CORRIGENDUM

Association and linkage analyses of RGS4 polymorphisms in schizophrenia

Kodavali V. Chowdari, Karoly Mirnics, Prachi Semwal, Joel Wood, Elizabeth Lawrence, Triptish Bhatia, Smita N. Deshpande, B.K. Thelma, Robert E. Ferrell, Frank A. Middleton, Bernie Devlin, Pat Levitt, David A. Lewis and Vishwajit L. Nimgaonkar

Human Molecular Genetics 11, 1373–1380 (2002)

The original manuscript reported on association and linkage between polymorphisms of the RGS4 gene and schizophrenia. The primary analyses suggested association and linkage with schizophrenia. Secondary analyses using a sample of patients with bipolar I disorder (BD1) suggested significant overall differences in estimated RGS4 haplotype frequency between the BD1 cases and two groups of population based controls.

We recently noted a data entry error restricted to genotypes for SNP7 among the BD1 cases and their parents. The corrections presented below have no bearing on the original reported associations with schizophrenia. They clarify a puzzling variation noted earlier between the BD1 and schizophrenia samples.

Unlike the prior results, the revised genotypes now show no significant haplotype frequency differences between the BD1 cases and either group of controls. The initial and the revised haplotype distributions are provided (Table 2R, available online at http://www.pitt.edu/~nimga/research/RGS4). Unchanged values for the population based controls, listed in Table 2 in the original paper are also presented for comparison.

Due to the revisions, the estimates for linkage disequilibrium with other RGS4 SNPs are now larger (see revised data, Table 3R online at http://www.pitt.edu/~nimga/research/RGS4). Our estimates for transmission distortion in the BD1 sample using TRANSMIT software are lower ($\chi^2 = 12.94$, 10 df, $P = 0.2269$). However, the overall probability for biased parental transmission of haplotypes bearing SNPs 1, 4, 7 and 18 among the family-based schizophrenia and the bipolar samples continues to be significant ($P = 0.0033$).

The authors regret this error.