

## Supplementary Materials

Three additive models were run initially. The first examined health status categorized as healthy, remission and AOD symptomatic. Remission trees were then included first with the symptomatic group and secondly with the healthy group and further analyses run.

**Table S1.** ANOVA results of additive mixed effect models of abundance scores for AOD-associated bacteria. Random effect was the sample number, fixed effects were drying method (silica gel or plant press), tissue (leaf or bud), bacterial species, age category (semi-mature, mature, over-mature), site, and health status (categorised three different ways). No significant differences were found between healthy, AOD symptomatic and remission trees whether analysed as three groups or with remission trees included with healthy or with symptomatic groups. Site shows a significant F value of over 3 in the one-read scoring but not the ten-read scoring.

		Categories: AOD Symptomatic, Remission, Asymptomatic		Categories: AOD Symptomatic + Remission; Asymptomatic		Categories: AOD Symptomatic; Asymptomatic + Remission	
		F	<i>p</i>	F	<i>p</i>	F	<i>p</i>
A) One-read Scoring	Drying Method	11.42	<b>&lt;0.0001</b>	11.41	<b>&lt;0.0001</b>	11.44	<b>&lt;0.0001</b>
	Tissue	24.42	<b>&lt;0.0001</b>	24.38	<b>&lt;0.0001</b>	24.46	<b>&lt;0.0001</b>
	Age	16.97	<b>&lt;0.0001</b>	16.96	<b>&lt;0.0001</b>	17.00	<b>&lt;0.0001</b>
	Bacterial Species	21.15	<b>&lt;0.0001</b>	21.2	<b>&lt;0.0001</b>	21.19	<b>&lt;0.0001</b>
	Site	3.25	<b>0.022</b>	3.25	0.022	3.25	0.022
	Health status	0.34	0.712	0.01	0.937	0.6	0.439
B) Ten-read Scoring	Drying Method	2.864	0.062	2.89	0.061	2.891	0.06
	Tissue	13.774	<b>&lt;0.0001</b>	13.897	<b>&lt;0.0001</b>	13.905	<b>&lt;0.0001</b>
	Age	0.298	0.743	0.3	0.741	0.301	0.741
	Bacterial Species	2.952	0.059	2.979	0.057	2.98	0.057
	Site	1.765	0.16	1.781	0.157	1.78	0.157
	Health status	0.033	0.967	0.001	0.977	0.06	0.807

Note: *p*-values less than 0.05 are shown in bold.

**Table S2.** R packages not listed in main text.

Package Name	Version	Reference
ggthemes	4.2.0	[70]
gridExtra	2.3	[71]
cowplot	1.1.1	[72]
purrr	0.3.4	[73]
tibble	3.1.0	[74]
plyr	1.8.5	[75]
forcats	0.5.1	[76]
stringr	1.4.0	[77]
tidyr	1.1.3	[78]
tidyverse	1.3.1	[79]
ggplot2	3.3.5	[80]
dplyr	1.0.5	[81]
readr	1.4.0	[82]
scales	1.1.0	[83]
Rmisc	1.5	[84]
lattice	0.20.38	[85]
ggpubr	0.4.0	[86]
permute	0.9.5	[87]
signs	0.1.2	[88]