

# isoTWAS Filtering Analysis Report

Analysis of Mitchell's Filtering Parameters

Focus: Sig\_isoTWAS\_developmental.csv

**PRIMARY METRIC: Screening Adjusted P-values**

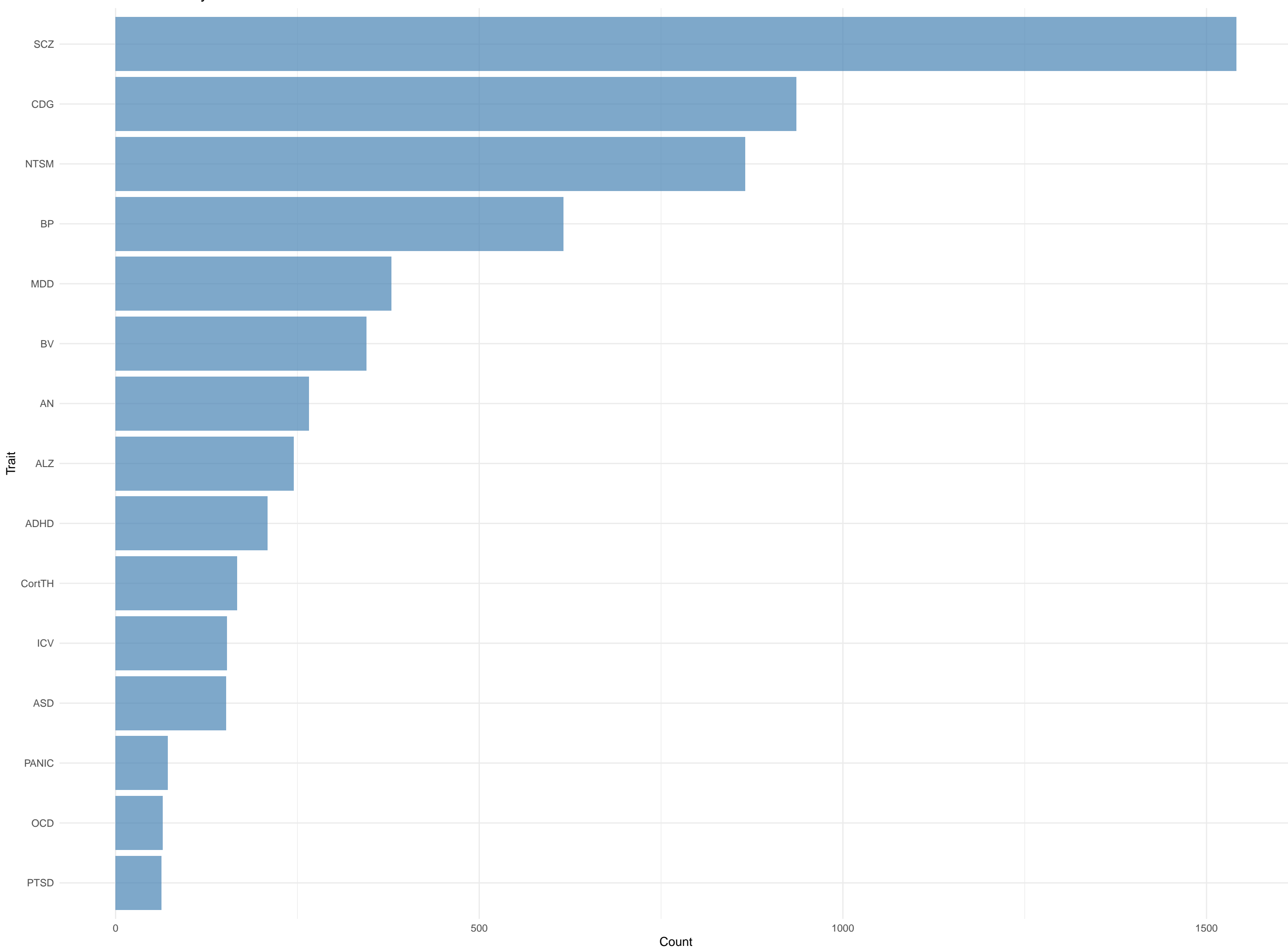
(Accounts for Multiple Hypothesis Testing)

Generated on: 2025-09-08

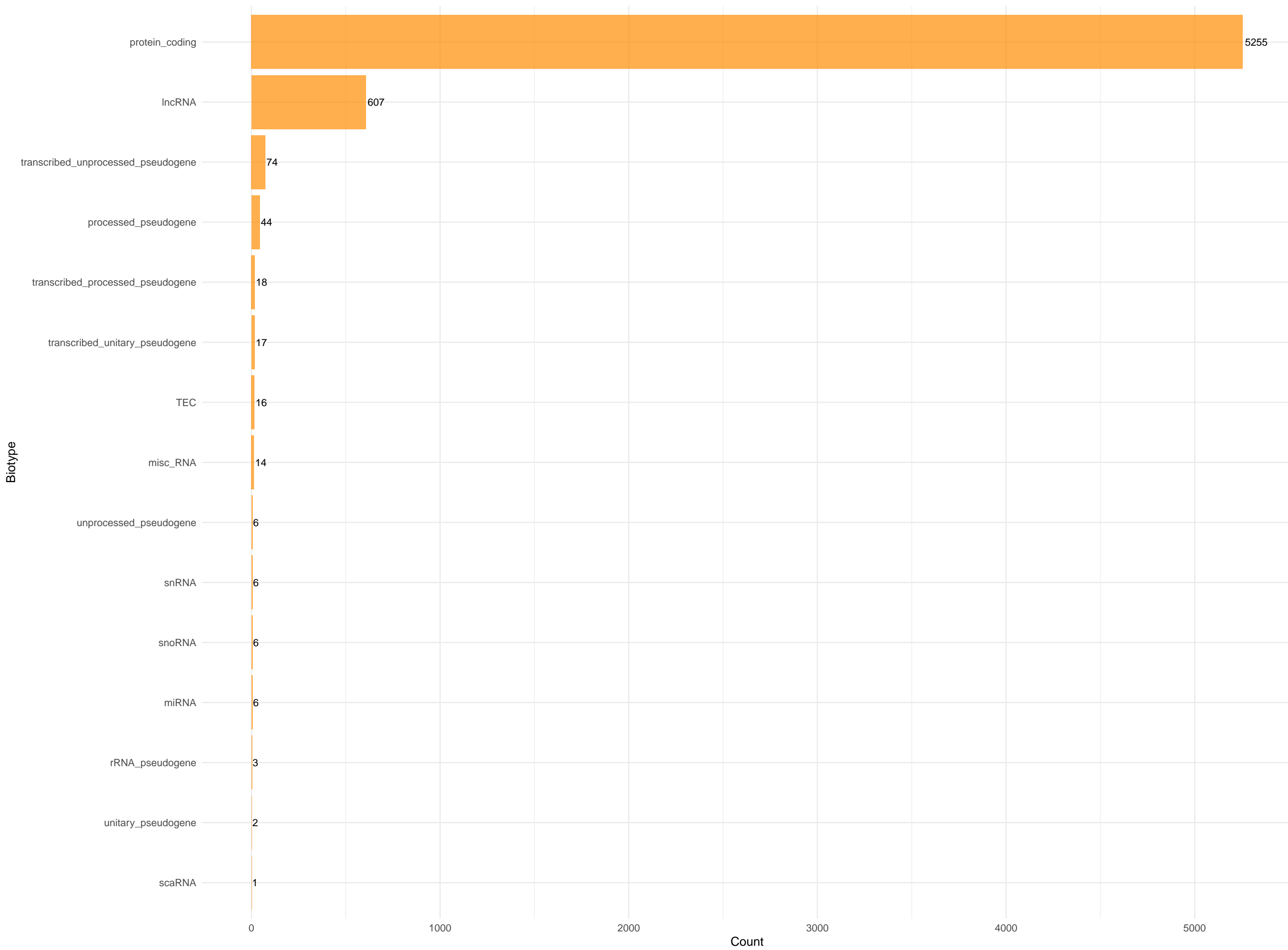
Overall isoTWAS Summary Statistics

Metric	Value
Trait	All Traits
Total Records	6075
=== PRIMARY VIOLATIONS ===	
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0
=== REFERENCE METRICS ===	
Raw P >= 0.05	0
Screen P >= 0.05	0
=== GWAS ANALYSIS ===	
GWAS P < 5e-8 (genome-wide)	1207
GWAS P >= 5e-8	4868

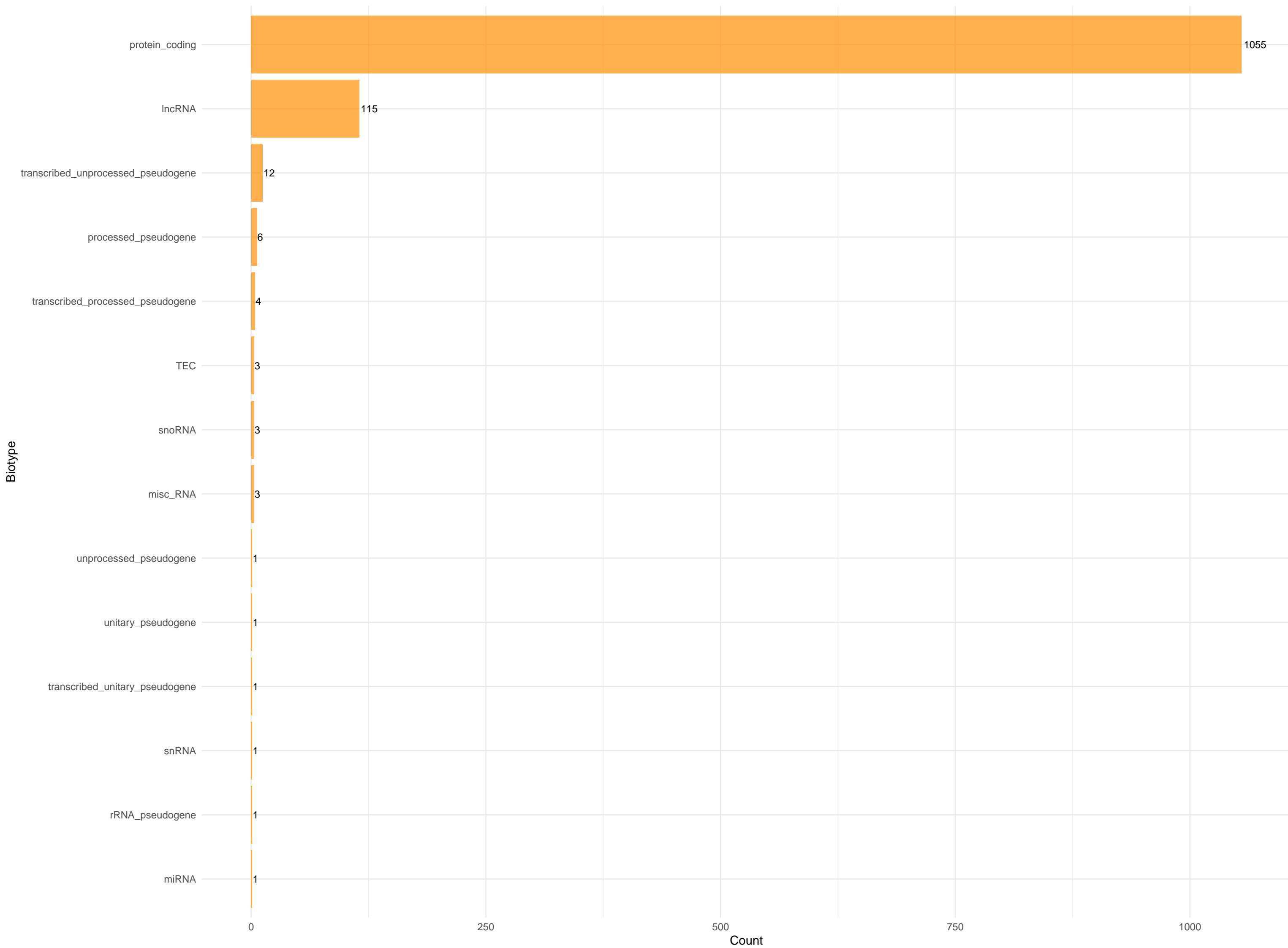
isoTWAS Records by Disease/Trait



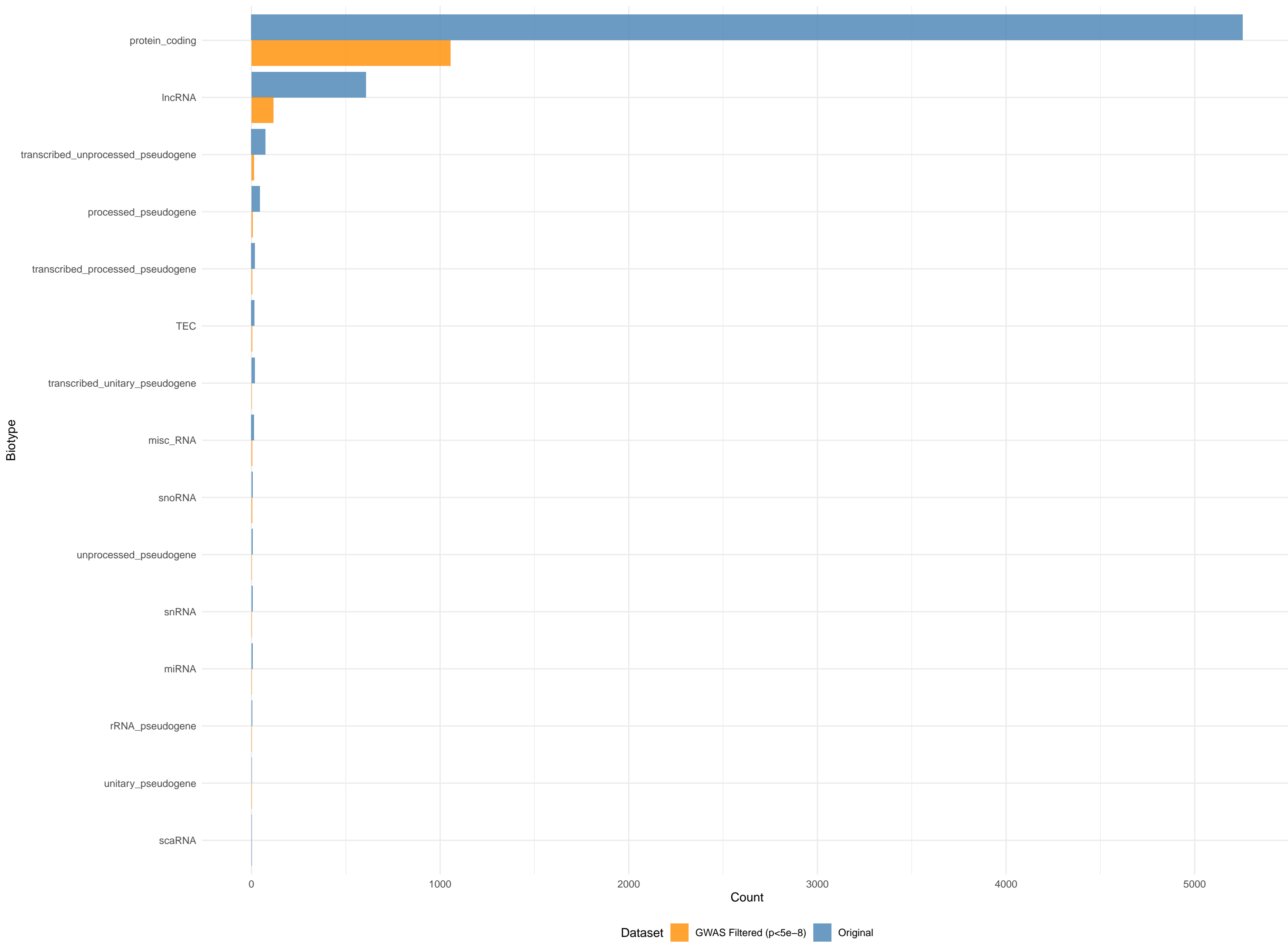
Original Dataset: Biotype Distribution



GWAS Filtered ( $p < 5e-8$ ): Biotype Distribution



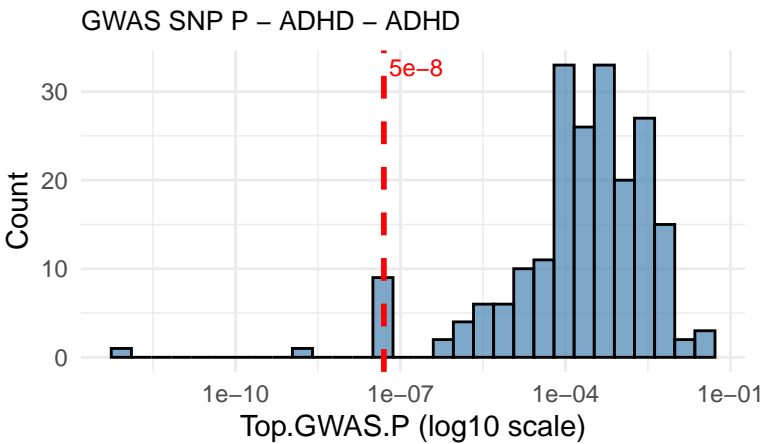
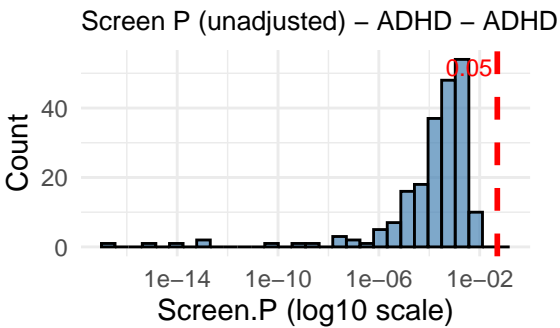
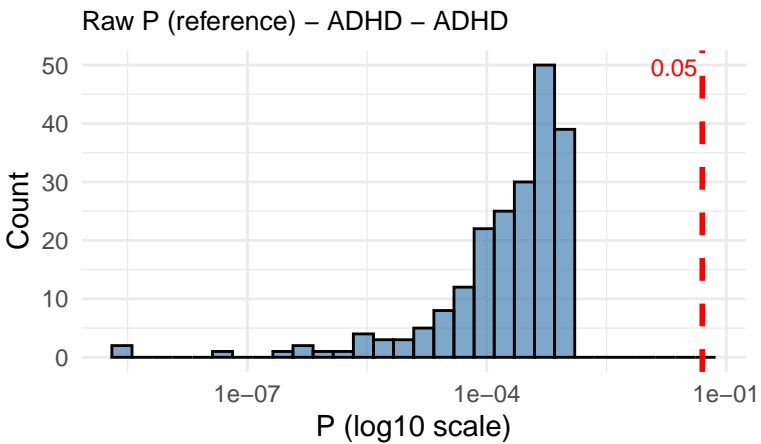
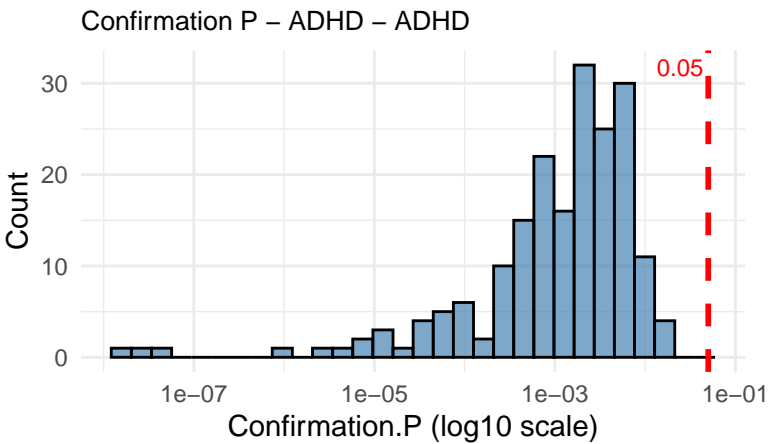
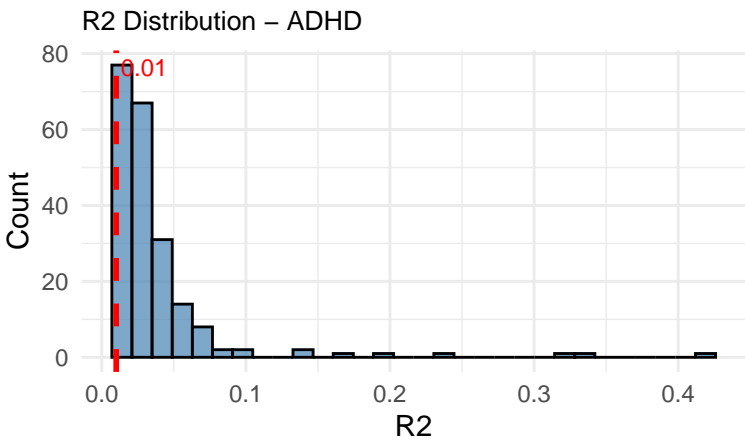
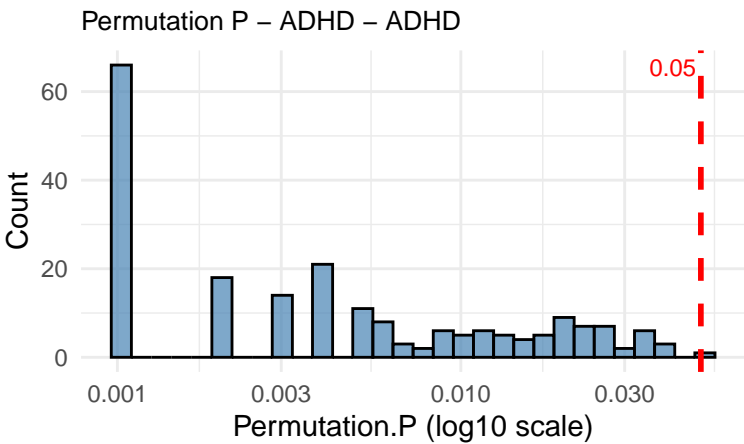
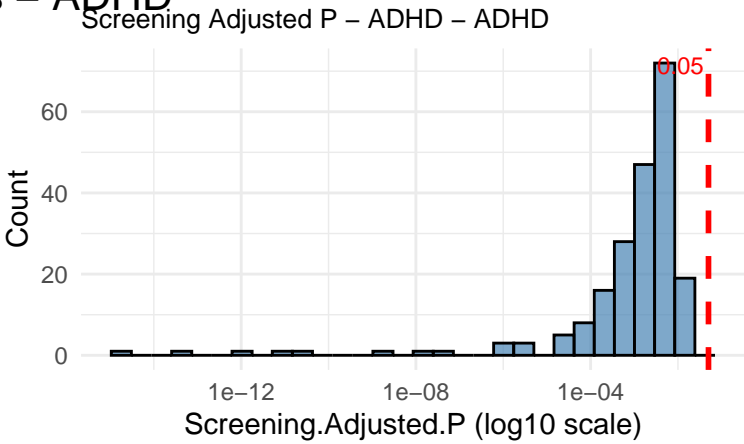
Biotype Distribution: Before vs After GWAS Filtering



isoTWAS Analysis – ADHD

Filtering Summary

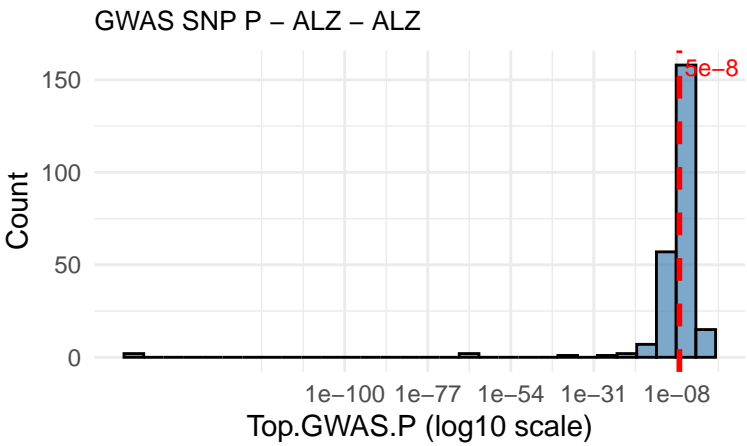
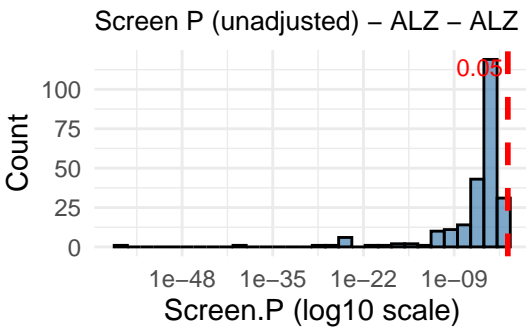
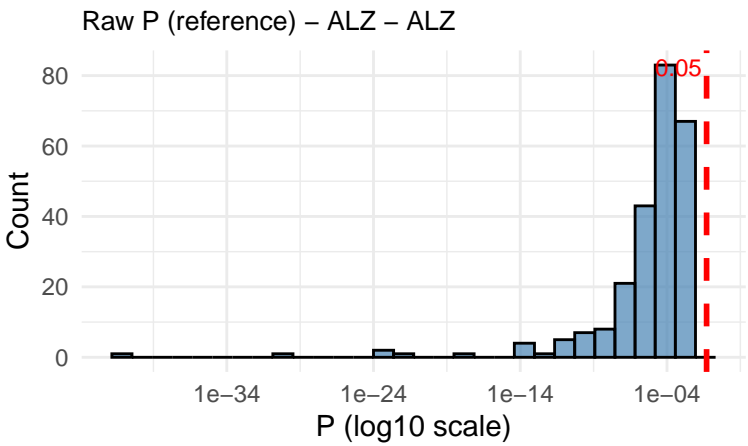
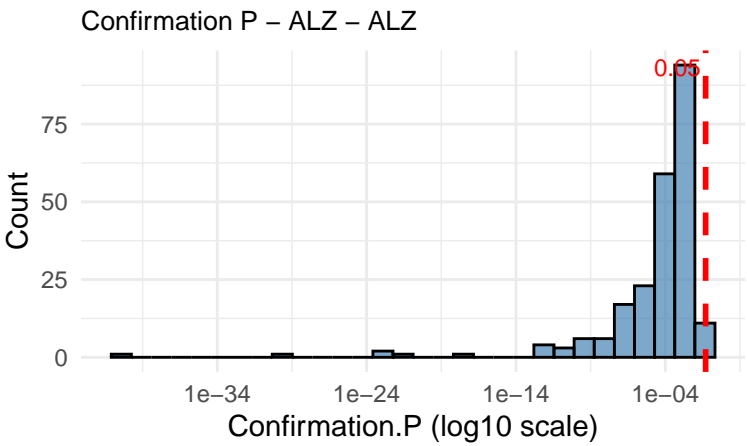
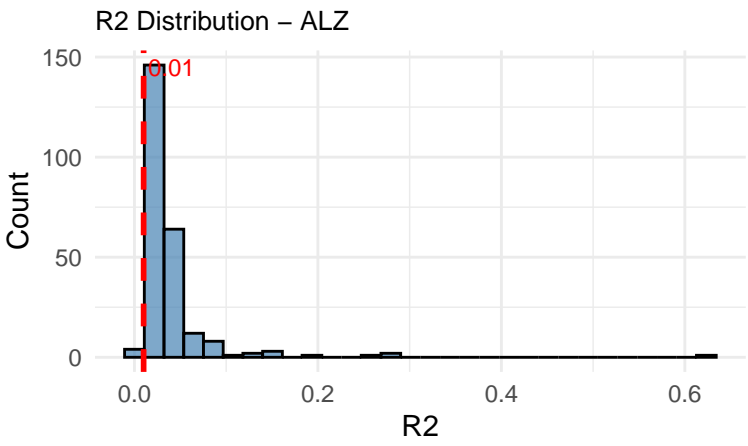
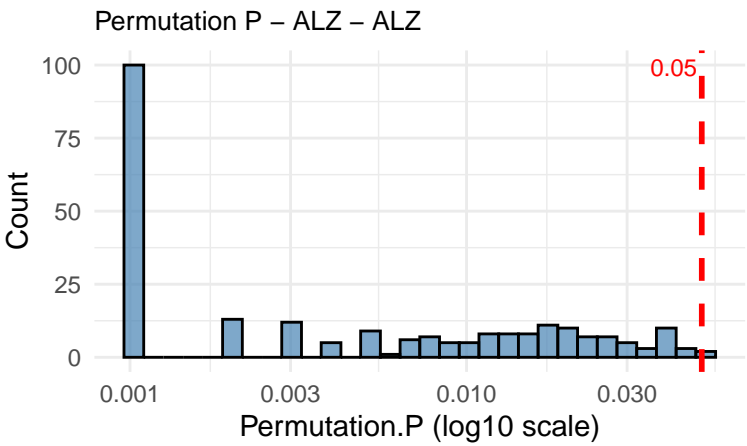
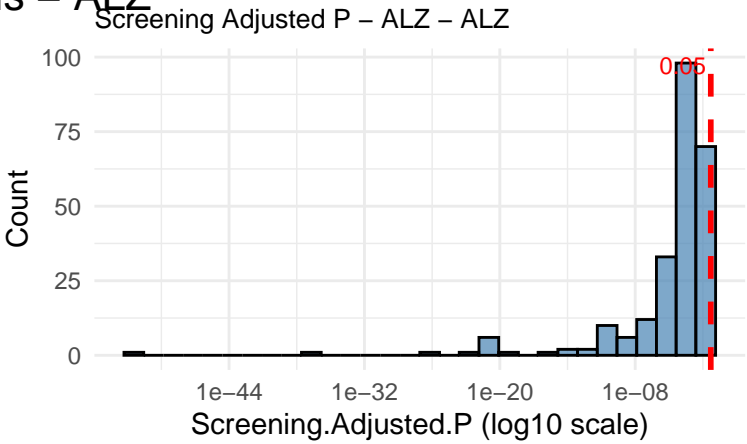
Metric	Value
Trait	ADHD
Total Records	209
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – ALZ

Filtering Summary

Metric	Value
Trait	ALZ
Total Records	245
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0

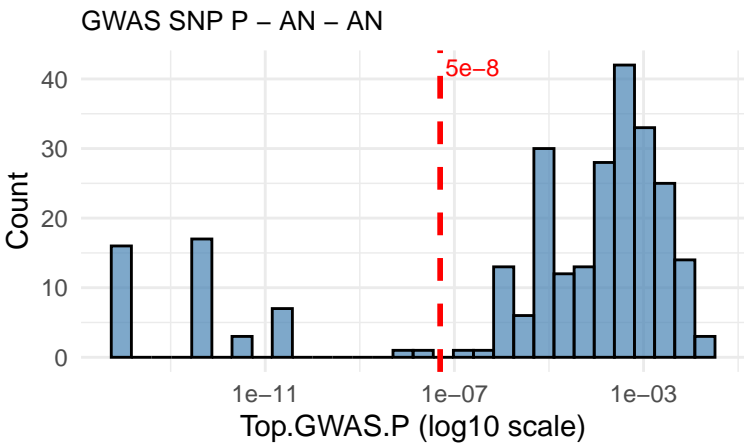
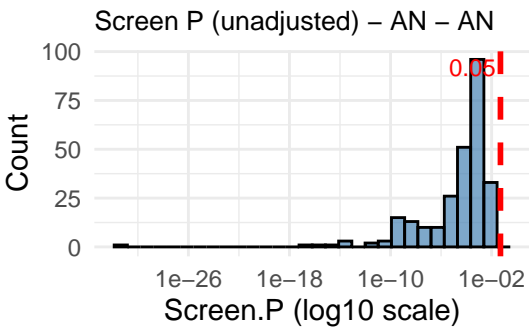
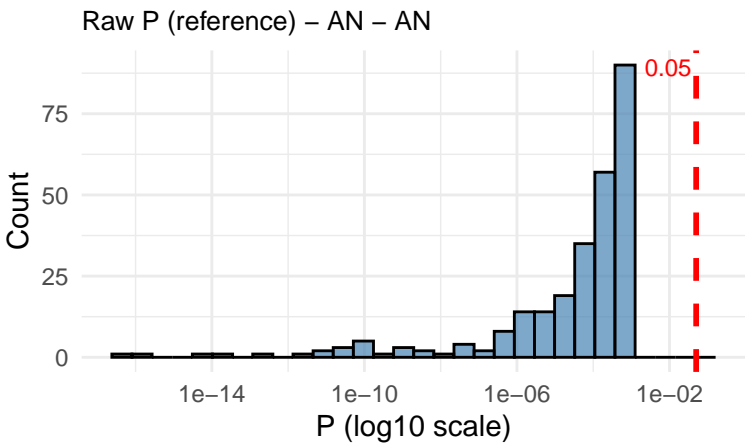
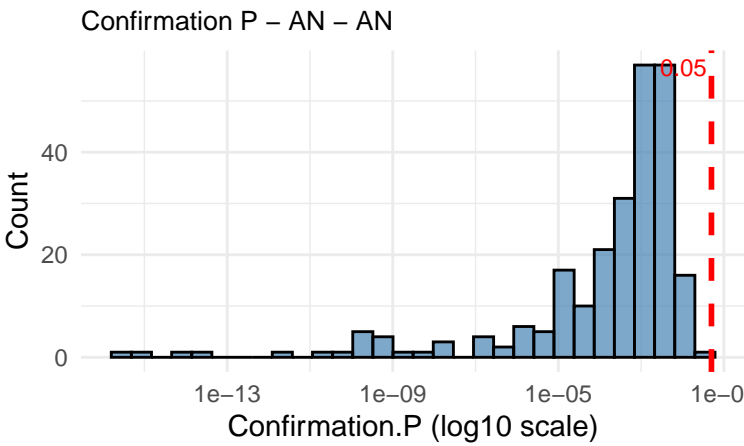
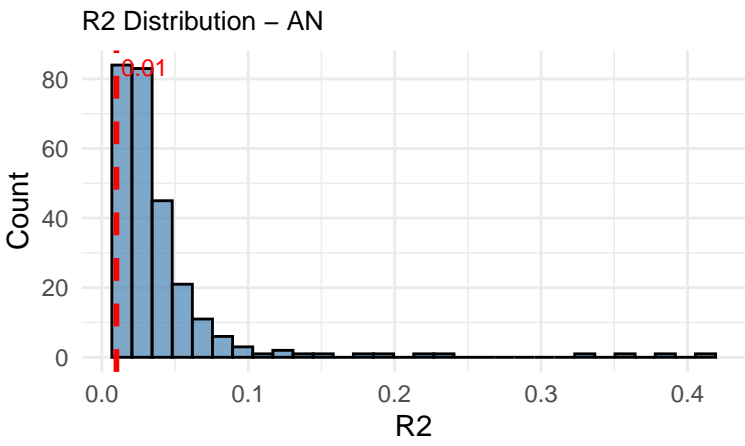
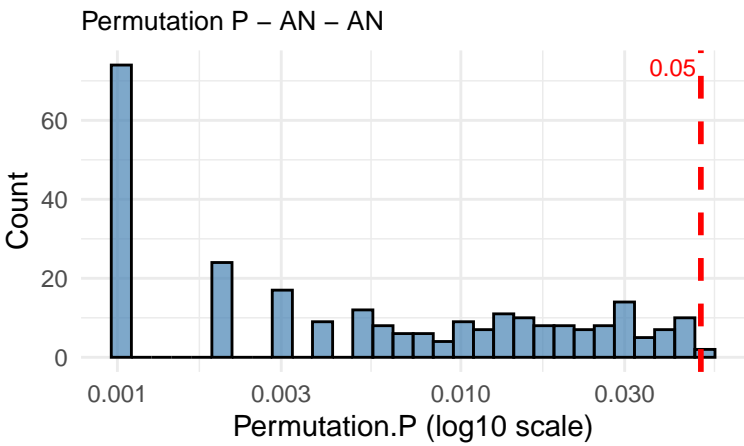
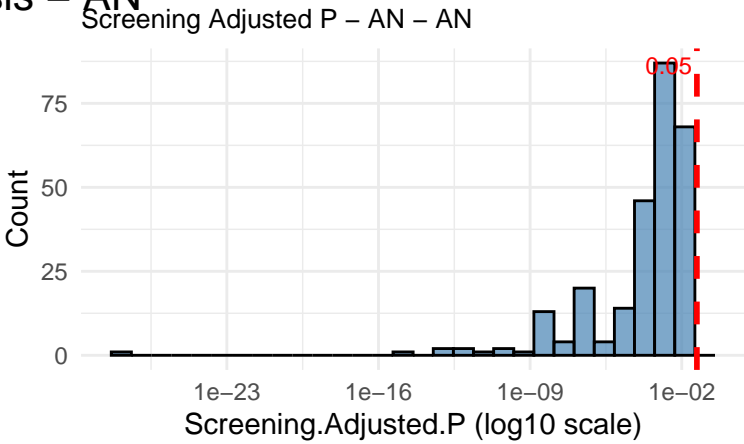




isoTWAS Analysis – AN

Filtering Summary

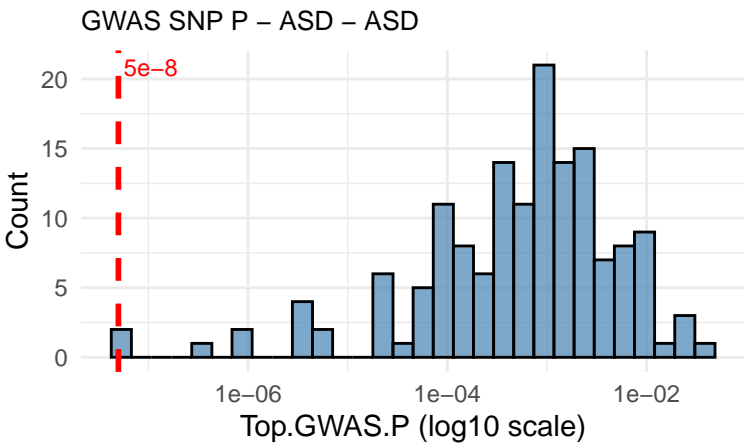
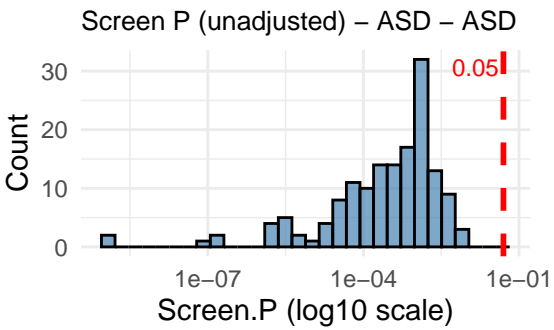
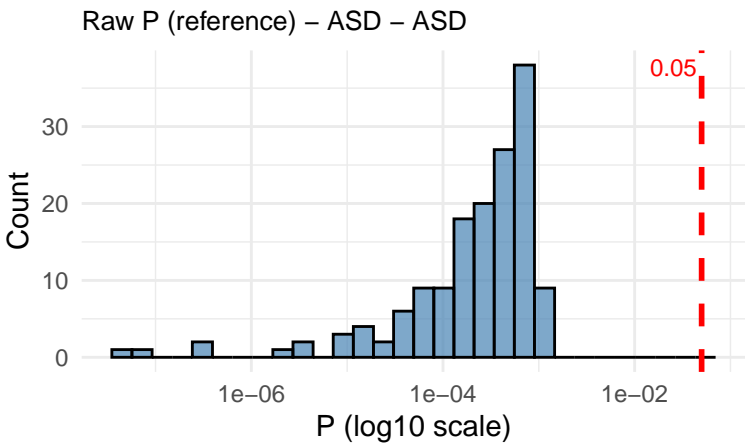
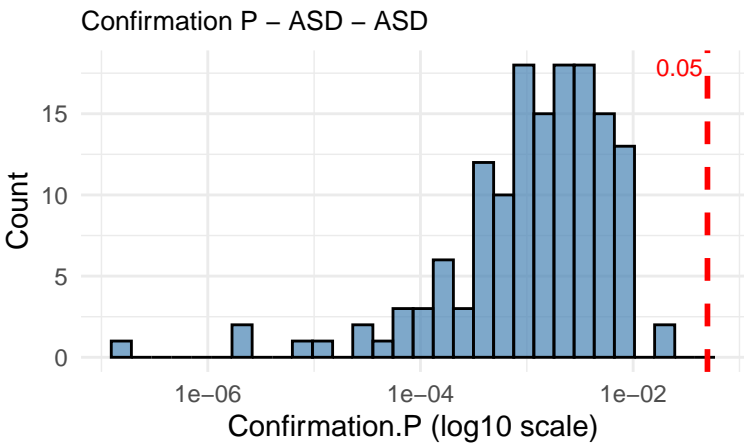
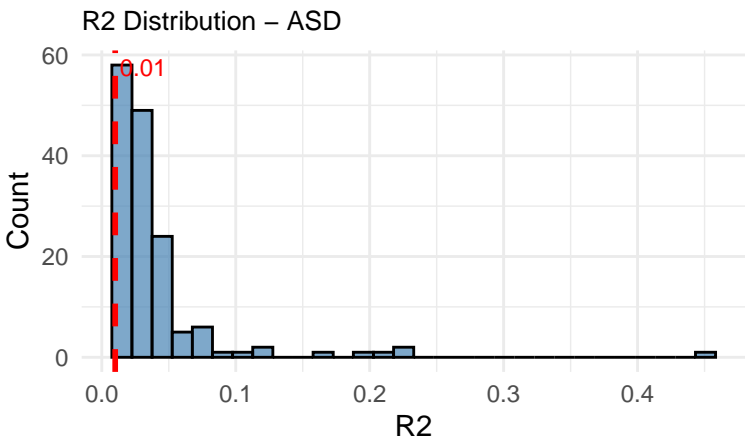
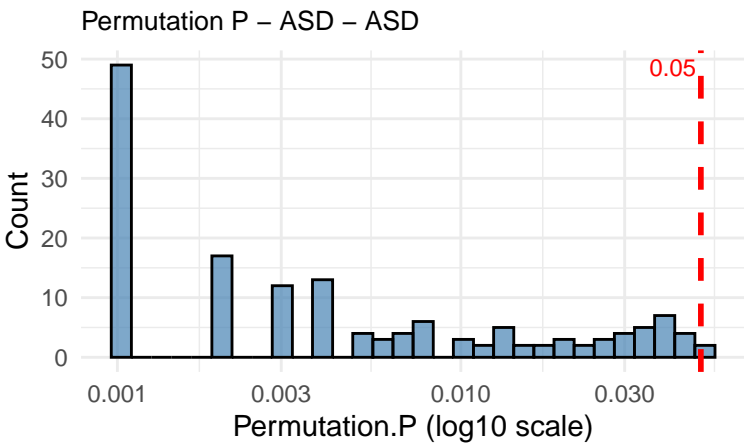
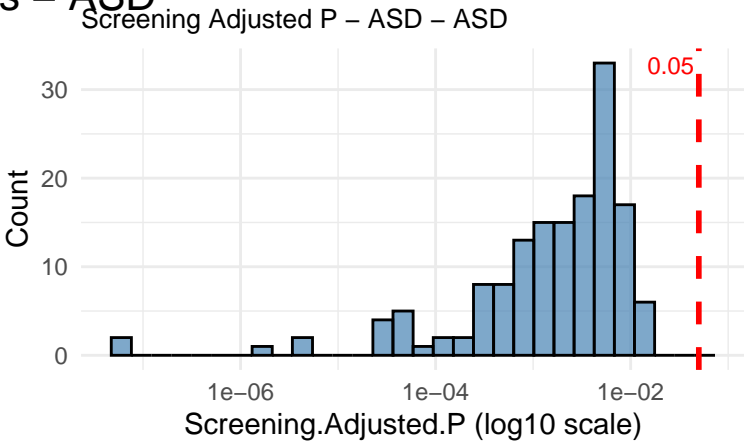
Metric	Value
Trait	AN
Total Records	266
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – ASD

Filtering Summary

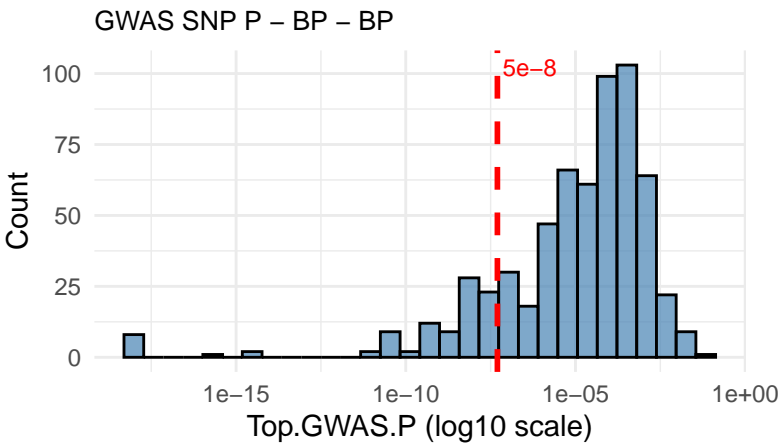
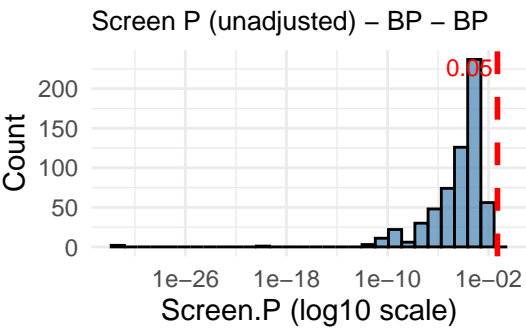
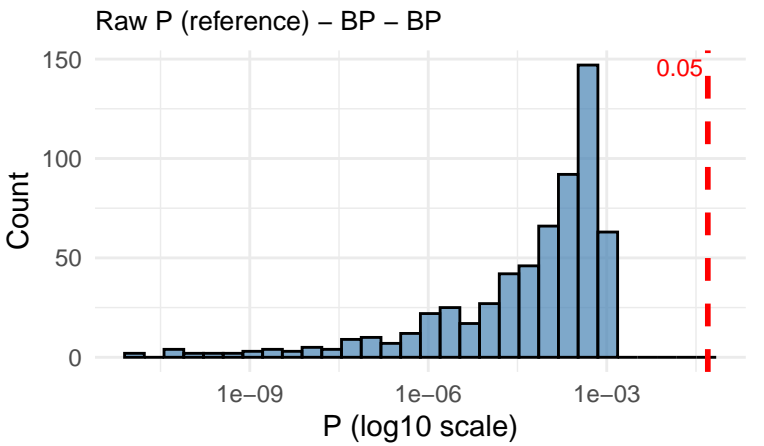
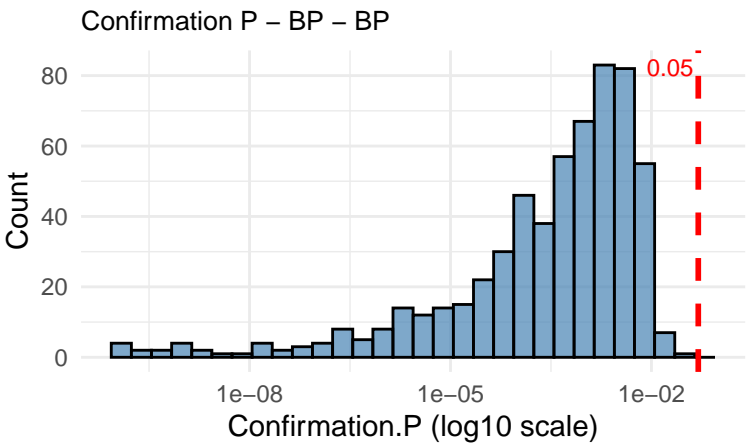
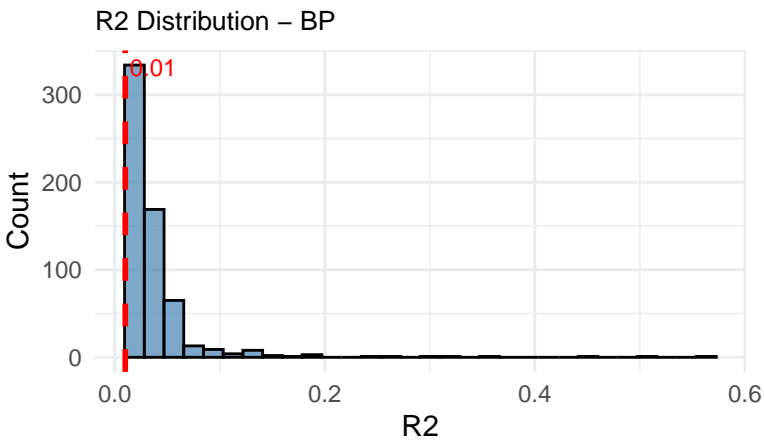
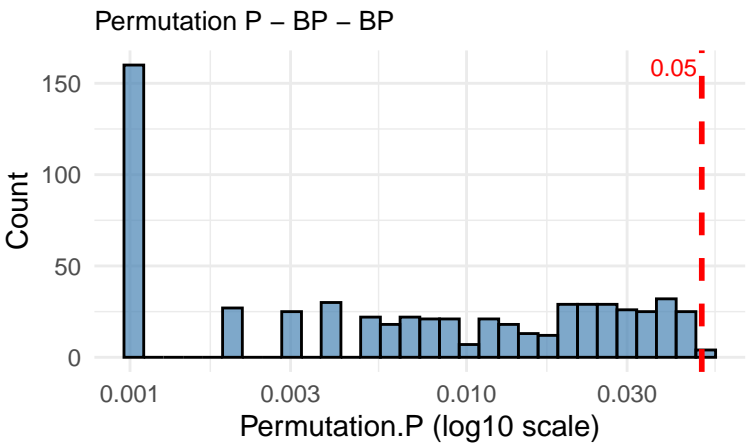
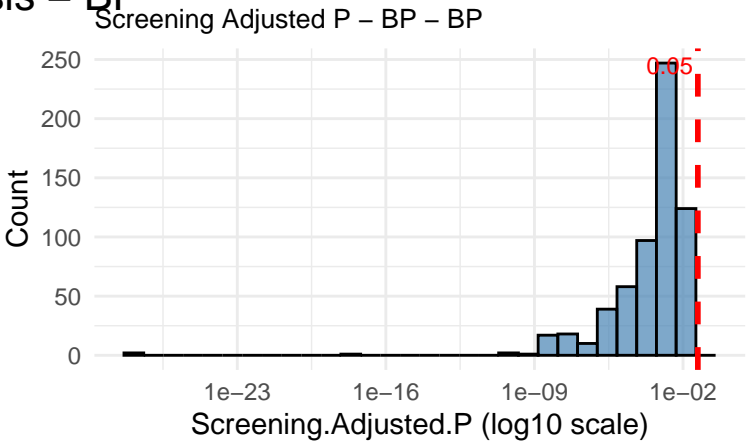
Metric	Value
Trait	ASD
Total Records	152
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – BP

Filtering Summary

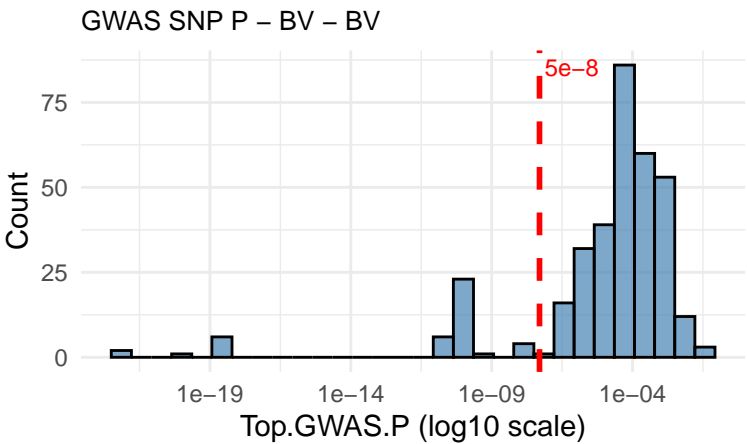
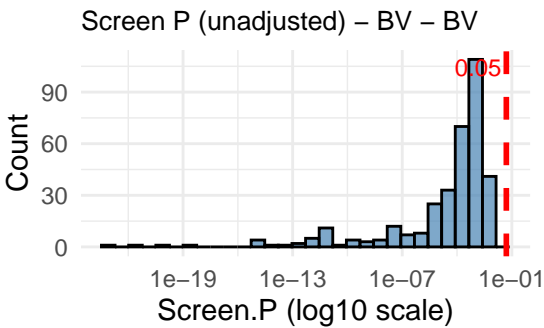
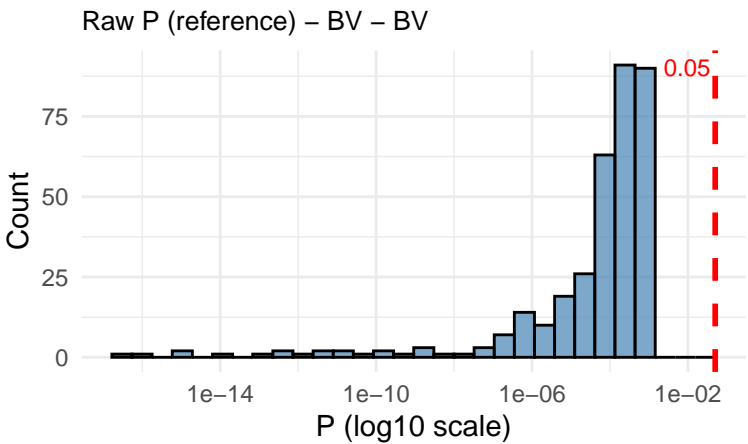
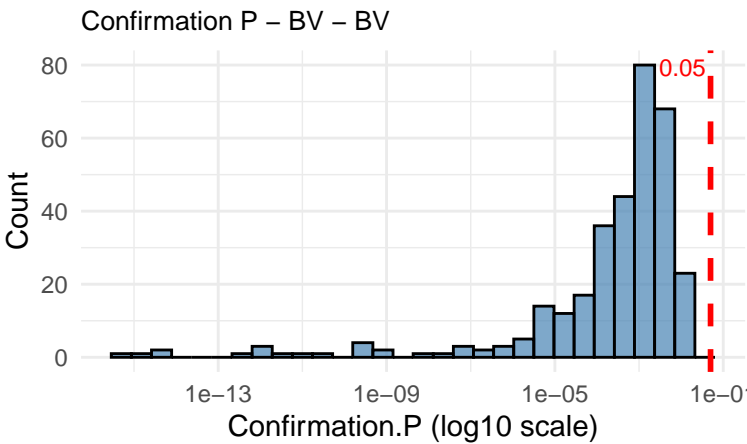
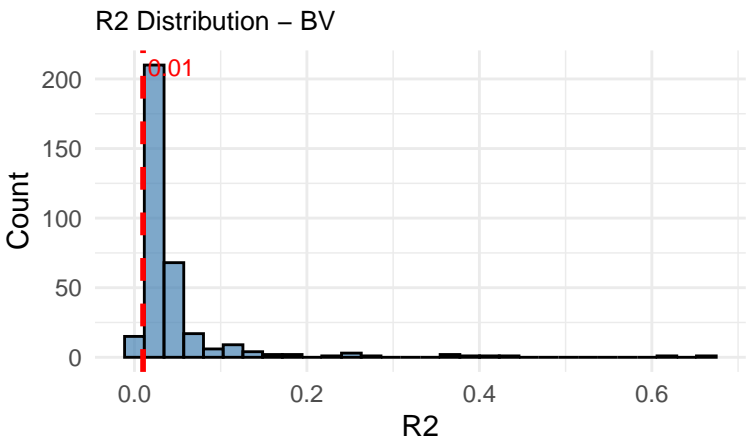
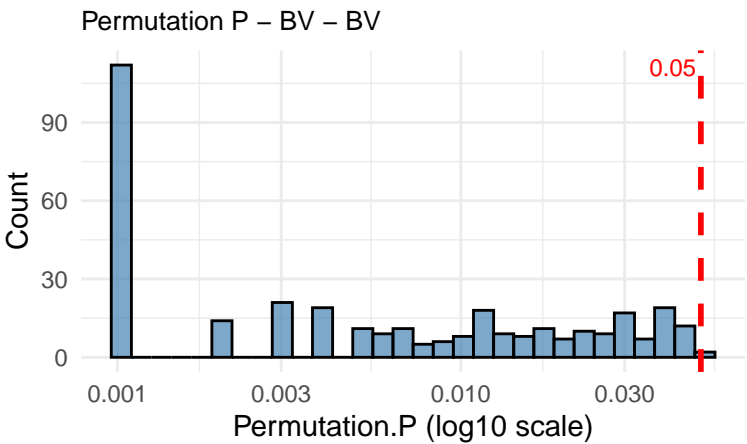
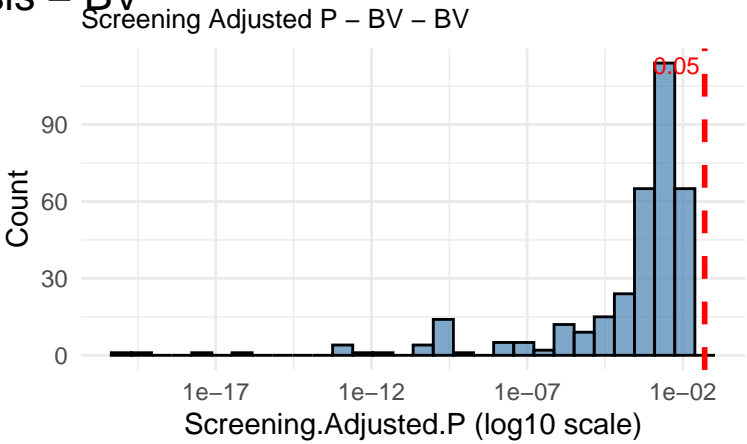
Metric	Value
Trait	BP
Total Records	616
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – BV

Filtering Summary

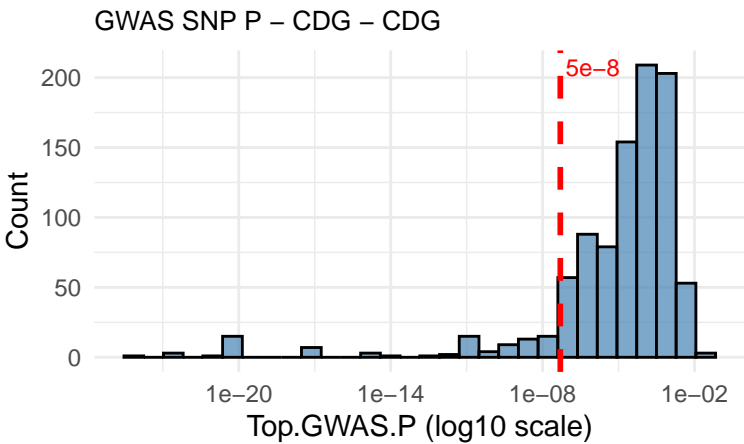
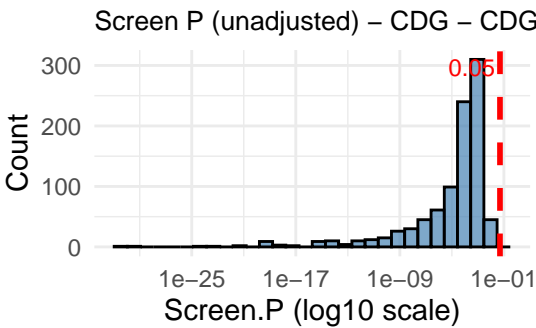
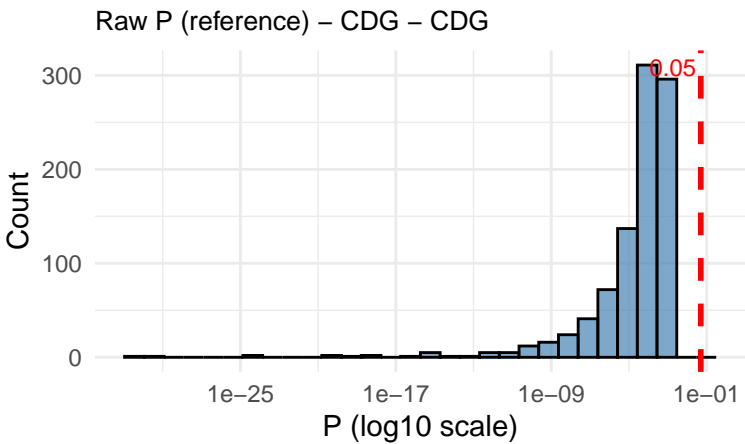
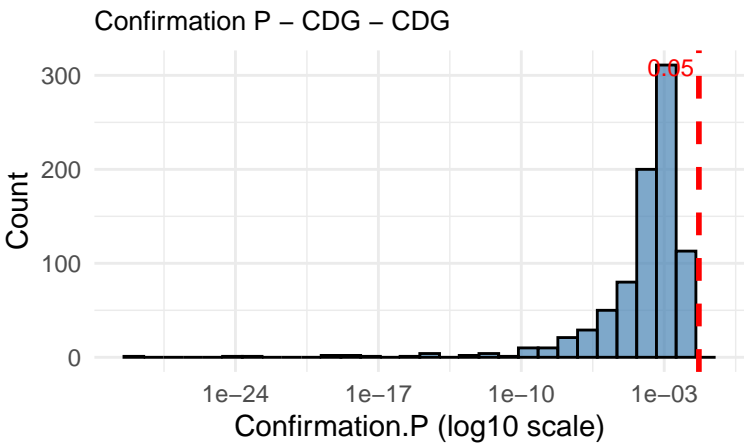
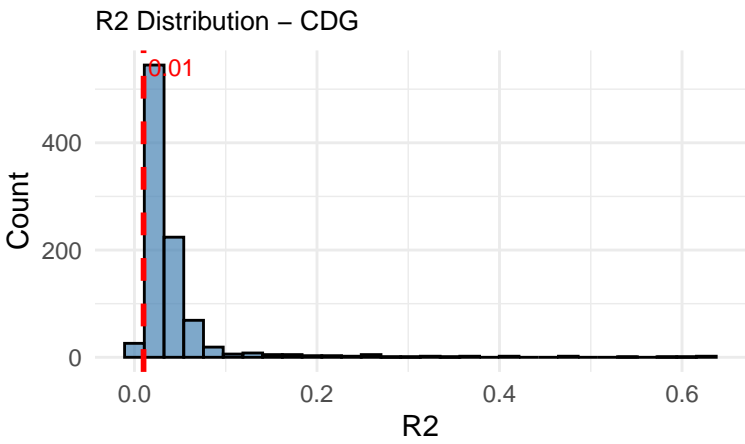
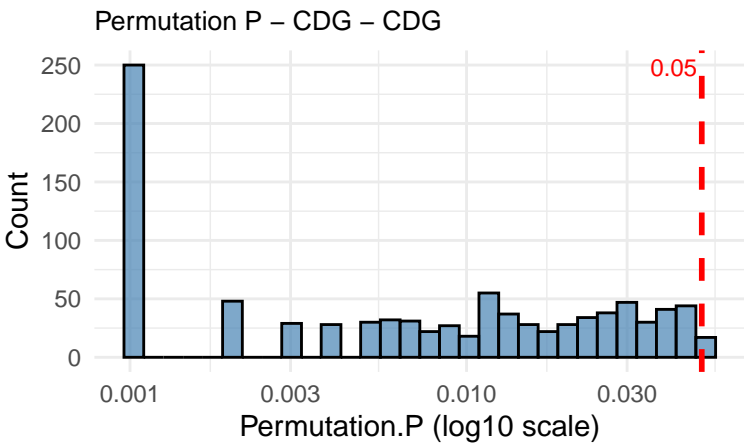
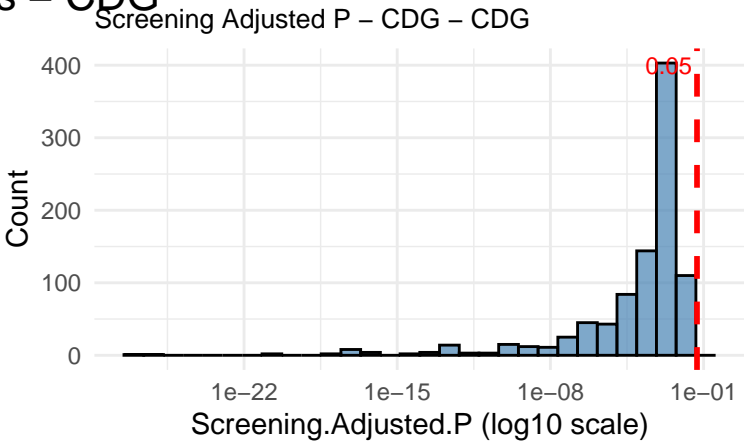
Metric	Value
Trait	BV
Total Records	345
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – CDG

Filtering Summary

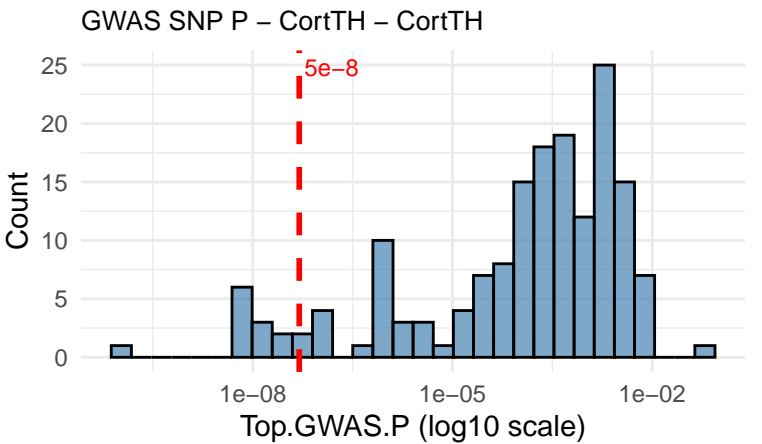
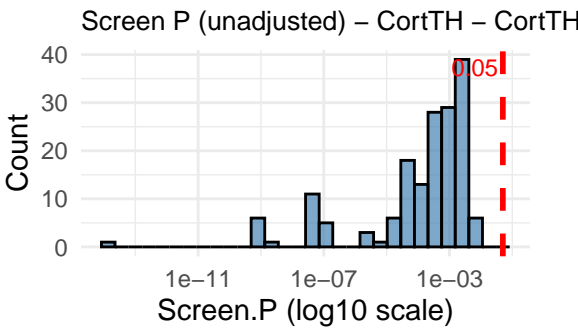
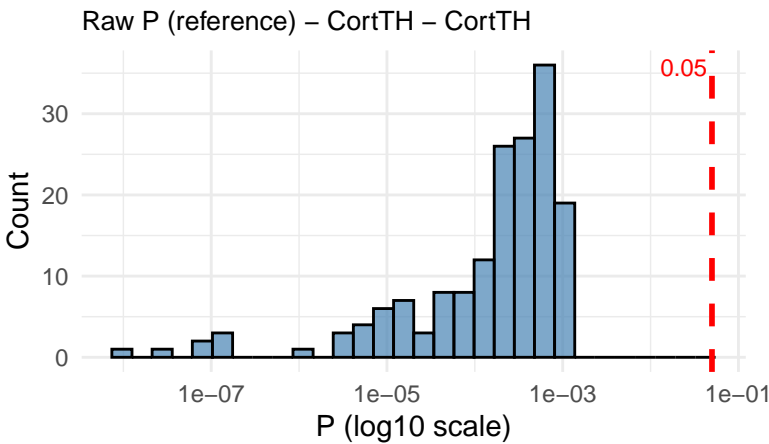
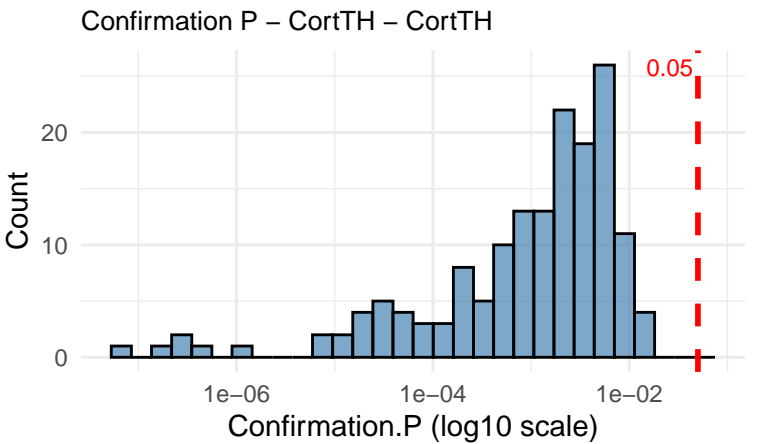
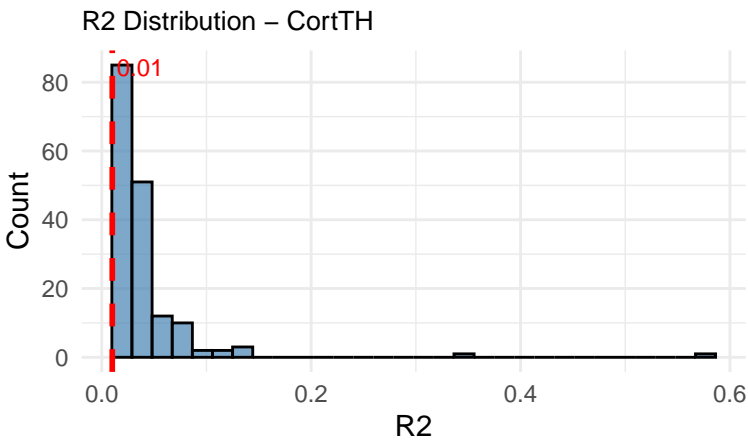
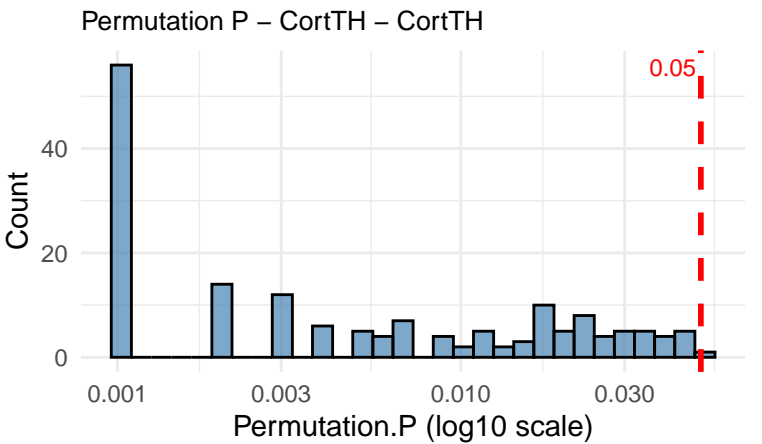
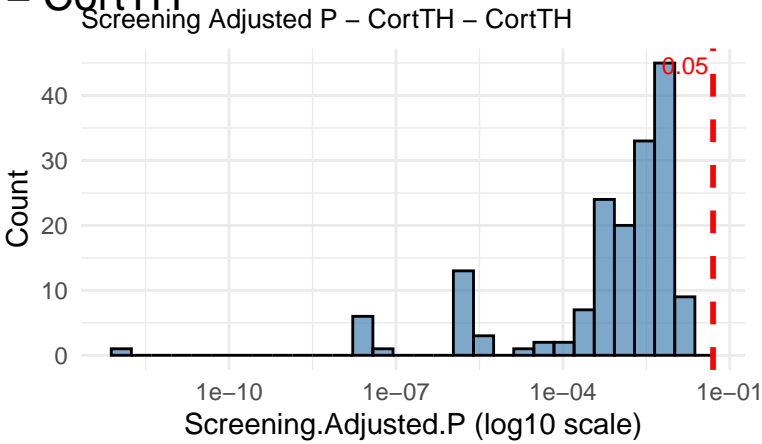
Metric	Value
Trait	CDG
Total Records	936
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTwas Analysis – CortTH

Filtering Summary

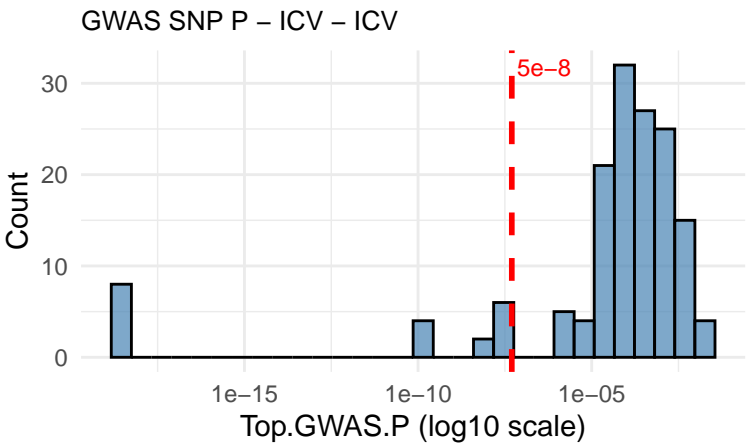
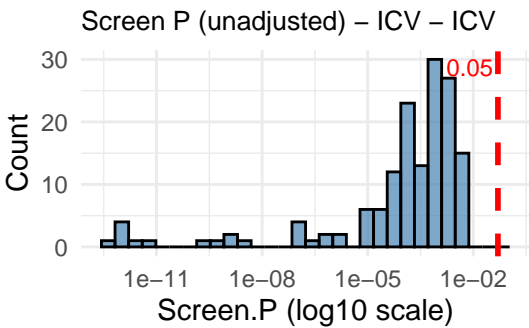
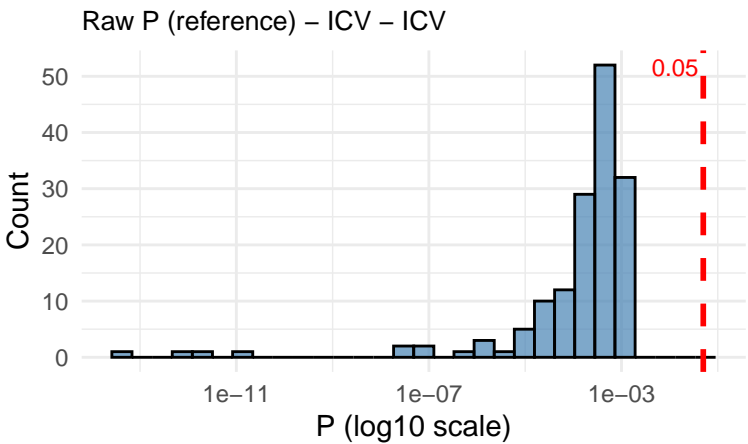
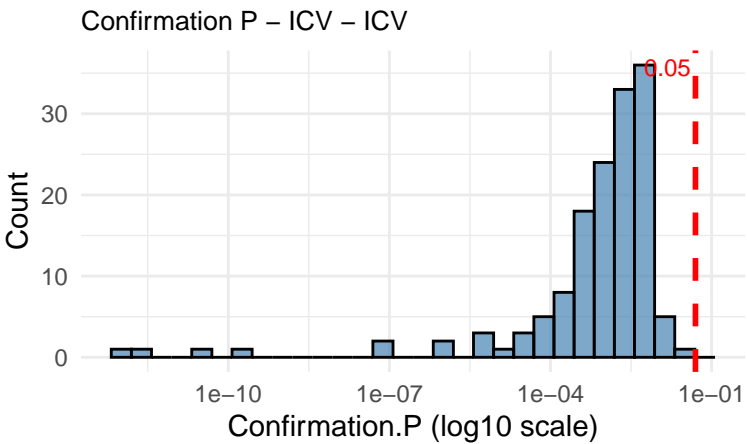
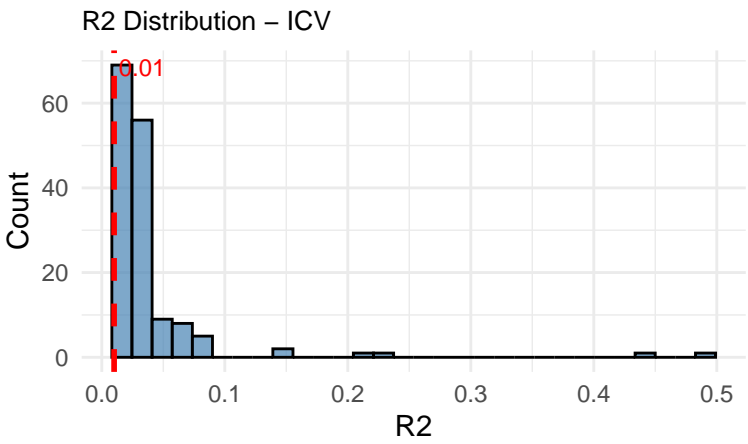
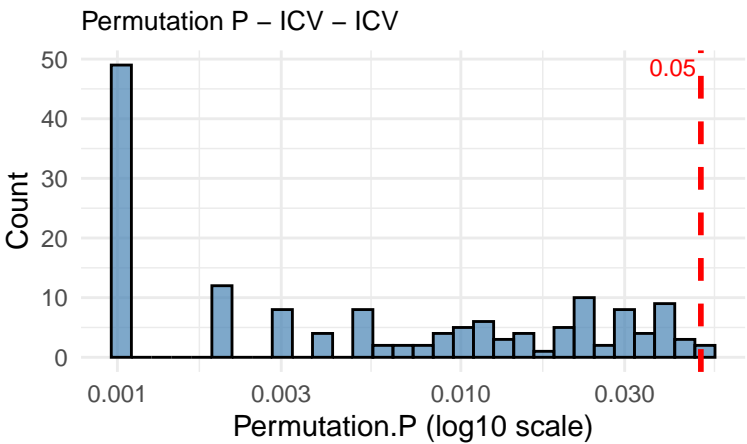
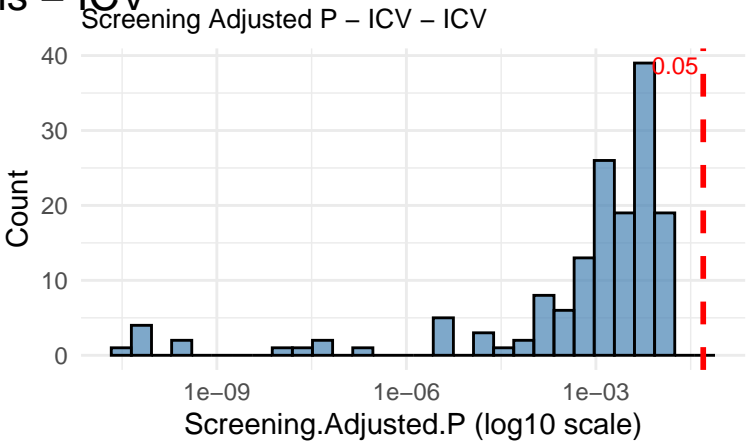
Metric	Value
Trait	CortTH
Total Records	167
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTwas Analysis – ICV

Filtering Summary

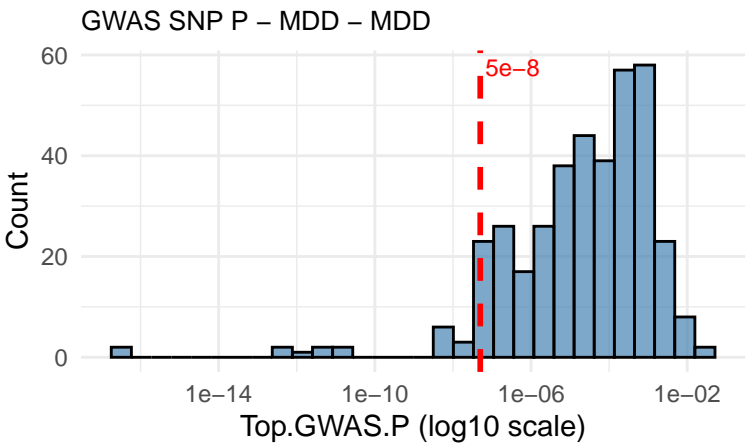
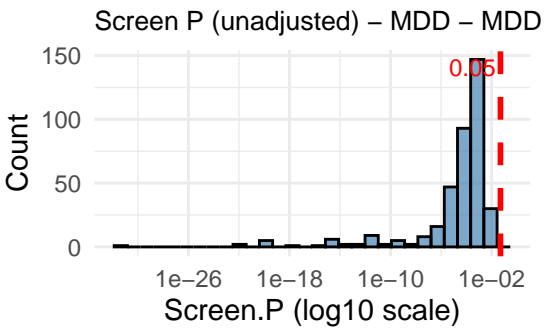
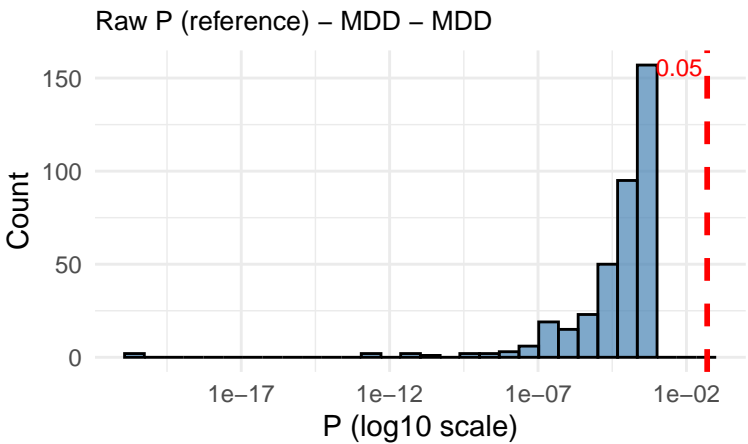
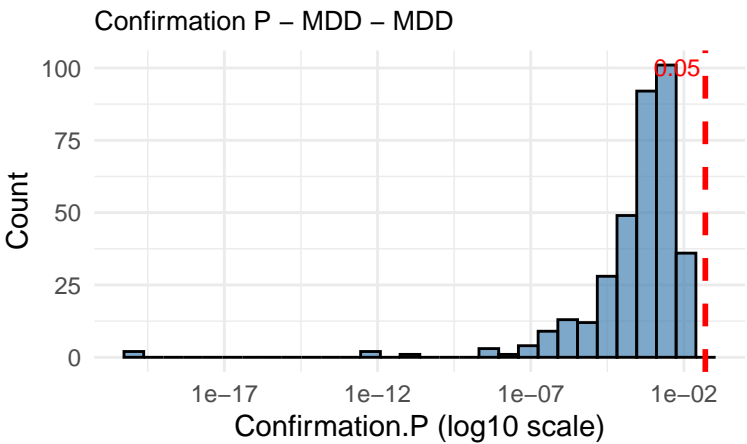
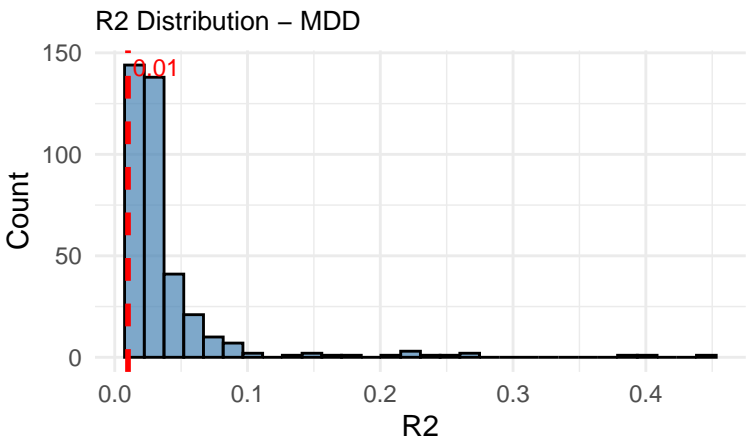
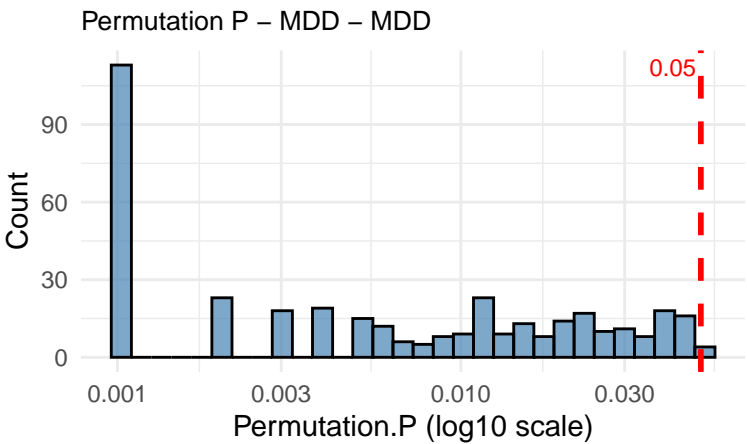
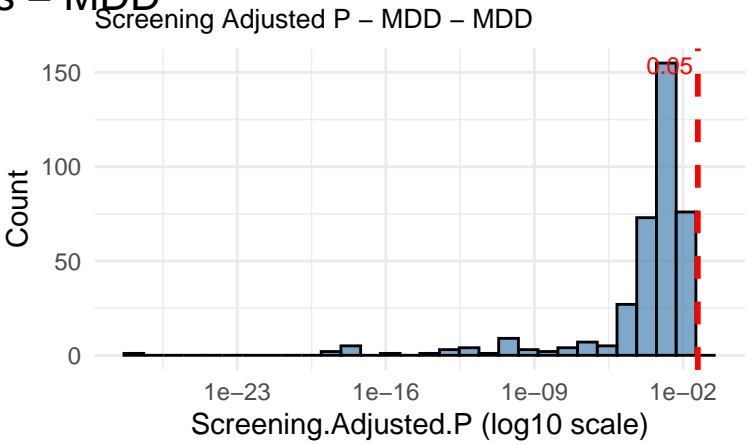
Metric	Value
Trait	ICV
Total Records	153
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – MDD

Filtering Summary

Metric	Value
Trait	MDD
Total Records	379
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0

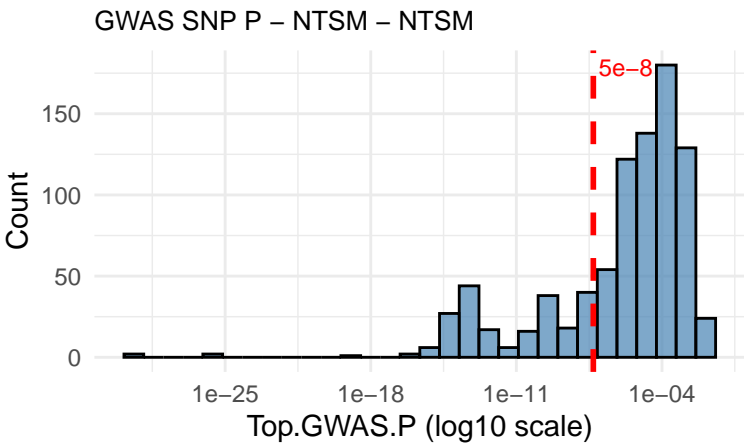
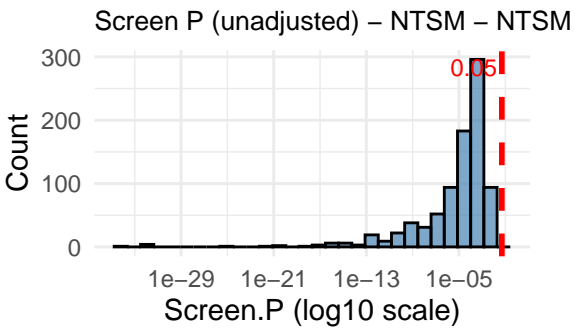
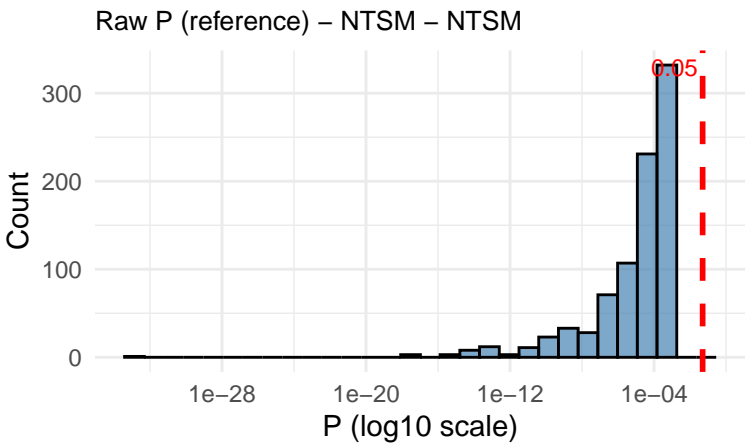
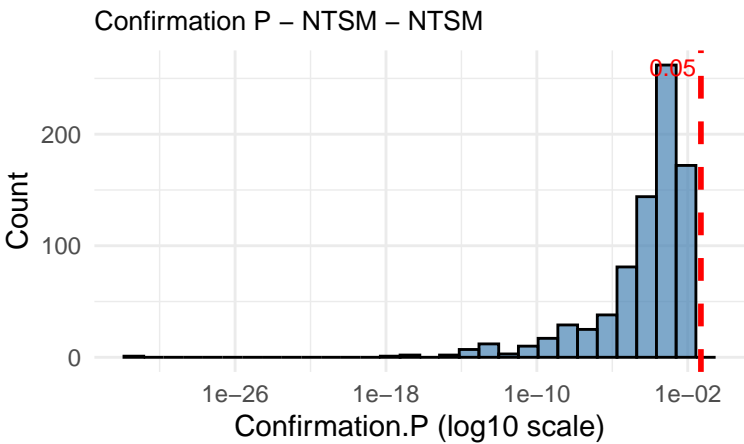
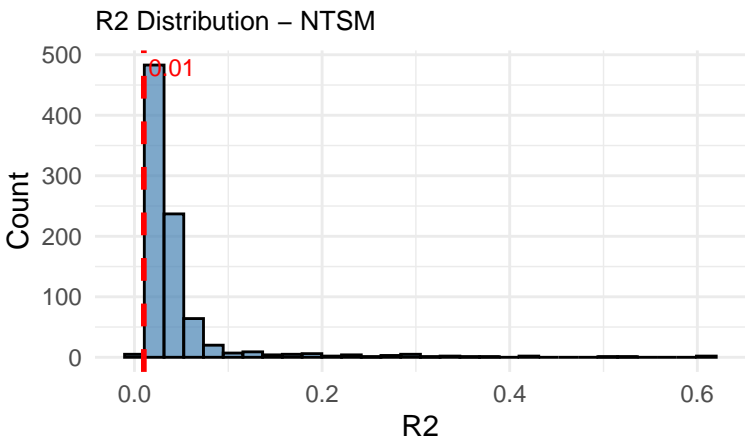
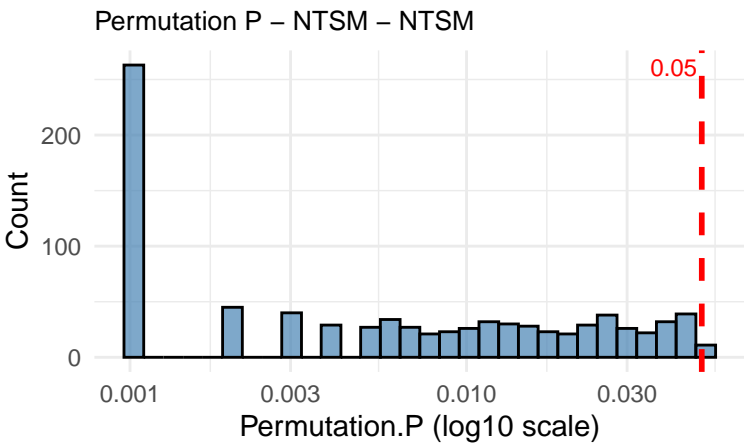
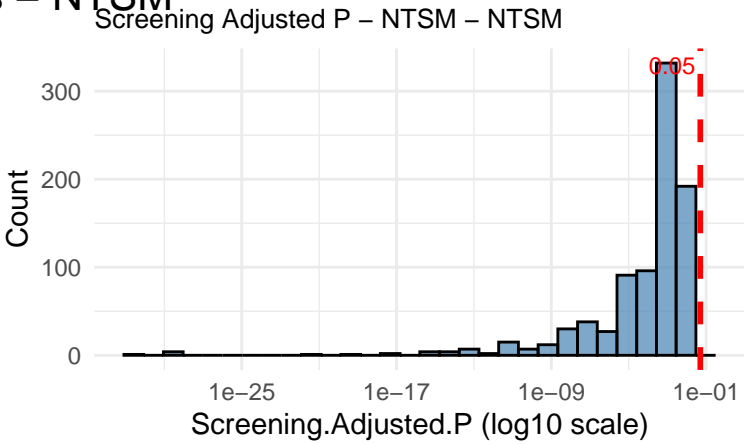




isoTWAS Analysis – NTSM

Filtering Summary

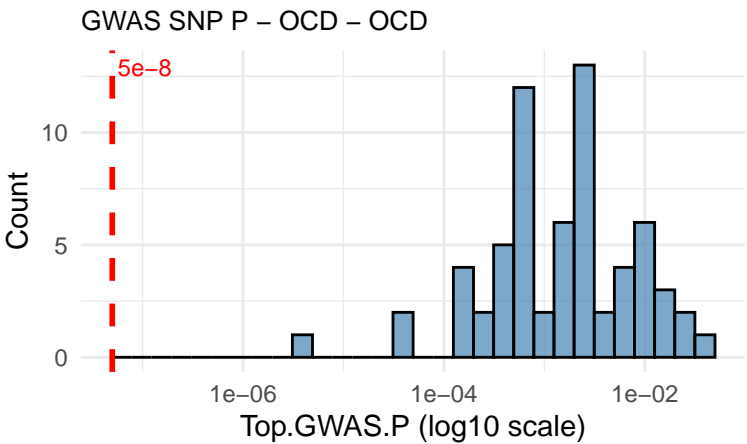
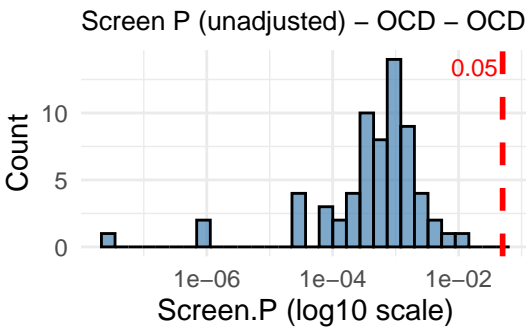
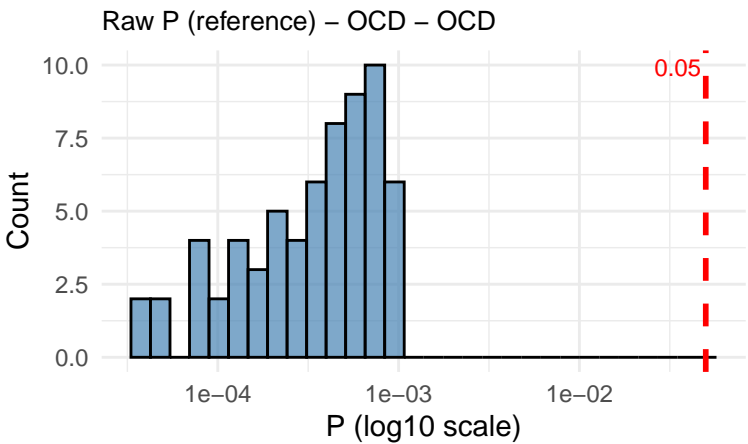
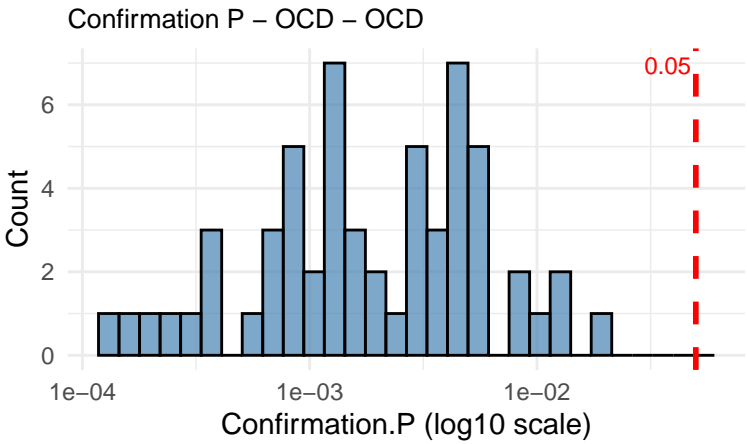
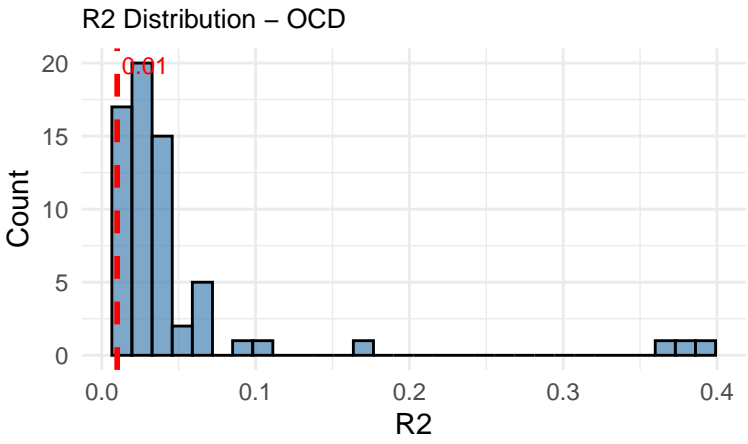
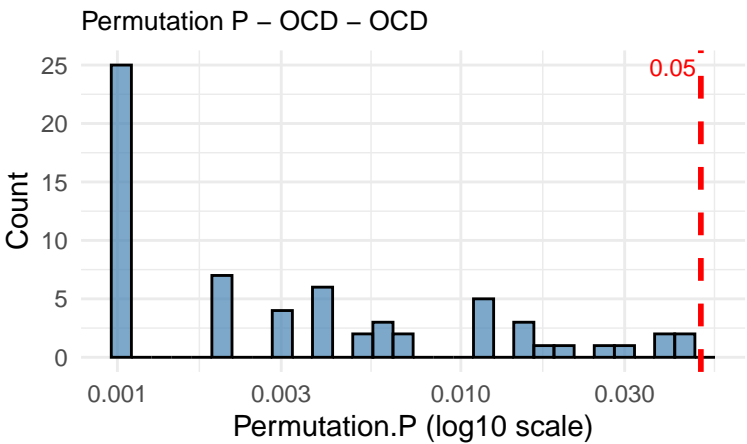
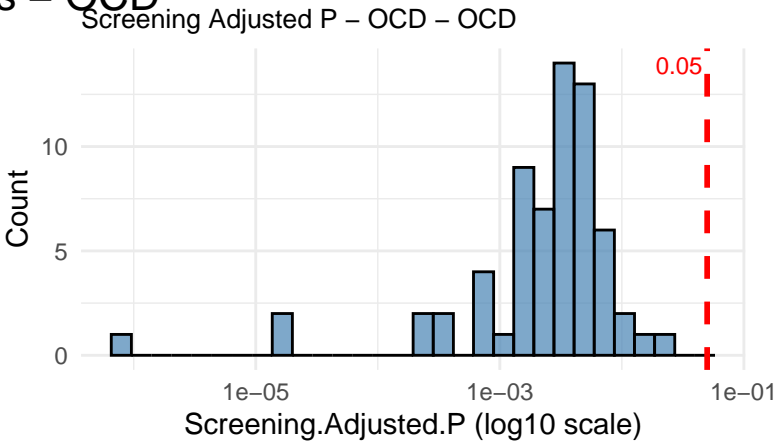
Metric	Value
Trait	NTSM
Total Records	866
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – OCD

Filtering Summary

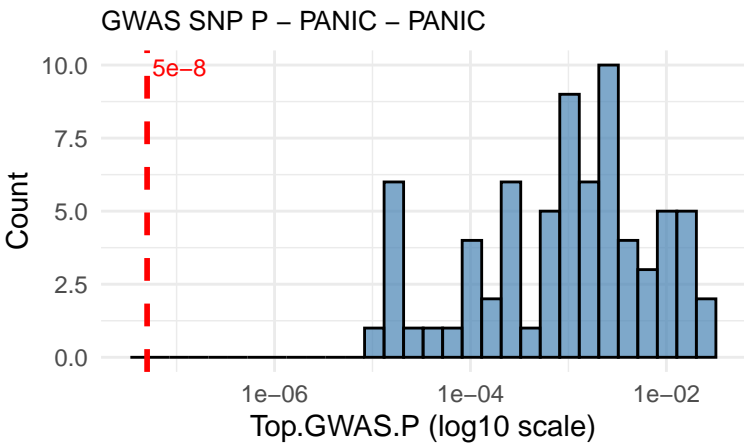
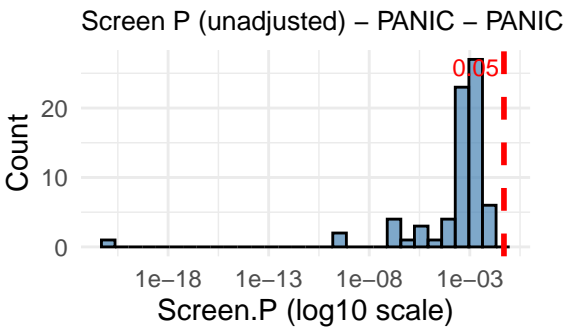
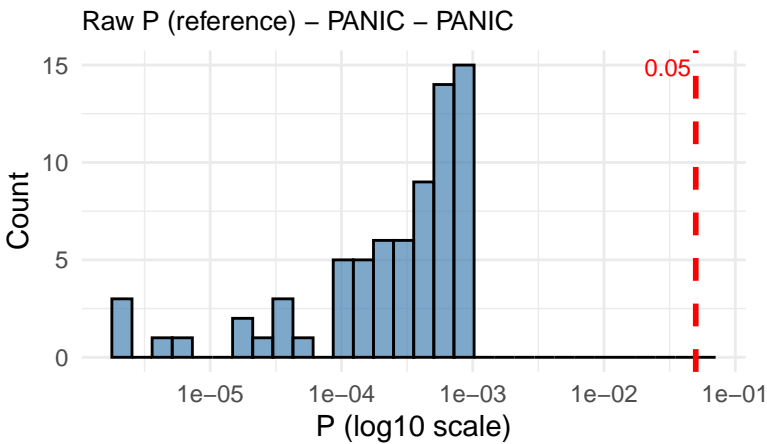
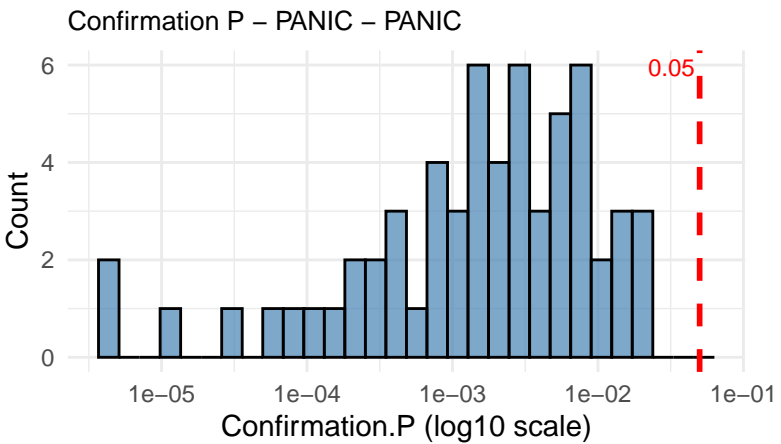
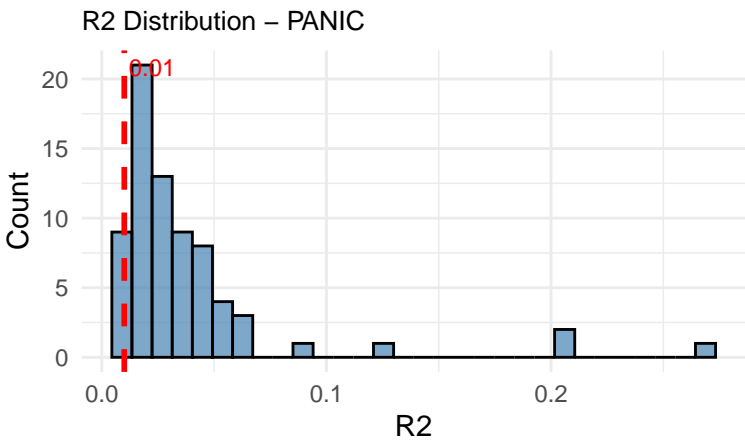
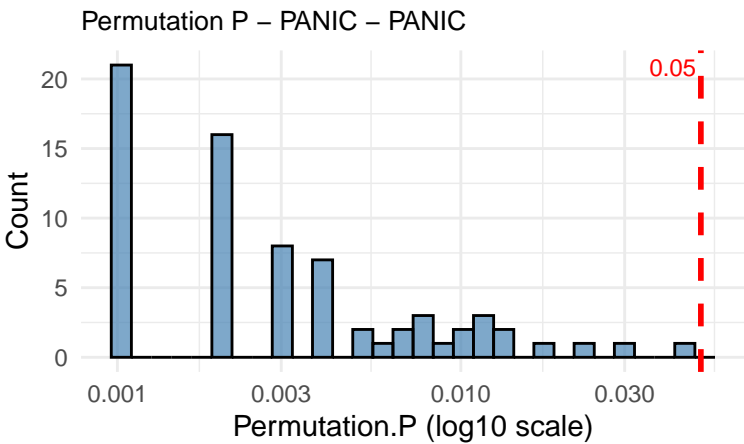
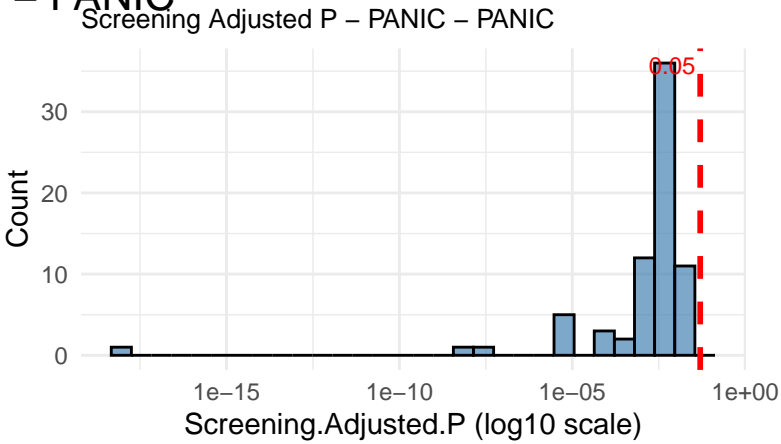
Metric	Value
Trait	OCD
Total Records	65
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – PANIC

Filtering Summary

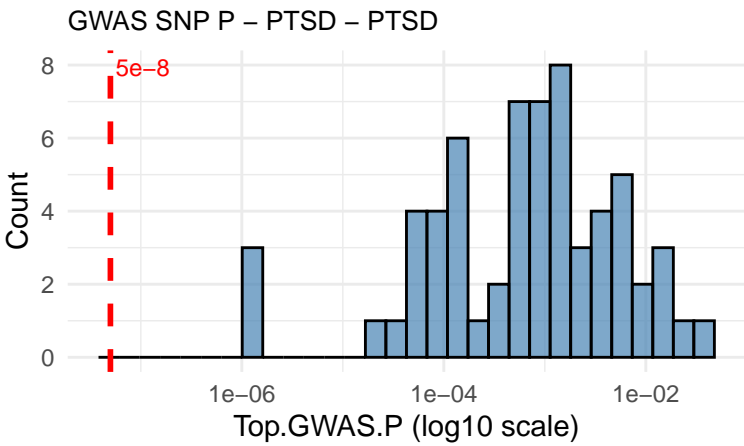
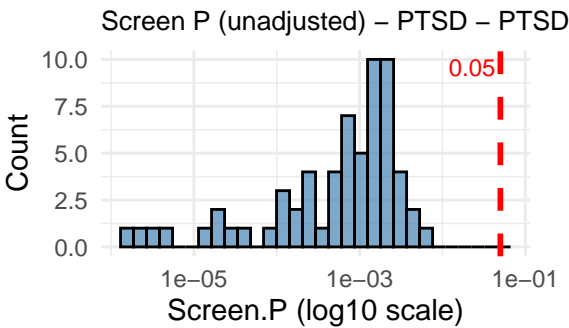
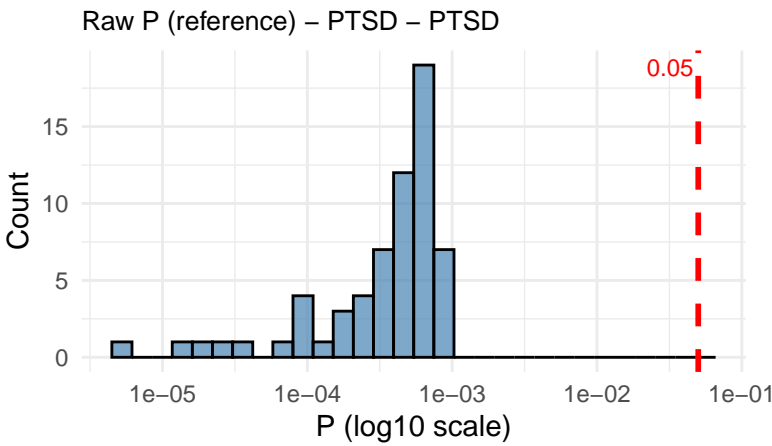
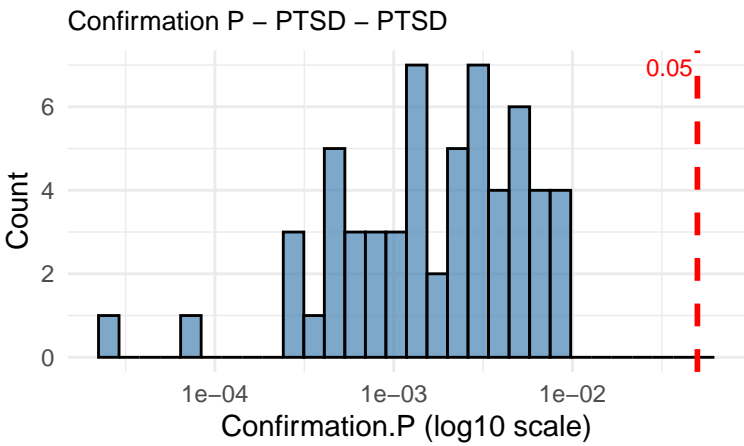
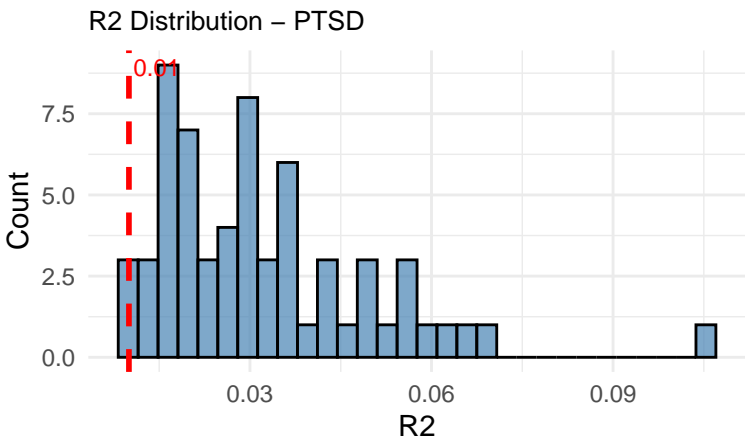
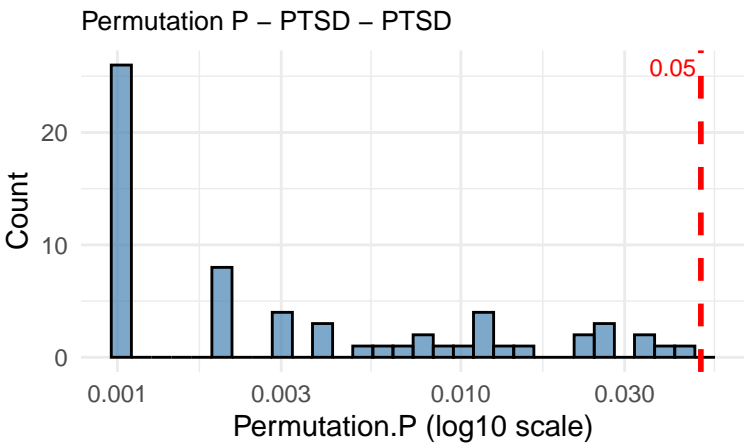
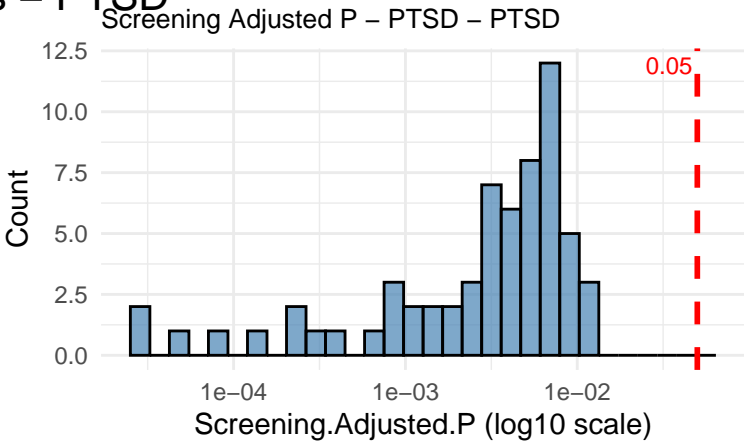
Metric	Value
Trait	PANIC
Total Records	72
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – PTSD

Filtering Summary

Metric	Value
Trait	PTSD
Total Records	63
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0



isoTWAS Analysis – SCZ

Filtering Summary

Metric	Value
Trait	SCZ
Total Records	1541
Screening Adj P >= 0.05	0
Permutation P >= 0.05	0
R2 < 0.01	0
Confirmation P >= 0.05	0

