Hum Genet (2017) 136:1009–1011
DOI 10.1007/s00439-017-1828-1

ERRATUM

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

Jing Zhang[1,2] · Tomasz Gambin[1,3,4] · Bo Yuan[1,2] · Przemyslaw Szafranski[1] · Jill A. Rosenfeld[1] · Mohammed Al Balwi[5] · Abdulrahman Alswaid[6] · Lihadh Al-Gazali[7] · Aisha M. Al Shamsi[8] · Makanko Komara[9] · Bassam R. Ali[9] · Elizabeth Roeder[1,10] · Laura McAuley[11] · Daniel S. Roy[12] · David K. Manchester[13] · Pilar Magoulas[1] · Lauren E. King[14] · Vickie Hannig[14] · Dominique Bonneau[15,16] · Anne-Sophie Denommé-Pichon[15,16] · Majida Charif[16] · Thomas Besnard[17] · Stéphane Bézieau[17] · Benjamin Cogné[17] · Joris Andrieux[18] · Wenmiao Zhu[1,2] · Weimin He[1,2] · Francesco Vetrini[1,2] · Patricia A. Ward[1,2] · Sau Wai Cheung[1,2] · Weimin Bi[1,2] · Christine M. Eng[1,2] · James R. Lupski[1,19,20,21] · Yaping Yang[1,2] · Ankita Patel[1,2] · Seema R. Lalani[1,2] · Fan Xia[1,2] · Paweł Stankiewicz[1,2]

Published online: 28 June 2017

Erratum to: Hum Genet (2017) 136:377–386
DOI 10.1007/s00439-017-1763-1

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

The online version of the original article can be found under doi:10.1007/s00439-017-1763-1.

✉ Fan Xia
fxia@bcm.edu

✉ Paweł Stankiewicz
pawels@bcm.edu

1 Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

2 Baylor Genetics, Houston, TX 77021, USA

3 Institute of Computer Science, Warsaw University of Technology, Warsaw 02-038, Poland

4 Department of Medical Genetics, Institute of Mother and Child, Warsaw 01-211, Poland

5 Pathology and Laboratory Medicine, King Abdulaziz Medical City, Riyadh 11246, Saudi Arabia

6 Department of Pediatrics, King Abdulaziz Medical City, Riyadh, Saudi Arabia

7 Department of Pediatrics, College of Medicine and Health Sciences, United Arab Emirates University, Al Ain, United Arab Emirates

8 Department of Pediatrics, Tawam Hospital, Al Ain, United Arab Emirates

9 Department of Pathology, College of Medicine and Health Sciences, United Arab Emirates University, Al Ain, United Arab Emirates

10 Departments of Pediatrics and Molecular and Human Genetics, Baylor College of Medicine, San Antonio, TX 78230, USA

11 UT Southwestern Medical Center, Children's Health Children's Medical Center, Dallas, TX 75235, USA

12 Tripler Army Medical Center, Honolulu 96859, USA

13 Genetics and Metabolism, Children's Hospital, Aurora, CO 80045, USA

14 Vanderbilt Children's Hospital, Nashville, TN 37232, USA

15 Department of Biochemistry and Genetics, University Hospital, 49933 Angers Cedex 9, France

16 UMR CNRS 6015-INSERM 1083 and PREMMI, University of Angers, 49933 Angers Cedex 9, France

17 CHU Nantes, Service de Génétique Médicale, 9 quai Moncousu, 44093 Nantes Cedex 1, France

18 Institute of Medical Genetics, Jeanne de Flandre Hospital, Lille University Hospital, Lille 59800, France

19 Department of Pediatrics, Baylor College of Medicine, Houston, TX 77030, USA

20 Human Genome Sequencing Center, Baylor College of Medicine, Houston, TX 77030, USA

21 Texas Children's Hospital, Houston, TX 77030, USA

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
TRIP12 variant (NM_004238)	Deletion of 9 exons (30–38)	Deletion of 17 exons (25–41)	Deletion of 4 exons (2–5)	Deletion of *TRIP12* and adjacent 7 genes	Deletion of *TRIP12* 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) 3 SNVs/indels (2 truncating, 1 missense)	1 translocation 10 SNVs/indels (5 truncating, 5 missense)
Genomic coordinates (min/max, hg19)	chr2:230,634,390/230,636,077–230,654,539/230,655,748	chr2: 230,631,958/230,632,049–230,660,565/230,661,210	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 1 ND
Autistic behaviors	+ Poor social interaction	−	ND	+ Stereotypic behaviors	+	+	+	+	−	6/8	8/11
Other behavioral anomalies		Hyper anxiety. Untypical behaviors	ND		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		
Verbal ability	Fluent speech	<100 words at 7 years	ND	30 words	5–6 words	No words	Single words	Phrase speech	Few phrase speech	1/8 fluent speech 6/8 phrase or single words 1/8 no words	6/11 fluent speech 5/11 phrase or single words
Motor delay	+	−	ND	+	+	+	+	+	+	7/8	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 month	+	−	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
Anteverted 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 vermilion	− (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)	−	−	−	+ Unilateal HL	−	−	−	−	−	1/9	0/11
Brain anomalies	ND	−	ND	−	−	ND	ND	−	−		

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