

Supplementary files

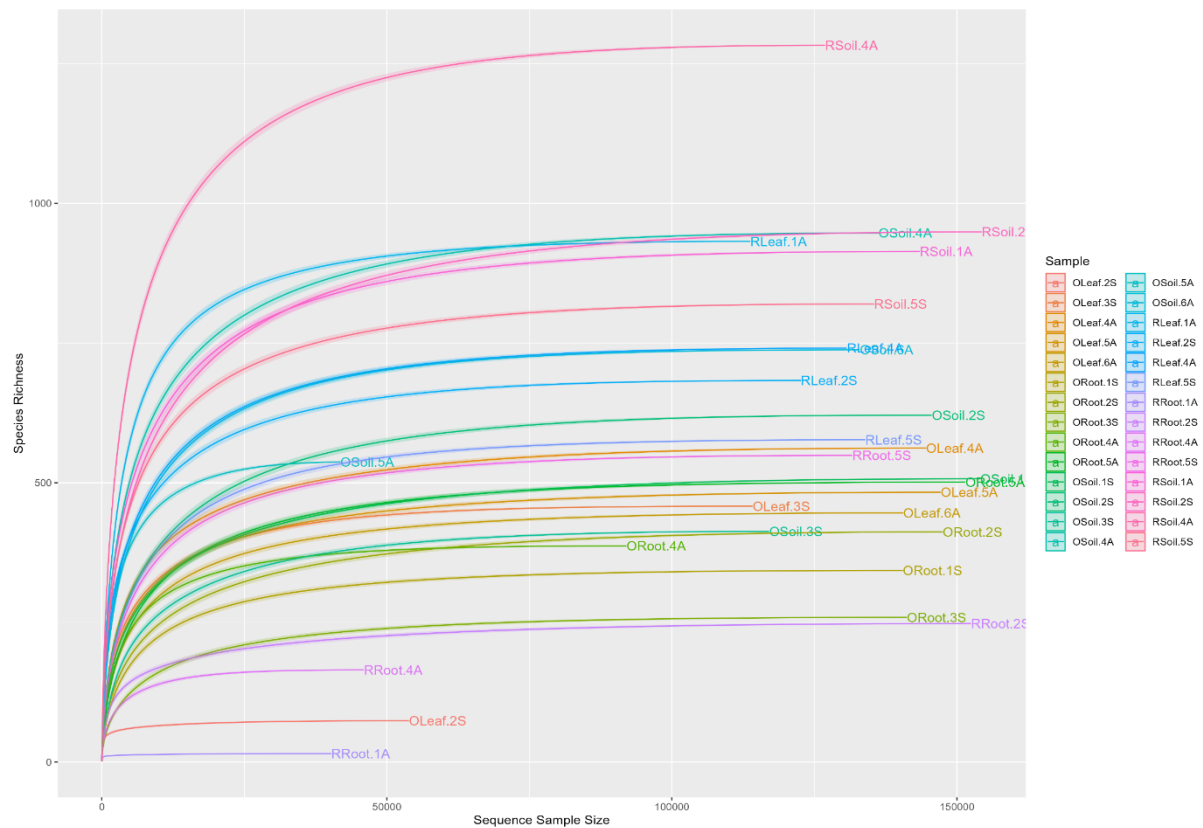


Fig. S1: Rarefaction curve for alpha-diversity analysis indicating a sufficient representation of each sample at the selected depth.

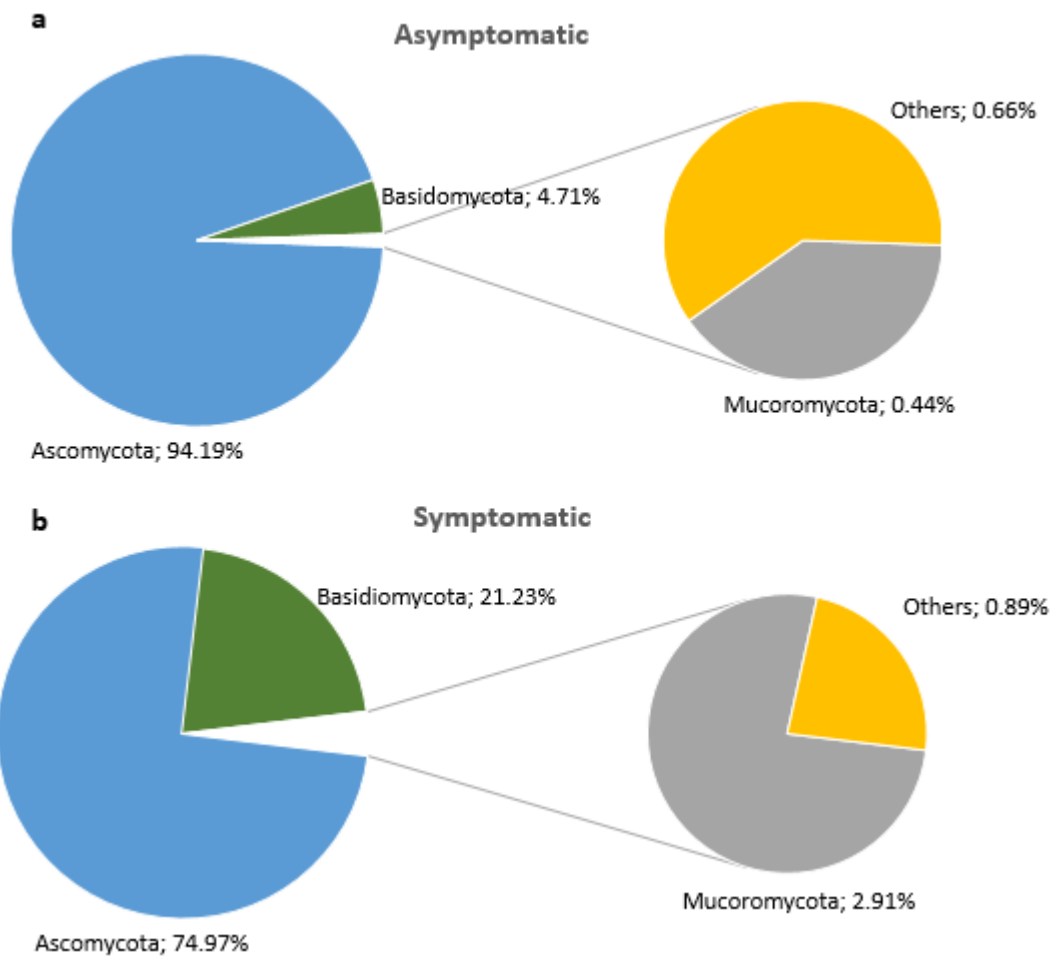
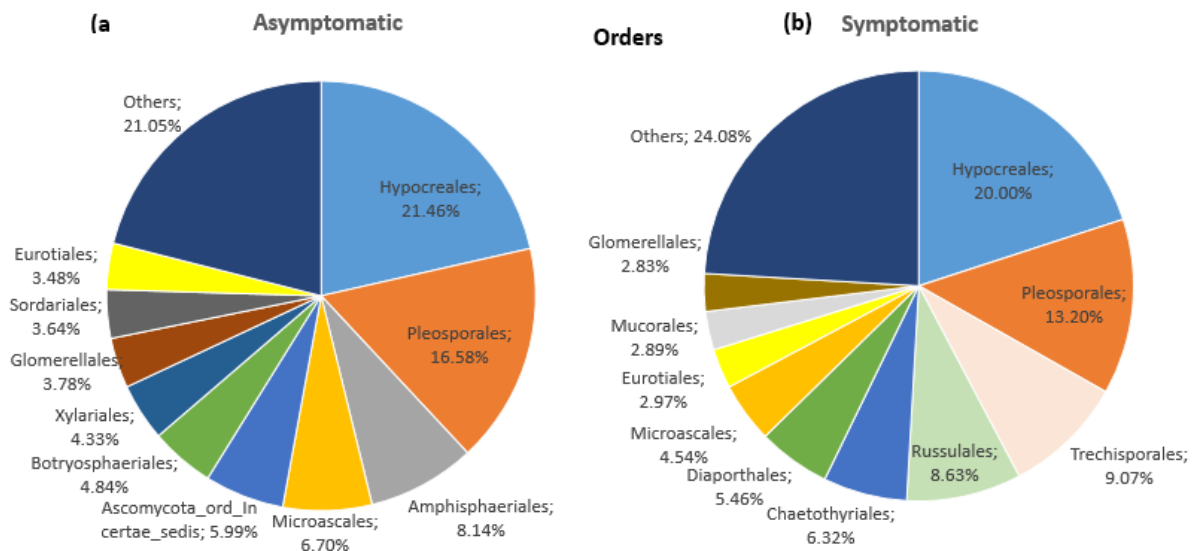
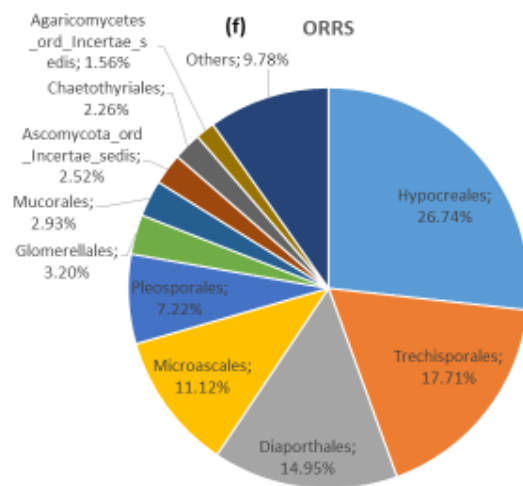
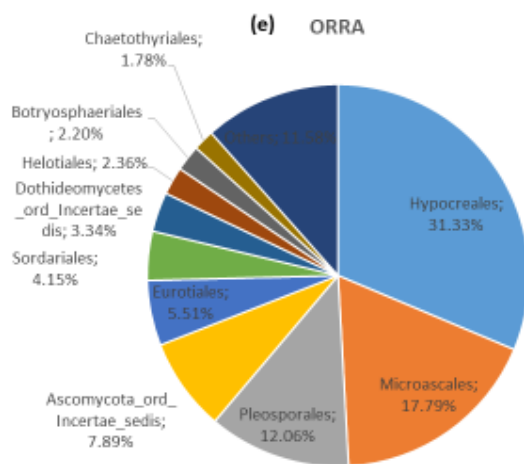
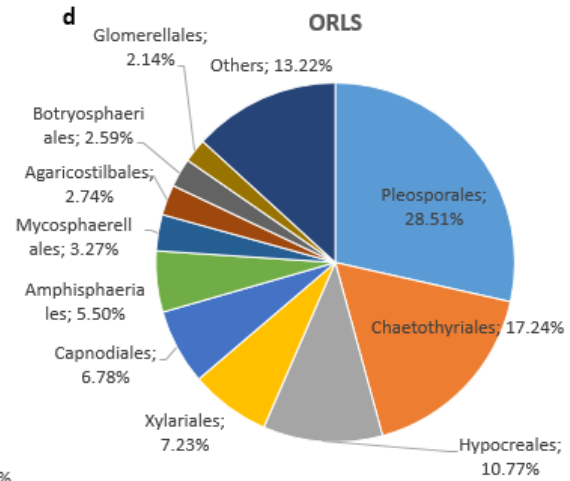
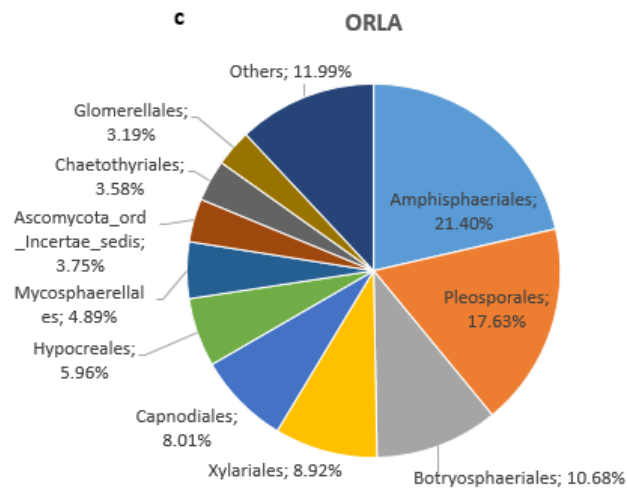


Fig. S2: Relative abundance of the dominant phyla based on sample type.





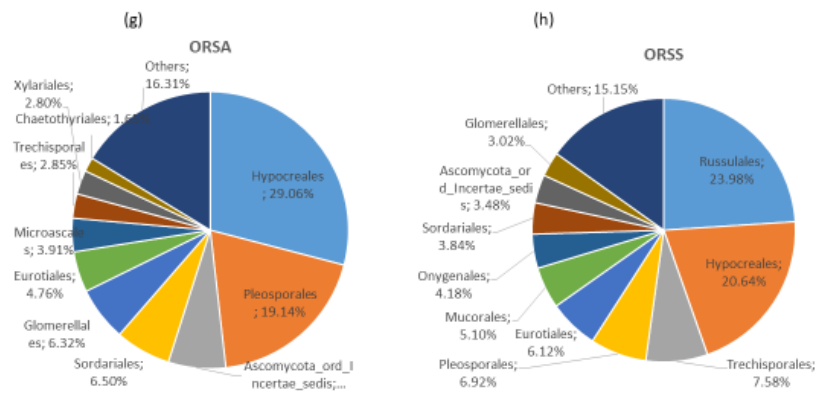


Fig. S3: Relative abundance of fungal orders from annotated ASVs based on sample type (a &b) and group (c-h).

Table S1A-H: Relative abundance of the top 10 fungal genera from annotated ASVs in the sample types and groups.

A: Asymptomatic

Genus	Rel. abund. (%)
<i>Neopestalotiopsis</i>	8.01
<i>Fusarium</i>	7.06
<i>Thielaviopsis</i>	6.39
<i>Trichoderma</i>	6.01
<i>Ascomycota_gen_Incertae_sedis</i>	5.99
<i>Capnodiales_gen_Incertae_sedis</i>	2.91
<i>Neorousoella</i>	2.87
<i>Phyllosticta</i>	2.84
<i>Hypocreales_gen_Incertae_sedis</i>	2.58
<i>Acrocalymma</i>	8.01
Others	47.33

B: Symptomatic

Genus	Rel. abund. (%)
<i>Peniophora</i>	8.61
<i>Trechisporales_gen_Incertae_sedis</i>	8.54
<i>Fusarium</i>	7.60
<i>Sporormiaceae_gen_Incertae_sedis</i>	5.50
<i>Chiangraiomyces</i>	5.40

<i>Thielaviopsis</i>	4.12
Pleosporales_gen_Incertae_sedis	3.27
<i>Ceramothyrium</i>	3.15
<i>Gongronella</i>	2.69
<i>Ascomycota_gen_Incertae_sedis</i>	2.43
Others	48.69

C: ORLA

Genus	Rel. abund. (%)
<i>Neopestalotiopsis</i>	21.04
<i>Phyllosticta</i>	7.60
Capnodiales_gen_Incertae_sedis	7.28
<i>Acrocalymma</i>	4.95
<i>Ascomycota_gen_Incertae_sedis</i>	3.75
<i>Pyrenochaetopsis</i>	3.47
<i>Pseudopestalotiopsis</i>	3.21
<i>Cylindroaseptospora</i>	2.70
<i>Colletotrichum</i>	2.57
<i>Lasiodiplodia</i>	2.53
Others	40.90

D: ORLS

Genus	Rel. abund. (%)
Sporormiaceae_gen_Incertae_sedis	18.96
<i>Ceramothyrium</i>	10.93
Capnodiales_gen_Incertae_sedis	5.78
<i>Neopestalotiopsis</i>	5.39
<i>Trichomerium</i>	3.42
<i>Oxydothis</i>	3.38
Hypocreales_gen_Incertae_sedis	2.89
<i>Ruinenia</i>	2.74
Pleosporales_gen_Incertae_sedis	2.69
<i>Acremonium</i>	2.38
Others	41.44

E: ORRA

Genus	Rel. abund. (%)
<i>Thielaviopsis</i>	17.73
<i>Trichoderma</i>	14.93

<i>Fusarium</i>	14.09
Ascomycota_gen_Incertae_sedis	7.89
<i>Talaromyces</i>	5.28
Delitschiaceae_gen_Incertae_sedis	4.40
Dothideomycetes_gen_Incertae_sedis	3.34
Pleosporales_gen_Incertae_sedis	2.71
Sordariales_gen_Incertae_sedis	2.52
<i>Acrocalymma</i>	2.15
Others	24.96

F: ORRS

Genus	Rel. abund. (%)
Trechisporales_gen_Incertae_sedis	16.90
<i>Chiangraiomycetes</i>	14.87
<i>Fusarium</i>	14.82
<i>Thielaviopsis</i>	10.61
Pleosporales_gen_Incertae_sedis	5.33
Nectriaceae_gen_Incertae_sedis	3.10
<i>Gongronella</i>	2.91
<i>Gibellulopsis</i>	2.70
Ascomycota_gen_Incertae_sedis	2.52
<i>Leptobacillum</i>	2.49
Others	16.40

G: ORSA

Genus	Rel. abund. (%)
Neorousoella	5.97
<i>Fusarium</i>	4.06
Ascomycota_gen_Incertae_sedis	3.74
Hypocreales_gen_Incertae_sedis	3.66
Trichoderma	3.15
Chaetomium	2.62
<i>Gibellulopsis</i>	2.55
<i>Thielaviopsis</i>	2.36
Pleosporales_gen_Incertae_sedis	2.20
Nectriaceae_gen_Incertae_sedis	1.79
Others	67.90

H: ORSS

Genus	Rel. abund. (%)
-------	-----------------

Peniophora	23.98
Trechisporales_gen_Incertae_sedis	6.91
Fusarium	6.10
Gongronella	4.62
Ascomycota_gen_Incertae_sedis	3.48
Spiromastigaceae_gen_Incertae_sedis	3.48
Trichoderma	3.17
Talaromyces	2.57
Neorousoella	2.29
Aspergillus	2.08
Others	41.32

Sample types: Asymptomatic, Symptomatic; **Groups:** **ORLA**- Okomu/Ore asymptomatic leaf samples, **ORLS**- Okomu/Ore symptomatic leaf samples, **ORRA**- Okomu/Ore asymptomatic Root samples, **ORRS**- Okomu/Ore symptomatic root samples, **ORSA**- Okomu/Ore asymptomatic soil samples and **ORSS**- Okomu/Ore symptomatic soil samples

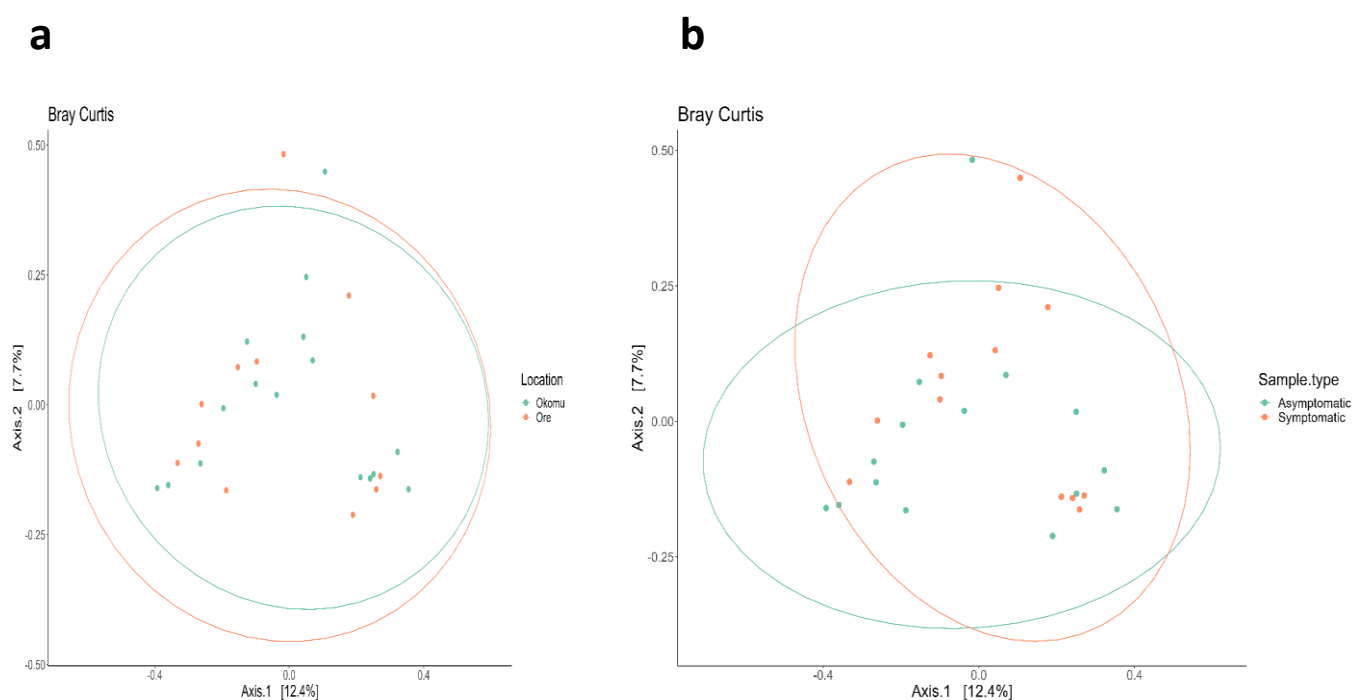


Fig. S4. Principal coordinate analysis (PCoA) based on the relative abundance of fungal ASVs. Sample categories are indicated with different colours according to (a) Location: Okomu (blue) and Ore (red) (b) Sample type: Asymptomatic (blue) and Symptomatic (red)