1 Introduction

1.1 Synopsis

Package cgmisc contains miscellaneous functions, hopefully useful for extending genome-wide association study (GWAS) analyses.

1.2 Getting help

Like every other R function, the functions provided in this package are documented in the standard R-help (Rd) format and can be easily accessed by issuing help() or its shorter version, ? function. For instance, if you want to get more information on how to use the clump.markers() function, type either help(clumpmarkers) or ?clump.markers and press return/enter. To see this document from within R you type vignette('cgmisc').

1.3 Purpose of this document

This document aims at presenting how to use functions provided in this package in a typical GWAS data analyses workflow. It is, however, not pretending to be a GWAS tutorial as such.

1.4 Conventions

- All R commands are written in terminal type: myfun(foo=T, bar=54)
- In the above example: myfun is a *function* and both foo and bar are its *arguments*

2 Working with cgmisc

2.1 Installation

In order to install cgmisc, you either use one of the R GUIs (native R GUI, RStudio etc.) or type the following command:

```
install.packages("cgmisc", repos = "")
```

Functions in the cgmisc package often complement or use GenABEL ?? package functions and data structures. GenABEL is an excellent and widely-used R package for performing genome-wide association studies and much more... Therefore GenABEL will be loaded automagically. If for some mysterious reason this does not happen, you can install and load GenABEL by typing:

```
install.packages("GenABEL")
require("GenABEL")
```

You load $\operatorname{\mathsf{cgmisc}}$ package in exactly the same way (both $\operatorname{\mathsf{require}}$ and $\operatorname{\mathsf{library}}$ will do):

```
require("cgmisc")
library("cgmisc") # Alternative to require
```