simpIntLists Package

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`simpIntLists-package`

The package contains BioGRID interactions for various organisms in a simple format

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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

Author(s)

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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.EleganBioGRIDInteractionEntrezId`
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.EleganBioGRIDInteractionEntrezId)
```

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" "Rhebl1" "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"   "Rhebl1"  "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"  "TGFBR1" "ACVR1"  "BMPR1B" "SMURF1" "SMURF2"


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

[[3]]$interactors
[1] "SMAD2"  "SMAD4"  "TGFBR1"


[[4]]
[[4]]$name
[1] "Rhebl1"

[[4]]$interactors
[1] "SMAD2"  "TGFBR1" "ACVR1"  "BMPR1B"


[[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"      "SRO9"      "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"      "FZO1"
[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"      "ARO7"
 [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"    "YHR020W" "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"
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