

S2 Table. Laplace bias estimates $Pr(\text{bias in any direction})$ in large families ($N \geq 5$) across methods and taxonomies.

	AUTOTYP		GLOTTOLOG	
	Binom./MCMC	ML	Binom./MCMC	ML
Africa	0.93 (0.75, 1)	0.93 (0.75, 1)	0.91 (0.69, 1)	0.91 (0.69, 1)
Eurasia	0.75 (0.48, 0.94)	0.75 (0.48, 0.94)	0.77 (0.52, 0.95)	0.77 (0.52, 0.95)
Pacific	0.5 (0.27, 0.73)	0.38 (0.16, 0.62)	0.64 (0.35, 0.88)	0.64 (0.35, 0.88)
South America	0.5 (0.15, 0.85)	0.5 (0.15, 0.85)	0.5 (0.15, 0.85)	0.5 (0.15, 0.85)
Rest of the Americas	0.88 (0.59, 1)	0.88 (0.59, 1)	0.88 (0.59, 1)	0.88 (0.59, 1)

95% credibility intervals in brackets.