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CORRIGENDUM

Premature primary tooth eruption in cognitive/motor-delayed ADNP-mutated children

I Gozes, A Van Dijck, G Hacohen-Kleiman, I Grigg, G Karmon, E Giladi, M Eger, Y Gabet, M Pasmanik-Chor, E Cappuyns, O Elpeleg, RF Kooy and S Bedrosian-Sermone

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Correction to: *Translational Psychiatry* (2017) **7**, e1043; doi:10. 1038/tp.2017.27; published online 21 February 2017

Several entries in Table 1 use protein change annotations that do not comply with Human Genome Variation Society nomenclature. The nomenclature corrections (obtained from https://mutalyzer.nl/) are listed below. Most of the changes are a result of one amino acid to the truncated protein complying with the consensus nomenclature. The revised version of the table provided here reflects the corrections.

Panel 1

- c.70_75del AGTGAC was changed to p.Ser24_Asp25del instead of del Ser24Asp25.
- c.190dupA was changed to p.Thr64Asnfs*35 instead of p.Thr64Asnfs*34.
- c.339delC was changed to p.Phe114Serfs*47 instead of p. Phe114Serfs*46.
- 4. c.484C>T was changed to p.Gln162* instead of p.q162*.
- c.539_542delTTAG was changed to p.Val180Glyfs*17 instead of p.Val180Glyfs*16.

Panel 2

- c.1046_1047delTG was changed to p.Leu349Argfs*49 instead of p.Leu349Argfs*48.
- 7. c.1106_1108delTACinsCTGT was changed to p.Leu369-Serfs*30 instead of p.Leu369Serfs*29.
- 8. c.1184_1190delAGTCTGC was changed to p.Gln395Leufs*11 instead of p.Gln395Leufs*10.
- c.1235delT was changed to p.Leu412Profs*10 instead of p. Pro410leufs*9.

Panel 3

- c.2130delAinsCA was changed to c.2129dupC. Also, a typographical error in protein annotation was corrected: Ser71Lysfs*24 should have been p.Ser711Lysfs*24.
- 11. Column 3 (c.1235delT) was deleted entirely. It was a duplicate entry instead of the information for a child who

was inadvertently omitted. In the revised table, the entry for the omitted child appears in the last column (see correction 19). The order of the children has been preserved, and the error did not alter the reported number of children who exhibited early tooth eruption and hence did not affect the statistical analysis.

12. c.2153_2165delCTTACGAGCAAAT was changed to p.Thr718Argfs*6 instead of p.Thr718Glyfs*12.

Panel 5

- c.2206dupA was changed to p.Ser736Lysfs*2 instead of pSer736Lys*.
- c.2213C>A was changed to p.Ser738* instead of p.Ser738Ter.
- c.2310delT was changed to p.Leu771* instead of p. Phe770*1.
- c.2491_2494delTTAA was changed to p.Leu831llefs*82 instead of p.Leu831 llefs*81.

Panel 6

- 17. c.2496_2499delTAAA was changed to p.Asn832Lysfs*81 instead of p.Asn832Lysfs*80.
- 18. c.2499delA was changed to p.Val834Serfs*80 instead of p.Lys833Asnfs*80.
- The information for the omitted child noted in correction 11 has been added to the last column (c.2865_2868delTGAG).
- 20. In column 6, the duplicate nucleotide sequence has been deleted.

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Table 1. Deciduous tooth eruption is early in ADNP-mutated children

					YES	NO	TOTAL	YES	NO
ADNP Children - Primary	Dentition				44	10	54	81%	19%
cDNA / Nucleotide Mutation	c.1A>G	c.70_75del AGTGAC	c.190dupA	c.190dupA	c.339delC	c.484C>T	c.539_542delTTAG	c.539_542delTTAG	c.646 C>T
cDNA / Nucleotide Mutation Protein / pChange	c.1A>G p.Met?	p.Ser24 Asp25del	c.190dupA p.Thr64Asnfs*35	c.190dupA p.Thr64Asnfs*35	p.Phe114Serfs*47	c.484C>T p.Gln162*	c.539_542delTTAG p.Val180Glvfs*17	c.539_542delTTAG p.Val180Glvfs*17	c.646 C>T p.Arg216*
Location	The Netherlands	The Netherlands	Canada	USA	USA	USA	The Netherlands	USA	Israel
Sex	Female	Male	Male	Female	Male	Male	Female	Female	Male
Year of birth	2012	2006	2012	2006	1995	1999	2010	2008	2012
Did TEETH come in early? (baby teeth, including molars approx at age 12 months)	YES	YES	YES	YES	YES	YES	YES	YES	NO
Autism Spectrum Disorder	unknown	YES X	YES X	NO X	YES X	YES X	YES X	unknown	unknown
Autistictraits but no diagnosis Cognitive Delay	YES YES	YES	YES	YES	YES	YES	YES	YES YES	YES unknown
Developmental Delay	YES	YES	YES	YES	YES	YES	YES	YES	YES
HILOSOGO		Marca			Landon.			Maximilar	
cDNA/Nucleotide Mutation	c.819delC	c.1033C>T	c.1046_1047delTG	c.1102C>T	c.1106_1108del TACinsCTGT	c.1184_1190delAGTCTGC	c.1211C>A	c.1235delT	c.1595G>A
Protein / pChange	p.Lys274Asnfs*31	p.Gln345*	p.Leu349Argfs*49	p.Gln368*	p.Leu369Serfs*30	p.Gln395Leufs*11	p.Ser404*	p.Leu412Profs*10	p.Arg532Gln
Location	USA	USA	USA	USA	USA	Norway	The Netherlands	USA	USA
Sex	Male	Female	Male	Male	Male	Female	Female	Male	Female
Year of birth	2012	2007	2008	2012	2008	1986	2006	2004	2013
Did TEETH come in early? (baby teeth, including molars approx at age 12 months)	YES	YES	YES	YES	YES	YES	YES	YES	YES
Autism Diagnosis	unknown	YES	YES	unknown	NO	unknown	YES	YES	unknown
Autistictraits but no diagnosis	YES	Х		YES	X	?	X	Х	YES
Cognitive Delay	unknown	YES	YES	YES	YES	YES	YES	YES	YES
Developmental Delay	YES	YES	YES	YES	YES	YES	YES	YES	YES
		Lucy	James (Puba)			Jacob	Camille	Oliver	
cDNA/Nucleotide Mutation	c.1717delG	c.2129dupC	c.2153_2165delCTTACG AGCAAAT	c.2156_2157insA	c.2156_2157insA	c.2157 C>G	c.2156_2157insA	c.2156_2157insA	c.2157C>A
Protein / pChange	p.Asp573Metfs*33	p.Ser711Lysfs*24	p.Thr718Argfs*6	p.Tyr719*	p.Tyr719*	p.Tyr719*	p.Tyr719*	p.Tyr719*	p.Tyr719*
Location	Canada	Ireland	Australia	Germany	Brazil	UK	France	USA	USA
Sex	Female	Female	Male	Female	Female	Male	Female	Male	Female
Year of birth Did TEETH come in early? (baby teeth, including	2000	2005	2008	2009	2014	2004	1998	2004	2013
molars approx at age 12 months)	YES	NO	YES	NO	YES	YES	NO	YES	YES
Autism Diagnosis	unknown	NO	YES	YES	n/a - too young	YES	YES	YES	YES
Autistic traits but no diagnosis	YES	X	Х	Х	n/a - too young	Х	Х	Х	X
Cognitive Delay Developmental Delay	YES	YES	YES	YES	YES	YES	YES	YES	YES
Developmental Delay	100	165	103	169	TES	165	TES	163	165
cDNA/Nucleotide Mutation	c.2157C>A	c.2157C>G	c.2157C>G	c.2157C>G	c.2157C>G	c.2157C>G	c.2188 C>T	c.2188 C>T	
									c.2188 C>T
Brothelia (a-Channa	p.Tyr719*	p.Tyr719*	p.Tyr719*	p.Tyr719*	p.Tyr719*	p.Tyr719*	p. Arg 730*	p. Arg 730*	c.2188 C>T p. Arg 730*
Protein / pChange			p.Tyr719*						p. Arg 730*
Location	USA	UK	p.Tyr719* UK -Scotland	The Netherlands	USA	USA	The Netherlands	USA	p. Arg 730* USA
Location Sex	USA Male	UK Male	p.Tyr719* UK -Scotland Female	The Netherlands Male	USA Female	USA Female	The Netherlands Male	USA Male	p. Arg 730* USA Male
Location Sex Year of birth	USA Male 2012	UK Male 1992	p.Tyr719* UK -Scotland Female 1999	The Netherlands Male 2008	USA Female 2005	USA Female 2007	The Netherlands Male 2007	USA Male 2003	p. Arg 730* USA Male 2010
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx at age 12 months)	USA Male 2012 YES	UK Male 1992 NO	p.Tyr719* UK - Scotland Female 1999 YES	The Netherlands Male 2008 YES	USA Female 2005	USA Female 2007	The Netherlands Male 2007 YES	USA Male 2003 YES	p. Arg 730* USA Male 2010
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx at age 12 months) Autism Diagnosis	USA Male 2012 YES	UK Male 1992 NO YES	p.Tyr719* UK - Scotland Female 1999 YES unknown	The Netherlands Male 2008 YES NO	USA Female 2005 NO YES	USA Female 2007 NO YES	The Netherlands Male 2007 YES NO	USA Male 2003	p. Arg 730* USA Male 2010 NO
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx. at age 12 months) Autism Diagnosis Autistic Traits but no diagnosis	USA Male 2012 YES YES X	UK Male 1992 NO YES X	p.Tyr719* UK -Scotland Female 1999 YES unknown YES	The Netherlands Male 2008 YES NO X	USA Female 2005 NO YES X	USA Female 2007 NO YES X	The Netherlands Male 2007 YES NO X	USA Male 2003 YES YES	p. Arg 730* USA Male 2010 NO NO YES
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx at age 12 months) Autistic traits but no diagnosis Cognitive Delay.	USA Male 2012 YES	UK Male 1992 NO YES	p.Tyr719* UK - Scotland Female 1999 YES unknown	The Netherlands Male 2008 YES NO	USA Female 2005 NO YES	USA Female 2007 NO YES	The Netherlands Male 2007 YES NO	USA Male 2003 YES	p. Arg 730* USA Male 2010 NO
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx. at age 12 months) Autism Diagnosis Autistic Traits but no diagnosis	USA Male 2012 YES YES X YES	UK Male 1992 NO YES X YES	p.Tyr719* UK - Scotland Female 1999 YES unknown YES YES	The Netherlands Male 2008 YES NO X YES	USA Female 2005 NO YES X YES	USA Female 2007 NO YES X YES	The Netherlands Male 2007 YES NO X YES	USA Male 2003 YES YES	p. Arg 730* USA Male 2010 NO NO YES YES
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx. at age 12 months) Autist Diagnosis Autist traits but no diagnosis Cognitive Delay Developmental Delay	USA Male 2012 YES YES YES X YES YES YES	UK Male 1992 NO YES X YES	p.Tyr719* UK - Scotland Female 1999 YES unknown YES YES YES	The Netherlands Male 2008 YES NO X YES YES YES	USA Female 2005 NO YES X YES YES	USA Female 2007 NO YES X YES YES	The Netherlands Male 2007 YES NO X YES YES YES	USA Male 2003 YES YES X YES YES YES	p. Arg 730* USA Male 2010 NO NO YES YES YES
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx. at age 12 months) Autism Diagnosis Autistic traits but no diagnosis Cognitive Delay Developmental Delay cDNA/ Nucleotide Mutation	USA Male 2012 YES YES X YES YES C.2188 © T	UK Male 1992 NO VES X YES YES C.2188 C>T	p.Tyr719* UK - Scotland Female 1999 YES unknown YES YES YES C.2206dupA	The Netherlands Male 2008 YES NO X YES YES C.2213 C>A	USA Female 2005 NO YES X YES YES C.2251delGinsTAAA	USA Female 2007 NO YES X YES YES C.2287delT	The Netherlands Male 2007 YES NO X YES YES C.2310delT	USA Male 2003 YES YES X YES YES X C:2491_2494delTTAA	p. Arg 730* USA Male 2010 NO NO YES YES YES C: 2499_2499delTAAA
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx at age 12 months) Autistic traits but no diagnosis Cognitive Delay Developmental Delay CDNA / Nucleotide Mutation Protein / pChange	USA Male 2012 YES YES X YES YES YES YES PES C.2188 C>T P. Arg 730*	UK Male 1992 NO YES X YES YES YES PES	p.Tyr719* UK - Scotland Female Female 1999 YES unknown YES YES YES - C.2206dupA p.Ser736lysfs*2	The Netherlands Male 2008 YES NO X YES YES C.2213 C>A p.Ser738*	USA	USA	The Netherlands Male 2007 YES NO X YES YES C.2310delT p.leu771*	USA Male 2003 YES YES X YES YES C:2491_2494delTTAA p.teu831lefs*82	p. Arg 730* USA Male 2010 NO NO YES YES YES C. 2496_2499delTAAA p. Asn832Lysfs*81
Location Sex Year of birth Did TEETH come in early? (baby teeth, including molars approx at age 12 months) Autistic traits but no diagnosis Cognitive Delay Developmental Delay CDNA / Nucleotide Mutation Protein / pChange Location Sex	USA Male 2012 YES YES X YES YES YES YES YES USA Male	UK Male 1992 NO YES X YES YES PES C.2188 C>T P. Arg 730* Poland Female	p.Tyr719* UK - Scotland Female 1999 YES unknown YES YES YES c.2206dupA p.Ser736Lysfs*2 USA Male	The Netherlands Male 2008 YES NO X YES YES YES YES UK Male	USA Female 2005 NO YES X YES YES C.2251delGinsTAAA p.Val751* Canada Female	USA Female 2007 NO YES X YES YES C.2287delT p.Ser/639rofs*9 USA Male	The Netherlands Male 2007 YES NO X YES YES YES YES C.2310delT p.leu771* Australia Female	USA Male 2003 YES YES YES X YES YES YES Less Less Less Less Less Less Less Les	p. Arg 730* USA Male 2010 NO NO YES YES YES C: 2499_2499delTAAA
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Abbreviation: ADNP, activity-dependent neuroprotective protein. List of children with early deciduous tooth eruption (yellow), in bold, same/similar ADNP mutation (at the protein level, p.Tyr719*, p.Arg730*, p.Lys831llefs*81/p.Asn832Lysfs*80). All children are heterozygous for the mutations that are all considered *de novo*. The list was obtained from the Parent Support Group on a Facebook page (Materials and Methods).