

Title: Statistical methods to investigate the parental role in Autism Spectrum Disorder

Abstract:

Autism Spectrum Disorder (ASD) is characterised by patterns of repetitive behaviours and deficits in language and social behaviour. ASD is considered to be heritable neurodevelopmental disorders but in the majority of ASD cases, the genetic cause cannot be identified. By examining the genetic makeup of the parents of ASD affected offspring and their paired contribution to the genetics of their offspring, we shed some light on the genetics of ASD. There are two main approaches in which we investigated this parental contribution and we undertook these investigations in two large ASD genetic datasets.