Heritability estimates using LDSC

Heritability estimates using LDSC

Inctal	lation:
บารเสเ	1711011

We performed the analysis using version v1.0.1. We installed it using the conda installation provided on the https://github.com/bulik/ldsc

LD score calculation:

This step requires splitting the Genotype data by chromosome. This was achieved using PLINK. The detailed steps are included in split_by_chr.sh

Based on the average LD decay in the HS rats outbred population, we decided to use a 5Mb window for the LD score calculation.

Detailed command is included in script ld_score.sh

Munging summary statistics

This step involved some data wrangling in preparation for the heritability calculation.

The scripts we used are (in order) prepare_snplist.R, prep_for_munge.R and ldsc_munge.sh

Heritability estimation

The script we used is LDSC_h2.sh

This step uses the munged summary statistics as well as the LD scores.