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His core work has been on common mental disorders such as depression and manic depression. He and his team are currently working (with collaborators) on mood and anxiety disorders in the form of GWAS, linkage and whole genome sequencing studies as well as methods for GWAS bioinformatics and pathway analyses of psychiatric disorders and miRNA.

Some key papers:

Pedroso I, ... Breen G. Common genetic variants and gene-expression changes associated with bipolar disorder are over-represented in brain signaling pathway genes. *Biol Psychiatry*. 2012 Aug 15;72(4):311-7. Epub 2012 Apr 12.

Major Depressive Disorder Working Group of the Psychiatric GWAS Consortium. A mega-analysis of genome-wide association studies for major depressive disorder. *Mol Psychiatry*. 2012 Apr 3. doi: 10.1038/mp.2012.21.

Breen, G et al. 2011a. Replication of association of 3p21.1 with susceptibility to bipolar disorder but not major depression. *Nature Genetics*, 43(1): 3-5.

Breen, G et al.. 2011b. A Genome-Wide Significant Linkage for Severe Depression on Chromosome 3: The Depression Network Study. *American Journal of Psychiatry*, 168(8): 840-847.

Guindalini C, ..., Breen G: A dopamine transporter gene functional variant associated with cocaine abuse in a Brazilian sample. *PNAS* 2006; 103(12):4552-4557