe sp.</i>	99.64%	OM190454	Ascomycota, Sordariomycetes, Diaporthaceae
32	YO-020	MT645944.1	<i>Cladosporium sp.</i>	87.21%	OM200353	Ascomycota, Sordariomycetes, Diaporthaceae
33	YO-024	MK909901.1	<i>Pseudopestalotiopsis sp.</i>	100 %	OM190458	Ascomycota, Dothideomycetes Pleosporaceae
34	YO-025	MW186168.1	<i>Nigrospora sp.</i>	100%	OM190457	Ascomycota, Sordariomycetes, Glomerellaceae
35	YO-026	MT151848.1	<i>Neopestalotiopsis sp.</i>	99.81%	OM190453	Ascomycota, Sordariomycetes, Amphisphaeriaceae
36	YO-027	MW186168.1	<i>Nigrospora sp.</i>	99.81%	OM200315	Ascomycota, Sordariomycetes, Nectriaceae
37	OO-005	FJ79938.1	<i>Diaporthe sp.</i>	99.65%	OM190402	Ascomycota, Sordariomycetes, Apiosporaceae
38	OO-008	MT928791.1	<i>Fusarium sp.</i>	100%	OM189553	Ascomycota, Sordariomycetes, Nectriaceae,
39	OO-009	HQ832808.1	<i>Pleosporales sp.</i>	99.65%	OM190403	Ascomycota, Dothideomycetes Didymosphaeriaceae
40	OO-010	MH884141.1	<i>Alternaria sp.</i>	100%	OM108317	Ascomycota, Sordariomycetes, Nectriaceae,
41	OO-012	MH979024.1	<i>Nigrospora sp.</i>	99.60%	OM131564	Ascomycota, Sordariomycetes, Xylariaceae
42	OO-014	KX940974.1	<i>Diaporthe sp.</i>	98.30%	OM131565	Ascomycota, Dothideomycetes, Pleosporomycetidae
43	OO-016	NR_154920.1	<i>Diaporthe sp.</i>	99.27%	OM189552	Ascomycota, Sordariomycetes, Bionectriaceae
44	OO-018	MH884078.1	<i>Alternaria sp.</i>	100%	OM131721	Ascomycota, Sordariomycetes, Diaporthaceae
45	OO-019	KT218694.1	<i>Colletotrichum sp.</i>	99.82%	OM189551	Ascomycota, Dothideomycetes, Pleosporomycetidae

46	SO-001	MN486561.1	<i>Clonostachys sp.</i>	100%	OM189543	Ascomycota, Sordariomycetes, Amphisphaeriaceae
47	SO-003	MN651490.1	<i>Diaporthe sp.</i>	99.45%	OM117688	Ascomycota, Dothideomycetes, Botryosphaeriaceae
48	SO-006	JQ809679.1	<i>Pleosporales sp.</i>	99.82%	OM149384	Ascomycota, Sordariomycetes, Trichosphaeriaceae
49	SO-007	MT322085.1	<i>Pseudopezalotiopsis sp.</i>	97.61%	OM149386	Ascomycota, Dothideomycetes, Pleosporomycetidae
50	SO-010	EU677801.1	<i>Guignardia sp.</i>	100%	OM149387	Ascomycota, Sordariomycetes, Nectriaceae,
51	SO-011	MH979024.1	<i>Nigrospora sp.</i>	98.59%	OM149390	Ascomycota, Dothideomycetes, Pleosporomycetidae
52	SO-013	HQ832808.1	<i>Pleosporales sp.</i>	97.56%	OM149392	Ascomycota, Sordariomycetes, Sporocadaceae
53	SO-014	KF918554.1	<i>Fusarium sp.</i>	99.46%	OM190412	Ascomycota, Dothideomycetes, Davidiellaceae
54	SO-015	HQ832808.1	<i>Pleosporales sp.</i>	98.95%	OM149713	Ascomycota, Dothideomycetes, Pleosporomycetidae
55	SO-019	MT151848.1	<i>Neopezalotiopsis sp.</i>	99.81%	OM190406	Ascomycota, Sordariomycetes, Valsaceae
56	SO-022	MG209675.1	<i>Cladosporium sp.</i>	99.02%	OM149718	Ascomycota, Dothideomycetes, Phaeosphaeriaceae
57	SO-024	HQ832808.1	<i>Pleosporales sp.</i>	89.93%	OM190404	Ascomycota, Sordariomycetes, Diaporthaceae
58	SO-025	MF800892.1	<i>Phomopsis sp.</i>	99.74%	OM189554	Ascomycota, Sordariomycetes, Sporocadaceae
59	RO-001	MK909901.1	<i>Pseudopezalotiopsis sp.</i>	99.63%	OM190466	Ascomycota, Dothideomycetes, Phaeosphaeriaceae
60	RO-002	MT928794.1	<i>Fusarium sp.</i>	100%	OM108320	Ascomycota, Sordariomycetes, Sporocadaceae
61	RO-004	NR166043.1	<i>Arthrinium sp.</i>	91.33%	OM108434	Ascomycota, Sordariomycetes,

						Diaporthaceae
62	RO-005	MT560381.1	<i>Fusarium sp.</i>	92.68%	OM149376	Ascomycota, Dothideomycetes, Davidiellaceae
63	RO-007	MT112308.1	<i>Roussoella sp.</i>	96.93%	OM112302	Ascomycota, Sordariomycetes, Amphisphaeriaceae
64	RO-009	KP050556.1	<i>Fusarium sp.</i>	99.81	OM190483	Ascomycota, Sordariomycetes, Trichosphaeriaceae
65	RO-010	KC968937.1	<i>Hypoxylon sp.</i>	93.42%	OM135271	Ascomycota, Sordariomycetes, Sporocadaceae
66	RO-013	JQ809679.1	<i>Pleosporales sp.</i>	99.45%	OM123443	Ascomycota, Sordariomycetes, Trichosphaeriaceae