

**TABLE S6** | Null hypothesis mutation drift equilibrium test for under mutation models: infinite alleles model (IAM), two-phase model (TPM) and stepwise mutation model (SMM) using the Sign test and Wilcoxon sing-rank tests (WSt), with one tail for H excess ( $H_e > H_{eq}$ ). Bold values are significant at ( $P < 0.03$ ).

Locality	Evolution models					
	IAM		TPM		SMM	
	Sign test	WS	Sign test	WS	Sign test	WS
Santa Catarina	0.4364	0.0781	0.5356	0.3125	0.5928	0.6875
São Paulo	0.6165	0.6562	0.0760	0.9218	<b>0.0672</b>	0.9765
Rio de Janeiro	0.3535	0.0625	0.3651	0.0937	0.6828	0.1562
Pernambuco	0.3990	0.6875	0.3750	0.6875	<b>0.3470</b>	0.9218
Pará	<b>0.2621</b>	0.9687	<b>0.2272</b>	0.9687	<b>0.0430</b>	0.9000



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