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Dissecting the Systems Biology of vulnerability and resilience to stress

Abstract:

Functional genomics was used to dissect functional epigenetic and cell-type-specific regulatory elements and risk loci underlying the genetics of stress-related mental disorders, such as PTSD, and then translational research was conducted using cell culture and animal models to validate causal gene and variants. Finally, “big data” analytics and machine learning was used to investigate genotype-to-phenotype relationships related to complex neuropsychiatric traits to gain a deeper understanding of the individual differences in the expression of symptoms.