

# dcSupraBetter

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dcSupraBetter	<i>Function to find supra-domains with better scores than their individual domains</i>
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## Description

dcSupraBetter is supposed to find supra-domains with better scores than their individual domains.

## Usage

```
dcSupraBetter(input.file, output.file = NULL, verbose = T)
```

## Arguments

input.file	an input file used to build the object. This input file contains original annotations between domains/features and ontology terms, along with the hypergeometric scores (hscore) in support for their annotations. For example, a file containing original annotations between SCOP domain architectures and GO terms can be found in <a href="http://dcbio.r-forge.r-project.org/data/Feature/Feature2GO.sf.txt">http://dcbio.r-forge.r-project.org/data/Feature/Feature2GO.sf.txt</a> . As seen in this example, the input file must contain the header (in the first row) and three columns: 1st column for 'Feature_id' (here SCOP domain architectures), 2nd column for 'Term_id' (GO terms), and 3rd column for 'Score' (hscore)
output.file	an output file containing results. If not NULL, a tab-delimited text file will be also written out, with 1st column 'Feature_id' for features/domains, 2nd column 'Term_id' for ontology terms, 3rd column 'Score' for hypergeometric scores (indicative of strength for feature-term associations). Otherwise, there is no output file (by default)
verbose	logical to indicate whether the messages will be displayed in the screen. By default, it sets to TRUE for display

## Value

a data frame containing three columns: 1st column 'Feature\_id' for features, 2nd 'Term\_id' for terms, and 3rd 'Score' for the hypergeometric score indicative of strength of associations between features and terms

**Note**

When 'output.file' is specified, a tab-delimited text file is output, with the column names: 1st column 'Feature\_id' for features, 2nd 'Term\_id' for terms, and 3rd 'Score' for the hypergeometric score indicative of strength of associations between features and terms

**See Also**

[dcList2Matrix](#)

**Examples**

```
input.file <-  
"http://dcgor.r-forge.r-project.org/data/Feature/Feature2GO.sf.txt"  
res <- dcSupraBetter(input.file)  
res[1:10,]
```