

GENETICS

Supporting Information

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Frequency Spectrum Neutrality Tests: One for All and All for One

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TABLE S1**Variance of neutrality tests ($\theta = 10$, $n = 30$, 10^5 replicates)**

Test	Publication	Original Derivation	Current Framework	Simulation
d	TAJIMA (1989)	8.21	8.21	8.24
d_2	FU and LI (1993b)	25.83	25.83	25.89
d_2^*	FU and LI (1993b)	34.47	34.47	34.58
h	FAY and WU (2000)	na	39.96	39.55
f^*	FU and LI (1993b)	61.44	63.84	63.98
f	FU and LI (1993b)	49.59	51.85	51.83
y^*	ACHAZ (2008)	7.72	5.81	5.80
y	ACHAZ (2008)	7.40	6.18	6.17

Please note that for F^* , the typo FU and LI (1993b) equation was corrected, as it is in SIMONSEN *et al.* (1995).