

Genetic and Environmental risk factors of Schizophrenia and Autism

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Abstract

Declaration

Acknowledgements

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Introduction

Chapter 1

Literature Review

Heritability and Risk Prediction in Schizophrenia and Autism

Topic	Content
Heritability Estimation	Quantitative Trait Polygenic Traits Oligogenic Traits Mendelian Traits? Rare Variants Extreme Phenotype Selection
Heritability estimation	Case Control Studies WTCCC PGC Schizophrenia Autism
Developmental network	Schizophrenia Autism Combine WGCNA + SHREK Compare and contrast schizophrenia and autism
Risk Prediction	Linkage disequilibrium Things that I have proposed Shrinkage Tweetie

Chapter 2

Heritability Estimation - Quantitative Trait

2.1 Polygenic Traits

2.2 Oligogenic traits

2.3 Rare Variants

2.4 Extreme Phenotype Selection

Chapter 3

Case Control Studies

3.1 Polygenic Traits

3.2 Oligogenic traits

3.3 Rare Variants

Chapter 4

Risk Prediction

4.1 Correcting for Linkage Disequilibrium

Appendix