

**Table S1. Genotypic distribution of the investigated polymorphisms for leprosy patients in comparison to control group to markers associated with susceptibility to leprosy.**

Gene	Genotype	Case (%)	Control (%)	<i>p</i> -value	Model	OR (95%CI)
<i>miR300</i>	rs12894467	111	68			
	TT	44 (39.6)	30 (44.1)	0.76	TT vs TC + CC	1.10(0.49-2.45)
	CT	45 (40.5)	26 (38.2)			
	CC	22 (19.8)	12 (17.6)	0.82	TT + TC vs CC	1.10(0.49-2.45)
<i>miR423</i>	rs6505162	93	59			
	AA	27 (29.0)	15 (25.4)	0.71	AA vs AC + CC	1.15(0.40-1.86)
	AC	47 (50.5)	32 (54.2)			
	CC	19 (20.4)	12 (20.3)	0.87	AA + AC vs CC	1.07(0.45-2.53)
<i>mir604</i>	rs2368392	83	54			
	AA	42 (50.6)	24 (44.4)	0.48	AA vs AG + GG	0.77(0.36-1.61)
	AG	40 (48.2)	29 (53.7)			
	GG	1 (1.2)	1 (1.9)	0.69	AA + AG vs GG	0.57(0.03-1.67)
<i>pre-miR938</i>	rs2505901	109	68			
	TT	26 (23.9)	27 (39.7)	<b>&lt;0.01</b>	TT vs TC + CC	<b>0.40(0.20-0.81)</b>
	CT	53 (48.6)	30 (44.1)			
	CC	30 (27.5)	11 (16.2)	<b>0.03</b>	TT + CT vs CC	<b>0.41(0.18-0.95)</b>

<i>miR100</i>	rs1834306	93	58			
	AA	44 (47.3)	25 (43.1)	0.60	AA vs AG + GG	0.83(0.42-1.66)
	AG	36 (38.7)	26 (44.8)			
	GG	13 (14.0)	7 (12.1)	0.99	AA + AG vs GG	1.01(0.36-2.77)
<i>miR219A1</i>	rs213210	140	70			
	AA	91 (81.2)	58 (84.1)	0.60	AA vs AG + GG	1.25(0.54-2.86)
	AG	21 (18.8)	9 (13.0)			
	GG	0 (0.0)	2 (2.9)	0.14	AA + AG vs GG	0.00 (0.00)
<i>DROSHA</i>	rs639174	101	64			
	CC	32 (31.7)	30 (46.9)	<b>0.02</b>	CC vs CT + TT	<b>0.45(0.23-0.89)</b>
	CT	51 (50.5)	28 (43.8)			
	TT	18 (17.8)	6 (9.4)	0.16	CC + CT vs TT	2.00(0.73-5.51)
<i>miR453</i>	rs56103835	109	69			
	TT	60 (55.0)	32 (46.4)	0.42	TT vs CT + CC	0.77(0.41-1.45)
	CT	38 (34.9)	30 (43.5)			
	CC	11 (10.1)	7 (10.1)	0.96	TT + CT vs CC	0.98(0.35-2.72)
<i>miR196A2</i>	rs11614913	101	66			
	CC	61 (60.4)	31 (47.0)	0.08	CC vs CT + TT	0.56(0.29-1.08)

	CT	31 (30.7)	30 (45.5)			
	TT	9 (8.9)	5 (7.6)	0.64	CC + CT vs TT	1.32(0.40-4.35)
<i>AGO</i>	rs636832	102	66			
	GG	46 (45.1)	39 (59.1)	<b>0.01</b>	GG vs GA + AA	<b>0.45(0.23-0.88)</b>
	GA	43 (42.2)	21 (31.8)			
	AA	13 (12.7)	6 (9.1)	0.42	GG + GA vs AA	0.66(0.23-1.86)
<i>pri-let-7a1</i>	rs10739971	30	37			
	GG	15 (50.0)	6 (22.2)	<b>0.02</b>	GG vs GA + AA	<b>4.66(1.17-18.66)</b>
	GA	12 (40.0)	14 (51.9)			
	AA	3 (10.0)	7 (25.9)	<b>0.04</b>	GG + GA vs AA	<b>5.09(0.95-7.45)</b>
<i>miR146A</i>	rs2910164	108	69			
	GG	47 (43.5)	29 (42.0)	0.67	GG vs GC + CC	0.87(0.46-1.65)
	GC	54 (50.0)	35 (50.7)			
	CC	7 (6.5)	5 (7.2)	0.66	GG + GC vs CC	1.31(0.22-2.59)
<i>miR570</i>	rs4143815	111	69			
	GG	62 (55.9)	46 (66.7)	0.73	GG vs GC + CC	1.41(0.73-2.73)
	GC	38 (34.2)	19 (27.5)			
	CC	11 (9.9)	4 (5.8)	0.49	GG + GC vs CC	1.64(0.49-5.50)
<i>miR200B</i>	rs9660710	103	67			

	CC	79 (76.7)	55 (82.1)	0.62	CC vs CA + AA	1.22 (0.54-2.79)
	CA	22 (21.4)	12 (17.9)			
	AA	2 (1.9)	0 (0.0)	0.14	CC + CA vs AA	1.00 (0.00)
<i>miR26-A1</i>	rs7372209	98	62			
	CC	44 (44.9)	33 (53.2)	0.32	CC vs CT + TT	1.40(0.72-2.72)
	CT	43 (43.9)	23 (37.1)			
	TT	11 (11.2)	6 (9.7)	0.41	CC + CT vs TT	1.59(0.51-4.94)
<i>miR200C</i>	rs12904	111	69			
	GG	36 (32.4)	11 (15.9)	<b>0.01</b>	GG vs AG + AA	<b>2.77(1.25-6.11)</b>
	AG	53 (47.7)	45 (65.2)			
	AA	22 (19.8)	13 (18.8)	0.92	GG + AG vs AA	1.04(0.43-2.15)
<i>DROSHA</i>	rs10035440	110	69			
	TT	80 (72.7)	40 (58.0)	<b>0.03</b>	TT vs CT + CC	<b>2.04(1.03-4.02)</b>
	CT	29 (26.4)	27 (39.1)			
	CC	1 (0.9)	2 (2.9)	0.27	TT + CT vs CC	3.82(0.32-3.10)
<i>miR4513</i>	rs2168518	112	69			
	GG	51 (45.5)	43 (62.3)	0.19	GG vs GA + AA	1.56(0.80-3.04)
	GA	53 (47.3)	20 (29.0)			
	AA	8 (7.1)	6 (8.7)	0.38	GG + AG vs AA	1.68(0.53-5.34)

<i>miR219-1</i>	rs107822	95	64			
	CC	58 (61.1)	37 (57.8)	0.73	CC vs CT + TT	0.89(0.46-1.74)
	CT	28 (29.5)	23 (35.9)			
	TT	9 (9.5)	4 (6.2)	0.52	CC + CT vs TT	1.49(0.42-1.55)
<i>miR2053</i>	rs10505168	105	66			
	TT	45 (42.9)	25 (37.9)	0.66	TT vs TC + CC	0.87(0.45-1.67)
	TC	45 (42.9)	29 (43.9)			
	CC	15 (14.3)	12 (18.2)	0.63	TT + CT vs CC	0.81(0.34-1.90)
<i>miR499</i>	rs3746444	109	69			
	GG	79 (72.5)	53 (76.8)	0.62	GG vs GA + AA	1.20(0.57-2.50)
	GA	26 (23.9)	14 (20.3)			
	AA	4 (3.7)	2 (2.9)	0.61	GG + GA vs AA	1.62(0.24-10.69)

\*Sample number; *P*-value, OR and 95%CI were obtained with logistic regression adjusted for genetic ancestry.

**Table S2. Genotypic distribution of the investigated polymorphisms for leprosy patients grouped in clinical form PB in comparison to the control group.**

Gene	Genotype	PB (%)	Control (%)	<i>p</i> -value	Model	OR (95%CI)
<i>miR300</i>	rs12894467	55	68			
	TT	18 (32.7)	30 (44.1)	0.22	TT vs TC + CC	1.63(0.74-3.59)
	TC	24 (43.6)	26 (38.2)			
	CC	13 (23.6)	12 (17.6)	0.48	TT + TC vs CC	1.39(0.55-3.50)
	Alelo T	0.44	0.53			
	Alelo C	0.56	0.46			
<i>miR423</i>	rs6505162	49	59			
	AA	12 (24.5)	15 (25.4)	0.79	AA vs AC + CC	1.13(0.45-2.83)
	AC	26 (53.1)	32 (54.2)			
	CC	11 (22.4)	12 (20.3)	0.42	AA + AC vs CC	1.14(0.42-3.08)
	Alelo A	0.38	0.39			
	Alelo C	0.62	0.61			
<i>mir604</i>	rs2368392	43	54			
	AA	21 (48.8)	24 (44.4)	0.64	AA vs AG + GG	0.81(0.33-2.00)
	AG	22 (51.2)	29 (53.7)			
	GG	0 (0.0)	1 (1.9)	0.23	AA + AG vs GG	0.00(0.00)
	Alelo A	0.74	0.71			

	Alelo G	0.26	0.29			
<i>pre-miR938</i>	rs2505901	53	68			
	TT	11 (20.8)	27 (39.7)	<b>&lt;0.01</b>	TT vs TC + CC	<b>0.31(0.12-0.75)</b>
	TC	25 (47.2)	30 (44.1)			
	CC	17 (32.1)	11 (16.2)	<b>0.01</b>	TT + CT vs CC	<b>0.31(0.12-0.84)</b>
	Alelo T	0.44	0.62			
	Alelo C	0.56	0.38			
<i>miR100</i>	rs1834306	48	58			
	AA	24 (50.0)	25 (43.1)	0.42	AA vs AG + GG	0.72(0.32-1.63)
	AG	17 (35.4)	26 (44.8)			
	GG	7 (14.6)	7 (12.1)	0.77	AA + AG vs GG	1.19(0.37-3.87)
	Alelo A	0.68	0.65			
	Alelo G	0.32	0.35			
<i>miR219A1</i>	rs213210	55	69			
	AA	42 (76.4)	58 (84.1)	0.38	AA + AG vs GG	1.52(0.59-3.94)
	AG	13 (23.6)	9 (13.0)			
	GG	0 (0.00)	2 (2.9)	0.06	AA vs AG + GG	0.00 (0.00)
	Alelo A	0.88	0.90			
	Alelo G	0.12	0.10			

<i>DROSHA</i>	rs639174	50	64			
	CC	16 (32.0)	30 (46.9)	0.08	CC vs CT + TT	0.50(0.22-1.12)
	CT	27 (54.0)	28 (43.8)			
	TT	7 (14.0)	6 (9.4)	0.60	CC + CT vs TT	0.72(0.21-2.31)
	Alelo C	0.59	0.69			
	Alelo T	0.41	0.31			
<i>miR453</i>	rs56103835	54	69			
	TT	30 (55.6)	32 (46.4)	0.52	TT vs CT + CC	0.78(0.36-1.67)
	CT	20 (37.0)	30 (43.5)			
	CC	4 (7.4)	7 (10.1)	0.53	TT + CT vs CC	0.66(0.17-2.53)
	Alelo T	0.74	0.68			
	Alelo C	0.26	0.32			
<i>miR196A2</i>	rs11614913	52	66			
	CC	32 (61.5)	31 (47.0)	0.12	CC vs CT + TT	0.53(0.24-1.19)
	CT	14 (26.9)	30 (45.5)			
	TT	6 (11.5)	5 (7.6)	0.24	CC + CT vs TT	2.29(0.56-9.30)
	Alelo C	0.75	0.70			
	Alelo T	0.25	0.30			
<i>AGO</i>	rs636832	52	66			



<i>pri-let-7a1</i>	GG	24 (46.2)	39 (59.1)	0.11	GG vs GA + AA	0.53(0.24-1.16)
	GA	20 (38.5)	21 (31.8)			
	AA	8 (15.4)	6 (9.1)	0.28	GG + GA vs AA	0.53(0.16-1.73)
	Alelo G	0.65	0.75			
	Alelo A	0.35	0.25			
	rs10739971	13	27			
	GG	9 (69.2)	6 (22.2)	<0.01	GG vs GA + AA	13.3(1.82-90.0)
	GA	3 (23.1)	14 (51.9)			
	AA	1 (7.7)	7 (25.9)	0.09	GG + GA vs AA	6.55(0.53-8.90)
	Alelo G	0.81	0.48			
<i>miR146A</i>	Alelo A	0.19	0.52			
	rs2910164	52	69			
	GG	23 (44.2)	29 (42.0)	0.74	GG vs GC + CC	1.14(0.40-1.92)
	GC	23 (44.2)	35 (50.7)			
	CC	6 (11.5)	5 (7.2)	0.52	GG + GC vs CC	0.65(0.18-2.43)
	Alelo G	0.66	0.67			
	Alelo C	0.34	0.33			
	rs4143815	54	69			
	GG	35 (64.8)	46 (66.7)	0.82	GG vs GC + CC	1.10(0.49-2.47)

	GC	17 (31.5)	19 (27.5)			
	CC	2 (3.7)	4 (5.8)	0.32	GG + GC vs CC	2.38(0.41-13.01)
	Alelo G	0.80	0.80			
	Alelo C	0.20	0.20			
<i>miR200B</i>	rs9660710	55	67			
	CC	42 (76.4)	55 (82.1)	0.36	CC vs CA + AA	1.27 (0.48-3.37)
	CA	11 (20.0)	12 (17.9)			
	AA	2 (3.6)	0 (0.00)	0.27	CC + CA vs AA	0.00 (0.00)
	Alelo C	0.86	0.90			
	Alelo A	0.14	0.10			
<i>miR26-A1</i>	rs7372209	49	62			
	CC	19 (38.8)	33 (53.2)	0.16	CC vs CT + TT	1.78(0.79-3.99)
	CT	24 (49.0)	23 (37.1)			
	TT	6 (12.2)	6 (9.7)	0.59	CC + CT vs TT	1.42(0.39-5.14)
	Alelo C	0.63	0.71			
	Alelo T	0.37	0.28			
<i>miR200C</i>	rs12904	54	69			
	GG	20 (37.0)	11 (15.9)	< 0.01	GG vs GA + AA	3.42(1.36-8.57)
	GA	25 (46.3)	45 (65.2)			

<i>DROSHA</i>	AA	9 (16.7)	13 (18.8)	0.53	GG + GA vs AA	1.39(0.50-3.89)
	Alelo G	0.60	0.48			
	Alelo A	0.30	0.52			
	rs10035440	54	69			
	TT	36 (66.7)	40 (58.0)	0.32	TT vs CT + CC	1.50(0.66-3.39)
	CT	17 (31.5)	27 (39.1)			
	CC	1 (1.9)	2 (2.9)	0.66	TT + CT vs CC	1.73(0.14-7.12)
<i>miR4513</i>	Alelo T	0.82	0.77			
	Alelo C	0.18	0.23			
	rs2168518	55	69			
	GG	26 (47.3)	43 (62.3)	0.40	GG vs GA + AA	0.71(0.32-1.58)
	GA	28 (50.9)	20 (29.0)			
	AA	1 (1.8)	6 (8.7)	<b>0.03</b>	GG + AG vs AA	<b>7.65(0.83-70.5)</b>
	Alelo G	0.73	0.77			
<i>miR219-1</i>	Alelo A	0.27	0.23			
	rs107822	49	64			
	CC	30 (61.2)	37 (57.8)	0.77	CC vs CT + TT	0.89(0.40-1.99)
	CT	12 (24.5)	23 (35.9)			
	TT	7 (14.3)	4 (6.2)	0.18	CC + CT vs TT	2.50(0.63-9.84)

<i>miR2053</i>	Alelo C	0.73	0.76	0.21	TT vs TC + CC	0.61(0.28-1.33)
	Alelo T	0.26	0.24			
	rs10505168	52	66			
	TT	27 (51.9)	25 (37.9)	0.55	TT + CT vs CC	0.72(0.24-2.19)
	TC	19 (36.5)	29 (43.9)			
	CC	6 (11.5)	12 (18.2)			
<i>miR499</i>	Alelo T	0.70	0.60	0.36	GG vs GA + AA	1.51(0.62-3.69)
	Alelo C	0.30	0.40			
	rs3746444	52	69			
	GG	37 (71.2)	53 (76.8)	0.27	GG + GA vs AA	3.15(0.37-27.04)
	GA	12 (23.1)	14 (20.3)			
	AA	3 (5.8)	2 (2.9)			
	Alelo G	0.83	0.87			
	Alelo A	0.17	0.13			

\*Sample number; *P*-values, OR and 95%CI were obtained with logistic regression adjusted for genetic ancestry.

**Table S3. Genotypic distribution of the investigated polymorphisms for leprosy patients grouped in clinical form MB in comparison to the control group.**

ID	Genotype	MB (%)	Control (%)	<i>p</i> -value	Model	OR (95%CI)
<i>miR300</i>	rs12894467	54	68	0.66	TT vs TC +	1.02(0.40-1.)
	TT	26 (46.4)	30 (44.1)			

					CC	
	CT	21 (37.5)	26 (38.2)			
	CC	9 (16.1)	12 (17.6)	0.79	TT + TC vs CC	1.12(0.33-2.32)
	Alelo T	0.67	0.63			
	Alelo C	0.33	0.37			
<i>miR423</i>	rs6505162	44	59			
	AA	15 (34.1)	15 (25.4)	0.40	AA vs AC + CC	0.69(0.29-1.65)
	AC	21 (47.7)	32 (54.2)			
	CC	8 (18.2)	12 (20.3)	0.96	AA + AC vs CC	0.97(0.35-2.73)
	Alelo A	0.58	0.53			
	Alelo C	0.42	0.47			
<i>mir604</i>	rs2368392	40	54			
	AA	21 (52.5)	24 (44.4)	0.50	AA vs AG + GG	0.74(0.30-1.81)
	AG	18 (45.0)	29 (53.7)			
	GG	1 (2.5)	1 (1.9)	0.79	AA + AG vs GG	1.46(0.29-1.74)
	Alelo A	0.75	0.71			
	Alelo G	0.25	0.29			
<i>pre-miR938</i>	rs2505901	56	68			
	TT	15 (26.8)	27 (39.7)	0.07	TT vs TC + CC	0.49(0.22-1.08)

	TC	28 (50.0)	30 (44.1)			
	CC	13 (23.2)	11 (16.2)	0.21	TT + CT vs CC	0.56(0.22-1.42)
	Alelo T	0.52	0.62			
	Alelo C	0.48	0.38			
<i>miR100</i>	rs1834306	45	58			
	AA	20 (44.4)	25 (43.1)	0.87	AA vs AG + GG	0.94(0.41-2.12)
	AG	19 (42.2)	26 (44.8)			
	GG	6 (13.3)	7 (12.1)	0.84	AA + AG vs GG	0.88(0.26-2.98)
	Alelo A	0.66		0.65		
	Alelo G	0.34		0.35		
<i>miR219A1</i>	rs213210	57	69			
	AA	49 (86.0)	58 (84.1)	0.78	AA vs AG + GG	0.87(0.31-2.41)
	AG	8 (14.0)	9 (13.0)			
	GG	0 (0.00)	2 (2.9)	0.09	AA vs AG vs GG	0.00 (0.00)
	Alelo A	0.93	0.90			
	Alelo G	0.07	0.10			
<i>DROSHA</i>	rs639174	51	64			
	CC	16 (31.4)	30 (46.9)	<b>0.03</b>	CC vs CT + TT	<b>0.43(0.19-0.98)</b>
	CT	24 (47.1)	28 (43.8)			

<i>miR453</i>	TT	11 (21.6)	6 (9.4)	0.08	CC + CT vs TT	0.39(0.13-1.18)
	Alelo C	0.55	0.69			
	Alelo T	0.45	0.31			
	rs56103835	55	69			
	TT	30 (54.5)	32 (46.4)	0.47	TT vs CT + CC	0.77(0.37-1.59)
	CT	18 (32.7)	30 (43.5)			
	CC	7 (12.7)	7 (10.1)	0.64	TT + CT vs CC	1.30(0.42-1.43)
<i>miR196A2</i>	Alelo T	0.71	0.68			
	Alelo C	0.29	0.32			
	rs11614913	49	66			
	CC	29 (59.2)	31 (47.0)	0.15	CC vs CT + TT	1.39(0.29-2.03)
	CT	17 (34.7)	30 (45.5)			
	TT	3 (6.1)	5 (7.6)	0.71	CC + CT vs TT	1.32(0.40-4.35)
	Alelo C	0.76	0.70			
<i>AGO</i>	Alelo T	0.24	0.30			
	rs636832	50	66			
	GG	22 (44.0)	39 (59.1)	<b>0.04</b>	GG vs GA + AA	<b>0.45(0.21-0.99)</b>
	GA	23 (46.0)	21 (31.8)			
	AA	5 (10.0)	6 (9.1)	0.98	GG + GA vs AA	1.01(0.28-3.61)

<i>pri-let-7a1</i>	Alelo G	0.67	0.75	0.23	GG vs GA + AA	2.54(0.53-12.3)
	Alelo A	0.33	0.25			
	rs10739971	17	27			
	GG	6 (35.3)	6 (22.2)	0.13	GG + GA vs AA	3.95(0.58-27.1)
	GA	9 (52.9)	14 (51.9)			
	AA	2 (11.8)	7 (25.9)			
<i>miR146A</i>	Alelo G	0.62	0.48	0.74	GG vs GC + CC	1.110.53-2.30)
	Alelo A	0.38	0.52			
	rs2910164	56	69			
	GG	24 (42.9)	29 (42.0)	0.66	GG + GC vs CC	4.26(0.47-38.5)
	GC	31 (55.4)	35 (50.7)			
	CC	1 (1.8)	5 (7.2)			
<i>miR570</i>	Alelo G	0.71	0.67	<b>0.03</b>	GG vs GC + CC	<b>0.45(0.21-0.96)</b>
	Alelo C	0.29	0.33			
	rs4143815	57	69			
	GG	27 (47.4)	46 (66.7)	0.08	GG + GC vs CC	0.34(0.10-1.28)
	GC	21 (36.8)	19 (27.5)			
	CC	9 (15.8)	4 (5.8)			
	Alelo G	0.66	0.80			



	Alelo C	0.34	0.20			
<i>miR26-A1</i>	rs7372209	49	62			
	CC	25 (51.0)	33 (53.2)	0.85	CC vs CT + TT	1.40(0.72-2.72)
	CT	19 (38.8)	23 (37.1)			
	TT	5 (10.2)	6 (9.7)	0.66	CC + CT vs TT	1.59(0.51-4.94)
	Alelo C	0.70	0.71			
	Alelo T	0.30	0.29			
<i>miR200C</i>	rs12904	57	69			
	GG	16 (28.1)	11 (15.9)	0.06	GG vs GA + AA	2.28(0.93-5.58)
	GA	28 (49.1)	45 (65.2)			
	AA	13 (22.8)	13 (18.8)	0.73	GG + GA vs AA	0.86(0.35-2.11)
	Alelo G	0.52	0.48			
	Alelo A	0.48	0.52			
<i>DROSHA</i>	rs10035440	56	69			
	TT	44 (78.6)	40 (58.0)	<b>0.01</b>	TT vs CT + CC	<b>2.88(1.22-6.79)</b>
	CT	12 (21.4)	27 (39.1)			
	CC	0 (0.0)	2 (2.9)	0.11	TT + CT vs CC	0.00(0.00)
	Alelo T	0.89	0.77			
	Alelo C	0.11	0.24			

<i>miR4513</i>	rs2168518	57	69			
	GG	25 (43.9)	43 (62.3)	0.17	GG vs GA + AA	0.57(0.26-1.27)
	GA	25 (43.9)	20 (29.0)			
	AA	7 (12.3)	6 (8.7)	0.87	GG + AG vs AA	0.91(0.27-3.03)
	Alelo G	0.66	0.77			
	Alelo A	0.34	0.23			
<i>miR219-1</i>	rs107822	46	64			
	CC	28 (60.9)	37 (57.8)	0.59	CC vs CT + TT	0.89(0.46-1.74)
	CT	16 (34.8)	23 (35.9)			
	TT	2 (4.3)	4 (6.2)	0.54	CC + CT vs TT	1.49(0.42-5.25)
	Alelo C	0.78	0.76			
	Alelo T	0.22	0.24			
<i>miR2053</i>	rs10505168	53	66			
	TT	18 (34.0)	25 (37.9)	0.53	TT vs TC + CC	0.87(0.34-1.90)
	TC	26 (49.1)	29 (43.9)			
	CC	9 (17.0)	12 (18.2)	0.96	TT + CT vs CC	0.81(0.34-1.86)
	Alelo T	0.58	0.59			
	Alelo C	0.42	0.41			
<i>miR499</i>	rs3746444	57	69			

GG	42 (73.7)	53 (76.8)	0.80	GG vs GA + AA	1.20(0.57-2.50)
GA	14 (24.6)	14 (20.3)			
AA	1 (1.8)	2 (2.9)	0.84	GG + GA vs AA	1.62(0.24-10.69)
Alelo G	0.86	0.87			
Alelo A	0.14	0.13			

\*Sample number; *P*-values, OR and 95%CI were obtained with logistic regression adjusted for genetic ancestry.

**Table S4. Genotypic distribution of the investigated polymorphisms between leprosy patients grouped according clinical form MB and PB.**

ID	Genotype	PB (%)	MB (%)	<i>p</i> -value	Model	OR (95%CI)
<i>miR300</i>	rs12894467	55	53			
	TT	18 (32.7)	25 (47.2)	0.09	TT vs CT + CC	0.48(0.20-1.14)
	CT	24 (43.6)	20 (37.7)			
	CC	13 (23.6)	8 (15.1)	0.08	TT + CT vs CC	0.39(0.13-1.16)
	Alelo T	0.54	0.66			
	Alelo C	0.46	0.34			
<i>miR423</i>	rs6505162	49	41			
	AA	12 (24.5)	15 (36.6)	0.46	AA vs AC + CC	0.69(0.26-1.87)
	AC	26 (53.1)	18 (43.9)			
	CC	11 (22.4)	8 (19.5)	0.99	AA + AC vs CC	1.00(0.33-3.08)
	Alelo A	0.51	0.59			

	Alelo C	0.49	0.41			
<i>mir604</i>	rs2368392	43	37			
	AA	21 (48.8)	19 (51.4)	0.52	AA vs AG + GG	0.73(0.28-1.94)
	AG	22 (51.2)	17 (45.9)			
	GG	0 (0.0)	1 (2.7)	0.14	AA + AG vs GG	0.00(0.00)
	Alelo A	0.74	0.74			
	Alelo G	0.26	0.26			
<i>pre-miR938</i>	rs2505901	53	53			
	TT	17 (32.1)	12 (22.6)	0.18	TT vs CT + CC	1.90(0.74-4.90)
	CT	25 (47.2)	27 (50.9)			
	CC	11 (20.8)	14 (26.4)	0.07	TT + CT vs CC	2.56(0.89-7.38)
	Alelo T	0.56	0.48			
	Alelo C	0.44	0.52			
<i>miR100</i>	rs1834306	48	42			
	AA	24 (50.0)	18 (42.9)	0.45	AA vs AG + GG	1.41(0.57-3.45)
	AG	17 (35.4)	19 (45.2)			
	GG	7 (14.6)	5 (11.9)	0.65	AA + AG vs GG	0.74(0.20-2.76)
	Alelo A	0.68	0.65			
	Alelo G	0.32	0.35			
<i>DROSHA</i>	rs639174	50	48			
	CC	16 (32.0)	14 (29.2)	0.73	CC vs CT + TT	0.85(0.32-2.22)
	CT	27 (54.0)	23 (47.9)			

<i>miR453</i>	TT	7 (14.0)	11 (22.9)	0.85	CC + CT vs TT	1.11(0.35-3.51)
	Alelo C	0.59	0.53			
	Alelo T	0.41	0.47			
	rs56103835	54	52			
	TT	30 (55.6)	28 (53.8)	0.69	TT vs CT + CC	0.84(0.36-1.96)
	CT	20 (37.0)	17 (32.7)			
<i>miR196A2</i>	CC	4 (7.4)	7 (13.5)	0.27	TT + CT vs CC	2.16(0.53-8.86)
	Alelo T	0.74	0.70			
	Alelo C	0.26	0.30			
	rs11614913	52	46			
	CC	32 (61.5)	27 (58.7)	0.59	CC vs CT + TT	1.27(0.52-3.08)
	CT	14 (26.9)	16 (34.8)			
<i>AGO</i>	TT	6 (11.5)	3 (6.5)	0.73	CC + CT vs TT	1.27(0.52-3.08)
	Alelo C	0.75	0.76			
	Alelo T	0.25	0.24			
	rs636832	52	47			
	GG	24 (46.2)	20 (42.6)	0.52	GG vs GA + AA	1.33(0.55-3.18)
	GA	20 (38.5)	22 (46.8)			
<i>pri-let-7a1</i>	AA	8 (15.4)	5 (10.6)	0.97	GG + GA vs AA	1.02(0.27-3.80)
	Alelo G	0.65	0.66			
	Alelo A	0.35	0.34			
	rs10739971	13	16			

<i>miR146A</i>	GG	9 (69.2)	6 (37.5)	<b>0.01</b>	GG vs GA + AA	<b>5.21(1.59-7.86)</b>
	GA	3 (23.1)	9 (56.2)			
	AA	1 (7.7)	1 (6.2)	0.55	GG + GA vs AA	2.68(0.11-6.46)
	Alelo G	0.81	0.65			
	Alelo A	0.19	0.36			
	rs2910164	52	53			
	GG	23 (44.2)	24 (45.3)	0.25	GG vs GC + CC	0.60(0.24-1.46)
	GC	23 (44.2)	28 (52.8)			
	CC	6 (11.5)	1 (1.9)	<b>0.04</b>	GG + GC vs CC	<b>0.14(0.01-1.36)</b>
	Alelo G	0.66	0.72			
<i>miR570</i>	Alelo C	0.34	0.28			
	rs4143815	54	54			
	GG	35 (64.8)	26 (48.1)	0.17	GG vs GC + CC	1.79(0.77-4.17)
	GC	17 (31.5)	20 (37.0)			
	CC	2 (3.7)	8 (14.8)	0.28	GG + GC vs CC	2.38(0.44-12.79)
	Alelo G	0.80	0.66			
	Alelo C	0.20	0.34			
<i>miR200B</i>	rs9660710	55	45			
	CC	42 (76.4)	35 (77.8)	0.98	CC vs CA + AA	1.01 (0.35-2.91)
	CA	11 (20.0)	10 (22.2)			
	AA	2 (3.6)	0 (0.0)	0.10	CC + CA vs AA	0.00 (0.00)

<i>miR26-A1</i>	Alelo C	0.86	0.88			
	Alelo A	0.14	0.11			
	rs7372209	49	46			
	CC	19 (38.8)	23 (50.0)	0.10	CC vs CT + TT	0.47(0.19-1.18)
	CT	24 (49.0)	18 (39.1)			
<i>miR200C</i>	TT	6 (12.2)	5 (10.9)	0.52	CC + CT vs TT	0.64(0.17-2.50)
	Alelo C	0.63	0.70			
	Alelo T	0.37	0.30			
	rs12904	54	54			
	GG	20 (37.0)	15 (27.8)	0.26	GG vs AG + AA	1.66(0.68-4.06)
<i>DROSHA</i>	AG	25 (46.3)	26 (48.1)			
	AA	9 (16.7)	13 (24.1)	0.41	GG + AG vs AA	1.54(0.54-4.37)
	Alelo G	0.60	0.52			
	Alelo A	0.40	0.48			
	rs10035440	54	53			
<i>miR4513</i>	TT	36 (66.7)	41 (77.4)	0.63	TT vs CT + CC	0.80(0.31-2.05)
	CT	17 (31.5)	12 (22.60)			
	CC	1 (1.9)	0 (0.0)	0.47	TT + CT vs CC	0.00(0.00)
	Alelo T	0.82	0.89			
	Alelo C	0.17	0.11			
<i>miR4513</i>	rs2168518	55	54			
	GG	26 (47.3)	23 (42.6)	0.70	GG vs GA + AA	1.56(0.80-3.04)

	GA	28 (50.9)	25 (40.3)			
	AA	1 (1.8)	6 (11.1)	0.09	GG + GA vs AA	5.37(0.56-9.89)
	Alelo G	0.73	0.66			
	Alelo A	0.27	0.34			
<i>miR219-1</i>	rs107822	49	43			
	CC	30 (61.2)	26 (60.5)	0.83	CC vs CT + TT	0.91(0.36-2.30)
	CT	12 (24.5)	15 (34.9)			
	TT	7 (14.3)	2 (4.7)	0.07	CC + CT vs TT	0.23(0.04-1.31)
	Alelo C	0.73	0.78			
	Alelo T	0.27	0.22			
<i>miR2053</i>	rs10505168	52	50			
	TT	27(51.9)	17 (34.0)	0.06	TT vs TC + CC	2.31(0.95-5.61)
	TC	19 (36.5)	24 (48.0)			
	CC	6 (11.5)	9 (18.0)	0.51	TT + TC vs CC	1.50(0.45-5.06)
	Alelo T	0.70	0.58			
	Alelo C	0.30	0.42			
<i>miR499</i>	rs3746444	52	54			
	GG	37 (71.2)	40 (74.1)	0.97	GG vs GA + AA	1.01(0.39-2.61)
	GA	12 (23.1)	13 (24.1)			
	AA	3 (5.8)	1 (1.9)	0.25	GG + GA vs AA	0.25(0.02-3.05)
	Alelo G	0.82	0.86			
	Alelo A	0.17	0.14			

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\*Sample number; *P*-values, OR and 95%CI were obtained with logistic regression adjusted for age and sex.

**Table S5. Characterization of the polymorphisms studied.**

Gene	ID	Alleles	Function	MAF*
<i>miR20b/miR-17-5P</i>	rs3660	C>G	3 Prime UTR Variant	48%
<i>miR300</i>	rs12894467	C>T	Non-Coding Transcript exon variant	39%
<i>miR423</i>	rs6505162	C>A	Non-Coding Transcript variant	50%
<i>mir604</i>	rs2368392	G>A	Non-Coding Transcript Variant	32%
<i>pre-miR938</i>	rs2505901	C>T	Intron Variant	40%
<i>miR605</i>	rs2043556	T>C	Non Coding Transcript Variant	25%
<i>miR100</i>	rs1834306	A>G	Intron Variant	45%
<i>miR219A1</i>	rs213210	A>G	Regulatory Region Variant	17%
<i>DROSHA</i>	rs639174	C>T	Intron Variant	46%
<i>miR453</i>	rs56103835	T> C	Non-Coding Transcript Exon Variant	30%
<i>miR196A2</i>	rs11614913	C>T	Non-Coding Transcript Exon Variant	33%
<i>AGO1</i>	rs636832	A>G	Intron Variant	36%
<i>pri-let-7a-1</i>	rs10739971	G>A	Intron Variant	26%
<i>miR146A</i>	rs2910164	C>G	Mature miRNA Variant	29%
<i>miR570</i>	rs4143815	G>C	3 prime UTR ariant	28%
<i>miR200B</i>	rs9660710	A>C	Regulatory Region Variant	10%
<i>miR26-A1</i>	rs7372209	C>T	Intron Variant	20%
<i>miR200C</i>	rs12904	G> A	3 Prime UTR Variant	49%
<i>DROSHA</i>	rs3805500	G>A	Intron Variant	49%
<i>DROSHA</i>	rs10035440	T>C	Intron Variant	15%
<i>miR4513</i>	rs2168518	G> A	Non-Coding Transcript Exon Variant	24%
<i>miR219-1</i>	rs107822	C>T	TF Binding Site	37%
<i>miR149</i>	rs2292832	T>C	Intron Variant	38%
<i>miR2053</i>	rs10505168	C>T	Non Coding Transcript Variant	39%

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<i>miR499</i>	rs3746444	A>G	Mature miRNA Variant	18%
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\*Minor Allele Frequency according 1000 Genomes Project.