

# dGSEAwrite

July 21, 2015

---

dGSEAwrite

*Function to write out enrichment results*

---

## Description

dGSEAwrite is supposed to write out enrichment results.

## Usage

```
dGSEAwrite(eTerm, which_content = c("gadjp", "adjp", "pvalue", "FWER",  
"FDR",  
"qvalue", "nES", "ES"), which_score = c("gadjp", "adjp", "FWER", "FDR",  
"qvalue", "nES"), cutoff = 0.1, filename = NULL, keep.significance = T)
```

## Arguments

eTerm	an object of class "eTerm"
which_content	the content will be written out. It includes two categories: i) based on "adjp" for adjusted p value, "gadjp" for globally adjusted p value, "pvalue" for p value, "FWER" for family-wise error rate, "FDR" for false discovery rate, "qvalue" for q value; ii) based on "ES" for enrichment score, "nES" for normalised enrichment score. For the former, the content is : first $-1 \cdot \log_{10}$ -transformed, and then multiplied by -1 if nES is negative.
which_score	which statistics/score will be used for declaring the significance. It can be "adjp" for adjusted p value, "gadjp" for globally adjusted p value, "FWER" for family-wise error rate, "FDR" for false discovery rate, "qvalue" for q value
cutoff	a cutoff to declare the significance. It should be used together with 'which_score'
filename	a character string naming a filename
keep.significance	logical to indicate whether or not to mask those insignificant by NA. By default, it sets to true to mask those insignificant by NA

**Value**

a data frame with following components:

- setID: term ID
- setSize: the number of genes in the set
- name: term name
- namespace: term namespace
- distance: term distance
- sample names: sample names in the next columns

**Note**

If "filename" is not NULL, a tab-delimited text file will be also written out.

**See Also**

[dGSEA](#)

**Examples**

```
#output <- dGSEAwrite(eTerm, which_content="gadjp", which_score="gadjp", filename="eTerm.txt")
```