513 38. Y. S. Kim *et al.*, Prevalence of autism spectrum disorders in a total population
514   sample. *Am J Psychiatry*. **168**, 904–912 (2011).

515 39. Q. Wei *et al.*, A Bayesian framework for de novo mutation calling in parents-
516   offspring trios. *Bioinformatics*. **31**, 1375–1381 (2015).

517 40. H. Zhao *et al.*, CrossMap: A versatile tool for coordinate conversion between
518   genome assemblies. *Bioinformatics*. **30**, 1006–1007 (2014).

519 41. A. Untergasser *et al.*, Primer3—new capabilities and interfaces. *Nucleic Acids*
520   *Res.* **40**, e115–e115 (2012).

521 42. J. A. Miller *et al.*, Transcriptional landscape of the prenatal human brain. *Nature*.
522   **508**, 199–206 (2014).

523 43. C. F. Wright *et al.*, Genetic diagnosis of developmental disorders in the DDD
524   study: a scalable analysis of genome-wide research data. *Lancet*. **385**, 1305–
525   1314 (2015).

526 44. A. Bayes *et al.*, Characterization of the proteome, diseases and evolution of the
527   human postsynaptic density. *Nat Neurosci*. **14**, 19–21 (2011).

528 45. C. E. Grant, T. L. Bailey, W. S. Noble, FIMO: Scanning for occurrences of a given
529   motif. *Bioinformatics*. **27**, 1017–1018 (2011).

530 46. S. Purcell *et al.*, PLINK: A Tool Set for Whole-Genome Association and
531   Population-Based Linkage Analyses. *Am. J. Hum. Genet.* **81**, 559–575 (2007).

532 47. J. Friedman, T. Hastie, R. Tibshirani, Regularization Paths for Generalized Linear
533   Models via Coordinate Descent. *J. Stat. Softw.* **33** (2010),
534   doi:10.18637/jss.v033.i01.

535 48. R. Tibshirani, Regression Selection and Shrinkage via the Lasso. *J. R. Stat. Soc.*
536   *B.* **58** (1996), pp. 267–288.

537 49. J. J. Michaelson *et al.*, Whole-Genome Sequencing in Autism Identifies Hot Spots
538   for De Novo Germline Mutation. *Cell*. **151**, 1431–1442 (2012).

539 50. D. F. Conrad *et al.*, Variation in genome-wide mutation rates within and between
540   human families. *Nat Genet*. **43**, 712–714 (2011).

541 51. A. Kong *et al.*, Rate of de novo mutations and the importance of father's age to
542   disease risk. *Nature*. **488**, 471–475 (2012).

543 52. R. Rahbari *et al.*, Timing, rates and spectra of human germline mutation. *Nat.*
544   *Genet.* **48**, 126–133 (2015).

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