

1 **Table S11.** Statistics of the “Physical and microbial data” model (i.e. $\log(R_H)$ as a function of
 2 Temperature, moisture, TMB, $\log(\text{AMB})$, $\log(\text{Fungi:Bacteria})$, and $\log(\text{Gram-positive:Gram-}$
 3 $\text{negative})$. $P=0.001$, $\text{BIC}=94.1$. Significance codes: $0.01 < P < 0.05$ ‘*’, $0.05 < P < 0.1$ ‘†’.

4

	Estimate	Std. Error	t-value	P
(Intercept)	- 0.45742	1.18401	- 0.386	0.701
Temp	0.07490	0.03052	2.454	0.018*
Moisture	- 0.42590	1.48517	- 0.287	0.776
TMB	- 0.76735	0.90625	- 0.847	0.402
$\log(\text{AMB})$	0.14306	0.07506	1.906	0.063 †
$\log(\text{F:B})$	-0.04478	0.11833	-0.378	0.707
$\log(\text{G+:G-})$	-0.25221	0.31209	-0.808	0.423