

eTable 1. Adjusted\* Associations of Air Pollution Exposure, *MET* rs1858830 Genotype, and ASD Risk (N=407) at Exploring Additional Parameterizations For Air Pollution

		<i>MET</i> Genotype	ASD (N=251)	Control (N=156)	OR (95%CI)
Exposure Divided at Median					
Traffic Related Air Pollution <sup>1</sup>	Top Half	CC	31	10	2.32 (1.07-5.37)
		CG/GG	108	55	1.34 (0.83-2.15)
	Bottom Half	CC	25	28	0.69 (0.36-1.32)
		CG/GG			1.00
Particulate Matter Less Than 2.5 Microns in Diameter <sup>2</sup>	Top Half	CC	34	18	1.48 (0.76-2.95)
		CG/GG	102	53	1.38 (0.85-2.22)
	Bottom Half	CC	22	20	0.83 (0.41-1.70)
		CG/GG			1.00
Particulate Matter Less Than 10 Microns in Diameter <sup>3</sup>	Top Half	CC	34	15	1.56 (0.78-3.24)

		CG/GG	102	56	1.17 (0.73-1.89)
	Bottom Half	CC	228	23	0.71 (0.36-1.40)
		CG/GG			1.00
Nitrogen Dioxide <sup>4</sup>	Top Half	CC	36	13	1.75 (0.86-3.76)
		CG/GG	96	61	0.93 (0.58-1.51)
	Bottom Half	CC	20	25	0.51 (0.26-1.02)
		CG/GG			1.00
Ozone <sup>5</sup>	Top Half	CC	33	17	1.29 (0.66-2.59)
		CG/GG	97	54	1.11 (0.69-1.78)
	Bottom Half	CC	23	21	0.79 (0.39-1.59)
		CG/GG			1.00
Exposure Divided at Top 20%					
Traffic Related Air Pollution <sup>1</sup>	Top 20%	CC	17	1	11.18 (2.24-203.09)

		CG/GG	46	20	1.51 (0.85-2.76)
	Bottom 80%	CC	39	37	0.69 (0.41-1.16)
		CG/GG			1.00
Particulate Matter Less Than 2.5 Microns in Diameter <sup>2</sup>	Top 20%	CC	19	5	2.59 (0.98-8.16)
		CG/GG	44	19	1.49 (0.81-2.82)
	Bottom 80%	CC	37	33	0.81 (0.47-1.41)
		CG/GG			1.00
Particulate Matter Less Than 10 Microns in Diameter <sup>3</sup>	Top 20%	CC	21	6	2.74 (1.10-7.87)
		CG/GG	45	15	1.99 (1.05-3.98)
	Bottom 80%	CC	35	32	0.80 (0.46-1.40)
		CG/GG			1.00
Nitrogen Dioxide <sup>4</sup>	Top 20%	CC	18	4	3.08 (1.08-

					11.12)
					CG/GG
					44
					20
					1.41
					(0.78-2.63)
					Bottom 80%
					CC
					38
					34
					0.80
					(0.46-1.38)
					CG/GG
					1.00
Ozone <sup>5</sup>	Top 20%	CC	12	8	1.01
					(0.39-2.72)
					CG/GG
					39
					21
					1.05
					(0.57-1.97)
					Bottom 80%
					CC
					44
					30
					0.97
					(0.57-1.69)
					CG/GG
					1.00

ASD = autism spectrum disorder

\* Models adjusted for child male gender, child ethnicity (Hispanic vs. White, Black/Asian/Other vs. White), maximum education of parents (parent with highest of four levels: college degree or higher vs. some high school, high school degree, or some college education), maternal age ( >35 years vs. ≤ 35years), prenatal smoking (self report of ever vs. never smoked while pregnant), and home ownership (owner vs. renter).

<sup>1</sup>Cut points reflect median and 20% exposure levels of 17.7 parts per billion or greater and 32.8 parts per billion greater, respectively.

<sup>2</sup> This cut point reflects an exposure level of 12.7 microgram/meters cubed or greater and 17.0 microgram/meters cubed or greater, respectively.

<sup>3</sup> This cut point reflects an exposure level of 23.4 microgram/meters cubed or greater and 31.6 microgram/meters cubed or greater, respectively.

<sup>4</sup> This cut point reflects an exposure level of 14.9 parts per billion or greater and 18.4 parts per billion or greater, respectively.

<sup>5</sup> This cut point reflects an exposure level of 34.9 parts per billion or greater and 43.1 parts per billion or greater, respectively.

eTable 2. Demographic, Socioeconomic, and Exposure Characteristics of Study Subjects Genotyped and Ungenotyped from the Childhood Autism Risks from Genetics and the Environment Study

	Genotyped (n=423) No. (%)	Ungenotyped (n=246) No. (%)
Male Gender	356 (84)	213 (87)
Ethnicity		
Non-Hispanic White	246 (58)	100 (41)
Hispanic	140 (33)	65 (26)
Asian	15 (4)	15 (6)
Other Ethnicities*	22 (5)	66 (27)
Maximum Education in Home		
College Degree or Greater	157 (37)	92 (37)
Maternal Age 35	117 (28)	69 (28)
Maternal Smoking During Pregnancy**	25 (6)	25 (10)
Homeowner	312 (74)	110 (65)

Air Pollution (Top Quartile Exposed)

Traffic Related Air Pollution (parts per billion)	108 (26)	69 (28)
Particulate Matter Less Than 2.5 Microns in Diameter (microgram/meters cubed)	107 (25)	71 (29)
Particulate Matter Less Than 10 Microns in Diameter (microgram/meters cubed)	108 (26)	71 (29)
Nitrogen Dioxide (parts per billion)	107 (25)	81 (33)
Ozone (parts per billion)	110 (26)	57 (23)

\*Includes individuals reporting multiple ethnicities based on combinations of Non-Hispanic White, Hispanic, or Asian origins or African American

\*\*Mother reported smoking at any time during pregnancy