

simpIntLists Package

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`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_CG33319" "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"      "PN01"      "RAD3"      "RFT1"
 [13] "RNA14"     "RRP42"     "SAS10"     "SLD5"      "SLY1"      "SSU72"
 [19] "SWP1"      "YPP1"      "YHR122W"   "PHS1"      "GCD6"      "CYR1"
 [25] "DOC1"      "EPL1"      "ERG13"     "ESA1"      "MY01"      "MY04"
 [31] "NHP10"     "PWP1"      "SRV2"      "COF1"      "SWR1"      "TAF14"
 [37] "SWC5"      "VPS71"     "IQG1"      "ARP4"      "INO80"     "YNG2"
 [43] "MY05"      "ACT1"      "AIP1"      "BUD6"      "BNI1"      "RVS167"
 [49] "SSK2"      "LAS17"     "PFY1"      "YIH1"      "VRP1"      "MY02"
 [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"      "TC089"
[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"     "EX05"      "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] "YILO55C"   "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" "RBP2" "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"
[49] "YNR031C" "YOR181W" "YOR122C" "YCR059C" "YLR337C" "YOR326W"
[55] "YOL012C" "YNL107W" "YGR002C" "YPL235W" "YNL243W" "YDR129C"
[61] "YGR080W" "YNL004W" "YCL011C" "YEL013W" "YOR367W" "YDR190C"
[67] "YLR429W" "YDL178W" "YDR510W" "YCR088W" "YBR200W" "YER125W"
[73] "YDL226C" "YIL138C" "YNL215W" "YPL240C" "YHR179W" "YMR260C"
```

[79]	"YNL079C"	"YCL037C"	"YDR212W"	"YER155C"	"YHR030C"	"YDR389W"
[85]	"YOL076W"	"YCR034W"	"YDR072C"	"YKL212W"	"YDR484W"	"YDR159W"
[91]	"YPL057C"	"YDR297W"	"YLR372W"	"YPR131C"	"YNL267W"	"YCR009C"
[97]	"YOR035C"	"YIR006C"	"YIL034C"	"YMR032W"	"YNL218W"	"YFL013C"
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[[2]]\$interactors

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[29] "YGR289C"
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