Genome-wide pathway analysis to decipher the shared genetic basis of neuropsychiatric disorders

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ABSTRACT: The psychiatric genetics field has seen a landmark success in the identification of risk genes, made possible by international collaborative efforts through the Psychiatric Genomics Consortium (PGC). Furthermore, recent PGC studies have presented compelling evidence that genetic risk at individual genetic loci as well as biological mechanisms are shared across major psychiatric disorders. This seminar will review a whole-genome-based pathway analysis framework that can decipher the shared genetic basis of etiologically related disorders and illustrate our findings from the cohorts of over 60,000 participants from the Psychiatric Genomics Consortium.