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 when loading cgmisc. If for some mysterious reason this does not happen, you can install and load GenABEL by typing:

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

You load cgmisc package in exactly the same way (both require and library will do):

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

After having loaded the package it is time to load some data:

```
data(cgmiscdat1)
## Warning: data set 'cgmiscdat1' not found
```