

- Kilic G, Ismail Kucukali C, Orhan N, Ozkok E, Zengin A, Aydin M, Kara I. 2010. Are GRIK3 (T928G) gene variants in schizophrenia patients different from those in their first-degree relatives? *Psychiatry Res* 175:43–46.
- Kumar RA, Sudi J, Babatz TD, Brune CW, Oswald D, Yen M, Nowak NJ, Cook EH, Christian SL, Dobyns WB. 2010. A de novo 1p34.2 microdeletion identifies the synaptic vesicle gene RIMS3 as a novel candidate for autism. *J Med Genet* 47:81–90.
- Liu XZ, Yuan Y, Yan D, Ding EH, Ouyang XM, Fei Y, Tang W, Yuan H, Chang Q, Du LL, Zhang X, Wang G, Ahmad S, Kang DY, Lin X, Dai P. 2009. Digenic inheritance of non-syndromic deafness caused by mutations at the gap junction proteins Cx26 and Cx31. *Hum Genet* 125:53–62.
- Luo R, Sanders SJ, Tian Y, Voineagu I, Huang N, Chu SH, Klei L, Cai C, Ou J, Lowe JK, Hurles ME, Devlin B, State MW, Geschwind DH. 2012. Genome-wide transcriptome profiling reveals the functional impact of rare de novo and recurrent CNVs in autism spectrum disorders. *Am J Hum Genet* 91:38–55.
- Malhotra D, Sebat J. 2012. CNVs: Harbingers of a rare variant revolution in psychiatric genetics. *Cell* 148:1223–1241.
- McCarthy SE, Makarov V, Kirov G, Addington AM, McClellan J, Yoon S, Perkins DO, Dickel DE, Kusenda M, Krastoshevsky O, Krause V, Kumar RA, Grozeva D, Malhotra D, Walsh T, Zackai EH, Kaplan P, Ganesh J, Krantz ID, Spinner NB, Rocanova P, Bhandari A, Pavon K, Lakshmi B, Leotta A, Kendall J, Lee YH, Vacic V, Gary S, Iakoucheva LM, Crow TJ, Christian SL, Lieberman JA, Stroup TS, Lehtimäki T, Puura K, Halderman-Englert C, Pearl J, Goodell M, Willour VL, Derosse P, Steele J, Kassem L, Wolff J, Chitkara N, McMahon FJ, Malhotra AK, Potash JB, Schulze TG, Nothen MM, Cichon S, Rietschel M, Leibenluft E, Kustanovich V, Lajonchere CM, Sutcliffe JS, Skuse D, Gill M, Gallagher L, Mendell NR. Wellcome Trust Case Control C. Craddock N, Owen MJ, O'Donovan MC, Shaikh TH, Susser E, Delisi LE, Sullivan PF, Deutsch CK, Rapoport J, Levy DL, King MC, Sebat J. 2009. Microduplications of 16p11.2 are associated with schizophrenia. *Nat Genet* 41:1223–1227.
- Motazacker MM, Rost BR, Hucho T, Garshasbi M, Kahrizi K, Ullmann R, Abedini SS, Nieh SE, Amini SH, Goswami C, Tzschach A, Jensen LR, Schmitz D, Ropers HH, Najmabadi H, Kuss AW. 2007. A defect in the ionotropic glutamate receptor 6 gene (GRIK2) is associated with autosomal recessive mental retardation. *Am J Hum Genet* 81:792–798.
- Niciu MJ, Kelmendi B, Sanacora G. 2012. Overview of glutamatergic neurotransmission in the nervous system. *Pharmacol Biochem Behav* 100:656–664.
- Perrais D, Coussen F, Mulle C. 2009. Atypical functional properties of GluK3-containing kainate receptors. *J Neurosci* 29:15499–15510.
- Pickard BS, Malloy MP, Christoforou A, Thomson PA, Evans KL, Morris SW, Hampson M, Porteous DJ, Blackwood DH, Muir WJ. 2006. Cytogenetic and genetic evidence supports a role for the kainate-type glutamate receptor gene, GRIK4, in schizophrenia and bipolar disorder. *Mol Psychiatry* 11:847–857.
- Pinheiro PS, Perrais D, Coussen F, Barhanin J, Bettler B, Mann JR, Malva JO, Heinemann SF, Mulle C. 2007. GluR7 is an essential subunit of presynaptic kainate autoreceptors at hippocampal mossy fiber synapses. *Proc Natl Acad Sci USA* 104:12181–12186.
- Sampaio AS, Fagerness J, Crane J, Leboyer M, Delorme R, Pauls DL, Stewart SE. 2011. Association between polymorphisms in GRIK2 gene and obsessive-compulsive disorder: A family-based study. *CNS Neurosci Ther* 17:141–147.
- Schiffer HH, Heinemann SF. 2007. Association of the human kainate receptor GluR7 gene (GRIK3) with recurrent major depressive disorder. *Am J Med Genet B Neuropsychiatr Genet* 144B:20–26.
- Schiffer HH, Swanson GT, Heinemann SF. 1997. Rat GluR7 and a carboxy-terminal splice variant, GluR7b, are functional kainate receptor subunits with a low sensitivity to glutamate. *Neuron* 19:1141–1146.
- Schmitz D, Mellor J, Nicoll RA. 2001. Presynaptic kainate receptor mediation of frequency facilitation at hippocampal mossy fiber synapses. *Science* 291:1972–1976.
- Stawski P, Janovjak H, Trauner D. 2010. Pharmacology of ionotropic glutamate receptors: A structural perspective. *Bioorg Med Chem* 18:7759–7772.
- Vermeer S, Koolen DA, Visser G, Brackel HJ, van der Burgt I, de Leeuw N, Willemsen MA, Sijm EA, Pfuendt R, de Vries BB. 2007. A novel microdeletion in 1(p34.2p34.3), involving the SLC2A1 (GLUT1) gene, and severe delayed development. *Dev Med Child Neurol* 49:380–384.
- Weiss LA, Shen Y, Korn JM, Arking DE, Miller DT, Fossdal R, Saemundsen E, Stefansson H, Ferreira MA, Green T, Platt OS, Ruderfer DM, Walsh CA, Altshuler D, Chakravarti A, Tanzi RE, Stefansson K, Santangelo SL, Gusella JF, Sklar P, Wu BL, Daly MJ, Autism C. 2008. Association between microdeletion and microduplication at 16p11.2 and autism. *N Engl J Med* 358:667–675.
- Xia JH, Liu CY, Tang BS, Pan Q, Huang L, Dai HP, Zhang BR, Xie W, Hu DX, Zheng D, Shi XL, Wang DA, Xia K, Yu KP, Liao XD, Feng Y, Yang YF, Xiao JY, Xie DH, Huang JZ. 1998. Mutations in the gene encoding gap junction protein beta-3 associated with autosomal dominant hearing impairment. *Nat Genet* 20:370–373.
- Yosifova A, Mushiroda T, Kubo M, Takahashi A, Kamatani Y, Kamatani N, Stoianov D, Vazharova R, Karachanak S, Zaharieva I, Dimova I, Hadjidekova S, Milanova V, Madjirova N, Gerdjikov I, Tolev T, Poryazova N, O'Donovan MC, Owen MJ, Kirov G, Toncheva D, Nakamura Y. 2011. Genome-wide association study on bipolar disorder in the Bulgarian population. *Genes Brain Behav* 10:789–797.

