


Erratum to: Haploinsufficiency of the E3 ubiquitin-protein ligase gene *TRIP12* causes intellectual disability with or without autism spectrum disorders, speech delay, and dysmorphic features

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In original publication, the last row of Table 1 was incorrect. The correct Table 1 is given below:

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Table 1 Summary of clinical presentations, and CMA and molecular findings in nine individuals with *TRIP12* mutations

	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	Subject 7	Subject 8	Subject 9	Summary from this study	Summary from Bramswig et al.
Gender	Male	Male	Male	Female	Female	Male	Male	Female	Male	6 males, 3 females	7 males, 4 females
Age at examination (years)	15	7	15	4	1.8	4	10	12.5	7	1.8–15	5.7–26.3
<i>TRIP12</i> variant (NM_004238)	Deletion of 9 exons (30–38)	Deletion of 17 exons (25–41)	Deletion of 4 exons (2–5)	Deletion of <i>TRIP12</i> and adjacent 7 genes	Deletion of TRIP12 and adjacent and 3 adjacent genes	Frameshift c.3446_3447delCA (p.S1149*X)	Frameshift c.2979dupA (p.G994Rfs*5)	Missense c.2282C>T (p.A761V)	Splicing c.3743+1G>A	5 CNVs (microdeletions)	1 translocation
Genomic coordinates (min/max, hg19)	chr2:230,634,390/230,636,077–230,654,539/230,655,748	chr2: 230,631,958–7230,632,049/230,660,565/230,661,210	chr2:230,230,679,862/698,794–230,781,114/230,801,002	chr2:230,489,478/230,513,445–231,457,431/231,508,839	chr2:229,076,749/229,152,599–230,801,061/230,811,273	Chr2: 230,661,450	Chr2: 230,666,969	Chr2: 230,672,494	Chr2: 230,659,894		
Ethnicity	Mexican	NA	NA	Caucasian	NA	Saudi Arabia	United Arab Emirates (second cousins parents)	North European/Caucasian	Caucasian		
Inheritance	De novo	Unknown	Unknown	De novo	De novo	De novo	De novo	De novo	De novo	7 de novo, 2 parents NA	9 de novo, 2 parents NA
Maternal age at birth (years)	45	NA	NA	NA	NA	25	25	26	29	25–45	22–34
Paternal age at birth (years)	47	NA	NA	NA	NA	35	27	34	48	27–48	25–41
DD/ID	+	+	+	+	+	+	+	+	+	9/9	11/11
Speech delay	+	+	ND	+	+	+	+	+	+	8/8	10/11
Autistic behaviors	+ Poor social interaction	–	ND	+ Stereotypic behaviors	+	+	+	+	–	6/8	8/11
Other behavioral anomalies	Hyper anxiety, Untypical behaviors	ND	ND	Repetitive, aggressive behaviors/sensory issues	Repetitive, aggressive behaviors/sensory issues	Hyperactive and destructive behavior	ND	Extremely impulsive and aggressive behaviors.	–	6/7	8/11
First words (months)	36	60	ND	24	ND	ND	ND	24	42	1/8 fluent speech	6/11 fluent speech
Verbal ability	Fluent speech	<100 words at 7 years	ND	30 words	5–6 words	No words	Single words	Phrase speech	Few phrase speech	6/8 phrase or single words	5/11 phrase or single words
Motor delay	+	–	ND	+	+	+	+	+	+	1/8 no words	7/11
Walking independently (months)	15	ND	ND	20	ND	ND	22	23	29	15–29	13–23

Table 1 continued

	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Subject 6	Subject 7	Subject 8	Subject 9	Summary from this study	Summary from Bramswig et al.
Seizures	-	-	ND	-	+	-	-	-	-	1/8	3/11
Microcephaly/OFC (cm) (percentile)	+ 52.2 (2–10%)	ND	ND	+ 49 (25%)	-	ND	-	-	-	2/6	0/11 1 ND
Obesity/weight (kg, percentile)	+ 86 kg (morbid obesity)	23.3 kg (BMI 91%)	ND	+	65%	ND	+ 97%	+ 90%	- 50–75%	4/7	2/11
Height (cm)	174 (75–90%)	113.5 (6%)	ND	103 (50%)	89 (46%)	ND	ND	ND	123 (75%)	Variable	Variable
Dysmorphic features											
Head shape	Brachycephaly, dolichocephaly	-	ND	-	-	Sloping forehead	-	-	-	2/8	ND
Narrow palpebral fissures	+	-	ND	-	+	-	+	+	ND	4/7	ND
Downturned mouth corners	+	-	ND	-	+	-	+	+	-	4/8	ND
Wide mouth	+	-	ND	-	-	-	+	+	-	3/8	3/8
Hypertelorism	+	-	ND	-	-	-	-	-	-	1/8	1/8
Epicanthic folds	-	-	ND	+	+	-	+	-	-	3/8	1/8
Depressed nasal bridge	-	-	ND	-	-	- (high nasal bridge)	-	-	-	0/8	1/8
Short nose	- (long nose)	-	ND	-	-	-	-	-	-	0/8	2/8
Antverted nares	-	-	ND	+	-	-	-	-	-	1/8	1/8
Low hanging columella	+	-	ND	-	-	-	-	-	-	1/8	3/8
Long philtrum	-	-	ND	-	-	-	-	- (short philtrum)	-	0/8	2/8
Smooth philtrum	-	-	ND	-	-	-	-	-	-	0/8	2/8
Thin upper lip vermillion	- (full lips)	-	ND	-	-	-	+	-	-	1/8	2/8
Exaggerated Cupid's bow	-	-	ND	-	-	-	-	-	-	0/8	4/8
Pointed chin	-	-	ND	-	-	+	-	+	-	2/8	ND
Large ear lobe	+	-	ND	-	-	+	-	-	+	3/8	3/8
Low set ears	-	-	ND	-	+	-	-	-	-	1/8	2/8
Hand anomalies	-	-	-	-	-	-	Spindle shaped fingers	-	-	-	-
Hearing loss (HL)	-	-	-	+	-	-	-	-	-	1/9	0/11
Brain anomalies	ND	-	ND	-	-	ND	ND	-	-	-	-

NA not available, ND not determined because of non-availability or non-applicability