(A)

Figure showing line graphs for twelve fungal taxa across treatment groups. Each taxon is plotted in two adjacent panels: left panels with x-axis categories CF_PF, CAE_PF, CA_PF; right panels with x-axis categories CF_PF, CAE_PE, CA_PE, CA_PD.

- *Debaryomyces* sp. (left, y-axis 7–11; right, y-axis 4–10)
- *Rhodotorula mucilaginosa* (left, y-axis 4–8; right, y-axis 4–8)
- *Aureobasidium pullulans* (left, y-axis 4–6; right, y-axis 4–6)
- *Ophiosphaerella* sp. (left, y-axis 3–5; right, y-axis 3–5)
- *Mycosphaerellaceae* (left, y-axis 4–6; right, y-axis 4–6)
- *Aspergillus sydowii* (left, y-axis 4–6; right, y-axis 4–6)
- *Sistotremastrum suecicum* (left, y-axis 4–6; right, y-axis 4–6)
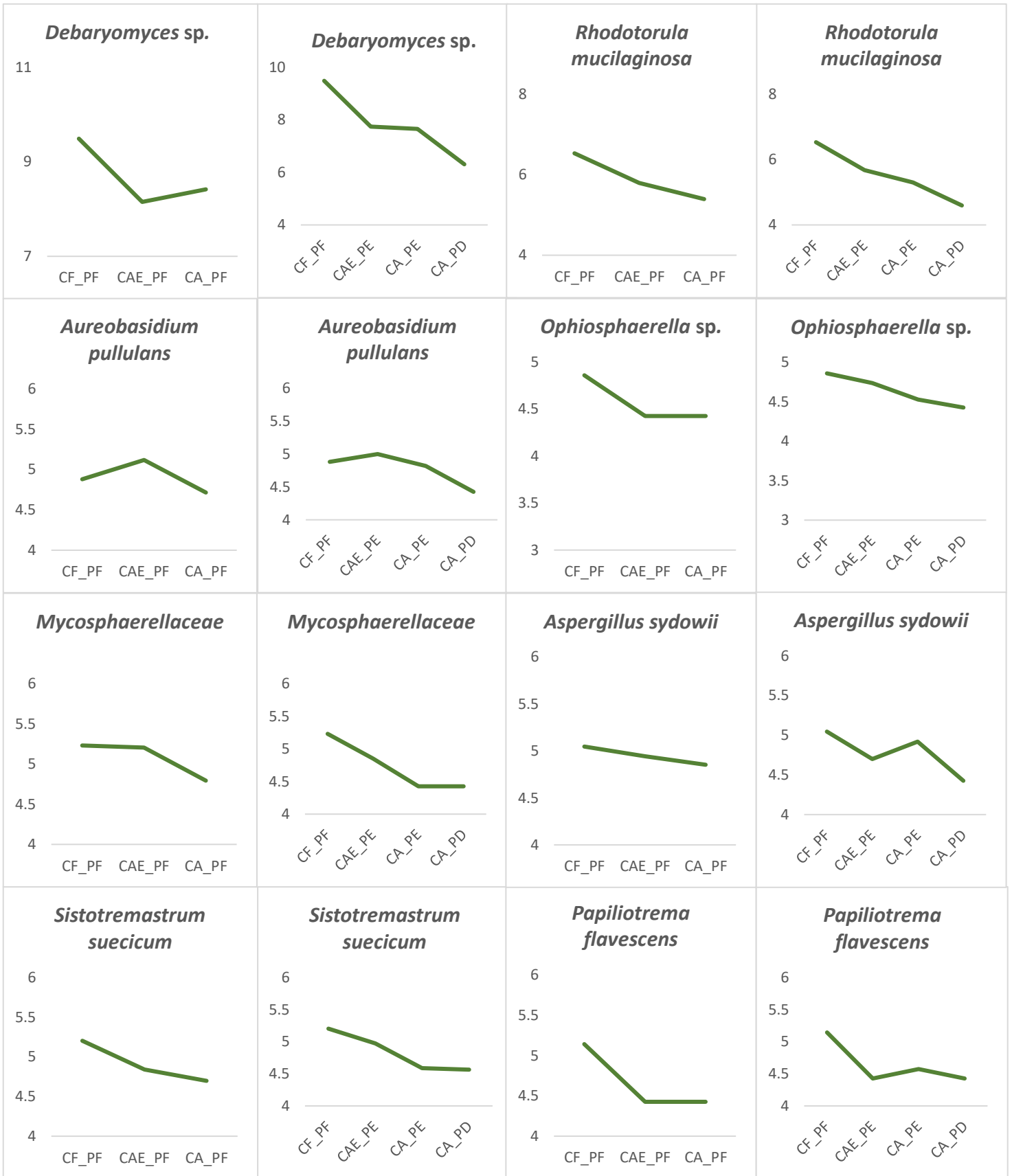- *Papiliotrema flavescens* (left, y-axis 4–6; right, y-axis 4–6)

(B)

Figure S4: Significantly differentially abundant taxa enriched in dental caries and in health. (A) Compares CF-PF (healthy teeth in a healthy mouth) samples with samples collected from a healthy tooth in a diseased mouth (CAE-PF and CA-PF) for taxa correlated with tooth health (green lines). (B) Compares Compares CF-PF (healthy teeth in a healthy mouth) samples with samples collected from diseased teeth in a diseased mouth (CAE-PE, CA-PE, and CA-PD) for taxa correlated with dental caries (red lines).

(A)

Stereum complicatum

Daedaleopsis confragosa

(B)

Hypocreales

Cystobasidium slooffiae

Penicillium citrinum

Hortaea werneckii

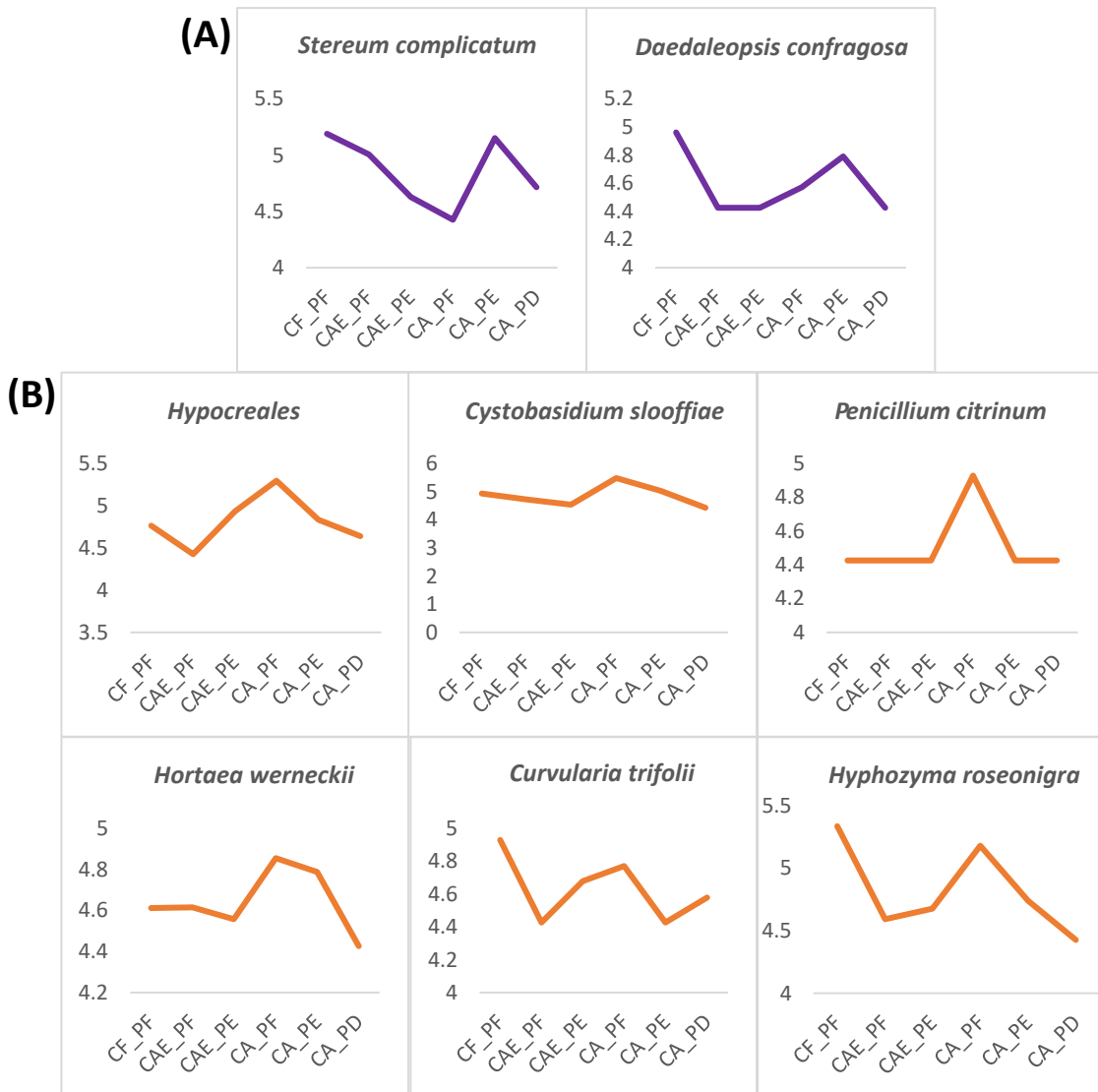*Curvularia trifolii*

Hyphozyma roseonigra

Figure S5: Significantly differentially abundant taxa enriched in dental caries and in health. (A) Two statistically significant taxa enriched in CA-PE samples. (B) The six statistically significant taxa enriched in CA-PF samples. All graphs were generated from a variance stabilizing transformation of counts within DESeq2.
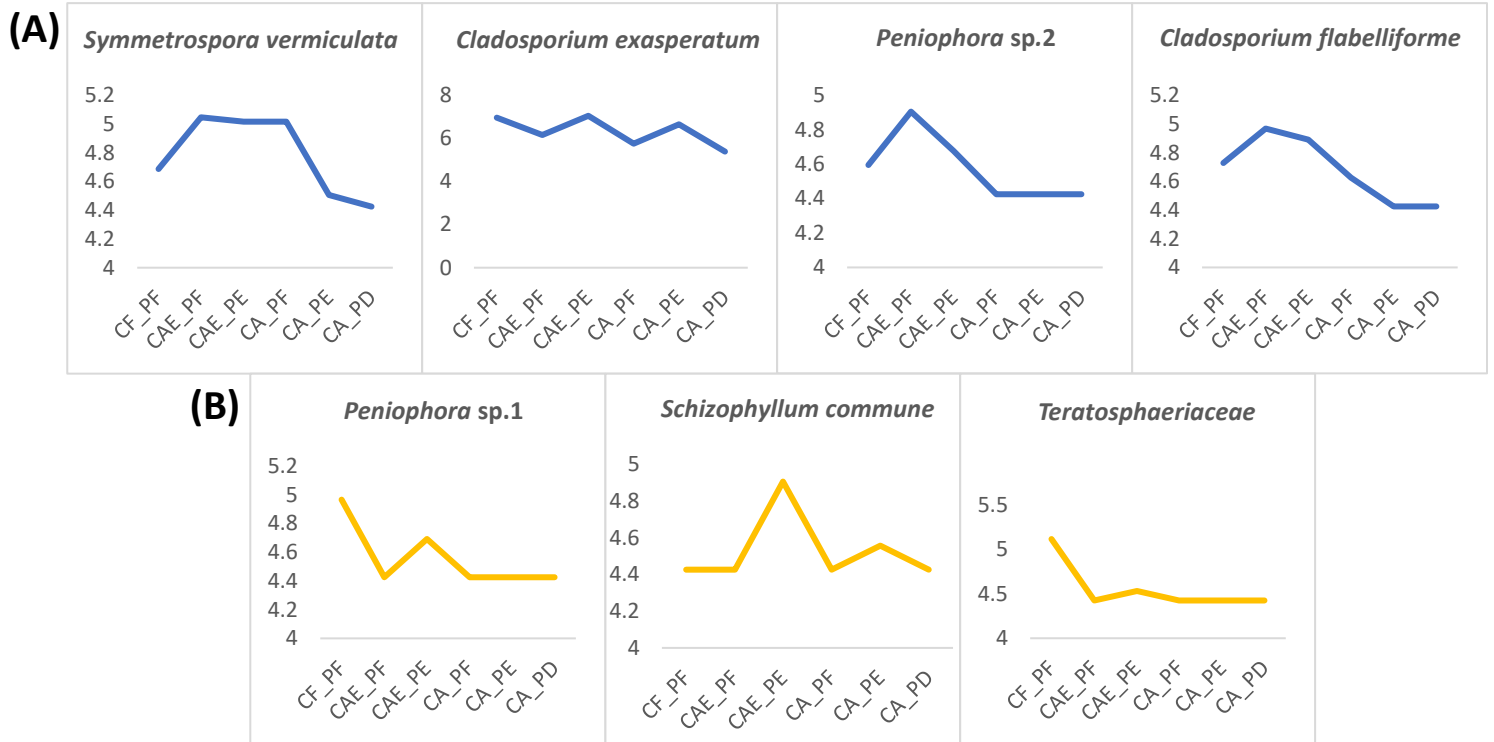
(A)

Symmetrospora vermiculata

Cladosporium exasperatum

Peniophora sp.2

Cladosporium flabelliforme

(B)

Peniophora sp.1

Schizophyllum commune

Teratosphaeriaceae

Figure S6: Significantly differentially abundant taxa enriched in dental caries and in health. (A) Four statistically significant taxa enriched in CAE-PF samples. (B) The three statistically significant taxa enriched in CAE-PE samples. All graphs were generated from a variance stabilizing transformation of counts within DESeq2.