

Additional file 3: Table S3. The distribution of allele frequencies among controls and cases within the two major acute leukemia subtypes by skin colour and by *MLL* gene status, Brazil, 2003-2013

	Controls		Overall cases							
	White	Non-White	White				Non-White			
			<i>MLL</i> -germline (n=75)		<i>MLL</i> -r (n=76)		<i>MLL</i> -germline (n=43)		<i>MLL</i> -r (n=45)	
n	n	n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)	
<i>IKZF1</i>										
rs11978267										
AA	160	111	36	1.00	46	1.00	19	1.00	26	1.00
AG	110	72	27	1.09 (0.63-1.90)	19	0.60 (0.33-1.08)	23	1.76 (0.91-3.39)	14	0.78 (0.39-1.57)
GG	23	14	8	1.55 (0.64-3.73)	5	0.76 (0.27-2.10)	1	0.37 (0.05-2.87)	1	0.27 (0.03-2.07)
AG+GG	133	86	35	1.17 (0.70-1.97)	24	0.63 (0.36-1.08)	24	1.52 (0.80-2.89)	15	0.69 (0.35-1.36)
<i>ARID5B</i>										
rs10821936										
TT	117	83	20	1.00	18	1.00	12	1.00	10	1.00
TC	129	76	30	1.36 (0.73-2.53)	41	2.06 (1.12-3.79)	16	1.21 (0.55-2.66)	26	2.36 (1.09-5.10)
CC	37	31	17	2.69 (1.28-5.66)	12	2.11 (0.93-4.78)	14	3.69 (1.57-8.68)	6	1.90 (0.65-5.57)
TC+CC	166	107	47	1.66 (0.93-2.94)	53	2.08 (1.16-3.72)	30	1.76 (0.87-3.58)	32	2.26 (1.07-4.77)
rs10994982										
GG	65	31	7	1.00	9	1.00	4	1.00	6	1.00
GA	125	89	35	2.60 (1.09-6.18)	35	2.02 (0.92-4.46)	16	2.08 (0.67-6.48)	16	1.39 (0.52-3.71)
AA	96	67	25	2.42 (0.99-5.92)	27	2.03 (0.90-4.60)	21	3.55 (1.17-10.84)	22	2.48 (0.95-6.46)
GA+AA	221	156	60	2.52 (1.10-5.78)	62	2.02 (0.96-4.30)	37	2.72 (0.94-7.92)	38	1.86 (0.75-4.60)
<i>CEBPE</i>										
rs2239633										
AA	39	23	9	1.00	11	1.00	11	1.00	4	1.00
AG	124	77	33	1.15 (0.51-2.62)	37	1.06 (0.49-2.27)	11	0.31 (0.13-1.78)	20	1.57 (0.51-4.88)
GG	131	89	27	0.89 (0.39-2.06)	24	0.65 (0.29-1.44)	21	0.57 (0.25-1.28)	20	1.49 (0.48-4.61)
AG+GG	255	166	60	1.02 (0.47-2.22)	61	0.85 (0.41-1.75)	32	0.44 (0.21-0.95)	40	1.53 (0.52-4.51)

ALL, acute lymphoblastic leukemia; AML, acute myeloid leukemia; n, number of individuals; OR, odds ratio; CI, confidence intervals; ^aThe age strata in AML is not relevant as it is for ALL, therefore, the AML cases have not been sub-divided by age

Table 1. continued

Infant ALL (≤ 12 months)							
White				Non-White			
<i>MLL</i> -germline (n=19)		<i>MLL</i> -r (n=46)		<i>MLL</i> -germline (n=6)		<i>MLL</i> -r (n=21)	
n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)
5	1.00	26	1.00	3	1.00	11	1.00
7	2.04 (0.63-6.58)	11	0.62 (0.29-1.30)	3	1.54 (0.30-7.85)	6	0.84 (0.30-2.37)
4	5.57 (1.39-22.24)	3	0.80 (0.22-2.87)	0	-	1	0.72 (0.09-6.01)
11	2.65 (0.90-7.81)	14	0.65 (0.33-1.29)	3	1.29 (0.25-6.55)	7	0.82 (0.31-2.21)
4	1.00	12	1.00	3	1.00	4	1.00
9	2.04 (0.61-6.80)	29	2.19 (1.07-4.49)	3	1.09 (0.21-5.58)	14	3.82 (1.21-12.12)
4	3.16 (0.75-13.27)	3	0.79 (0.21-2.95)	0	-	3	2.01 (0.43-9.49)
13	2.29 (0.73-7.20)	32	1.88 (0.93-3.80)	3	0.78 (0.15-3.94)	17	3.30 (1.07-10.17)
2	1.00	5	1.00	1	1.00	4	1.00
10	2.60 (0.55-12.22)	24	2.50 (0.91-6.85)	3	1.04 (0.10-10.42)	8	0.70 (0.20-2.48)
9	3.05 (0.64-14.56)	15	2.03 (0.70-5.86)	3	1.39 (0.14-13.89)	9	1.04 (0.30-3.64)
19	2.79 (0.63-12.31)	39	2.29 (0.87-6.06)	6	1.19 (0.14-10.25)	17	0.84 (0.27-2.68)
3	1.00	8	1.00	2	1.00	1	1.00
4	0.42 (0.09-1.96)	26	1.02 (0.43-2.44)	1	0.15 (0.01-1.72)	11	3.29 (0.40-26.82)
9	0.89 (0.23-3.46)	8	0.30 (0.10-0.84)	3	0.39 (0.06-2.46)	8	2.07 (0.25-17.38)
13	0.66 (0.18-2.43)	34	0.65 (0.28-1.51)	4	0.28 (0.05-1.60)	19	2.63 (0.34-20.61)

Table 1. continued

ALL (13-24 months)							
White				Non-White			
<i>MLL</i> -germline (n=23)		<i>MLL</i> -r (n=11)		<i>MLL</i> -germline (n=18)		<i>MLL</i> -r (n=9)	
n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)
7	1.00	6	1.00	7	1.00	7	1.00
12	2.49 (0.95-6.53)	5	1.21 (0.36-4.07)	11	2.42 (0.90-6.54)	2	0.44 (0.09-2.18)
3	2.98 (0.72-12.35)	0	-	0	-	0	-
15	2.58 (1.02-6.51)	5	1.00 (0.30-3.36)	11	2.03 (0.75-5.45)	2	0.37 (0.07-1.82)
4	1.00	2	1.00	4	1.00	2	1.00
7	1.59 (0.45-5.56)	3	1.36 (0.22-8.29)	8	2.18 (0.63-7.55)	6	3.28 (0.64-16.73)
9	7.11 (2.07-24.45)	5	7.91 (1.47-42.46)	5	3.35 (0.84-13.28)	1	1.34 (0.12-15.29)
16	2.82 (0.92-8.64)	8	2.82 (0.59-13.52)	13	2.50 (0.79-8.02)	8	3.10 (0.64-15.00)
1	1.00	1	1.00	2	1.00	2	1.00
8	4.16 (0.51-33.98)	5	2.60 (0.30-22.72)	8	1.39 (0.28-6.92)	3	0.52 (0.08-3.27)
10	6.77 (0.85-54.18)	4	2.71 (0.30-24.78)	8	1.85 (0.37-9.23)	4	0.93 (0.16-5.33)
18	5.29 (0.69-40.42)	9	2.65 (0.33-21.28)	16	1.59 (0.35-7.27)	7	0.70 (0.14-3.51)
3	1.00	1	1.00	2	1.00	1	1.00
9	0.94 (0.24-3.66)	3	0.94 (0.10-9.33)	4	0.60 (0.10-3.47)	2	0.60 (0.05-6.89)
11	1.09 (0.29-4.11)	7	2.08 (0.25-17.46)	12	1.55 (0.32-7.42)	6	1.55 (0.18-13.53)
20	1.02 (0.29-3.59)	11	1.68 (0.21-13.40)	16	1.11 (0.24-5.14)	8	1.11 (0.13-9.27)

Table 1. continued

AML							
White				Non-White			
<i>MLL</i> -germline (n=33)		<i>MLL</i> -r (n=19)		<i>MLL</i> -germline (n=19)		<i>MLL</i> -r (n=15)	
n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)	n	OR (95% CI)
24	1.00	14	1.00	9	1.00	8	1.00
8	0.48 (0.21-1.12)	3	0.31 (0.09-1.11)	9	1.54 (0.58-4.07)	6	1.16 (0.39-3.47)
1	0.29 (0.04-2.25)	2	0.99 (0.21-4.66)	1	0.88 (0.10-7.48)	0	-
9	0.45 (0.20-1.00)	5	0.43 (0.15-1.22)	10	1.43 (0.56-3.68)	6	0.97 (0.32-2.89)
12	1.00	4	1.00	4	1.00	5	1.00
14	1.06 (0.47-2.38)	9	2.04 (0.61-6.80)	6	1.64 (0.45-6.03)	5	1.09 (0.30-3.92)
4	1.05 (0.32-3.47)	4	3.16 (0.75-13.27)	3	2.01 (0.43-9.49)	9	4.82 (1.50-15.50)
18	1.06 (0.49-2.28)	13	2.29 (0.73-7.20)	9	1.75 (0.52-5.87)	14	2.17 (0.75-6.27)
4	1.00	3	1.00	2	1.00	1	1.00
17	2.21 (0.71-6.84)	6	1.04 (0.25-4.29)	5	0.87 (0.16-4.72)	5	1.74 (0.20-15.49)
8	1.35 (0.39-4.68)	8	1.81 (0.46-7.06)	10	2.31 (0.48-11.20)	9	4.16 (0.51-34.33)
25	1.84 (0.62-5.47)	14	1.37 (0.38-4.92)	15	1.49 (0.32-6.85)	14	2.78 (0.35-21.94)
3	1.00	3	1.00	7	1.00	3	1.00
20	2.10 (0.59-7.43)	8	0.84 (0.21-3.32)	6	0.26 (0.08-0.84)	7	0.70 (0.17-2.91)
7	0.69 (0.17-2.81)	8	0.79 (0.20-3.14)	6	0.22 (0.07-0.72)	5	0.43 (0.10-1.94)
27	1.38 (0.40-4.75)	16	0.82 (0.23-2.93)	12	0.24 (0.08-0.66)	12	0.55 (0.15-2.11)