

Brief Description:

The ld.pairs package computes  $r^2$ ,  $D'$ , and composite measures of Linkage Disequilibrium, their variances and covariances, and statistical tests, for all pairs of alleles from two loci when linkage phase is unknown.

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Installation procedures

Installation procedures in this file are for setting up a 'local library' for a user. If a large group of users plan to use the same library, then install on a system-wide 'library' location designated by a system administrator.

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R Installation

The ld.pairs package is not available for distribution through any R websites. To install, downloading the README.ldpairs file with ld.pairs\_x.y.z.tar.gz and execute the following command with the local "INSTALL LIBRARY DIR PATH" correctly specified.

R CMD INSTALL -l /INSTALL LIBRARY DIR PATH/ ld.pairs\_x.y.z.tar.gz

Additional details on R may be found on the R project website (<http://www.r-project.org>).

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User Documentation:

There is an example in help(ld.pairs) that shows a simple example for using ld.pairs. We warn that ld.pairs has computing limits (run-time and memory limits) for when the number of alleles is high, which is roughly 10 alleles for each locus.