

**S5 Table: Cytoadhesion of *P. falciparum* line ItG by ABO genotype**

ItG static adhesion to CD36				
N	Genotype	Mean pRBCs bound/mm <sup>2</sup>	95% CI	p value
51	OO	1385.64	1179.40 – 1591.89	-
32	AO	1345.61	1087.33 – 1603.89	0.814
6	AA	817.42	312.59 – 1322.25	0.073
17	BO	1146.66	813.49 – 1479.84	0.246
3	BB	1030.24	308.69 – 1751.79	0.386
3	AB	779.62	157.27 – 1401.96	0.123
61	Non-O	1191.53	1014.74 – 1368.32	0.163
ItG static adhesion to ICAM-1				
N	Genotype	Mean pRBCs bound/mm <sup>2</sup>	95% CI	p value
51	OO	1640.72	1389.18– 1892.27	-
32	AO	1602.70	1286.15 – 1919.25	0.854
6	AA	1567.11	772.38 – 2361.83	0.864
17	BO	1356.65	956.95 – 1756.34	0.254
3	BB	1296.59	398.11 – 2195.08	0.493
3	AB	1030.40	237.05 – 1823.75	0.208
61	Non-O	1479.30	1261.03 – 1697.57	0.340

Differences in ItG *P. falciparum* line binding to CD36 and ICAM-1 by ABO genotype were tested using multivariate linear regression analysis with adjustment for confounding by HbAS and  $\alpha^+$ thalassemia genotypes (including an interaction between HbAS and  $\alpha^+$ thalassemia). 112 RBC donor samples were tested once in duplicate over seven experimental days (day 1 n = 13, day 2 n = 8, day 3 n = 12, day 4 n = 1, day 5 n = 55, day 6 n = 15 and day 7 n = 8), therefore, experimental day was included as a co-variate to account for day-to-day variation.