

Dataset	Variable	Model	r	$p - value$
HMP	N_0	BS	-0.386	1.15×10^{-159}
		METE	-0.191	2.01×10^{-38}
		Zipf	0.228	2.01×10^{-38}
	S_0	BS	0.276	2.82×10^{-79}
		METE	0.314	1.82×10^{-12}
		Zipf	0.144	2.01×10^{-38}
	N_0/S_0	BS	-0.626	0.0
		METE	-0.453	1.87×10^{-226}
		Zipf	0.125	1.03×10^{-09}
EMP Closed	N_0	BS	-0.354	0.0
		METE	-0.0824	2.02×10^{-23}
		Zipf	0.262	2.57×10^{-40}
	S_0	BS	0.264	4.89×10^{-231}
		METE	0.287	1.32×10^{-274}
		Zipf	0.0181	0.367
	N_0/S_0	BS	-0.695	0.0
		METE	-0.377	0.0
		Zipf	0.334	1.18×10^{-65}
MG – RAST 97%	N_0	BS	-0.0782	0.480
		METE	0.226	0.0389
		Zipf	0.298	0.00595
	S_0	BS	0.169	0.125
		METE	0.353	0.00101
		Zipf	0.163	0.139
	N_0/S_0	BS	-0.642	4.69×10^{-11}
		METE	-0.244	0.0255
		Zipf	0.433	3.91×10^{-05}