

simpIntLists Package

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R topics documented:

| | |
|---|-----------|
| simpIntLists-package | 1 |
| ArabidopsisBioGRIDInteractionEntrezId | 4 |
| ArabidopsisBioGRIDInteractionOfficial | 6 |
| ArabidopsisBioGRIDInteractionUniqueId | 7 |
| C.ElegansBioGRIDInteractionEntrezId | 9 |
| C.ElegansBioGRIDInteractionOfficial | 11 |
| C.ElegansBioGRIDInteractionUniqueId | 13 |
| findInteractionList | 14 |
| FruitFlyBioGRIDInteractionEntrezId | 16 |
| FruitFlyBioGRIDInteractionOfficial | 18 |
| FruitFlyBioGRIDInteractionUniqueId | 19 |
| HumanBioGRIDInteractionEntrezId | 21 |
| HumanBioGRIDInteractionOfficial | 22 |
| HumanBioGRIDInteractionUniqueId | 23 |
| MouseBioGRIDInteractionEntrezId | 24 |
| MouseBioGRIDInteractionOfficial | 25 |
| MouseBioGRIDInteractionUniqueId | 27 |
| S.PombeBioGRIDInteractionEntrezId | 28 |
| S.PombeBioGRIDInteractionOfficial | 30 |
| S.PombeBioGRIDInteractionUniqueId | 33 |
| YeastBioGRIDInteractionEntrezId | 35 |
| YeastBioGRIDInteractionOfficial | 38 |
| YeastBioGRIDInteractionUniqueId | 41 |
| Index | 46 |

`simpIntLists-package` *The package contains BioGRID interactions for various organisms in a simple format*

Description

The package contains BioGRID interactions for arabidopsis(thale cress), c.elegans, fruit fly, human, mouse, yeast(budding yeast) and S.pombe (fission yeast) . Entrez ids, official names and unique ids can be used to find proteins.

Details

```
Package:   simpIntLists
Type:      Package
Version:   1.0
Date:      2011-01-18
License:   GPL version 2 or newer
LazyLoad: yes
```

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References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> library(simpIntLists)
> i<-findInteractionList("arabidopsis", "EntrezId")
> i[1:5]

[[1]]
[[1]]$name
[1] 828230

[[1]]$interactors
[1] 832208 821860 5888 842783 834532

[[2]]
[[2]]$name
[1] 832208

[[2]]$interactors
[1] 828230 821455 852713 831710 821860 5888 11144

[[3]]
[[3]]$name
[1] 821860

[[3]]$interactors
[1] 828230 831710 832208

[[4]]
[[4]]$name
[1] 836259
```

```

[[4]]$interactors
  [1] 818903 825075 836259 819292 835842 816408 843133 836132 837479 819311
 [11] 825382 816538 839341 819296 838883 832518 821807 822061

[[5]]
[[5]]$name
 [1] 818903

[[5]]$interactors
  [1] 836259 834983 836248 837479 814686 825075 816394 837483 839300 821251

> data(ArabidopsisBioGRIDInteractionUniqueId)
> ArabidopsisBioGRIDInteractionUniqueId[30:32]

[[1]]
[[1]]$name
 [1] "At2g18790"

[[1]]$interactors
  [1] "At5g57360" "At1g09530" "At1g09570" "At2g25930" "At3g59060" "At5g02810"
  [7] "At4g17230" "At5g49230" "At5g59560" "At2g02950" "At5g61270" "At1g76500"
 [13] "At1g10470" "At1g04400" "At2g18790" "At5g63310" "At2g20180" "At2g43010"
 [19] "At5g35840" "At4g16250" "At4g18130" "At2g32950" "At1g22280" "At1g04240"
 [25] "At1g52240"

[[2]]
[[2]]$name
 [1] "At1g09530"

[[2]]$interactors
  [1] "At2g18790" "At5g61380" "At3g59060" "At5g02810" "At5g61270" "At2g43010"
  [7] "At2g01570" "At1g09570" "At1g02340" "At1g14920" "At1g66350" "At3g03450"
 [13] "At5g17490" "At1g09530"

[[3]]
[[3]]$name
 [1] "At2g46970"

[[3]]$interactors
 [1] "At5g61380"

```

ArabidopsisBioGRIDInteractionEntrezId

BioGRID interactions for thale cress (Arabidopsis thaliana), entrez ids are used as identifiers

Description

This data set contains a list of interactions for thale cress (*Arabidopsis thaliana*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(ArabidopsisBioGRIDInteractionEntrezId)
```

Format

The format is: List of 2118 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : int 828230 ..\$ interactors: int [1:12] 832208 821860 821860 832208 832208 821860 832208 5888 842783 834532 ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```
> data(ArabidopsisBioGRIDInteractionEntrezId)
> ArabidopsisBioGRIDInteractionEntrezId[1:5]

[[1]]
[[1]]$name
[1] 828230

[[1]]$interactors
[1] 832208 821860 5888 842783 834532

[[2]]
[[2]]$name
[1] 832208

[[2]]$interactors
[1] 828230 821455 852713 831710 821860 5888 11144

[[3]]
[[3]]$name
[1] 821860

[[3]]$interactors
[1] 828230 831710 832208
```

```
[[4]]
[[4]]$name
[1] 836259
```

```
[[4]]$interactors
[1] 818903 825075 836259 819292 835842 816408 843133 836132 837479 819311
[11] 825382 816538 839341 819296 838883 832518 821807 822061
```

```
[[5]]
[[5]]$name
[1] 818903
```

```
[[5]]$interactors
[1] 836259 834983 836248 837479 814686 825075 816394 837483 839300 821251
```

ArabidopsisBioGRIDInteractionOfficial

BioGRID interactions for thale cress (Arabidopsis thaliana), official names are used as identifiers

Description

This data set contains a list of interactions for thale cress (*Arabidopsis thaliana*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, official names are used.

Usage

```
data(ArabidopsisBioGRIDInteractionOfficial)
```

Format

The format is: List of 2109 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : chr "BRCA2(IV)" ..\$ interactors: chr [1:12] "ATRAD51" "DMC1" "DMC1" "ATRAD51" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```

> data(ArabidopsisBioGRIDInteractionOfficial)
> ArabidopsisBioGRIDInteractionOfficial[1:5]

[[1]]
[[1]]$name
[1] "BRCA2(IV)"

[[1]]$interactors
[1] "ATRAD51" "DMC1" "RAD51" "ATDSS1(I)" "ATDSS1(V)"

[[2]]
[[2]]$name
[1] "ATRAD51"

[[2]]$interactors
[1] "BRCA2(IV)" "ATRAD54" "RAD54" "BRCA2B" "DMC1" "RAD51"

[[3]]
[[3]]$name
[1] "DMC1"

[[3]]$interactors
[1] "BRCA2(IV)" "BRCA2B" "ATRAD51"

[[4]]
[[4]]$name
[1] "TOC1"

[[4]]$interactors
 [1] "PIF4" "PIL6" "TOC1" "APRR9" "ZTL" "LKP2" "FKF1" "APRR3" "PIF3"
[10] "PIL1" "PIL2" "PIL5" "LHY" "CCA1" "GI" "APRR5" "TIC" "ABI3"

[[5]]
[[5]]$name
[1] "PIF4"

[[5]]$interactors
 [1] "TOC1" "HRB1" "PIF7" "PIF3" "RGA1" "PIL6" "PHYB" "PHYA" "HFR1" "RGL2"

```

ArabidopsisBioGRIDInteractionUniqueId

*BioGRID interactions for thale cress (Arabidopsis thaliana),
unique ids are used as identifiers*

Description

This data set contains a list of interactions for thale cress (*Arabidopsis thaliana*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, unique ids (systematic names) are used.

Usage

```
data(ArabidopsisBioGRIDInteractionUniqueId)
```

Format

The format is: List of 2106 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : chr "At4g00020" ..\$ interactors: chr [1:12] "At5g20850" "At3g22880" "At3g22880" "At5g20850" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```
> data(ArabidopsisBioGRIDInteractionUniqueId)
> ArabidopsisBioGRIDInteractionUniqueId[1:5]

[[1]]
[[1]]$name
[1] "At4g00020"

[[1]]$interactors
[1] "At5g20850" "At3g22880" "At1g64750" "At5g45010"

[[2]]
[[2]]$name
[1] "At5g20850"

[[2]]$interactors
[1] "At4g00020" "At3g19210" "YGL163C" "At5g01630" "At3g22880"
[6] "RP1-199H16.4"

[[3]]
[[3]]$name
[1] "At3g22880"

[[3]]$interactors
[1] "At4g00020" "At5g01630" "At5g20850"
```



```

[[4]]
[[4]]$name
[1] "At5g61380"

[[4]]$interactors
[1] "At2g43010" "At3g59060" "At5g61380" "At2g46790" "At5g57360" "At2g18915"
[7] "At1g68050" "At5g60100" "At1g09530" "At2g46970" "At3g62090" "At2g20180"
[13] "At1g01060" "At2g46830" "At1g22770" "At5g24470" "At3g22380" "At3g24650"

[[5]]
[[5]]$name
[1] "At2g43010"

[[5]]$interactors
[1] "At5g61380" "At5g49230" "At5g61270" "At1g09530" "At2g01570" "At3g59060"
[7] "At2g18790" "At1g09570" "At1g02340" "At3g03450"

```

C.ElegansBioGRIDInteractionEntrezId

*BioGRID interactions for C.elegans (Caenorhabditis elegans),
entrez ids are used as identifiers*

Description

This data set contains a list of interactions for C.elegans (Caenorhabditis elegans). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(C.ElegansBioGRIDInteractionEntrezId)
```

Format

The format is: List of 3573 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : int 177286 ..\$ interactors: int [1:4] 179791 178104 180982 178104

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```

> data(C.ElegansBioGRIDInteractionEntrezId)
> C.ElegansBioGRIDInteractionEntrezId[1:5]

[[1]]
[[1]]$name
[1] 177286

[[1]]$interactors
[1] 179791 178104 180982

[[2]]
[[2]]$name
[1] 179791

[[2]]$interactors
[1] 177286 179941 171934 175195

[[3]]
[[3]]$name
[1] 178104

[[3]]$interactors
  [1] 177286 174090 180611 175428 179736 172249 175117 175909 174484
 [10] 180724 176061 176068 172327 172088 179425 181055 174137 179204
 [19] 266854 175464 174044 174392 172399 175638 181557 174721 179338
 [28] 179959 180980 180982 172582 174091 173920 181098 181263 180622
 [37] 181082 184508 174350 173180 171801 172524 172826 172832 172195
 [46] 172520 181274 177546 178001 180357 179217 173345 180961 175545
 [55] 174693 181407 181013 181194 175890 171607 174771 179770 176992
 [64] 179732 172374 186632 181408 181539 173338 172353 176060 177373
 [73] 177956 176430 266820 176137 180032 174323 178113 175621 174317
 [82] 177329 174107 174106 188569 172233 172414 172856 172532 173137
 [91] 178788 173863 178845 172747 173143 178296 179213 174830 3565510
[100] 189253 171849 173149 189590 3565921 189992 176667 173078 175089
[109] 171654 173229 175126 175504 173854 181291 178846 174462 171840
[118] 177659 172504 178555 187716 175921 175074 174121 181545 191690
[127] 178120 179276 174685 172243 174782 174788 182980 188620 181456

[[4]]
[[4]]$name
[1] 179437

[[4]]$interactors
[1] 179795 180819 175638 178732

[[5]]
[[5]]$name

```

```
[1] 179795

[[5]]$interactors
[1] 179437 171715
```

C.ElegansBioGRIDInteractionOfficial

BioGRID interactions for C.elegans (Caenorhabditis elegans), official names are used as identifiers

Description

This data set contains a list of interactions for C.elegans (Caenorhabditis elegans). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, official names are used.

Usage

```
data(C.ElegansBioGRIDInteractionOfficial)
```

Format

The format is: List of 3557 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : chr "soc-2" ..\$ interactors: chr [1:4] "W07G4.5" "let-60" "bar-1" "let-60"

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(C.ElegansBioGRIDInteractionOfficial)
> C.ElegansBioGRIDInteractionOfficial[1:5]

[[1]]
[[1]]$name
[1] "soc-2"

[[1]]$interactors
[1] "W07G4.5" "let-60" "bar-1"

[[2]]
[[2]]$name
[1] "W07G4.5"
```

```
[[2]]$interactors
```

```
[1] "soc-2" "pas-1" "ftn-2" "gei-4"
```

```
[[3]]
```

```
[[3]]$name
```

```
[1] "let-60"
```

```
[[3]]$interactors
```

```
[1] "soc-2" "icd-1" "rgl-1" "frm-8" "W05B10.4" "lin-35"
[7] "mog-4" "let-756" "mel-11" "pdi-2" "cgh-1" "lin-39"
[13] "pnk-1" "let-502" "rop-1" "sem-5" "tra-2" "rol-3"
[19] "dsh-2" "sel-8" "sma-6" "prx-5" "cye-1" "pal-1"
[25] "eor-2" "unc-130" "mdf-1" "hda-1" "lam-2" "bar-1"
[31] "cyc-1" "vps-32.1" "mog-5" "kin-9" "daf-12" "ddr-2"
[37] "ksr-1" "efn-3" "zyg-9" "F22G12.4" "F23C8.6" "ego-1"
[43] "sur-6" "cco-1" "atp-3" "lrp-1" "plc-1" "itr-1"
[49] "lin-3" "pha-4" "mom-2" "sur-2" "unc-6" "mpk-1"
[55] "unc-53" "sdz-19" "dpy-7" "dpy-22" "hmg-1.2" "mex-3"
[61] "F54D5.5" "nid-1" "egl-18" "lin-25" "mei-2" "ver-4"
[67] "scd-1" "sel-7" "hmp-2" "cdc-25.1" "mup-4" "lag-1"
[73] "epi-1" "mua-3" "smo-1" "ceh-26" "kin-30" "dab-1"
[79] "par-5" "emb-5" "mig-5" "rme-2" "dpy-2" "dpy-10"
[85] "ver-2" "unc-40" "glh-1" "mom-5" "gld-1" "par-6"
[91] "lin-40" "T27F7.1" "unc-62" "aph-1" "W02A11.2" "mex-5"
[97] "sel-9" "lin-29" "W03F8.10" "W06F12.3" "pop-1" "gsk-3"
[103] "vps-4" "chk-1" "Y47G6A.5" "pie-1" "hsf-1" "lin-7"
[109] "Y65B4A.3" "vps-28" "unc-52" "pat-3" "ZK546.14" "egl-15"
[115] "sos-1" "let-23" "sop-3" "C09G4.2" "pbrm-1" "F33E11.2"
[121] "nhr-269" "T26A5.8" "ace-4" "egl-27" "his-24" "ins-22"
[127] "let-653" "nhr-44" "ptp-3" "rnt-1" "din-1" "trr-1"
[133] "hlh-12" "srh-215" "ptr-24"
```

```
[[4]]
```

```
[[4]]$name
```

```
[1] "gna-1"
```

```
[[4]]$interactors
```

```
[1] "B0365.1" "dlg-1" "pal-1" "W02G9.3"
```

```
[[5]]
```

```
[[5]]$name
```

```
[1] "B0365.1"
```

```
[[5]]$interactors
```

```
[1] "gna-1" "dyb-1"
```

C.ElegansBioGRIDInteractionUniqueId

*BioGRID interactions for C.elegans (Caenorhabditis elegans),
unique ids are used as identifiers*

Description

This data set contains a list of interactions for C.elegans (Caenorhabditis elegans). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, unique ids(systematic names) are used.

Usage

```
data(C.ElegansBioGRIDInteractionUniqueId)
```

Format

The format is: List of 3571 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : chr "AC7.2" ..\$ interactors: chr [1:4] "W07G4.5" "ZK792.6" "C54D1.6" "ZK792.6"

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(C.ElegansBioGRIDInteractionUniqueId)
> C.ElegansBioGRIDInteractionUniqueId[1:5]

[[1]]
[[1]]$name
[1] "AC7.2"

[[1]]$interactors
[1] "W07G4.5" "ZK792.6" "C54D1.6"

[[2]]
[[2]]$name
[1] "W07G4.5"

[[2]]$interactors
[1] "AC7.2" "C15H11.7" "D1037.3" "W07B3.2"
```

[[3]]

[[3]]\$name

[1] "ZK792.6"

[[3]]\$interactors

| | | | | | |
|-------|-------------|--------------|--------------|-------------|-------------|
| [1] | "AC7.2" | "C56C10.8" | "F28B4.2" | "H09G03.2" | "W05B10.4" |
| [6] | "C32F10.2" | "C04H5.6" | "C05D11.4" | "C06C3.1" | "C07A12.4" |
| [11] | "C07H6.5" | "C07H6.7" | "C10G11.5" | "C10H11.9" | "C12D8.11" |
| [16] | "C14F5.5" | "C15F1.3" | "C16D9.2" | "C27A2.6" | "C32A3.1" |
| [21] | "C32D5.2" | "C34C6.6" | "C37A2.4" | "C38D4.6" | "C44H4.7" |
| [26] | "C47G2.2" | "C50F4.11" | "C53A5.3" | "C54D1.5" | "C54D1.6" |
| [31] | "C54G4.8" | "C56C10.3" | "EEED8.5" | "F08F1.1" | "F11A1.3" |
| [36] | "F11D5.3" | "F13B9.5" | "F15A2.5" | "F22B5.7" | "F22G12.4" |
| [41] | "F23C8.6" | "F26A3.3" | "F26E4.1" | "F26E4.9" | "F27C1.7" |
| [46] | "F29D11.1" | "F31B12.1" | "F33D4.2" | "F36H1.4" | "F38A6.1" |
| [51] | "F38E1.7" | "F39B2.4" | "F41C6.1" | "F43C1.2" | "F45E10.1" |
| [56] | "F45E6.6" | "F46C8.6" | "F47A4.2" | "F47D12.4" | "F53G12.5" |
| [61] | "F54D5.5" | "F54F3.1" | "F55A8.1" | "F56H9.5" | "F57B10.12" |
| [66] | "F59F3.5" | "H20J18.1" | "K04G11.2" | "K05C4.6" | "K06A5.7" |
| [71] | "K07D8.1" | "K08B4.1" | "K08C7.3" | "K08E5.3" | "K12C11.2" |
| [76] | "K12H4.1" | "M01B2.1" | "M110.5" | "M117.2" | "T04A8.14" |
| [81] | "T05C12.6" | "T11F8.3" | "T14B4.6" | "T14B4.7" | "T17A3.8" |
| [86] | "T19B4.7" | "T21G5.3" | "T23D8.1" | "T23G11.3" | "T26E3.3" |
| [91] | "T27C4.4" | "T27F7.1" | "T28F12.2" | "VF36H2L.1" | "W02A11.2" |
| [96] | "W02A2.7" | "W02D7.7" | "W03C9.4" | "W03F8.10" | "W06F12.3" |
| [101] | "W10C8.2" | "Y18D10A.5" | "Y34D9A.10" | "Y39H10A.7" | "Y47G6A.5" |
| [106] | "Y49E10.14" | "Y53C10A.12" | "Y54G11A.10" | "Y65B4A.3" | "Y87G2A.10" |
| [111] | "ZC101.2" | "ZK1058.2" | "ZK546.14" | "F58A3.2" | "T28F12.3" |
| [116] | "ZK1067.1" | "Y71F9B.10" | "C09G4.2" | "C26C6.1" | "F33E11.2" |
| [121] | "R08H2.9" | "T26A5.8" | "Y48B6A.7" | "C04A2.3" | "M163.3" |
| [126] | "M04D8.2" | "C29E6.1" | "T19A5.4" | "C09D8.1" | "B0414.2" |
| [131] | "F07A11.6" | "C47D12.1" | "C28C12.8" | "T20B3.3" | "F46G10.5" |

[[4]]

[[4]]\$name

[1] "B0024.12"

[[4]]\$interactors

[1] "B0365.1" "C25F6.2" "C38D4.6" "W02G9.3"

[[5]]

[[5]]\$name

[1] "B0365.1"

[[5]]\$interactors

[1] "B0024.12" "F47G6.1"

`findInteractionList` *Find BioGRID interaction list for a given organism an identifier type*

Description

Find BioGRID interaction list for a given organism an identifier type

Usage

```
findInteractionList(organism, idType)
```

Arguments

`organism` Organism name. Can be one of 'arabidopsis', 'c.elegans', 'fruitFly', 'human', 'mouse', 'yeast', 's.pombe'.

`idType` Type of identifier used. Can be one of 'EntrezId', 'Official' and 'UniqueId'

Value

List containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gen/protein and "interactors" containing the list of genes/proteins interacting with it.

Examples

```
> l <- findInteractionList("arabidopsis", "EntrezId")
> l[1:5]

[[1]]
[[1]]$name
[1] 828230

[[1]]$interactors
[1] 832208 821860 5888 842783 834532

[[2]]
[[2]]$name
[1] 832208

[[2]]$interactors
[1] 828230 821455 852713 831710 821860 5888 11144

[[3]]
[[3]]$name
[1] 821860

[[3]]$interactors
[1] 828230 831710 832208
```

```

[[4]]
[[4]]$name
[1] 836259

[[4]]$interactors
[1] 818903 825075 836259 819292 835842 816408 843133 836132 837479 819311
[11] 825382 816538 839341 819296 838883 832518 821807 822061

[[5]]
[[5]]$name
[1] 818903

[[5]]$interactors
[1] 836259 834983 836248 837479 814686 825075 816394 837483 839300 821251

```

FruitFlyBioGRIDInteractionEntrezId

*BioGRID interactions for Fruit fly (Drosophila melanogaster),
entrez ids are used as identifiers*

Description

This data set contains a list of interactions for Fruit fly (*Drosophila melanogaster*) The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(FruitFlyBioGRIDInteractionEntrezId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 7578 \$:List of 2 ..\$ name : int 43383 ..\$ interactors: int [1:18] 37006 40877 46391 32132 43584 3355072 39452 40887 40889 47186 ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```

> data(FruitFlyBioGRIDInteractionEntrezId)
> FruitFlyBioGRIDInteractionEntrezId[1:5]

[[1]]
[[1]]$name
[1] 43383

[[1]]$interactors
 [1] 37006 40877 46391 32132 43584 3355072 39452 40887 40889
[10] 47186 50457 42986 38941 33013 318573 43358 39349

[[2]]
[[2]]$name
[1] 37006

[[2]]$interactors
 [1] 43383 32074 32502 42987 31298 40687 32501 48317 33214
[10] 31291 31657 34708 39377 41587 36645 35256 40739 31300
[19] 33841 39251 44548 117294 32994 39801 32953 31275 40482
[28] 40529 31106 41734 37371 3355072 42267 35810 48572 43997
[37] 42215 326157 38981 32487 40560 47894 42324 31283 39862
[46] 37849 41840 33268 34245 39808 32724 44027 38844 39703
[55] 34132 36789 37982 32446 32490 35353 40135 43386 32602
[64] 40483 40485 47877

[[3]]
[[3]]$name
[1] 41450

[[3]]$interactors
[1] 35735 43981 49228

[[4]]
[[4]]$name
[1] 35735

[[4]]$interactors
[1] 41450 40116 37022 40678 32312

[[5]]
[[5]]$name
[1] 43384

[[5]]$interactors
 [1] 35808 31396 33031 43142 43727 42221 39972 31441 39643 40544 40605 35851

```

FruitFlyBioGRIDInteractionOfficial

*BioGRID interactions for Fruit fly (Drosophila melanogaster),
official names are used as identifiers*

Description

This data set contains a list of interactions for Fruit fly (*Drosophila melanogaster*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, official names are used.

Usage

```
data(FruitFlyBioGRIDInteractionOfficial)
```

Format

The format is: List of 7577 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : chr "fkh" ..\$ interactors: chr [1:18] "CG6459" "CG10032" "CG11899" "CkIibeta" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res*. Jan1; 34:D535-9

Examples

```
> data(FruitFlyBioGRIDInteractionOfficial)
> FruitFlyBioGRIDInteractionOfficial[1:5]

[[1]]
[[1]]$name
[1] "fkh"

[[1]]$interactors
 [1] "CG6459" "CG10032" "CG11899" "CkIibeta" "CG15529" "CG41099"
 [7] "CG17666" "Mst84Dc" "Mst84Da" "mus205" "CG34168" "ssh"
[13] "CG7081" "CG9572" "CG31054" "CG4849" "byn"

[[2]]
[[2]]$name
[1] "CG6459"

[[2]]$interactors
 [1] "fkh" "CG11756" "CG12708" "Nmnat" "ng2"
```

| | | | | | |
|------|-----------|-----------|-----------|----------------|-----------|
| [6] | "RpL13A" | "CG15646" | "ttk" | "RpLP1" | "CG4116" |
| [11] | "CG4617" | "Sir2" | "yps" | "granny-smith" | "BEAF-32" |
| [16] | "CG10263" | "Rm62" | "ng1" | "H2.0" | "Sod" |
| [21] | "lola" | "Dsp1" | "vfl" | "CG13041" | "RpS10b" |
| [26] | "CG14418" | "CG14454" | "CG14641" | "sta" | "CG14840" |
| [31] | "CG15649" | "CG41099" | "Xrp1" | "CG18449" | "Hsp60B" |
| [36] | "jbug" | "koko" | "CG8683" | "CG32352" | "CG42299" |
| [41] | "CG32944" | "hbn" | "CG3517" | "CG3598" | "zetaCOP" |
| [46] | "RpL39" | "Hsc70-4" | "aru" | "Borr" | "CG4998" |
| [51] | "B-H1" | "sbb" | "CG7546" | "Eig71Ec" | "Btk29A" |
| [56] | "CG8435" | "CG9083" | "RpL37a" | "CG9213" | "CG9335" |
| [61] | "CG9368" | "CG9986" | "U2af50" | "CG12546" | "CG14452" |
| [66] | "tws" | | | | |

[[3]]

[[3]]\$name

[1] "Tango9"

[[3]]\$interactors

[1] "phr" "DIP1" "mod(mdg4)"

[[4]]

[[4]]\$name

[1] "phr"

[[4]]\$interactors

[1] "Tango9" "CG9472" "Ir54a" "noi" "Tango13"

[[5]]

[[5]]\$name

[1] "Noa36"

[[5]]\$interactors

| | | | | | | | |
|-----|-----------|----------|-----------|-----------|----------|-----------|-------|
| [1] | "CG11635" | "CG3062" | "CG12679" | "CG14546" | "CG1792" | "CG31122" | "Ccn" |
| [8] | "Cdk7" | "CG6945" | "Syt14" | "opa" | "ptc" | | |

FruitFlyBioGRIDInteractionUniqueId

*BioGRID interactions for Fruit fly (Drosophila melanogaster),
unique ids (systematic names) are used as identifiers*

Description

This data set contains a list of interactions for Fruit fly (*Drosophila melanogaster*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, unique ids (systematic names) are used.

Usage

```
data(FruitFlyBioGRIDInteractionUniqueId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 7563 \$:List of 2 ..\$ name : chr "Dmel_CG10002" ..\$ interactors: chr [1:18] "Dmel_CG6459" "Dmel_CG10032" "Dmel_CG11899" "Dmel_CG15224" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(FruitFlyBioGRIDInteractionUniqueId)
> FruitFlyBioGRIDInteractionUniqueId[1:5]

[[1]]
[[1]]$name
[1] "Dmel_CG10002"

[[1]]$interactors
 [1] "Dmel_CG6459" "Dmel_CG10032" "Dmel_CG11899" "Dmel_CG15224" "Dmel_CG15529"
 [6] "Dmel_CG41099" "Dmel_CG17666" "Dmel_CG17945" "Dmel_CG17946" "Dmel_CG1925"
[11] "Dmel_CG34168" "Dmel_CG6238" "Dmel_CG7081" "Dmel_CG9572" "Dmel_CG31054"
[16] "Dmel_CG4849" "Dmel_CG7260"

[[2]]
[[2]]$name
[1] "Dmel_CG6459"

[[2]]$interactors
 [1] "Dmel_CG10002" "Dmel_CG11756" "Dmel_CG12708" "Dmel_CG13645" "Dmel_CG14266"
 [6] "Dmel_CG1475" "Dmel_CG15646" "Dmel_CG1856" "Dmel_CG4087" "Dmel_CG4116"
[11] "Dmel_CG4617" "Dmel_CG5216" "Dmel_CG5654" "Dmel_CG7340" "Dmel_CG10159"
[16] "Dmel_CG10263" "Dmel_CG10279" "Dmel_CG10781" "Dmel_CG11607" "Dmel_CG11793"
[21] "Dmel_CG12052" "Dmel_CG12223" "Dmel_CG12701" "Dmel_CG13041" "Dmel_CG14206"
[26] "Dmel_CG14418" "Dmel_CG14454" "Dmel_CG14641" "Dmel_CG14792" "Dmel_CG14840"
[31] "Dmel_CG15649" "Dmel_CG41099" "Dmel_CG17836" "Dmel_CG18449" "Dmel_CG2830"
[36] "Dmel_CG30092" "Dmel_CG31232" "Dmel_CG8683" "Dmel_CG32352" "Dmel_CG42299"
[41] "Dmel_CG32944" "Dmel_CG33152" "Dmel_CG3517" "Dmel_CG3598" "Dmel_CG3948"
[46] "Dmel_CG3997" "Dmel_CG4264" "Dmel_CG4276" "Dmel_CG4454" "Dmel_CG4998"
[51] "Dmel_CG5529" "Dmel_CG5580" "Dmel_CG7546" "Dmel_CG7608" "Dmel_CG8049"
[56] "Dmel_CG8435" "Dmel_CG9083" "Dmel_CG9091" "Dmel_CG9213" "Dmel_CG9335"
```

```
[61] "Dmel_CG9368" "Dmel_CG9986" "Dmel_CG9998" "Dmel_CG12546" "Dmel_CG14452"
[66] "Dmel_CG6235"
```

```
[[3]]
[[3]]$name
[1] "Dmel_CG10007"
```

```
[[3]]$interactors
[1] "Dmel_CG11205" "Dmel_CG17686" "Dmel_CG32491"
```

```
[[4]]
[[4]]$name
[1] "Dmel_CG11205"
```

```
[[4]]$interactors
[1] "Dmel_CG10007" "Dmel_CG9472" "Dmel_CG14487" "Dmel_CG2925" "Dmel_CG32632"
```

```
[[5]]
[[5]]$name
[1] "Dmel_CG10009"
```

```
[[5]]$interactors
 [1] "Dmel_CG11635" "Dmel_CG3062" "Dmel_CG12679" "Dmel_CG14546" "Dmel_CG1792"
 [6] "Dmel_CG31122" "Dmel_CG32183" "Dmel_CG3319" "Dmel_CG6945" "Dmel_CG9778"
[11] "Dmel_CG1133" "Dmel_CG2411"
```

HumanBioGRIDInteractionEntrezId

BioGRID interactions for human (Homo sapiens), entrez ids are used as identifiers

Description

This data set contains a list of interactions for human (*Homo sapiens*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(HumanBioGRIDInteractionEntrezId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 10213 \$:List of 2 ..\$ name : int 6416 ..\$ interactors: int [1:25] 2318 192176 2318 2318 9043 5599 5871 5609 1326 207 ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```
> data(HumanBioGRIDInteractionEntrezId)
> HumanBioGRIDInteractionEntrezId[1]

[[1]]
[[1]]$name
[1] 6416

[[1]]$interactors
 [1] 2318 192176 9043 5599 5871 5609 1326 207 23162 4296
[11] 4294 4216 409 10746 4214 4868
```

HumanBioGRIDInteractionOfficial

BioGRID interactions for human (Homo sapiens), official names are used as identifiers

Description

This data set contains a list of interactions for human (*Homo sapiens*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, official names ids are used.

Usage

```
data(HumanBioGRIDInteractionOfficial)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 10098 \$:List of 2 ..\$ name : chr "MAP2K4" ..\$ interactors: chr [1:25] "FLNC" "Flna" "FLNC" "FLNC" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```

> data(HumanBioGRIDInteractionOfficial)
> HumanBioGRIDInteractionOfficial[1]

[[1]]
[[1]]$name
[1] "MAP2K4"

[[1]]$interactors
 [1] "FLNC"      "Flna"      "SPAG9"     "MAPK8"     "MAP4K2"    "MAP2K7"
 [7] "MAP3K8"    "AKT1"      "MAPK8IP3"  "MAP3K11"   "MAP3K10"   "MAP3K4"
[13] "ARRB2"    "MAP3K2"    "MAP3K1"    "NPHS1"

```

HumanBioGRIDInteractionUniqueId

BioGRID interactions for human (Homo sapiens), unique ids (systematic names) are used as identifiers

Description

This data set contains a list of interactions for human (Homo sapiens). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, unique ids (systematic names) are used.

Usage

```
data(HumanBioGRIDInteractionUniqueId)
```

Format

The format is: List of 2785 A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: \$:List of 2 ..\$ name : chr "-" ..\$ interactors: chr "-"

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```

> data(HumanBioGRIDInteractionUniqueId)
> HumanBioGRIDInteractionUniqueId[1]

```

```
[[1]]
[[1]]$name
[1] "-"

[[1]]$interactors
[1] "-"
```

MouseBioGRIDInteractionEntrezId

BioGRID interactions for Mouse (Mus musculus), entrez ids are used as identifiers

Description

This data set contains a list of interactions for Mouse (*Mus musculus*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(MouseBioGRIDInteractionEntrezId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 2361 \$:List of 2 ..\$ name : int 4087 ..\$ interactors: int [1:28] 75141 19376 69159 72433 69288 54126 78294 57443 18412 52432 ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(MouseBioGRIDInteractionEntrezId)
> MouseBioGRIDInteractionEntrezId[1:5]

[[1]]
[[1]]$name
[1] 4087

[[1]]$interactors
[1] 75141 19376 69159 72433 69288 54126 78294 57443 18412 52432
[11] 26397 74137 16589 73341 50780 16876 66854 66894 80837 11854
[21] 80981 16801 71713 108960 16909 17126 17127 66603
```



```
[[2]]
```

```
[[2]]$name
```

```
[1] 75141
```

```
[[2]]$interactors
```

```
[1] 4087 4088 4089 7046 90 658 57154 64750
```

```
[[3]]
```

```
[[3]]$name
```

```
[1] 19376
```

```
[[3]]$interactors
```

```
[1] 4087 4089 7046
```

```
[[4]]
```

```
[[4]]$name
```

```
[1] 69159
```

```
[[4]]$interactors
```

```
[1] 4087 7046 90 658
```

```
[[5]]
```

```
[[5]]$name
```

```
[1] 72433
```

```
[[5]]$interactors
```

```
[1] 4087 4088 4089 7046 658
```

MouseBioGRIDInteractionOfficial

*BioGRID interactions for Mouse (Mus musculus), official names
ids are used as identifiers*

Description

This data set contains a list of interactions for Mouse (*Mus musculus*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, official names are used.

Usage

```
data(MouseBioGRIDInteractionOfficial)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 2354 \$:List of 2 ..\$ name : chr "SMAD2" ..\$ interactors: chr [1:28] "Rasd2" "Rab34" "Rheb11" "Rab38" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(MouseBioGRIDInteractionOfficial)
> MouseBioGRIDInteractionOfficial[1:5]

[[1]]
[[1]]$name
[1] "SMAD2"

[[1]]$interactors
 [1] "Rasd2" "Rab34" "Rheb11" "Rab38" "Rhobtb1" "Arhgef7" "Rps27a"
 [8] "Fbxo3" "Sqstm1" "Ppp2r2d" "Map2k3" "Nuak2" "Uhmk1" "Arhgef6"
[15] "Rgs3" "Lhx9" "Trim35" "Wwp2" "Rhoj" "Rhod" "Arl4d"
[22] "Arhgef1" "Cdc40" "Irak2" "Lmo2" "Smad2" "Smad3" "Sip1"

[[2]]
[[2]]$name
[1] "Rasd2"

[[2]]$interactors
[1] "SMAD2" "SMAD3" "SMAD4" "TGFB1" "ACVR1" "BMP1B" "SMURF1" "SMURF2"

[[3]]
[[3]]$name
[1] "Rab34"

[[3]]$interactors
[1] "SMAD2" "SMAD4" "TGFB1"

[[4]]
[[4]]$name
[1] "Rheb11"

[[4]]$interactors
[1] "SMAD2" "TGFB1" "ACVR1" "BMP1B"
```

```
[[5]]
[[5]]$name
[1] "Rab38"

[[5]]$interactors
[1] "SMAD2" "SMAD3" "SMAD4" "TGFBR1" "BMPR1B"
```

MouseBioGRIDInteractionUniqueId

BioGRID interactions for Mouse (Mus musculus), unique ids (systematic names) are used as identifiers

Description

This data set contains a list of interactions for Mouse (*Mus musculus*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(MouseBioGRIDInteractionUniqueId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example:

```
List of 648 $ :List of 2 ..$ name : chr "-" ..$ interactors: chr "-"
```

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```
> data(MouseBioGRIDInteractionUniqueId)
> MouseBioGRIDInteractionUniqueId[1:5]

[[1]]
[[1]]$name
[1] "-"

[[1]]$interactors
[1] "-"
```

```
[[2]]
[[2]]$name
[1] "-"
```

```
[[2]]$interactors
[1] "-"
```

```
[[3]]
[[3]]$name
[1] "RP11-96L7.1"
```

```
[[3]]$interactors
[1] "RP23-31C9.4" "RP23-382C19.6" "RP23-465A12.1" "RP24-196O13.1"
[5] "RP23-271L22.3" "RP24-189G18.2" "RP23-145E1.5" "RP23-27I6.6"
[9] "RP23-47P18.14" "RP23-42H18.3" "RP23-358G23.4" "RP23-19I2.1"
[13] "RP23-467E19.1" "RP23-450P9.2" "RP23-378G22.2" "RP23-209C6.3"
[17] "RP23-185A18.1" "RP23-457P12.1" "RP23-273O7.1" "RP23-348N2.1"
[21] "RP23-211K16.1" "RP23-372E6.1" "RP23-446O17.1" "RP23-319B15.1"
[25] "RP23-125A1.5" "RP23-419G21.5" "RP23-407I21.7" "RP23-25D18.1"
[29] "RP23-185A18.5" "RP23-234K24.1" "RP23-92B18.5" "RP23-38K18.3"
[33] "RP23-220K22.2" "RP23-261L3.4" "MNCb-2778"
```

```
[[4]]
[[4]]$name
[1] "RP23-31C9.4"
```

```
[[4]]$interactors
[1] "RP11-96L7.1"
```

```
[[5]]
[[5]]$name
[1] "RP23-382C19.6"
```

```
[[5]]$interactors
[1] "RP11-96L7.1"
```

S.PombeBioGRIDInteractionEntrezId

BioGRID interactions for fission yeast (Schizosaccharomyces pombe), entrez ids are used as identifiers

Description

This data set contains a list of interactions for fission yeast (*Schizosaccharomyces pombe*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(S.PombeBioGRIDInteractionEntrezId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 2110 \$:List of 2 ..\$ name : int 2539495 ..\$ interactors: int [1:10] 2541652 2542008 2539252 2541055 2542677 2543539 2541652 2540024 2539649 2542008

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(S.PombeBioGRIDInteractionEntrezId)
> S.PombeBioGRIDInteractionEntrezId[1:5]

[[1]]
[[1]]$name
[1] 2539495

[[1]]$interactors
[1] 2541652 2542008 2539252 2541055 2542677 2543539 2540024 2539649

[[2]]
[[2]]$name
[1] 2541652

[[2]]$interactors
 [1] 2539495 2539442 2543239 2541818 2542151 2540329 2542677 2542200 2542632
[10] 2539123 2538951 2540810 2542861 2540258 2539869 2540363 2542804 2540283
[19] 2539572 2542140 3361487 2541982 2541293 2542972 2539027 2541055 2541209
[28] 2542558 2541372 2539781 2541867 2539244 2540473

[[3]]
[[3]]$name
[1] 2540719

[[3]]$interactors
 [1] 2543289 2539087 2538959 2541512 2539686 2542266 2542313 2539527 2543204
[10] 3361533 2541051 2540345 2540627 2540255 2542374 2543580 2543281 2542757
[19] 2543222 2539090 2539209 2541643 2541746 2543544 2542558 2541159 2540630
[28] 2539838 2543387 2540917 2540470 2541165 2540633 2542824 2539933 2540020
```

```
[37] 2542150 2541194 2539881 2540589 2539285 2543685 2541620 2540719 2543240
[46] 2540992 2543639 2539164 2539737 2540234 2542366 2543577 2540352 2540244
[55] 2540348 2540911 2541120 2541209 2541270 3361323 2541580 2542007 2542207
[64] 2542967 2543164 2543436 2541849 2541088 3361306 2540601 2538775 2538706
[73] 2542226 2541604
```

```
[[4]]
[[4]]$name
[1] 2543289
```

```
[[4]]$interactors
 [1] 2540719 2543629 2542083 2540255 2539627 2541849 2543164 2539527 2543204
[10] 2542374 2543580 2543281 2539090 2539209 2542757 2541746 2542313 2543387
[19] 2540627 2543240 2538959 2540470 2539933 2540020 2539881 2542029 2541536
[28] 2541628 2541580 2542207 2542558 2541941 2542007 2541656 2543510 2543452
[37] 2543577 2543319 2542198 2543668 2543372 2540023 2539613 2539911 2539960
[46] 2540115 2539714 2540352 2540436 2540348 2540353 3361323 2540945 2541101
[55] 2541088 2541120 2540735 2541135 2541270 2541251 2538930 2538913 2539375
[64] 2539497 2542023 2541834 2540244 2539130 2538926 2541512 2542677 2543078
[73] 2540887 2540911 2543436 2539041 2540582 2540589 2539087 2540728
```

```
[[5]]
[[5]]$name
[1] 2539087
```

```
[[5]]$interactors
 [1] 2540719 2540470 2542266 2538959 2542029 2543666 2541643 2540992 2543281
[10] 2541512 2539686 2543240 2539527 2543606 2540627 2539869 2539123 2540255
[19] 2539090 2542313 2540032 2541849 2542558 2539164 2542083 2541695 2542632
[28] 2543323 2540630 2540620 2542749 2539004 2541620 2540917 2541710 2542824
[37] 2541165 2539933 2540020 2542150 2541194 2540728 3361323 2539285 2542844
[46] 2542252 2538689 2541159 2540013 2543407 2539627 2542366 2540352 2541120
[55] 2542007 2542207 2542967 2543436 2542196 2539402 2539208 2542503 2542542
[64] 2541270 2542226 2539499 2539641 2543237 2541265 2543289 2539087 2539894
[73] 2538775 2542703
```

S.PombeBioGRIDInteractionOfficial

BioGRID interactions for fission yeast (Schizosaccharomyces pombe), official names are used as identifiers

Description

This data set contains a list of interactions for fission yeast (*Schizosaccharomyces pombe*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, official names are used.

Usage

```
data(S.PombeBioGRIDInteractionOfficial)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 2110 \$:List of 2 ..\$ name : chr "ptc1" ..\$ interactors: chr [1:10] "sty1" "ptc3" "ptc2" "wis1" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(S.PombeBioGRIDInteractionOfficial)
> S.PombeBioGRIDInteractionOfficial[1:5]

[[1]]
[[1]]$name
[1] "ptc1"

[[1]]$interactors
[1] "sty1" "ptc3" "ptc2" "wis1" "pyp1" "hsp90" "ppb1" "pck2"

[[2]]
[[2]]$name
[1] "sty1"

[[2]]$interactors
[1] "ptc1" "cut1" "sod2" "pub1" "csx1"
[6] "atf1" "pyp1" "pyp2" "cdc25" "wee1"
[11] "ssp1" "cyr1" "msa1" "ste11" "cdc2"
[16] "atf21" "hal4" "leu1" "tpx1" "pap1"
[21] "crm1" "cmk2" "cdc37" "sin1" "srk1"
[26] "wis1" "mcs4" "rad1" "SPBP8B7.28c" "pka1"
[31] "sck2" "asp1" "tor1"

[[3]]
[[3]]$name
[1] "rad3"

[[3]]$interactors
[1] "rad26" "chk1" "cds1" "nse6" "rhp18" "cdc45" "taz1" "pof3" "cid13"
[10] "meu13" "rad13" "uve1" "cdc20" "cdc6" "cdt2" "rhp51" "rad4" "rad32"
[19] "slp1" "pku70" "tel1" "rad17" "hus1" "rad9" "rad1" "orc2" "mcm7"
[28] "cdc23" "mcl1" "skp1" "orc1" "hsk1" "hob1" "srw1" "spp2" "pcn1"
[37] "rec12" "psf2" "top3" "mad2" "sap1" "rhp55" "rqh1" "rad3" "mrc1"
[46] "crb2" "tel2" "cdc21" "nrm1" "cdc10" "hst4" "srs2" "csn1" "fbh1"
```

```

[55] "exo1" "nse5" "rhp14" "mcs4" "ctf18" "swi3" "pli1" "rhp57" "ddb1"
[64] "rhp41" "rad2" "tlg2" "cdc17" "pob3" "nbs1" "trt1" "ssb3" "ctp1"
[73] "hta2" "mek1"

```

```
[[4]]
```

```
[[4]]$name
```

```
[1] "rad26"
```

```
[[4]]$interactors
```

| | | | | |
|------|---------------|----------------|-----------------|----------------|
| [1] | "rad3" | "pol1" | "cdc1" | "cdc6" |
| [5] | "cdc27" | "cdc17" | "rad2" | "pof3" |
| [9] | "cid13" | "cdt2" | "rhp51" | "rad4" |
| [13] | "pku70" | "tel1" | "rad32" | "hus1" |
| [17] | "taz1" | "mcl1" | "cdc20" | "mrc1" |
| [21] | "cds1" | "orc1" | "spp2" | "pcn1" |
| [25] | "top3" | "rad24" | "SPAC1071.02" | "pds5" |
| [29] | "pli1" | "ddb1" | "rad1" | "tfs1" |
| [33] | "rhp57" | "pcf3" | "nth1" | "ssu72" |
| [37] | "srs2" | "trm10" | "rdp1" | "mfh1" |
| [41] | "ase1" | "SPBC11C11.10" | "SPBC11C11.11c" | "amo1" |
| [45] | "pho2" | "rap1" | "SPBC1861.07" | "csn1" |
| [49] | "ngg1" | "exo1" | "SPBC2F12.12c" | "swi3" |
| [53] | "rtt109" | "ptn1" | "pob3" | "rhp14" |
| [57] | "tas3" | "SPBC839.03c" | "ctf18" | "SPBC947.10" |
| [61] | "dcr1" | "ccr4" | "mug154" | "alp14" |
| [65] | "ufd2" | "gda1" | "fbh1" | "SPCC1919.03c" |
| [69] | "SPCC306.07c" | "nse6" | "pyp1" | "dcc1" |
| [73] | "swi10" | "nse5" | "tlg2" | "caf1" |
| [77] | "nda3" | "mad2" | "chk1" | "swi1" |

```
[[5]]
```

```
[[5]]$name
```

```
[1] "chk1"
```

```
[[5]]$interactors
```

| | | | | | |
|------|---------|---------|---------|---------|--------------|
| [1] | "rad3" | "orc1" | "cdc45" | "cds1" | "rad24" |
| [6] | "cdr1" | "rad17" | "crb2" | "rad4" | "nse6" |
| [11] | "rhp18" | "mrc1" | "pof3" | "rad31" | "cdc20" |
| [16] | "cdc2" | "wee1" | "cdc6" | "pku70" | "taz1" |
| [21] | "top1" | "cdc17" | "rad1" | "cdc21" | "cdc1" |
| [26] | "cdc22" | "cdc25" | "spp1" | "mcm7" | "mcm2" |
| [31] | "rhp54" | "mus81" | "rqh1" | "skp1" | "msc1" |
| [36] | "srw1" | "hsk1" | "spp2" | "pcn1" | "rec12" |
| [41] | "psf2" | "swi1" | "swi3" | "sap1" | "crb3" |
| [46] | "rad25" | "sum3" | "orc2" | "cdc18" | "cdc24" |
| [51] | "cdc27" | "hst4" | "csn1" | "rhp14" | "rhp57" |
| [56] | "ddb1" | "rhp41" | "tlg2" | "hus5" | "SPCC613.03" |
| [61] | "cek1" | "dcp2" | "rfp1" | "ctf18" | "hta2" |
| [66] | "hta1" | "cut2" | "mus7" | "tra1" | "rad26" |
| [71] | "chk1" | "rid1" | "ssb3" | "pot1" | |

S.PombeBioGRIDInteractionUniqueId

BioGRID interactions for fission yeast (Schizosaccharomyces pombe), unique ids (systematic names) are used as identifiers

Description

This data set contains a list of interactions for fission yeast (*Schizosaccharomyces pombe*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, unique ids (systematic names) are used.

Usage

```
data(S.PombeBioGRIDInteractionUniqueId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 2097 \$:List of 2 ..\$ name : chr "SPCC4F11.02" ..\$ interactors: chr [1:10] "SPAC24B11.06c" "SPAC2G11.07c" "SPCC1223.11" "SPBC409.07c" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(S.PombeBioGRIDInteractionUniqueId)
> S.PombeBioGRIDInteractionUniqueId[1:5]

[[1]]
[[1]]$name
[1] "SPCC4F11.02"

[[1]]$interactors
[1] "SPAC24B11.06c" "SPAC2G11.07c" "SPCC1223.11" "SPBC409.07c"
[5] "SPAC26F1.10c" "SPAC926.04c" "SPBP4H10.04" "SPBC12D12.04c"

[[2]]
[[2]]$name
[1] "SPAC24B11.06c"

[[2]]$interactors
[1] "SPCC4F11.02" "SPCC5E4.04" "SPAC977.10" "SPAC11G7.02"
```

```

[5] "SPAC17A2.09c" "SPBC29B5.01" "SPAC26F1.10c" "SPAC19D5.01"
[9] "SPAC24H6.05" "SPCC18B5.03" "SPCC297.03" "SPBC19C7.03"
[13] "SPAC13G7.13c" "SPBC32C12.02" "SPBC11B10.09" "SPBC2F12.09c"
[17] "SPAC29A4.16" "SPBC1A4.02c" "SPCC576.03c" "SPAC1783.07c"
[21] "SPAC1805.17" "SPAC23A1.06c" "SPBC9B6.10" "SPAPYUG7.02c"
[25] "SPCC1322.08" "SPBC409.07c" "SPBC887.10" "SPAC1952.07"
[29] "SPBP8B7.28c" "SPBC106.10" "SPAC22E12.14c" "SPCC1672.06c"
[33] "SPBC30D10.10c"

```

```
[[3]]
```

```
[[3]]$name
```

```
[1] "SPBC216.05"
```

```
[[3]]$interactors
```

```

[1] "SPAC9E9.08" "SPCC1259.13" "SPCC18B5.11c" "SPAC11E3.08c"
[5] "SPBC1734.06" "SPAC17D4.02" "SPAC16A10.07c" "SPCC338.16"
[9] "SPAC821.04c" "SPAC222.15" "SPBC3E7.08c" "SPBC19C7.09c"
[13] "SPBC25H2.13c" "SPBC336.04" "SPAC17H9.19c" "SPAC644.14c"
[17] "SPAC23C4.18c" "SPAC13C5.07" "SPAC821.08c" "SPCC126.02c"
[21] "SPCC23B6.03c" "SPAC14C4.13" "SPAC20G4.04c" "SPAC664.07c"
[25] "SPAC1952.07" "SPBC685.09" "SPBC25D12.03c" "SPBC1347.10"
[29] "SPAPB1E7.02c" "SPBC409.05" "SPBC29A10.15" "SPBC776.12c"
[33] "SPBC21D10.12" "SPAC144.13c" "SPBC17D11.06" "SPBC16D10.09"
[37] "SPAC17A5.11" "SPBC725.13c" "SPBC16G5.12c" "SPBC20F10.06"
[41] "SPCC1672.02c" "SPAC3C7.03c" "SPAC2G11.12" "SPBC216.05"
[45] "SPAC694.06c" "SPBC342.05" "SPAC458.03" "SPCC16A11.17"
[49] "SPBC16A3.07c" "SPBC336.12c" "SPAC1783.04c" "SPAC4H3.05"
[53] "SPBC215.03c" "SPBC336.01" "SPBC29A10.05" "SPBC651.10"
[57] "SPBC649.03" "SPBC887.10" "SPBC902.02c" "SPBC30D10.04"
[61] "SPAC1687.05" "SPAC20H4.07" "SPAC17H9.10c" "SPAC12B10.12c"
[65] "SPAC3G6.06c" "SPAC823.05c" "SPAC20G8.01" "SPBC609.05"
[69] "SPBC6B1.09c" "SPBC29A3.14c" "SPCC23B6.05c" "SPCC338.08"
[73] "SPAC19G12.06c" "SPAC14C4.03"

```

```
[[4]]
```

```
[[4]]$name
```

```
[1] "SPAC9E9.08"
```

```
[[4]]$interactors
```

```

[1] "SPBC216.05" "SPAC3H5.06c" "SPAC27E2.05" "SPBC336.04"
[5] "SPBC1734.02c" "SPAC20G8.01" "SPAC3G6.06c" "SPCC338.16"
[9] "SPAC821.04c" "SPAC17H9.19c" "SPAC644.14c" "SPAC23C4.18c"
[13] "SPCC126.02c" "SPCC23B6.03c" "SPAC13C5.07" "SPAC20G4.04c"
[17] "SPAC16A10.07c" "SPAPB1E7.02c" "SPBC25H2.13c" "SPAC694.06c"
[21] "SPCC18B5.11c" "SPBC29A10.15" "SPBC17D11.06" "SPBC16D10.09"
[25] "SPBC16G5.12c" "SPAC8E11.02c" "SPAC1071.02" "SPAC110.02"
[29] "SPAC1687.05" "SPAC17H9.10c" "SPAC1952.07" "SPAC20H4.03c"
[33] "SPAC20H4.07" "SPAC25H1.06" "SPAC30D11.07" "SPAC3G9.04"
[37] "SPAC4H3.05" "SPAC6B12.09" "SPAC6F12.09" "SPAC9.05"
[41] "SPAPB1A10.09" "SPBC11C11.10" "SPBC11C11.11c" "SPBC15D4.10c"

```

```
[45] "SPBC15D4.15" "SPBC1778.02" "SPBC1861.07" "SPBC215.03c"
[49] "SPBC28F2.10c" "SPBC29A10.05" "SPBC2F12.12c" "SPBC30D10.04"
[53] "SPBC342.06c" "SPBC609.02" "SPBC609.05" "SPBC649.03"
[57] "SPBC83.03c" "SPBC839.03c" "SPBC902.02c" "SPBC947.10"
[61] "SPCC188.13c" "SPCC31H12.08c" "SPCC4G3.11" "SPCC895.07"
[65] "SPAC20H4.10" "SPAC824.08" "SPBC336.01" "SPCC1919.03c"
[69] "SPCC306.07c" "SPAC11E3.08c" "SPAC26F1.10c" "SPAC31A2.15c"
[73] "SPBC4F6.15c" "SPBC651.10" "SPAC823.05c" "SPCC18.06c"
[77] "SPBC26H8.07c" "SPBC20F10.06" "SPCC1259.13" "SPBC216.06c"
```

```
[[5]]
```

```
[[5]]$name
```

```
[1] "SPCC1259.13"
```

```
[[5]]$interactors
```

```
[1] "SPBC216.05" "SPBC29A10.15" "SPAC17D4.02" "SPCC18B5.11c"
[5] "SPAC8E11.02c" "SPAC644.06c" "SPAC14C4.13" "SPBC342.05"
[9] "SPAC23C4.18c" "SPAC11E3.08c" "SPBC1734.06" "SPAC694.06c"
[13] "SPCC338.16" "SPAC4C5.04" "SPBC25H2.13c" "SPBC11B10.09"
[17] "SPCC18B5.03" "SPBC336.04" "SPCC126.02c" "SPAC16A10.07c"
[21] "SPBC1703.14c" "SPAC20G8.01" "SPAC1952.07" "SPCC16A11.17"
[25] "SPAC27E2.05" "SPAC1F7.05" "SPAC24H6.05" "SPAC6B12.10c"
[29] "SPBC25D12.03c" "SPBC4.04c" "SPAC15A10.03c" "SPCC4G3.05c"
[33] "SPAC2G11.12" "SPBC409.05" "SPAC343.11c" "SPAC144.13c"
[37] "SPBC776.12c" "SPBC17D11.06" "SPBC16D10.09" "SPAC17A5.11"
[41] "SPBC725.13c" "SPBC216.06c" "SPBC30D10.04" "SPCC1672.02c"
[45] "SPAC13G7.08c" "SPAC17A2.13c" "SPCC1795.11" "SPBC685.09"
[49] "SPBC14C8.07c" "SPAC8F11.07c" "SPBC1734.02c" "SPAC1783.04c"
[53] "SPBC215.03c" "SPBC649.03" "SPAC20H4.07" "SPAC17H9.10c"
[57] "SPAC12B10.12c" "SPAC823.05c" "SPAC30D11.13" "SPCC613.03"
[61] "SPCC1450.11c" "SPAC19A8.12" "SPAC19A8.10" "SPBC902.02c"
[65] "SPAC19G12.06c" "SPCC622.08c" "SPBC14C8.01c" "SPAC6B12.02c"
[69] "SPBP16F5.03c" "SPAC9E9.08" "SPCC1259.13" "SPBC1709.12"
[73] "SPCC23B6.05c" "SPAC26H5.06"
```

YeastBioGRIDInteractionEntrezId

BioGRID interactions for budding yeast (Saccharomyces cerevisiae), entrez ids are used as identifiers

Description

This data set contains a list of interactions for budding yeast (*Saccharomyces cerevisiae*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(YeastBioGRIDInteractionEntrezId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 6049 \$:List of 2 ..\$ name : int 850504 ..\$ interactors: int [1:887] 852545 853814 856220 853086 850749 853986 856848 851407 856518 854317 ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. Nucleic Acids Res. Jan1; 34:D535-9

Examples

```
> data(YeastBioGRIDInteractionEntrezId)
> YeastBioGRIDInteractionEntrezId[1:5]

[[1]]
[[1]]$name
[1] 850504

[[1]]$interactors
 [1] 852545 853814 856220 853086 850749 853986 856848 851407 856518 854317
[11] 856918 852261 855083 851447 851403 852100 851770 855499 855180 853112
[21] 856522 853348 851797 853452 852611 850520 854913 854418 856418 851204
[31] 851562 850893 855584 850676 851934 855974 852532 854966 855834 853364
[41] 852728 856490 855136 850504 855117 851029 855450 851996 855765 854353
[51] 854289 850423 851051 854504 854150 855616 852885 855841 855478 851707
[61] 852971 855728 850346 856702 854549 851771 851148 851376 852122 850450
[71] 852499 856862 851372 854668 855506 855836 856584 855302 855645 850320
[81] 851798 856899 856425 851997 854079 850400 851644 853668 852095 851737
[91] 856050 851891 851087 856249 855454 850367 854200 854822 854777 855048
[101] 855503 850534 855094 855665 855449 850980 853144 851752 852577 854042
[111] 856557 851048 852782 850863 853155 855238 851788 856481 853318 850973
[121] 854694 851984 850711 856463 851191 850897 851731 855473 852969 852028
[131] 852392 855922 855428 852864 854204 850440 852222 852557 850728 856061
[141] 850966 851832 856191 851967 852713 853301 853136 852053 855217 855515
[151] 853568 852406 852547 856696 852772 853862 850741 854309 856301 851412
[161] 853638 852424 850782 852427 852415 856924 851676 853728 851962 855613
[171] 855586 851217 852418 850456 851441 851336 851776 851844 852810 852804
[181] 853178 856409 854713 853260 853226 853743 853870 850706 851002 854992
[191] 854902 855589 855552 855496 855788 854035 854509 856186 851212 852265
[201] 852191 852332 852461 852477 850349 850427 851484 851478 851421 851419
[211] 851339 851596 851612 851618 851672 851904 851905 851921 852064 856686
[221] 856739 856759 856860 856921 852822 852931 852977 852984 853065 856382
[231] 856375 856435 856614 854762 854756 854706 854652 853279 853250 853544
[241] 853864 853811 853782 853957 853970 850712 850763 850811 850898 850923
[251] 851084 851085 854980 855173 855226 855483 855475 855466 854179 854232
[261] 854470 856040 856156 856158 856204 851220 851250 852254 852341 852370
```

[271] 852431 852518 852582 850360 851558 851491 851442 851591 851625 851646
 [281] 851722 851887 852050 852130 856715 856689 856659 856892 850593 852848
 [291] 852799 852774 852768 852716 852675 852644 852903 852980 853030 853077
 [301] 853170 856404 856458 856512 856552 856576 854812 854804 854773 854686
 [311] 854672 854647 853366 853303 853217 853491 853566 853868 853825 850684
 [321] 850776 850840 850933 851135 854879 855086 855088 855101 855122 855169
 [331] 855364 855727 855569 855557 855529 855462 855772 855773 854142 854099
 [341] 854208 854370 854420 854460 854505 854542 856105 856103 855954 855903
 [351] 855844 856134 856148 856227 855224 852869 850998 855532 854481 853202
 [361] 851768 853438 854456 856422 856607 850554 854284 851318 852755 396422
 [371] 851244 851213 852303 852405 852469 850441 851494 851542 851706 851764
 [381] 851831 851869 851929 851935 852837 852882 852968 853020 853110 856358
 [391] 856364 856399 854718 854725 854771 854818 853276 853281 853350 853538
 [401] 853581 853636 853732 853763 853836 853890 853916 850683 850654 850768
 [411] 850800 850887 854915 854949 855085 855096 855154 855186 855634 855644
 [421] 855647 855710 854195 854391 854449 854531 855835 856071 856309 852563
 [431] 851978 852023 856867 856908 852708 856583 854819 853322 853433 853471
 [441] 853721 850810 850999 851086 851088 851130 855143 855575 854086 854087
 [451] 854294 856016 856019 856188 856212 852444 852519 852035 852099 852136
 [461] 856796 856802 856835 856873 856903 856923 853209 851209 852348 852377
 [471] 852459 851423 851454 851727 856895 852661 852826 852870 853196 856511
 [481] 856514 856556 854809 853280 853966 850639 850658 850778 850843 851042
 [491] 851055 851100 851126 854939 854953 855003 855126 855254 855568 855581
 [501] 855603 855787 854159 854361 855875 855964 856051 856276 852229 852276
 [511] 850451 851378 851758 851950 856909 852609 852702 852796 852839 853026
 [521] 853031 856445 853313 850745 851164 854871 855264 855345 855360 855639
 [531] 855656 854066 854247 854371 854383 854500 856037 856135 856170 856173
 [541] 856210 856293 851223 851259 851289 852368 852436 852454 851452 851704
 [551] 851834 852002 856827 852659 852670 852854 852861 852972 852993 852997
 [561] 853089 856415 856530 856545 853305 853347 853375 853502 853583 853818
 [571] 853876 853920 853928 853929 850668 850677 850752 851132 855012 855339
 [581] 855709 854153 854252 854261 854280 854300 854443 855917 855919 855920
 [591] 855929 855958 856081 856123 856128 853783 851263 851334 856547 854664
 [601] 853587 856311 851520 850633 851635 851115 855565 854937 850620

[[2]]

[[2]]\$name

[1] 852545

[[2]]\$interactors

[1] 850504 856425 852515 855346 854322 854856 853568 850777 853423 855355

[11] 855644 854090 853061 854076 852403 854900

[[3]]

[[3]]\$name

[1] 853814

[[3]]\$interactors

[1] 850504 853958 855101 851782 851579 853010 852819 853674 854984 853909

[11] 851919 853719 853041 854662 852787 855625 854542 854778 853817 856648

[21] 852794 855892 851708

[[4]]

[[4]]\$name

[1] 856220

[[4]]\$interactors

[1] 850504 855450 852724 853017 852732 856457 851025 855219 854335 854904

[11] 856901 850713 855676 852649 852879 851770 850505 855687 856321 855830

[21] 850998 854123 855512 851369 852709 856909

[[5]]

[[5]]\$name

[1] 853086

[[5]]\$interactors

[1] 850504 855450 851748 855405 856767 852329 856398 855449 856413 855224

[11] 856195 853529 852874 856478 855836 850620 852951 855441 852883 850790

[21] 855242 850745 855029 852872 856418 850554 850521 851659 853207

YeastBioGRIDInteractionOfficial

BioGRID interactions for budding yeast (Saccharomyces cerevisiae), official names are used as identifiers

Description

This data set contains a list of interactions for budding yeast (*Saccharomyces cerevisiae*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, Entrez ids are used.

Usage

```
data(YeastBioGRIDInteractionOfficial)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 6032 \$:List of 2 ..\$ name : chr "ACT1" ..\$ interactors: chr [1:887] "ALG7" "ASK1" "COG4" "ERG1" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```

> data(YeastBioGRIDInteractionOfficial)
> YeastBioGRIDInteractionOfficial[1:5]

[[1]]
[[1]]$name
[1] "ACT1"

[[1]]$interactors
  [1] "ALG7"      "ASK1"      "COG4"      "ERG1"      "FRS1"      "HRT1"
  [7] "LSM4"      "NOP14"     "ORC6"      "PNO1"      "RAD3"      "RFT1"
 [13] "RNA14"     "RRP42"     "SAS10"     "SLD5"      "SLY1"      "SSU72"
 [19] "SWP1"      "YPP1"      "YHR122W"   "PHS1"      "GCD6"      "CYR1"
 [25] "DOC1"      "EPL1"      "ERG13"     "ESA1"      "MYO1"      "MYO4"
 [31] "NHP10"     "PWP1"      "SRV2"      "COF1"      "SWR1"      "TAF14"
 [37] "SWC5"      "VPS71"     "IQG1"      "ARP4"      "INO80"     "YNG2"
 [43] "MYO5"      "ACT1"      "AIP1"      "BUD6"      "BNI1"      "RVS167"
 [49] "SSK2"      "LAS17"     "PFY1"      "YIH1"      "VRP1"      "MYO2"
 [55] "HTZ1"      "YAF9"      "SWC4"      "RVB2"      "SLA2"      "SAC6"
 [61] "TWF1"      "HRB1"      "GBP2"      "VAC8"      "SCP1"      "RVB1"
 [67] "CRN1"      "DLD2"      "SMT3"      "ABP1"      "BEM1"      "RSP5"
 [73] "GCS1"      "TPM2"      "IES2"      "HSP82"     "OYE2"      "TIF11"
 [79] "TPM1"      "SR09"      "TCP1"      "BEM2"      "SLT2"      "SAC7"
 [85] "MDM20"     "FEN1"      "IPT1"      "SAC1"      "VPS52"     "SAC3"
 [91] "SUR1"      "SUR2"      "SUR4"      "NAT3"      "PIK1"      "RVS161"
 [97] "SHE4"      "PAN1"      "CAP2"      "HOF1"      "MGS1"      "IES1"
[103] "ABF2"      "ARP5"      "SEC2"      "MCM5"      "SMI1"      "SUP35"
[109] "CHK1"      "INO4"      "SPO12"     "NUP2"      "SRM1"      "SEC10"
[115] "PFK1"      "CIK1"      "UME6"      "LRP1"      "LSM1"      "SEC22"
[121] "HOS4"      "LSM6"      "UBR2"      "SSF1"      "CLN3"      "YKE2"
[127] "ENT5"      "RPA49"     "PAC10"     "RAD30"     "RXT2"      "TCO89"
[133] "CAF40"     "GET1"      "CKB2"      "PAT1"      "SHP1"      "MTC4"
[139] "RIC1"      "ELC1"      "YPT6"      "MNN10"     "OPY2"      "SEM1"
[145] "RAD54"     "RPB4"      "TOS2"      "SSN2"      "SPT21"     "RTT106"
[151] "SOD1"      "CMD1"      "ISW1"      "EAF5"      "MLC1"      "CAP1"
[157] "IES3"      "ARP8"      "BSP1"      "CCT4"      "YKT6"      "VMA2"
[163] "NYV1"      "SHE3"      "TEF2"      "BMH1"      "BMH2"      "SHE2"
[169] "EAF1"      "NOP15"     "EAF7"      "TPD3"      "GRS1"      "CDC50"
[175] "NUP84"     "RPL35A"    "REF2"      "RKM4"      "RPB9"      "RPL7A"
[181] "BUD32"     "YSC84"     "PRK1"      "PFD1"      "RCY1"      "SBA1"
[187] "VPS1"      "PSR2"      "ATP14"     "PPZ1"      "RPL6A"     "FYV6"
[193] "PSD1"      "CNM67"     "POP2"      "YOL114C"   "VMA4"      "NOT5"
[199] "CCR4"      "FUS3"      "RPL23A"    "TCM62"     "EXO5"      "FZ01"
[205] "STP22"     "BUD31"     "RPL31A"    "RPP1A"     "PPH21"     "RPL35B"
[211] "PPH22"     "PST2"      "YDR042C"   "YDR049W"   "GRX3"      "GIC2"
[217] "SUM1"      "MRPL35"    "TSA2"      "CUP5"      "ISC1"      "PHM8"
[223] "YCK3"      "GRX4"      "RAD6"      "KSS1"      "PIL1"      "DBF2"
[229] "RTS3"      "STE20"     "PRS3"      "VMA10"     "SET5"      "DFG10"
[235] "YIL055C"   "XBP1"      "IMP2"      "FMP33"     "RPL39"     "EAF6"
[241] "RPL14A"    "DEF1"      "VMA5"      "NUP133"    "MLP1"      "SNF7"
[247] "BUD20"     "YPS1"      "COQ9"      "BUR2"      "SSQ1"      "ARC18"
[253] "TSA1"      "RPL13B"    "MRPS17"    "KEX2"      "VPS75"     "GIS2"

```

| | | | | | | |
|-------|-----------|-----------|-----------|-----------|-------------|-----------|
| [259] | "RTS1" | "MSA1" | "UAF30" | "VPS28" | "RPL43A" | "YPR045C" |
| [265] | "YPR089W" | "DEP1" | "SPC72" | "RPL19B" | "RFS1" | "ECM33" |
| [271] | "HSL7" | "ATG12" | "PAF1" | "YCP4" | "PTC1" | "CBS1" |
| [277] | "IWR1" | "VPS54" | "PST1" | "TPS2" | "MKC7" | "SSD1" |
| [283] | "DOT1" | "EUG1" | "GIM4" | "RIP1" | "VMA8" | "PEA2" |
| [289] | "QCR6" | "MIG1" | "YGL081W" | "VPS73" | "CUE3" | "AIM14" |
| [295] | "EMP24" | "PDE1" | "VMA7" | "NNF2" | "SYF2" | "CLC1" |
| [301] | "COQ6" | "ARD1" | "GIC1" | "YHR112C" | "MRPL6" | "ATG7" |
| [307] | "EPS1" | "TIR3" | "NOT3" | "QDR1" | "FLX1" | "BNR1" |
| [313] | "PRY1" | "TIF2" | "YJL213W" | "PET191" | "VPS25" | "DID4" |
| [319] | "VPS24" | "ATG10" | "CSF1" | "PEP3" | "BNA5" | "VPS36" |
| [325] | "GIM5" | "AEP1" | "SOV1" | "VPS20" | "MTG1" | "CIN4" |
| [331] | "DIA1" | "MRP7" | "GIM3" | "IBD2" | "CHS1" | "ATX1" |
| [337] | "MRPS12" | "RSM19" | "TLG2" | "THI20" | "WHI2" | "SLK19" |
| [343] | "YOR246C" | "RDL2" | "SNC2" | "PDE2" | "SNF8" | "LSP1" |
| [349] | "ATG5" | "RPL7B" | "SSO1" | "EAF3" | "VMA13" | "DBF20" |
| [355] | "HSC82" | "YGL015C" | "GCD7" | "SRP1" | "YOR304C-A" | "ZUO1" |
| [361] | "CCT6" | "CCT3" | "PLP2" | "RPN1" | "RPN10" | "RPN11" |
| [367] | "RPT5" | "CWC2" | "NAB2" | "VCL" | "PEX22" | "ATS1" |
| [373] | "MNN2" | "AIM3" | "SEC66" | "PTC6" | "PEX19" | "RPN4" |
| [379] | "MTC5" | "PLP1" | "PEX5" | "PMP3" | "PEX3" | "MSN5" |
| [385] | "RIM8" | "ERP6" | "PEX8" | "YGR122W" | "FYV8" | "RIM101" |
| [391] | "SPO11" | "SOD2" | "ICE2" | "SDS3" | "APQ12" | "MPH1" |
| [397] | "YJL163C" | "HSP150" | "BCK1" | "HOC1" | "STE24" | "PEX1" |
| [403] | "PGM1" | "MTC2" | "IXR1" | "VPS51" | "UTH1" | "FPS1" |
| [409] | "MMM1" | "SIC1" | "CCW12" | "MMR1" | "TUB3" | "SPC2" |
| [415] | "RIM9" | "YMR074C" | "YMR124W" | "RIM13" | "RHO2" | "EOS1" |
| [421] | "APJ1" | "HDA1" | "DFG16" | "RUD3" | "RIM20" | "CIN1" |
| [427] | "CIN2" | "PMA2" | "HDA3" | "RGD1" | "VPS74" | "ERD1" |
| [433] | "YER130C" | "SPT2" | "HUR1" | "STB5" | "AIM21" | "RPE1" |
| [439] | "BBC1" | "TMA22" | "CMC1" | "SRN2" | "SEC72" | "ROM2" |
| [445] | "VID22" | "BER1" | "ASC1" | "LSM7" | "HST1" | "RTG1" |
| [451] | "RGA1" | "RLM1" | "ELP3" | "TKL1" | "YPR097W" | "RTC2" |
| [457] | "PYC2" | "SNX41" | "PAC11" | "AGE1" | "RRT13" | "YER071C" |
| [463] | "UBP9" | "YER134C" | "YER158C" | "ECM32" | "MAL12" | "LTE1" |
| [469] | "MUM2" | "TEC1" | "TOS1" | "YDL133W" | "QRI7" | "NUM1" |
| [475] | "UBP3" | "NCS6" | "ERV14" | "PUF4" | "SCW4" | "UBA4" |
| [481] | "BZZ1" | "MTC6" | "URM1" | "YJL160C" | "SRL3" | "SPA2" |
| [487] | "RTT109" | "ALT1" | "STM1" | "MID2" | "FKS1" | "IKI3" |
| [493] | "VIP1" | "RPS1B" | "SUR7" | "ERG6" | "MUB1" | "SCJ1" |
| [499] | "YCK2" | "AAH1" | "NCS2" | "BRE5" | "PFA4" | "IES4" |
| [505] | "NEW1" | "UME1" | "YPL056C" | "YPR153W" | "PIN4" | "SLA1" |
| [511] | "FIG2" | "YDL176W" | "SDH4" | "YPS7" | "RAD4" | "YGL242C" |
| [517] | "KEM1" | "GUP1" | "DST1" | "YGR125W" | "YGR130C" | "FSH1" |
| [523] | "PBS2" | "ERG3" | "ECM7" | "CUE4" | "MRE11" | "DYN3" |
| [529] | "ELP6" | "MKT1" | "FKH2" | "YOL087C" | "DIA2" | "LIP5" |
| [535] | "PTP2" | "LDB19" | "YPL068C" | "YME1" | "BRR1" | "AR07" |
| [541] | "SYT1" | "MMS1" | "MDM10" | "SSA1" | "FLO1" | "ECM8" |
| [547] | "YBR139W" | "ICS2" | "PHO2" | "SWF1" | "VHS1" | "SHE9" |
| [553] | "IES5" | "SKI8" | "KEX1" | "CGR1" | "PIB2" | "SLX9" |
| [559] | "PCP1" | "VMA21" | "PBP1" | "RPS27B" | "ARP1" | "CHS7" |
| [565] | "RPS21B" | "SAP185" | "YJL070C" | "VPS55" | "JHD2" | "ELM1" |


```

[571] "MEH1"      "PET10"      "DYN1"      "RHO4"      "YLL058W"   "LDB18"
[577] "YLR063W"    "PUN1"      "YPT7"      "JNM1"      "YNL022C"   "MDM12"
[583] "OST3"      "ARF3"      "AZF1"      "VPS17"     "PAC1"      "MRN1"
[589] "RTT10"     "CTI6"      "NIP100"    "KES1"      "SKS1"      "YPR013C"
[595] "DSS4"      "SMY1"      "NUP60"     "NUS1"      "RPC10"     "CCT2"
[601] "RPS5"      "SEC23"     "SIR2"      "HSP104"    "AIM7"      "BDF1"
[607] "YNL157W"   "ORC1"      "UBI4"

```

```
[[2]]
```

```
[[2]]$name
```

```
[1] "ALG7"
```

```
[[2]]$interactors
```

```

[1] "ACT1" "SLT2" "SDS24" "ADE4" "RPB2" "GTT1" "SOD1" "GAA1" "VPS53"
[10] "GAS1" "EOS1" "MET22" "CHO2" "AVO1" "PHO88" "HMG1"

```

```
[[3]]
```

```
[[3]]$name
```

```
[1] "ASK1"
```

```
[[3]]$interactors
```

```

[1] "ACT1" "DAD2" "VPS20" "SPC19" "DAD1" "DAM1" "DUO1" "RPL17A"
[9] "RPS17A" "SPC34" "DAD4" "HSK3" "CBF2" "TID3" "SPC105" "RAS2"
[17] "PDE2" "BCY1" "CSE4" "CIN8" "MAD1" "IPL1" "FIN1"

```

```
[[4]]
```

```
[[4]]$name
```

```
[1] "COG4"
```

```
[[4]]$interactors
```

```

[1] "ACT1" "BNI1" "PEX14" "COG2" "TIP20" "VMA22" "NKP2"
[8] "YMR181C" "GET4" "COG8" "COG3" "SED5" "COG5" "COG1"
[15] "COG7" "SLY1" "YPT1" "COG6" "QCR2" "RBD2" "GCD7"
[22] "SMC5" "SSB2" "SSB1" "PMR1" "RAD4"

```

```
[[5]]
```

```
[[5]]$name
```

```
[1] "ERG1"
```

```
[[5]]$interactors
```

```

[1] "ACT1" "BNI1" "SEC7" "YNL311C" "ERG28" "FAT1" "ERG11"
[8] "SEC2" "YHRO20W" "HSC82" "TEF1" "TOR1" "YGL010W" "IRE1"
[15] "HSP82" "UBI4" "ERG25" "ERG24" "ERG26" "ERG27" "ERG2"
[22] "ERG3" "ERG5" "ERG4" "MYO1" "RPN11" "BUD27" "SSS1"
[29] "MAL11"

```

YeastBioGRIDInteractionUniqueId

BioGRID interactions for budding yeast (Saccharomyces cerevisiae), unique ids (systematic names) are used as identifiers

Description

This data set contains a list of interactions for budding yeast (*Saccharomyces cerevisiae*). The interactions are taken from BioGRID version 3.1.72, January 2011 release. For gene/protein entries, unique ids (systematic names) are used.

Usage

```
data(YeastBioGRIDInteractionUniqueId)
```

Format

The format is: A list containing the interactions. For each gene/protein, there is an entry in the list with "name" containing name of the gene/protein and "interactors" containing the list of genes/proteins interacting with it. example: List of 5931 \$:List of 2 ..\$ name : chr "YFL039C" ..\$ interactors: chr [1:887] "YBR243C" "YKL052C" "YPR105C" "YGR175C" ...

Source

<http://thebiogrid.org/download.php>

References

Stark C, Breitkreutz BJ, Reguly T, Boucher L, Breitkreutz A, Tyers M. *Biogrid: A General Repository for Interaction Datasets*. *Nucleic Acids Res.* Jan1; 34:D535-9

Examples

```
> data(YeastBioGRIDInteractionUniqueId)
> YeastBioGRIDInteractionUniqueId[1:5]

[[1]]
[[1]]$name
[1] "YFL039C"

[[1]]$interactors
 [1] "YBR243C" "YKL052C" "YPR105C" "YGR175C" "YLR060W" "YOL133W"
 [7] "YER112W" "YDL148C" "YHR118C" "YOR145C" "YER171W" "YBL020W"
[13] "YMR061W" "YDL111C" "YDL153C" "YDR489W" "YDR189W" "YNL222W"
[19] "YMR149W" "YGR198W" "YHR122W" "YJL097W" "YDR211W" "YJL005W"
[25] "YGL240W" "YFL024C" "YML126C" "YOR244W" "YHR023W" "YAL029C"
[31] "YDL002C" "YLR196W" "YNL138W" "YLL050C" "YDR334W" "YPL129W"
[37] "YBR231C" "YML041C" "YPL242C" "YJL081C" "YGL150C" "YHR090C"
[43] "YMR109W" "YFL039C" "YMR092C" "YLR319C" "YNL271C" "YDR388W"
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[73] "YDL226C" "YIL138C" "YNL215W" "YPL240C" "YHR179W" "YMR260C"
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| [91] | "YPL057C" | "YDR297W" | "YLR372W" | "YPR131C" | "YNL267W" | "YCR009C" |
| [97] | "YOR035C" | "YIR006C" | "YIL034C" | "YMR032W" | "YNL218W" | "YFL013C" |
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| [115] | "YGR240C" | "YMR198W" | "YDR207C" | "YHR081W" | "YJL124C" | "YLR268W" |
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| [127] | "YDR153C" | "YNL248C" | "YGR078C" | "YDR419W" | "YBR095C" | "YPL180W" |
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| [145] | "YGL163C" | "YJL140W" | "YGR221C" | "YDR443C" | "YMR179W" | "YNL206C" |
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| [169] | "YDR359C" | "YNL110C" | "YNL136W" | "YAL016W" | "YBR121C" | "YCR094W" |
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| [181] | "YGR262C" | "YHR016C" | "YIL095W" | "YJL179W" | "YJL204C" | "YKL117W" |
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| [217] | "YDR310C" | "YDR322W" | "YDR453C" | "YEL027W" | "YER019W" | "YER037W" |
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| [241] | "YKL006W" | "YKL054C" | "YKL080W" | "YKR082W" | "YKR095W" | "YLR025W" |
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| [595] | "YKL079W" | "YAR002W" | "YDL193W" | "YHR143W-A" | "YIL142W" | "YJR123W" |
| [601] | "YPR181C" | "YDL042C" | "YLL026W" | "YDR063W" | "YLR399C" | "YNL157W" |
| [607] | "YML065W" | "YLL039C" | | | | |

[[2]]

[[2]]\$name

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[[2]]\$interactors

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[8] "YLR088W" "YJL029C" "YMR307W" "YNL080C" "YOL064C" "YGR157W" "YOL078W"

[15] "YBR106W" "YML075C"

[[3]]

[[3]]\$name

[1] "YKL052C"

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[[4]]
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[[4]]$name
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[[4]]$interactors
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[8] "YMR181C" "YOR164C" "YML071C" "YER157W" "YLR026C" "YNL051W" "YGL223C"  
[15] "YGL005C" "YDR189W" "YFL038C" "YNL041C" "YPR191W" "YPL246C" "YLR291C"  
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[[5]]
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[[5]]$name
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[1] "YGR175C"
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[[5]]$interactors
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[8] "YNL272C" "YHR020W" "YMR186W" "YPR080W" "YJR066W" "YGL010W" "YHR079C"  
[15] "YPL240C" "YLL039C" "YGR060W" "YNL280C" "YGL001C" "YLR100W" "YMR202W"  
[22] "YLR056W" "YMR015C" "YGL012W" "YHR023W" "YFR004W" "YFL023W" "YDR086C"  
[29] "YGR289C"
```

Index

*Topic **datasets**

ArabidopsisBioGRIDInteractionEntrezId, [4](#)
ArabidopsisBioGRIDInteractionOfficial, [6](#)
ArabidopsisBioGRIDInteractionUniqueId, [7](#)
C.ElegansBioGRIDInteractionEntrezId, [9](#)
C.ElegansBioGRIDInteractionOfficial, [11](#)
C.ElegansBioGRIDInteractionUniqueId, [13](#)
FruitFlyBioGRIDInteractionEntrezId, [16](#)
FruitFlyBioGRIDInteractionOfficial, [18](#)
FruitFlyBioGRIDInteractionUniqueId, [19](#)
HumanBioGRIDInteractionEntrezId, [21](#)
HumanBioGRIDInteractionOfficial, [22](#)
HumanBioGRIDInteractionUniqueId, [23](#)
MouseBioGRIDInteractionEntrezId, [24](#)
MouseBioGRIDInteractionOfficial, [25](#)
MouseBioGRIDInteractionUniqueId, [27](#)
S.PombeBioGRIDInteractionEntrezId, [28](#)
S.PombeBioGRIDInteractionOfficial, [30](#)
S.PombeBioGRIDInteractionUniqueId, [33](#)
YeastBioGRIDInteractionEntrezId, [35](#)
YeastBioGRIDInteractionOfficial, [38](#)
YeastBioGRIDInteractionUniqueId, [42](#)

*Topic **file**

[findInteractionList](#), [15](#)

*Topic **package**

[simpIntLists-package](#), [1](#)

ArabidopsisBioGRIDInteractionEntrezId, [4](#)
ArabidopsisBioGRIDInteractionOfficial, [6](#)
ArabidopsisBioGRIDInteractionUniqueId, [7](#)
C.ElegansBioGRIDInteractionEntrezId, [9](#)
C.ElegansBioGRIDInteractionOfficial, [11](#)
C.ElegansBioGRIDInteractionUniqueId, [13](#)
[findInteractionList](#), [14](#)
FruitFlyBioGRIDInteractionEntrezId, [16](#)
FruitFlyBioGRIDInteractionOfficial, [18](#)
FruitFlyBioGRIDInteractionUniqueId, [19](#)
HumanBioGRIDInteractionEntrezId, [21](#)
HumanBioGRIDInteractionOfficial, [22](#)
HumanBioGRIDInteractionUniqueId, [23](#)
MouseBioGRIDInteractionEntrezId, [24](#)
MouseBioGRIDInteractionOfficial, [25](#)
MouseBioGRIDInteractionUniqueId, [27](#)
S.PombeBioGRIDInteractionEntrezId, [28](#)
S.PombeBioGRIDInteractionOfficial, [30](#)
S.PombeBioGRIDInteractionUniqueId, [33](#)
[simpIntLists](#) ([simpIntLists-package](#)), [1](#)
[simpIntLists-package](#), [1](#)
YeastBioGRIDInteractionEntrezId, [35](#)
YeastBioGRIDInteractionOfficial, [38](#)
YeastBioGRIDInteractionUniqueId, [41](#)