Package 'manhplot'

October 13, 2022

Type Package

Title The Manhattan++ Plot

| Depends R (>= 3.4.0) |
|---|
| Version 1.1 |
| Date 2019-11-25 |
| Author Chris Grace <cgrace@well.ox.ac.uk></cgrace@well.ox.ac.uk> |
| Maintainer Chris Grace <cgrace@well.ox.ac.uk></cgrace@well.ox.ac.uk> |
| Description This plot integrates annotation into a manhattan plot. The plot is implemented as a heatmap, which is binned using -log10(p-value) and chromosome position. Annotation currently supported is minor allele frequency and gene function high impact variants. |
| License GPL (>= 2) |
| RoxygenNote 6.1.1 |
| Imports reshape2, ggplot2, ggrepel, gridExtra |
| Suggests R.utils, testthat |
| <pre>URL https://github.com/cgrace1978/manhplot/</pre> |
| BugReports https://github.com/cgrace1978/manhplot/issues |
| NeedsCompilation no |
| Repository CRAN |
| Date/Publication 2019-11-25 16:40:03 UTC |
| R topics documented: |
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manhplot-package The Manhattan++ Plot

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URL: https://github.com/cgrace1978/manhplot/ BugReports: https://github.com/cgrace1978/manhplot/issues

NeedsCompilation: no

Packaged: 2019-11-25 15:02:16 UTC; cgrace

Repository: CRAN

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manhplusplot Generate the manhattan++ plot

Author(s)

Chris Grace <cgrace@well.ox.ac.uk>

Maintainer: Chris Grace <cgrace@well.ox.ac.uk>

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Description

Generate the manhattan++ plot

Usage

```
manhplusplot(infile, outfile, configfile, snpfile, drawastiff = F,
  GWS = 5e-08, FDR = 0.001, MAF = 0.05, chrname = "chr",
  posname = "pos", pvalname = "pvalue", frqname = "maf",
  conseqname = "conseq", showgenes = F, showrsids = F,
  pos.split = 3e+06, pval.split = 0.125, max.pval = 20)
```

Arguments

| infile | Input GWAS summary statistics |
|------------|--|
| outfile | Output file prefix for the manhattan++ plot |
| configfile | Configuration file |
| snpfile | Table of SNPs to visualize |
| drawastiff | If TRUE draw a Tiff file, if FALSE draw a PDF file |
| GWS | Genome wise significance pvalue threshold (5E-8 by default) |
| FDR | False discovery Rate pvalue threshold (1E-3 by default) |
| MAF | Minor Allele Frequency threshold |
| chrname | Column name for chromosome in GWAS infile |
| posname | Column name for position in GWAS infile |
| pvalname | Column name for pvalue in GWAS infile |
| frqname | column name for allele frequency in GWAS infile |
| conseqname | column name for variant annotation consequence in GWAS infile |
| showgenes | If T shows known genes as bubbles on main manhattan plot, if F show positions of interest as bubbles |
| showrsids | If showgenes is T, then show the rsids, rather than genes |
| pos.split | The bin lengths for positions |
| pval.split | The bin lengths for pvalues |
| max.pval | The maximum pvalue to display |
| | |

Details

For file formats see github page https://github.com/cgrace1978/manhplot

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Author(s)

Chris Grace

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