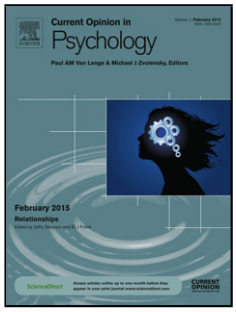

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The state of research on the genetics of autism spectrum disorder: methodological, clinical and conceptual progress

Short Title: Genetics in ASD

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The state of research on the genetics of autism spectrum disorder: methodological, clinical and conceptual progress

Highlights

- Heterogeneity in autism spectrum disorder presents a challenge to clinical care and research.
- Genetic sequencing indicates disruptive gene variants and CNVs account for over 30% of ASD cases.
- A genotype-first approach offers scientific, clinical and psychosocial benefits.
- Whole genome sequencing promises further advances in identifying genetic causes of ASD.
- Advancements in genomic sequencing precipitate progress toward precision medicine care for ASD.