

## **IL-10 polymorphisms are associated with IL-10 production and clinical malaria in young children**

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Supplementary Table 1 Associations of IL-10 genotypes in children with IL-10 production capacity (pg/ml) by PBMCs and CBMCs

	Genotypes	N	GM	95% CI		p	P linear
				Lower	Upper		
<b>SNP IL-10 A-592C</b>							
IL-10 in CBMC with uRBC	CC	64	4.7	2.7	8.2	0.26	0.16
	CA	82	8.7	5.2	14.3		
	AA	20	8.3	2.8	24.8		
IL-10 in CBMC with iRBC	CC	64	5.3	3.0	9.3	0.12	<b>0.039</b>
	CA	82	9.4	5.7	15.3		
	AA	20	15.6	5.3	46.0		
<b>SNP IL-10 A-1082G</b>							
IL-10 in CBMC with uRBC	AA	71	9.9	5.7	17.0	0.25	0.098
	GA	80	5.8	3.5	9.7		
	GG	13	4.2	1.4	13.0		
IL-10 in CBMC with iRBC	AA	71	13.2	7.7	22.4	0.076	<b>0.025</b>
	GA	80	6.4	3.9	10.7		
	GG	13	4.2	1.5	11.9		

PBMC: peripheral blood mononuclear cells

CBMC: cord blood mononuclear cells

uRBC: uninfected erythrocytes

iRBC: infected erythrocytes

GM: geometric means

95% CI: 95% confidence intervals

Supplementary Table 2 Associations of IL-10 genotypes in mothers with IL-10 production capacity (pg/ml) by PBMCs and CBMCs

	Genotypes	N	GM	95% CI		p	P linear
				Lower	Upper		
<b>IL-10 A-592C</b>							
IL-10 in maternal PBMC with uRBC	CC	57	12.4	6.7	23.0	0.52	0.47
	CA	88	11.6	7.3	18.4		
	AA	27	20.5	7.2	58.2		
IL-10 in maternal PBMC with iRBC	CC	57	18.8	10.4	34.1	0.48	0.45
	CA	88	17.3	10.9	27.6		
	AA	27	31.5	12.1	81.8		
IL-10 in CBMC with uRBC	CC	55	4.2	2.4	7.4	0.26	0.11
	CA	83	6.7	4.1	11.0		
	AA	23	9.7	3.5	26.7		
IL-10 in CBMC with iRBC	CC	55	5.5	3.1	9.7	0.49	0.25
	CA	83	8.0	4.9	12.9		
	AA	23	9.7	3.4	27.5		
<b>IL-10 A-1082G</b>							
IL-10 in maternal PBMC with uRBC	AA	83	14.6	8.5	25.2	0.092	0.15
	GA	75	15.0	9.3	24.0		
	GG	16	4.0	1.4	11.7		
IL-10 in maternal PBMC with iRBC	AA	83	22.5	13.3	38.2	0.38	0.26
	GA	75	20.5	12.8	32.9		
	GG	16	9.7	3.4	27.0		
IL-10 in CBMC with uRBC	AA	74	7.8	4.5	13.6	0.31	0.13
	GA	73	5.4	3.3	8.8		
	GG	16	3.4	1.4	8.1		
IL-10 in CBMC with iRBC	AA	74	10.7	6.1	18.7	0.18	0.076
	GA	73	5.6	3.5	9.1		
	GG	16	5.0	1.8	13.6		

PBMC: peripheral blood mononuclear cells

CBMC: cord blood mononuclear cells

uRBC: uninfected erythrocytes

iRBC: infected erythrocytes

GM: geometric means

95% CI: 95% confidence intervals

Supplementary Table 3 Associations of IL-10 haplotype (GCA) in mothers and children with IL-10 production capacity (pg/ml) by PBMCs and CBMCs

	Copies	N	GM	95% CI		p	P linear
				Lower	Upper		
GCA in mothers							
IL-10 in maternal PBMC with uRBC	0	92	13.4	7.8	23.1	0.76	0.47
	1	69	18.2	4.0	81.7		
	2	15	12.7	9.1	17.9		
IL-10 in maternal PBMC with iRBC	0	92	21.6	12.6	37.0	0.87	0.66
	1	69	20.3	4.7	87.8		
	2	15	19.5	14.0	27.1		
IL-10 in CBMC with uRBC	0	88	8.4	4.6	15.4	0.18	0.98
	1	62	2.9	0.9	9.0		
	2	15	6.0	4.3	8.4		
IL-10 in CBMC with iRBC	0	88	12.6	6.8	23.5	0.039	0.51
	1	62	3.6	1.2	10.6		
	2	15	7.3	5.2	10.3		
GCA in children							
IL-10 in CBMC with uRBC	0	79	7.3	4.4	12.1	0.62	0.97
	1	80	5.8	3.6	9.3		
	2	13	10.4	2.0	55.5		
IL-10 in CBMC with iRBC	0	79	8.3	5.1	13.6	0.89	0.97
	1	80	7.5	4.6	12.3		
	2	13	10.2	1.9	53.4		

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uRBC: uninfected erythrocytes

iRBC: infected erythrocytes

GM: geometric means

95% CI: 95% confidence intervals