

CORRECTION**OPEN**

Correction: Genetic aetiologies for childhood speech disorder: novel pathways co-expressed during brain development

Antony Kaspi, Michael S. Hildebrand , Victoria E. Jackson , Ruth Braden, Olivia van Reyk, Tegan Howell, Simone Debono, Mariana Lauretta, Lottie Morison, Matthew J. Coleman, Richard Webster, David Coman, Himanshu Goel, Mathew Wallis, Gabriel Dabscheck, Lilian Downie, Emma K. Baker, Bronwyn Parry-Fielder, Kirrie Ballard, Eva Harrold, Shaun Ziegenfusz, Mark F. Bennett , Erandee Robertson, Longfei Wang , Amber Boys, Simon E. Fisher , David J. Amor , Ingrid E. Scheffer , Melanie Bahlo and Angela T. Morgan

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Wording was altered for the discussion.

Only two probands (11%) with genetic diagnoses (*SETD1B* (ID10), *ERF* (ID18)) had CAS without co-occurring neurodevelopmental disorder diagnoses. One was aged 10;8 years, had average IQ and was attending a school for children with specific speech and language impairment. The other child was only 4;7 years and had not yet had IQ testing because no concerns had been raised by his treating physician, family or preschool teacher regarding his general learning ability; however, it is possible that other neurodevelopmental diagnoses could still be made into the future. These findings expand the spectrum of phenotypes associated with these conditions. *SETD1B* has been previously associated with epilepsy, intellectual disability and language delay, and *ERF*-related craniosynostosis syndrome often includes speech and language delay, learning difficulties or behavioural problems; however variable expressivity and incomplete penetrance have previously been observed [40].

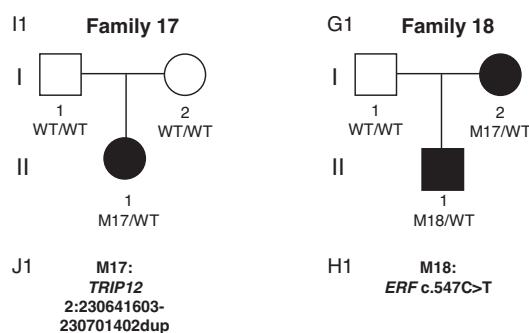
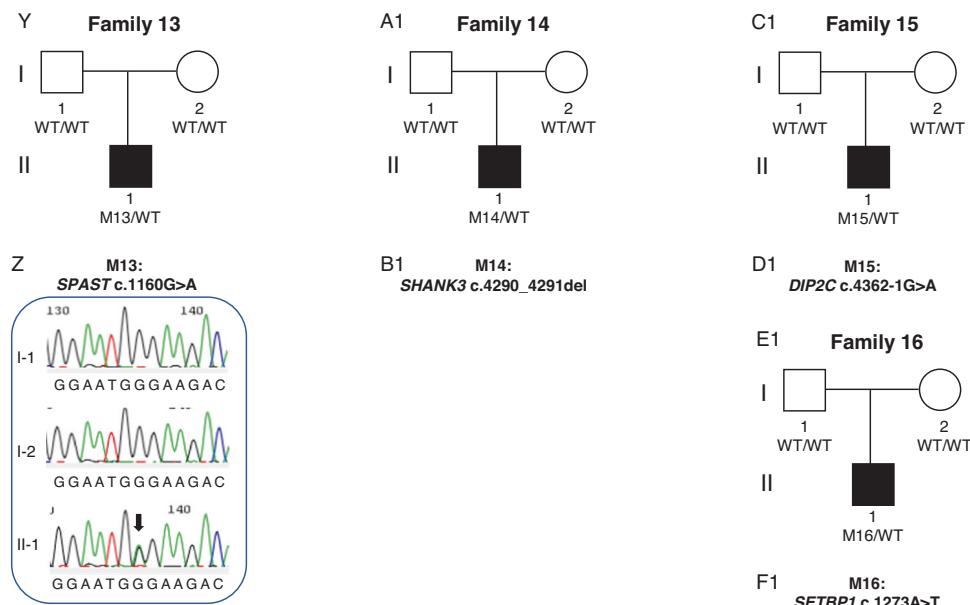
See attached files for table and figure changes.

Table 1

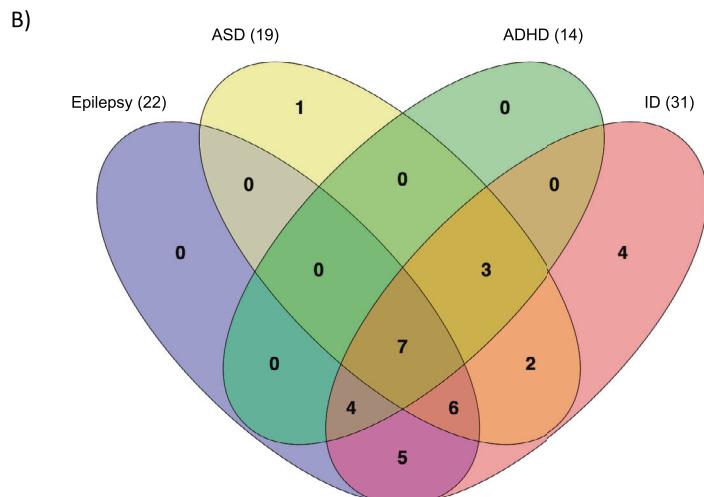
| | | | | | | | | | | | | | | |
|----|-----|---|-----------------|---------------|---|---|---|---|--|---|---|---|---|---|
| 17 | 4;6 | F | CAS, Dysarthria | <i>TRIP12</i> | Y | Y | N | N | N/A | N | N | N | N | N |
| 18 | 4;7 | M | CAS | <i>ERF</i> | N | N | N | N | CHIARI 1 Malformation Metopic craniostenosis | N | N | N | N | N |

Table 3a

| | | | | | | | | | | | |
|----|---|--------------------------|------------------------------|--------|-------------|---------|--------------------|--|---|--------------------------------|-------------------------------------|
| 17 | F | 2:230641603–230701402dup | <i>TRIP12</i> (NM_001348329) | 617752 | NA | NA | Exonic duplication | gnomADpLI = 1 | 0 | De novo | PVS1, P PM2, PI PP5 Cle 5 Pathog |
| 18 | M | 19:42753717 | <i>ERF</i> (ENST00000222329) | 617180 | c.547 C > T | p.R183* | Nonsense | gnomADpLI = 0.99 LoFtool = 0, 0.02;CADD = 35 | 0 | Inherited from affected Mother | PVS1, PM2, PI PP5 Cle 5 Pathog |

Fig. 3**Fig. 4**

| | Epilepsy | Intellectual disability | ASD/ASD features | ADHD | CP | SCZ |
|----------|----------|-------------------------|------------------|------|----|-----|
| ARHGEF9 | + | + | + | - | - | - |
| BRRP1 | + | + | - | - | - | - |
| CDH3+ | - | - | - | - | - | - |
| CDK13* | + | + | + | + | - | - |
| DDOX* | + | - | - | - | - | - |
| DIP2C | + | + | - | + | + | - |
| EEF3* | - | - | - | - | - | - |
| ERF | - | + | + | + | - | - |
| FOXP2 | - | + | - | - | - | - |
| GNAO1* | + | + | - | - | - | - |
| GNB1* | + | - | - | - | - | - |
| GRIN2A | + | - | - | - | - | - |
| HNRNPK | - | - | - | - | - | - |
| KAT5A+ | + | + | + | - | - | - |
| KOMSC | + | + | - | - | - | - |
| MIBS2* | - | + | - | - | - | - |
| MKL2+ | - | - | - | - | - | - |
| PFPI1A | + | - | - | - | - | - |
| POGZ* | - | + | + | - | - | - |
| PURA | + | + | - | - | - | - |
| REBFOX3 | + | - | - | - | - | - |
| SETD1P1* | + | - | - | - | - | - |
| SETD1A | + | - | - | - | - | - |
| SETD1B | + | - | - | - | - | - |
| SHANK3 | + | - | - | - | - | - |
| SPAST | - | - | - | - | - | - |
| TAKO2 | - | - | - | - | - | - |
| TNRG6B+ | - | + | + | - | - | - |
| TRIP12 | + | - | - | - | - | - |
| UPF2* | - | + | + | - | - | - |
| WDR5+ | - | + | - | - | - | - |
| ZBTB18 | + | + | - | - | - | - |
| ZNF1* | + | + | - | - | - | - |
| ZFHGX4+ | + | - | - | - | - | - |



The original article has been corrected.



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