



Supplemental Figure 1

Supplemental Figure 1. MMc rates by A) birth order and B) age in the COAST cohort (N=107), the Tucson IIS cohort (N=107), and the Hutterites (N=103). Numbers of subjects are listed on the X axis for each category, and the proportion of MMc positive subjects is shown on the Y axis.

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Supplemental Table 1. Maternal asthma, sex ratios, and asthma and atopy status of COAST, Tucson IIS, Hutterite, and the combined samples.

		COAST				Tucson IIS				Hutterites				Combined Sample			
		Total (%)	M:F	MMc+ (%)	MMc+ M:F	Total (%)	M:F	MMc+ (%)	MMc+ M:F	Total (%)	M:F	MMc+ (%)	MMc+ M:F	Total (%)	M:F	MMc+ (%)	MMc+ M:F
Maternal Asthma	Yes	41/107 (38.3)	24:17	7/41 (17.1)	4:3	15/107 (14.0)	3:12	6/15 (40.0)	1:5	48/103 (46.6)	25:23	8/48 (16.7)	2:6	104/317 (32.8)	52:52	21/104 (20.2)	7:14
	No	66/107 (61.7)	36:30	11/66 (16.7)	5:6	92/107 (85.9)	47:45	23/92 (25.0)	10:13	55/103 (53.4)	30:25	11/55 (20.0)	7:4	213/317 (67.2)	113:100	45/213 (21.1)	22:23
Asthma	Yes	42/107 (39.3)	27:15	3/42 (7.1)	2:1	11/107 (10.3)	6:5	2/11 (18.1)	0:2	36/97 (37.1)	19:17	5/36 (13.9)	3:2	89/311 (28.6)	54:37	10/89 (11.2)	5:5
	No	65/107 (60.7)	33:32	15/65 (23.1)	7:8	96/107 (89.7)	44:52	27/96 (28.1)	11:16	61/97 (62.9)	32:29	13/61 (21.3)	5:8	222/311 (71.4)	107:113	55/222 (24.8)	23:32
Atopy	Yes	42/88 (47.7)	28:14	5/42 (11.9)	3:2	41/87 (47.1)	20:21	12/41 (29.3)	6:6	45/78 (57.7)	24:21	6/45 (13.3)	2:4	128/253 (50.6)	72:56	23/128 (18.0)	11:12
	No	46/88 (52.3)	23:23	12/46 (26.1)	12:12	46/87 (52.9)	21:25	14/46 (30.4)	5:9	33/78 (42.3)	16:17	6/33 (18.2)	2:4	125/253 (49.4)	60:65	32/125 (25.6)	19:25

Supplemental Table 2. Summary of qPCR results in MMc+ subjects. GE = genome equivalents.

Sample	MMc Range (GE/million host cells tested)	Mean # (SD) of GE surveyed		Range of total GE surveyed	
		In MMc+ subjects	In the total sample	In MMc+ subjects	In the total sample
COAST	4.1-925.2	83,136 (23,864)	82,723 (30,475)	41,325- 127,165	20,513- 149,245
Tucson IIS	0.2-312.0	89,806 (43,862)	94,284 (34,387)	12,453- 142,641	12,453- 148,527
Hutterites	1.5-374.7	74,241 (16,636)	89,203 (27,075)	53,999- 101,266	32,560- 131,522

Supplemental Table 3. Number of subjects tested for each NIMA and corresponding number of MMc positive subjects per sample.

NIMA	COAST		Tucson IIS		Hutterites		Combined Sample	
	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive	# Tested	# Positive
DRB1*01	8	1	12	1	15	2	35	4
DRB1*15/16	19	4	19	7	9	1	47	10
DRB1*04	23	3	26	7	24	3	73	13
DRB1*07	21	3	16	4	9	0	46	7
DRB1*08	3	0	3	0	2	0	8	0
DRB1*14	1	0	0	0	1	0	2	0
DQA1*01	4	1	16	7	4	1	24	9
DQA1*05	28	5	15	3	39	11	82	20