

Dataset	Variable	Model	$r$	$p - value$
HMP	$N_0$	BS	-0.386	$1.15 \times 10^{-159}$
		METE	-0.191	$2.01 \times 10^{-38}$
		Zipf	0.228	$2.01 \times 10^{-38}$
	$S_0$	BS	0.276	$2.82 \times 10^{-79}$
		METE	0.314	$1.82 \times 10^{-12}$
		Zipf	0.144	$2.01 \times 10^{-38}$
	$N_0/S_0$	BS	-0.626	0.0
		METE	-0.453	$1.87 \times 10^{-226}$
		Zipf	0.125	$1.03 \times 10^{-09}$
EMP Closed	$N_0$	BS	-0.354	0.0
		METE	-0.0824	$2.02 \times 10^{-23}$
		Zipf	0.262	$2.57 \times 10^{-40}$
	$S_0$	BS	0.264	$4.89 \times 10^{-231}$
		METE	0.287	$1.32 \times 10^{-274}$
		Zipf	0.0181	0.367
	$N_0/S_0$	BS	-0.695	0.0
		METE	-0.377	0.0
		Zipf	0.334	$1.18 \times 10^{-65}$
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	$4.69 \times 10^{-11}$
		METE	-0.244	0.0255
		Zipf	0.433	$3.91 \times 10^{-05}$