

Long ITS sequences

Libraries & load TSE

```
library(mia)
library(tidyverse)
library(kableExtra)
tse <- readRDS("results/TSE.rds")

rowData(tse)$seq_length <- nchar(as.character(referenceSeq(tse)))
```

Filtering sequences over 800 bp

```
tse <- tse[rowData(tse)$seq_length >=800,]
dim(tse)
```

```
[1] 233 24
```

```
kable(rowData(tse), booktabs=T, longtable=T) %>%
  kable_styling(latex_options=c("striped", "repeat_header"),
    font_size=6) %>% row_spec(0, color="white", background="teal")
```

	Kingdom	Phylum	Class	Order	Family	Genus	Species	seq_length
OTU_399	Fungi	Ascomycota	Leotiomycetes	Leotiales	Tympanidaceae	Tympanidaceae_gen_Incertae_sedis	NA	829
OTU_523	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1001
OTU_555	Fungi	Ascomycota	Leotiomycetes	Leotiales	Tympanidaceae	Tympanidaceae_gen_Incertae_sedis	NA	829
OTU_855	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	998
OTU_1090	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	aurantiaca	807
OTU_1111	Fungi	Chytridiomycota	Spizellomycetes	Spizellomycetales	Spizellomycetales_fam_Incertae_sedis	Spizellomycetales_gen_Incertae_sedis	NA	939
OTU_1118	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	985
OTU_1210	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	800
OTU_1270	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	928
OTU_1288	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	878
OTU_1356	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	959
OTU_1456	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae	Leccinum	NA	1052
OTU_1483	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	833
OTU_1500	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	854
OTU_1508	Fungi	Chytridiomycota	GS14	GS14_ord_Incertae_sedis	GS14_fam_Incertae_sedis	GS14_gen_Incertae_sedis	NA	847
OTU_1541	Fungi	Ascomycota	Leotiomycetes	Leotiales	Tympanidaceae	Tympanidaceae_gen_Incertae_sedis	NA	830
OTU_1679	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	801
OTU_1683	Fungi	NA	NA	NA	NA	NA	NA	881
OTU_1721	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	1024
OTU_1755	Fungi	Ascomycota	Ascomycota_cls_Incertae_sedis	Ascomycota_ord_Incertae_sedis	Ascomycota_fam_Incertae_sedis	Ascomycota_gen_Incertae_sedis	NA	899
OTU_1777	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	973
OTU_1778	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	962
OTU_1829	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	877
OTU_1841	Fungi	Ascomycota	Dothideomycetes	Pleosporales	Amniculicolaceae	Murispora	galii	801
OTU_1843	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	934
OTU_1967	Fungi	NA	NA	NA	NA	NA	NA	811
OTU_1973	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	890
OTU_2009	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	816
OTU_2032	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	966
OTU_2037	Fungi	NA	NA	NA	NA	NA	NA	895
OTU_2039	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	839
OTU_2050	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae	Leccinum	NA	974
OTU_2118	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	aurantiaca	802
OTU_2121	Fungi	NA	NA	NA	NA	NA	NA	1007
OTU_2129	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	949
OTU_2131	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	954
OTU_2153	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	NA	809
OTU_2188	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	877
OTU_2198	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	859
OTU_2221	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	821
OTU_2230	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	867
OTU_2302	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	aurantiaca	805
OTU_2307	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Hygrophoraceae	Ampulloclitocybe	clavipes	849
OTU_2322	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae	Leccinum	varicolor	1359
OTU_2353	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	801
OTU_2359	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	aurantiaca	808
OTU_2386	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	850
OTU_2394	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	881
OTU_2428	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	910
OTU_2491	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	817
OTU_2520	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	822
OTU_2527	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae	Leccinum	versipelle	1372

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	Kingdom	Phylum	Class	Order	Family	Genus	Species	seq_length
OTU_2537	Fungi	Basidiobolomycota	Basidiobolomycetes	Basidiobolomycetes_ord_Incertae_sedis	Basidiobolomycetes_fam_Incertae_sedis	Basidiobolomycetes_gen_Incertae_sedis	NA	867
OTU_2631	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	852
OTU_2673	Fungi	Chytridiomycota	Spizellomycetes	Spizellomycetales	Spizellomycetales_fam_Incertae_sedis	Spizellomycetales_gen_Incertae_sedis	NA	827
OTU_2707	Fungi	NA	NA	NA	NA	NA	NA	811
OTU_2716	Fungi	Chytridiomycota	GS14	GS14_ord_Incertae_sedis	GS14_fam_Incertae_sedis	GS14_gen_Incertae_sedis	NA	803
OTU_2734	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	858
OTU_2892	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	837
OTU_2911	Fungi	NA	NA	NA	NA	NA	NA	890
OTU_2919	Fungi	NA	NA	NA	NA	NA	NA	887
OTU_2920	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	859
OTU_2992	Fungi	Rozellomycota	NA	NA	NA	NA	NA	977
OTU_3003	Fungi	Kickxellomycota	Kickxellomycetes	Kickxellales	Kickxellaceae	Coemansia	aciculifera	927
OTU_3010	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	936
OTU_3026	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae	Leccinum	versipelle	1471
OTU_3044	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	808
OTU_3051	Fungi	Kickxellomycota	Kickxellomycetes	Kickxellales	Kickxellaceae	Coemansia	aciculifera	848
OTU_3058	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	804
OTU_3077	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	804
OTU_3081	Fungi	NA	NA	NA	NA	NA	NA	816
OTU_3160	Fungi	NA	NA	NA	NA	NA	NA	1052
OTU_3182	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	815
OTU_3186	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Piptocephalis	NA	955
OTU_3190	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	995
OTU_3219	Fungi	NA	NA	NA	NA	NA	NA	821
OTU_3220	Fungi	Chytridiomycota	Spizellomycetes	Spizellomycetales	Spizellomycetales_fam_Incertae_sedis	Spizellomycetales_gen_Incertae_sedis	NA	855
OTU_3234	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1009
OTU_3242	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	840
OTU_3264	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	988
OTU_3289	Fungi	NA	NA	NA	NA	NA	NA	948
OTU_3303	Fungi	Chytridiomycota	Spizellomycetes	Spizellomycetales	Spizellomycetales_fam_Incertae_sedis	Spizellomycetales_gen_Incertae_sedis	NA	828
OTU_3309	Fungi	NA	NA	NA	NA	NA	NA	943
OTU_3342	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	829
OTU_3347	Fungi	NA	NA	NA	NA	NA	NA	974
OTU_3356	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	859
OTU_3358	Fungi	NA	NA	NA	NA	NA	NA	811
OTU_3361	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	aurantiaca	816
OTU_3364	Fungi	Ascomycota	Ascomycota_cls_Incertae_sedis	Ascomycota_ord_Incertae_sedis	Ascomycota_fam_Incertae_sedis	Ascomycota_gen_Incertae_sedis	NA	962
OTU_3372	Fungi	Ascomycota	Ascomycota_cls_Incertae_sedis	Ascomycota_ord_Incertae_sedis	Ascomycota_fam_Incertae_sedis	Ascomycota_gen_Incertae_sedis	NA	805
OTU_3376	Fungi	NA	NA	NA	NA	NA	NA	834
OTU_3387	Fungi	Basidiomycota	Basidiomycota_cls_Incertae_sedis	Basidiomycota_ord_Incertae_sedis	Basidiomycota_fam_Incertae_sedis	Basidiomycota_gen_Incertae_sedis	NA	1020
OTU_3389	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1089
OTU_3393	Fungi	NA	NA	NA	NA	NA	NA	878
OTU_3395	Fungi	NA	NA	NA	NA	NA	NA	853
OTU_3397	Fungi	NA	NA	NA	NA	NA	NA	820
OTU_3398	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	990
OTU_3408	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	879
OTU_3421	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1098
OTU_3446	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	1003
OTU_3451	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Entolomataceae	Entoloma	paragaudatum	881
OTU_3454	Fungi	NA	NA	NA	NA	NA	NA	801
OTU_3467	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1038
OTU_3481	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1027
OTU_3484	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	894
OTU_3497	Fungi	NA	NA	NA	NA	NA	NA	884
OTU_3506	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	889
OTU_3507	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	877
OTU_3518	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1089
OTU_3532	Fungi	Kickxellomycota	Kickxellomycetes	Kickxellales	Kickxellaceae	Kickxellaceae_gen_Incertae_sedis	NA	1005

(continued)

	Kingdom	Phylum	Class	Order	Family	Genus	Species	seq_length
OTU_3541	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1006
OTU_3545	Fungi	NA	NA	NA	NA	NA	NA	848
OTU_3550	Fungi	NA	NA	NA	NA	NA	NA	803
OTU_3551	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1392
OTU_3563	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	822
OTU_3582	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	937
OTU_3585	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	874
OTU_3586	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	832
OTU_3589	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Piptocephalis	NA	830
OTU_3597	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	907
OTU_3598	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	932
OTU_3599	Fungi	Basidiomycota	Agaricomycetes	Hymenochaetales	Hymenochaetaeae	Coltricia	perennis	819
OTU_3602	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	840
OTU_3608	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	983
OTU_3616	Fungi	Ascomycota	Leotiomycetes	Leotiales	Tympanidaceae	Tympanidaceae_gen_Incertae_sedis	NA	828
OTU_3626	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	949
OTU_3665	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1328
OTU_3668	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula	depallens	1296
OTU_3707	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula	depallens	1313
OTU_3737	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula	versicolor	1317
OTU_3738	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	984
OTU_3739	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	946
OTU_3752	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1314
OTU_3759	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1031
OTU_3767	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1454
OTU_3781	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1440
OTU_3803	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1729
OTU_3808	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1461
OTU_3821	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1097
OTU_3846	Fungi	Ascomycota	Eurotiomycetes	Chaetothyriales	Herpotrichiellaceae	Cladophialophora	multiseptata	1110
OTU_3885	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula	depallens	1323
OTU_3896	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1090
OTU_3963	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula	depallens	1645
OTU_3978	Fungi	Basidiomycota	NA	NA	NA	NA	NA	1154
OTU_3994	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Russula	depallens	1249
OTU_4013	Fungi	NA	NA	NA	NA	NA	NA	1467
OTU_4222	Fungi	NA	NA	NA	NA	NA	NA	830
OTU_4261	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	1007
OTU_4440	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	998
OTU_4486	Fungi	Basidiomycota	Agaricomycetes	Agaricales	Cortinariaceae	Cortinarius	NA	1032
OTU_4532	Fungi	Chytridiomycota	Spizellomycetes	Spizellomycetales	Spizellomycetales_fam_Incertae_sedis	Spizellomycetales_gen_Incertae_sedis	NA	1033
OTU_4851	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	884
OTU_4940	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1466
OTU_5023	Fungi	Basidiomycota	Agaricomycetes	NA	NA	NA	NA	1395
OTU_5030	Fungi	Ascomycota	Lecanoromycetes	Lecanorales	Ramalinaceae	Mycobilimbia	microcarpa	1082
OTU_5062	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1115
OTU_5088	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	806
OTU_5109	Fungi	Basidiomycota	Tremellomycetes	Filobasidiales	Solkurozymaceae	Solkurozyma	terricola	1296
OTU_5173	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	920
OTU_5269	Fungi	Basidiomycota	Agaricomycetes	Russulales	Russulaceae	Lactarius	vietus	1356
OTU_5274	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	869
OTU_5365	Fungi	NA	NA	NA	NA	NA	NA	894
OTU_5407	Fungi	NA	NA	NA	NA	NA	NA	805
OTU_5500	Fungi	Ascomycota	Leotiomycetes	Helotiales	NA	NA	NA	910
OTU_5595	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	991
OTU_5603	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	980
OTU_5620	Fungi	Ascomycota	Leotiomycetes	Leotiales	Tympanidaceae	Tympanidaceae_gen_Incertae_sedis	NA	824

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	Kingdom	Phylum	Class	Order	Family	Genus	Species	seq_length
OTU_5628	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	816
OTU_5666	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	970
OTU_5694	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	1003
OTU_5709	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	962
OTU_5721	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1328
OTU_5743	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	818
OTU_5758	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1001
OTU_5775	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	819
OTU_5786	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	983
OTU_5792	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1004
OTU_5818	Fungi	Mortierellomycota	Mortierellomycetes	Mortierellales	Mortierellaceae	Mortierella	NA	1478
OTU_5827	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	983
OTU_5856	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1001
OTU_5869	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	841
OTU_5893	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	996
OTU_5904	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1350
OTU_5917	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1001
OTU_5949	Fungi	NA	NA	NA	NA	NA	NA	954
OTU_5988	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	1003
OTU_6013	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	993
OTU_6064	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1000
OTU_6065	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	963
OTU_6080	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	988
OTU_6086	Fungi	NA	NA	NA	NA	NA	NA	831
OTU_6108	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	979
OTU_6164	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	817
OTU_6166	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Syncephalis	aurantiaca	808
OTU_6248	Fungi	NA	NA	NA	NA	NA	NA	1254
OTU_6587	Fungi	Ascomycota	Eurotiomycetes	Eurotiales	Aspergillaceae	Penicillium	NA	1288
OTU_6609	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	893
OTU_6634	Fungi	Ascomycota	Leotiomycetes	Helotiales	Myxotrichaceae	Oidiodendron	piticola	1202
OTU_6696	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	912
OTU_6698	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	992
OTU_6699	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	848
OTU_6710	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	phycophilum	990
OTU_6971	Fungi	Basidiomycota	Agaricomycetes	Atheliales	Atheliaceae	Tylospora	fibrillosa	1159
OTU_6977	Fungi	Mortierellomycota	Mortierellomycetes	Mortierellales	Mortierellaceae	Mortierella	pulchella	1556
OTU_6997	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	952
OTU_7050	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1073
OTU_7099	Fungi	Basidiomycota	Agaricomycetes	Boletales	Boletaceae	Leccinum	NA	1067
OTU_7120	Fungi	Zoopagomycota	Zoopagomycetes	Zoopagales	Piptocephalidaceae	Piptocephalis	NA	1059
OTU_7121	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	834
OTU_7157	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	896
OTU_7165	Fungi	Chytridiomycota	Spizellomycetes	Spizellomycetales	Spizellomycetales_fam_Incertae_sedis	Spizellomycetales_gen_Incertae_sedis	NA	879
OTU_7171	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1387
OTU_7225	Fungi	Ascomycota	Ascomycota_cls_Incertae_sedis	Ascomycota_ord_Incertae_sedis	Ascomycota_fam_Incertae_sedis	Ascomycota_gen_Incertae_sedis	NA	861
OTU_7239	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	943
OTU_7240	Fungi	Rozellomycota	Rozellomycota_cls_Incertae_sedis	Rozellomycota_ord_Incertae_sedis	Rozellomycota_fam_Incertae_sedis	Rozellomycota_gen_Incertae_sedis	NA	951
OTU_7244	Fungi	Kickxellomycota	Kickxellomycetes	Kickxellales	Kickxellaceae	Coemansia	aciculifera	846
OTU_7373	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	1395
OTU_7476	Fungi	Mortierellomycota	Mortierellomycetes	Mortierellales	Mortierellaceae	Mortierella	pulchella	1235
OTU_7481	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	910
OTU_7491	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	858
OTU_7513	Fungi	Ascomycota	Ascomycota_cls_Incertae_sedis	Ascomycota_ord_Incertae_sedis	Ascomycota_fam_Incertae_sedis	Ascomycota_gen_Incertae_sedis	NA	902
OTU_7578	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	870
OTU_7662	Fungi	Chytridiomycota	Chytridiomycetes	Chytridiales	Chytriomycetaceae	Rhizidium	NA	1010
OTU_7704	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	819
OTU_7724	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	996

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	Kingdom	Phylum	Class	Order	Family	Genus	Species	seq_length
OTU_7790	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	815
OTU_7817	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	860
OTU_7855	Fungi	NA	NA	NA	NA	NA	NA	1011
OTU_7940	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	830
OTU_8068	Fungi	Ascomycota	Ascomycota_cls_Incertae_sedis	Ascomycota_ord_Incertae_sedis	Ascomycota_fam_Incertae_sedis	Ascomycota_gen_Incertae_sedis	NA	834
OTU_8108	Fungi	NA	NA	NA	NA	NA	NA	1117
OTU_8111	Fungi	Fungi_phy_Incertae_sedis	Fungi_cls_Incertae_sedis	Fungi_ord_Incertae_sedis	Fungi_fam_Incertae_sedis	Fungi_gen_Incertae_sedis	NA	936
OTU_8160	Fungi	Chytridiomycota	Chytridiomycota_cls_Incertae_sedis	Chytridiomycota_ord_Incertae_sedis	Chytridiomycota_fam_Incertae_sedis	Chytridiomycota_gen_Incertae_sedis	NA	1033