SUPPLEMENTARY DATA

Frequencies of *Plasmodium vivax* merozoite surface protein *3-αlpha* gene types of *P. vivax* isolates of different genetic population studies around the world

	Types[a]					
	A	B	C	D	Geographical region	Reference
Frequencies (%)	58.2	32.8	9	0	Asia and Americas	Rayner et al. (2002)
	67.8	**15.2**	**17**	**0**	**Brazil**	**This study**
	96.4	**1.8**	**3.6**	**0**	**Colombia**	**Cristiano et al. (2008)**
	85.1	**9.6**	**5.3**	**0**	**French Guiana**	**Veron et al. (2009)**
	51.7	17	27.6	3.4	India	Prajapati et al. (2010)
	70/24[b]	12/6[b]	18/70[b]	0	Iran	Zakeri et al. (2006)
	77.3	16.7	4	0	Iran	Zakeri et al. (2010)
	82	6	8	2	Pakistan	Khatoon et al. (2010)
	72.7	16	6.4	0	Pakistan	Zakeri et al. (2010)
	86.9	**10.1**	**3**	**0**	**Peru**	**Sutton et al. (2009)**
	70.5	6.7	22.8	0	Papua New Guine	Bruce et al. (2000)
	74.8	6.5	18.7	0	Thailand	Cui et al. (2003)
	59.3	**21.9**	**18.8**	**0**	**Venezuela**	**Ord et al. (2005)**
Mean	76	12	8	0.4	-	-

a: mean of frequencies types; *b*: data from Southern and Northern Iran, respectively. In bold the data from South America *P. vivax* isolates.

SUPPLEMENTARY DATA

Comparison of genetic population parameters of Brazilian *Plasmodium vivax* isolates using different molecular markers

	$H_E \pm$ SD	MI (%)	F_{ST}	Reference
PvMSP-*3α* (n = 52)[a]	0.24 ± 0.19	2	0.003-0.23	This study
TR (n = 44)	0.56 ± 0.18	27	0.002-0.24	Rezende et al. (2009)
MS (n = 50)	0.71 ± 0.18	57	0.07-0.24	Rezende et al. (2010)

a: number of *P. vivax* infected patients included in each study, being 33 isolates used in all studies; F_{ST}: fixation index between populations; H_E: expected heterozygosity; MI: multiple-clone infection; MS: microsatellites; PvMSP-*3α*: *P. vivax* merozoite surface protein *3-alpha*; SD: standard deviation; TR: tanden repeats.