

STRINGdb Package Vignette

Andrea Franceschini

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1 INTRODUCTION

STRING (<https://www.string-db.org>) is a database of known and predicted protein-protein interactions. The interactions include direct (physical) and indirect (functional) associations. The database contains information from numerous sources, including experimental repositories, computational prediction methods and public text collections. Each interaction is associated with a combined confidence score that integrates the various evidences. We currently cover over 24 millions proteins from 5090 organisms.

As you will learn in this guide, the STRING database can be usefull to add meaning to list of genes (e.g. the best hits coming out from a screen or the most differentially expressed genes coming out from a Microarray/RNaseq experiment.)

We provide the STRINGdb R package in order to facilitate our users in accessing the STRING database from R. In this guide we explain, with examples, most of the package's features and functionalities.

In the STRINGdb R package we use the new ReferenceClasses of R (search for "ReferenceClasses" in the R documentation.). Besides we make use of the iGraph package (<http://igraph.sourceforge.net>) as a data structure to represent our protein-protein interaction network.

To begin, you should first know the NCBI taxonomy identifiers of the organism on which you have performed the experiment (e.g. 9606 for Human, 10090 for mouse). If you don't know that, you can search the NCBI Taxonomy (<http://www.ncbi.nlm.nih.gov/taxonomy>) or start looking at our species table (that you can also use to verify that your organism is represented in the STRING database).

Hence, if your species is not Human (i.e. our default species), you can find it and their taxonomy identifiers on STRING webpage under the 'organisms' section (https://string-db.org/cgi/input.pl?input_page_active_form=org) or download the full list in the download section of STRING website.

```
> library(STRINGdb)
> string_db <- STRINGdb$new( version="12.0", species=9606,
+                             score_threshold=200, network_type="full", input_directory="")
```

As it has been shown in the above commands, you start instantiating the STRINGdb reference class. In the constructor of the class you can also define the STRING version to be used and a threshold for the combined scores of the interactions, such that any interaction below that threshold is not loaded in the object (by default the score threshold is set to 400).

You can also specify the network type "functional" for full functional STRING network or "physical" for physical subnetwork, which link only the proteins which share a physical complex. Besides, if you specify a local directory to the parameter input-directory, the database files will be downloaded into this directory and most of the methods can be used off-line. Otherwise, the database files will be saved and cached in a temporary directory that will be cleaned automatically when the R session is closed.

For a better understanding of the package two other commands can be useful:

```
> STRINGdb$methods()           # To list all the methods available.

[1] ".objectPackage"           ".objectParent"
[3] "add_diff_exp_color"       "add_proteins_description"
[5] "benchmark_ppi"            "benchmark_ppi_pathway_view"
[7] "callSuper"                 "copy"
[9] "enrichment_heatmap"       "export"
[11] "field"                     "getClass"
[13] "getRefClass"               "get_aliases"
[15] "get_annotations"          "get_bioc_graph"
[17] "get_clusters"              "get_enrichment"
[19] "get_graph"                 "get_homologs"
[21] "get_homologs_besthits"     "get_homology_graph"
[23] "get_interactions"          "get_link"
[25] "get_neighbors"             "get_paralogs"
[27] "get_pathways_benchmarking_blackList" "get_png"
[29] "get_ppi_enrichment"        "get_ppi_enrichment_full"
[31] "get_proteins"              "get_pubmed"
[33] "get_pubmed_interaction"    "get_subnetwork"
[35] "get_summary"               "get_term_proteins"
[37] "import"                     "initFields"
[39] "initialize"                 "load"
[41] "load_all"                   "map"
[43] "mp"                          "plot_network"
[45] "plot_ppi_enrichment"       "post_payload"
[47] "ppi_enrichment"             "remove_homologous_interactions"
[49] "set_background"            "show"
[51] "show#envRefClass"          "trace"
[53] "untrace"                     "usingMethods"

> STRINGdb$help("get_graph")  # To visualize their documentation.
```

```
Call:
$get_graph()
```

Description:

Return an igraph object with the entire STRING network. We invite the user to use the functions of the iGraph package to conveniently search/analyze the network.

References:

Csardi G, Nepusz T: The igraph software package for complex network research, InterJournal, Complex Systems 1695. 2006.
<http://igraph.sf.net>

See Also:

In order to simplify the most common tasks, we do also provide convenient functions that wrap some iGraph functions.

```
get_interactions(string_ids) # returns the interactions in between the input proteins
get_neighbors(string_ids)    # Get the neighborhoods of a protein (or of a vector of proteins).
get_subnetwork(string_ids)   # returns a subgraph from the given input proteins
```

Author(s):

Andrea Franceschini

For all the methods that we are going to explain below, you can always use the help function in order to get additional information/parameters with respect to those explained in this guide.

As an example, we use the analyzed data of a microarray study taken from GEO (Gene Expression Omnibus, GSE9008). This study investigates the activity of Resveratrol, a natural phytoestrogen found in red wine and a variety of plants, in A549 lung cancer cells. Microarray gene expression profiling after 48 hours exposure to Resveratrol has been performed and compared to a control composed by A549 lung cancer cells treated only with ethanol. This data is already analyzed for differential expression using the limma package: the genes are sorted by *fdr* corrected *p*values and the log fold change of the differential expression is also reported in the table.

```
> data(diff_exp_example1)
> head(diff_exp_example1)

      pvalue  logFC      gene
1 0.0001018 3.333461  VSTM2L
2 0.0001392 3.822383  TBC1D2
3 0.0001720 3.306056  LENG9
4 0.0001739 3.024605  TMEM27
5 0.0001990 3.854414 LOC100506014
6 0.0002393 3.082052  TSPAN1
```

As a first step, we map the gene names to the STRING database identifiers using the "map" method. In this particular example, we map from gene HUGO names, but our mapping function supports several other common identifiers (e.g. Entrez GeneID, ENSEMBL proteins, RefSeq transcripts ... etc.).

The map function adds an additional column with STRING identifiers to the dataframe that is passed as first parameter.

```
> example1_mapped <- string_db$map( diff_exp_example1, "gene", removeUnmappedRows = TRUE )
```

Warning: we couldn't map to STRING 15% of your identifiers

As you may have noticed, the previous command prints a warning showing the number of genes that we failed to map. In this particular example, we cannot map all the probes of the microarray that refer to position of the chromosome that are not assigned to a real gene (i.e. all the LOC genes). If we remove all these LOC genes before the mapping we obtain a much lower percentage of unmapped genes (i.e. < 6 %).

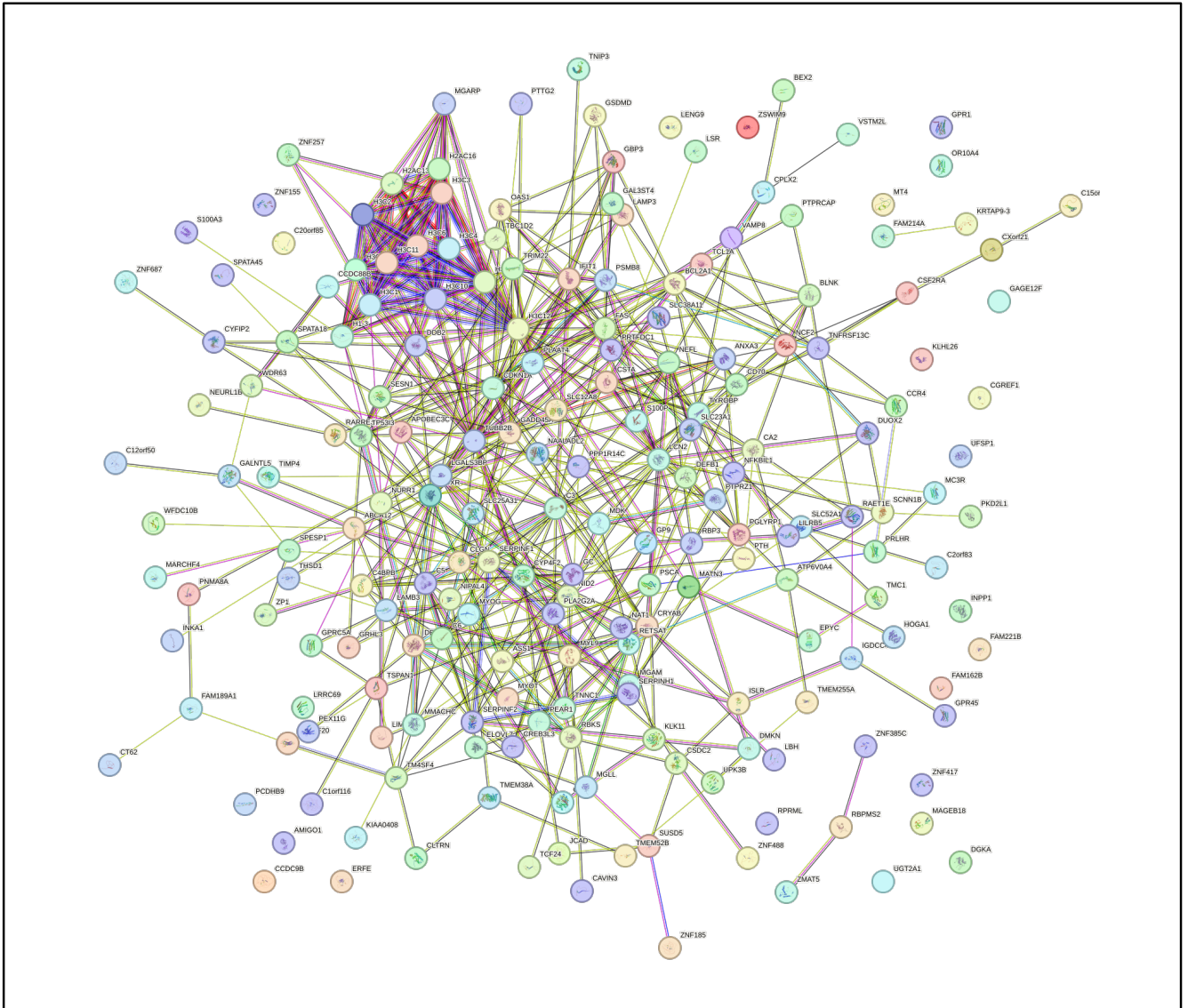
If you set to FALSE the "removeUnmappedRows" parameter, than the rows which corresponds to unmapped genes are left and you can manually inspect them.

Finally, we extract the most significant 200 genes and we produce an image of the STRING network for those. The image shows clearly the genes and how they are possibly functionally related. On the top of the plot, we insert a pvalue that represents the probability that you can expect such an equal or greater number of interactions by chance.

```
> hits <- example1_mapped$STRING_id[1:200]
```

```
> string_db$plot_network( hits )
```

proteins: 200
interactions: 546
expected interactions: 333 (p-value: 0)



2 PAYLOAD MECHANISM

This R library provides the ability to interact with the STRING payload mechanism. The payload appears as an additional colored "halo" around the bubbles.

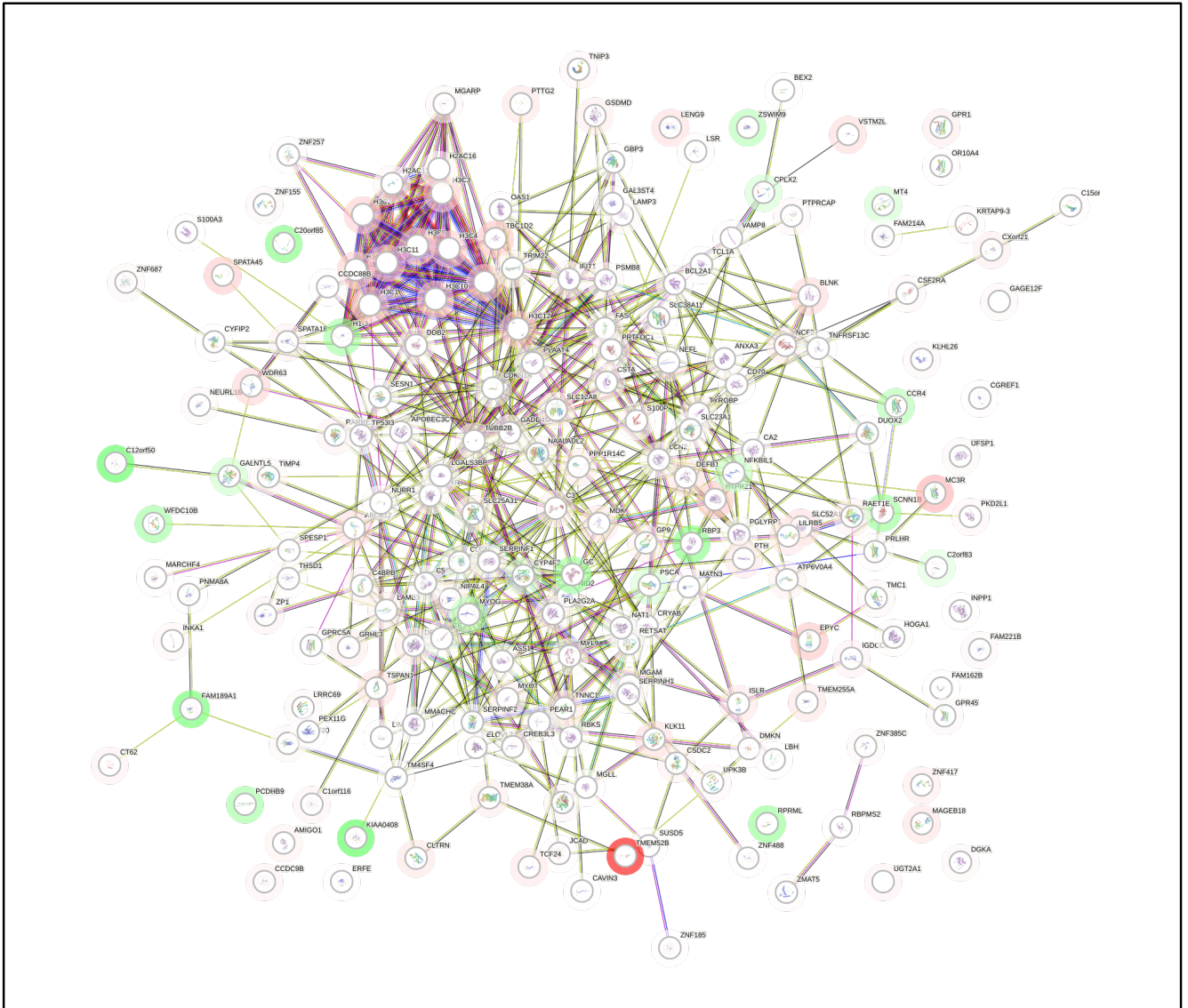
For example, this allows to color in green the genes that are down-regulated and in red the genes that are up-regulated. For this mechanism to work, we provide a function that posts the information on our web server.

```
> # filter by p-value and add a color column
> # (i.e. green down-regulated genes and red for up-regulated genes)
> example1_mapped_pval05 <- string_db$add_diff_exp_color( subset(example1_mapped, pvalue<0.05),
+                                                       logFcColStr="logFC" )

> # post payload information to the STRING server
> payload_id <- string_db$post_payload( example1_mapped_pval05$STRING_id,
+                                     colors=example1_mapped_pval05$color )

> # display a STRING network png with the "halo"
> string_db$plot_network( hits, payload_id=payload_id )
```

proteins: 200
interactions: 546
expected interactions: 333 (p-value: 0)



3 ENRICHMENT

We provide a method to compute the enrichment in Gene Ontology (Process, Function and Component), KEGG and Reactome pathways, PubMed publications, UniProt Keywords, and PFAM/INTERPRO/SMART domains for your set of proteins all in one simple call. The enrichment itself is computed using an hypergeometric test and the FDR is calculated using Benjamini-Hochberg procedure.

```
> enrichment <- string_db$get_enrichment( hits )  
> head(enrichment, n=20)
```

	category	term	number_of_genes	number_of_genes_in_background
1	COMPARTMENTS	GOCC:0000786	10	94
2	COMPARTMENTS	GOCC:0032993	12	198
3	COMPARTMENTS	GOCC:0005576	42	2079
4	COMPARTMENTS	GOCC:0043230	17	524
5	Process	GO:0006335	10	32
6	Process	GO:0006334	11	124
7	Process	GO:0006952	35	1394
8	Process	GO:0040029	10	123
9	Process	GO:0032200	10	129
10	Process	GO:0009607	32	1375
11	Process	GO:0051707	31	1328
12	Process	GO:0006955	30	1321
13	Component	GO:0000786	13	133
14	Component	GO:0070062	51	2096
15	Component	GO:1903561	52	2120
16	Component	GO:0032993	15	226
17	Component	GO:0005576	76	4175
18	Component	GO:0005615	63	3247
19	Component	GO:0031982	65	3957
20	Component	GO:0000228	10	244
	ncbiTaxonId			
1	9606			
2	9606			
3	9606			
4	9606			
5	9606			
6	9606			
7	9606			
8	9606			
9	9606			
10	9606			
11	9606			
12	9606			
13	9606			
14	9606			
15	9606			
16	9606			
17	9606			
18	9606			
19	9606			
20	9606			

9	1.45e-06	3.80e-03	Telomere organization
10	1.15e-05	2.01e-02	Response to biotic stimulus
11	1.52e-05	2.38e-02	Response to other organism
12	3.51e-05	4.29e-02	Immune response
13	2.84e-09	3.30e-06	Nucleosome
14	3.19e-09	3.30e-06	Extracellular exosome
15	1.61e-09	3.30e-06	Extracellular vesicle
16	2.30e-08	7.84e-06	protein-DNA complex
17	5.34e-08	1.56e-05	Extracellular region
18	1.46e-07	3.74e-05	Extracellular space
19	2.77e-05	5.70e-03	Vesicle
20	2.60e-04	4.83e-02	Nuclear chromosome

If you have performed your experiment on a predefined set of proteins, it is important to run the enrichment statistics using that set as a background (otherwise you would get a wrong p-value!). Hence, before to launch the method above, you may want to set the background:

```
> backgroundV <- example1_mapped$STRING_id[1:2000] # as an example, we use the first 2000 genes
> string_db$set_background(backgroundV)
```

You can also set the background when you instantiate the STRINGdb object:

```
> string_db <- STRINGdb$new( score_threshold=200, backgroundV = backgroundV )
```

If you just want to know terms are assigned to your set of proteins (and not necessary enriched) you can use "get_ annotations" method. This method will output all the terms from most of the categories (the exceptions are KEGG terms due to licensing issues and PubMed due to the size of the output) that are associated with your set of proteins.

```
> annotations <- string_db$get_annotations( hits )
> head(annotations, n=20)
```

	category	term_id	number_of_genes	ratio_in_set	species
1	COMPARTMENTS	GOCC:0000109	1	0.005	9606
2	COMPARTMENTS	GOCC:0000139	1	0.005	9606
3	COMPARTMENTS	GOCC:0000151	2	0.010	9606
4	COMPARTMENTS	GOCC:0000152	1	0.005	9606
5	COMPARTMENTS	GOCC:0000228	10	0.050	9606
6	COMPARTMENTS	GOCC:0000307	1	0.005	9606
7	COMPARTMENTS	GOCC:0000323	6	0.030	9606
8	COMPARTMENTS	GOCC:0000417	2	0.010	9606
9	COMPARTMENTS	GOCC:0000502	1	0.005	9606
10	COMPARTMENTS	GOCC:0000785	11	0.055	9606
11	COMPARTMENTS	GOCC:0000786	10	0.050	9606
12	COMPARTMENTS	GOCC:0000791	1	0.005	9606
13	COMPARTMENTS	GOCC:0001533	1	0.005	9606
14	COMPARTMENTS	GOCC:0001650	1	0.005	9606
15	COMPARTMENTS	GOCC:0001669	1	0.005	9606


```

4           Nuclear ubiquitin ligase complex
5           Nuclear chromosome
6 Cyclin-dependent protein kinase holoenzyme complex
7           Lytic vacuole
8           HIR complex
9           Proteasome complex
10          Chromatin
11          Nucleosome
12          Euchromatin
13          Cornified envelope
14          Fibrillar center
15          Acrosomal vesicle
16          Stress fiber
17          Ruffle
18          Polycystin complex
19          Extracellular region
20          Fibrinogen complex

```

4 CLUSTERING

The iGraph package provides several clustering/community algorithms: "fastgreedy", "walktrap", "springlass", "edge.betweenness". We encapsulate this in an easy-to-use function that returns the clusters in a list.

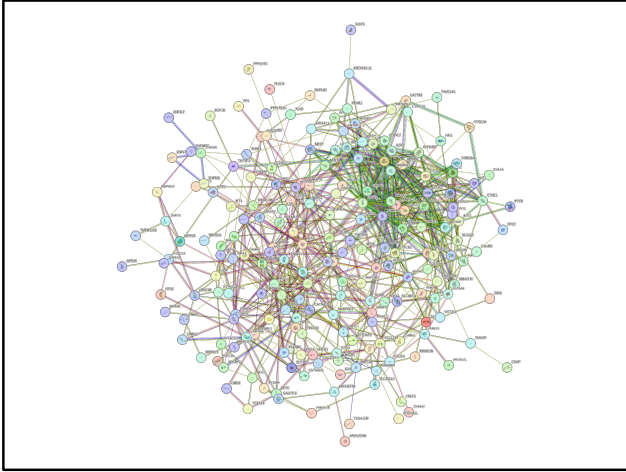
```

> # get clusters
> clustersList <- string_db$get_clusters(example1_mapped$STRING_id[1:600])

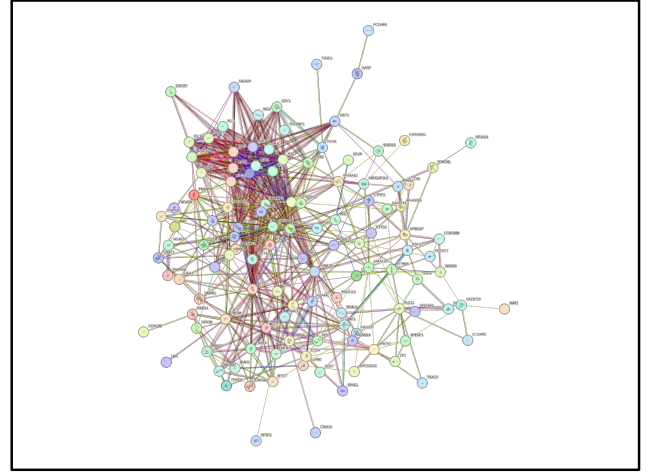
> # plot first 4 clusters
> par(mfrow=c(2,2))
> for(i in seq(1:4)){
+   string_db$plot_network(clustersList[[i]])
+ }

```

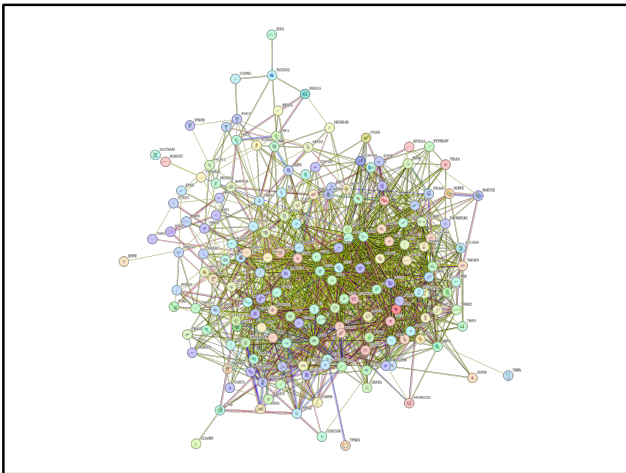
proteins: 204
interactions: 673
expected interactions: 238 (p-value: 0)



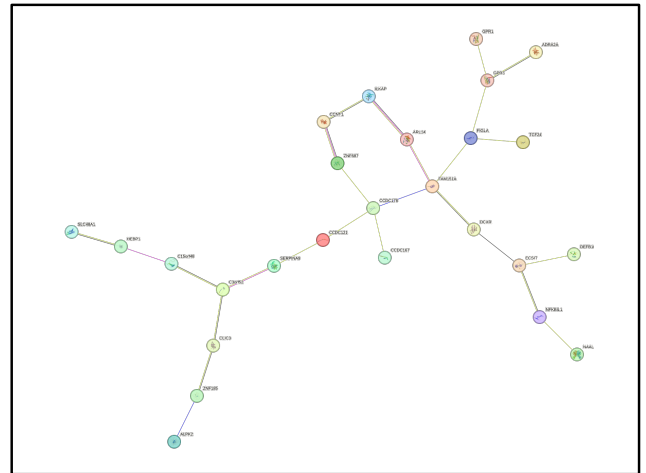
proteins: 121
interactions: 581
expected interactions: 165 (p-value: 0)



proteins: 173
interactions: 1576
expected interactions: 469 (p-value: 0)



proteins: 26
interactions: 26
expected interactions: 2 (p-value: 0)



5 ADDITIONAL PROTEIN INFORMATION

You can get a table that contains all the proteins that are present in our database of the species of interest. The protein table also include the preferred name, the size and a short description of each protein.

```
> string_proteins <- string_db$get_proteins()
```

In the following section we will show how to query STRING with R on some specific proteins. In the examples, we will use the famous tumor proteins TP53 and ATM .

First we need to get the STRING identifier of those proteins, using our mp method:

```
> tp53 = string_db$mp( "tp53" )
> atm = string_db$mp( "atm" )
```

The mp method (i.e. map proteins) is an alternative to our map method, to be used when you need to map only one or few proteins.

It takes in input a vector of protein aliases and returns a vector with the STRING identifiers of those proteins.

Using the following method, you can see the proteins that interact with one or more of your proteins:

```
> string_db$get_neighbors( c(tp53, atm) )

[1] "9606.ENSP00000001008" "9606.ENSP00000003084" "9606.ENSP00000003302"
[4] "9606.ENSP00000004531" "9606.ENSP00000004982" "9606.ENSP00000005178"
[7] "9606.ENSP00000005257" "9606.ENSP00000005260" "9606.ENSP00000005340"
[10] "9606.ENSP00000006015" "9606.ENSP00000006053" "9606.ENSP00000008527"
[13] "9606.ENSP00000009530" "9606.ENSP00000011619" "9606.ENSP00000011653"
[16] "9606.ENSP00000013807" "9606.ENSP00000014914" "9606.ENSP00000020945"
[19] "9606.ENSP00000025008" "9606.ENSP00000027335" "9606.ENSP00000037243"
[22] "9606.ENSP00000039007" "9606.ENSP00000044462" "9606.ENSP00000052754"
[25] "9606.ENSP00000053243" "9606.ENSP00000053867" "9606.ENSP00000055077"
[28] "9606.ENSP00000056233" "9606.ENSP00000072644" "9606.ENSP00000075120"
[31] "9606.ENSP00000078429" "9606.ENSP00000080059" "9606.ENSP00000085219"
[34] "9606.ENSP00000155840" "9606.ENSP00000155926" "9606.ENSP00000156084"
[37] "9606.ENSP00000156626" "9606.ENSP00000157812" "9606.ENSP00000159060"
[40] "9606.ENSP00000159111" "9606.ENSP00000160382" "9606.ENSP00000160827"
[43] "9606.ENSP00000161559" "9606.ENSP00000161863" "9606.ENSP00000162749"
[46] "9606.ENSP00000164139" "9606.ENSP00000164227" "9606.ENSP00000166345"
[49] "9606.ENSP00000167586" "9606.ENSP00000167588" "9606.ENSP00000168148"
[52] "9606.ENSP00000168712" "9606.ENSP00000170447" "9606.ENSP00000171887"
[55] "9606.ENSP00000172229" "9606.ENSP00000173229" "9606.ENSP00000174618"
[58] "9606.ENSP00000177694" "9606.ENSP00000178638" "9606.ENSP00000178640"
[61] "9606.ENSP00000179259" "9606.ENSP00000180166" "9606.ENSP00000181796"
[64] "9606.ENSP00000181839" "9606.ENSP00000184956" "9606.ENSP00000188790"
[67] "9606.ENSP00000198767" "9606.ENSP00000199280" "9606.ENSP00000199764"
[70] "9606.ENSP00000200181" "9606.ENSP00000200453" "9606.ENSP00000200676"
```

[73] "9606.ENSP00000201031" "9606.ENSP00000201979" "9606.ENSP00000202017"
[76] "9606.ENSP00000202556" "9606.ENSP00000202967" "9606.ENSP00000203407"
[79] "9606.ENSP00000203629" "9606.ENSP00000203630" "9606.ENSP00000203664"
[82] "9606.ENSP00000204517" "9606.ENSP00000204961" "9606.ENSP00000205143"
[85] "9606.ENSP00000205636" "9606.ENSP00000205948" "9606.ENSP00000206513"
[88] "9606.ENSP00000206765" "9606.ENSP00000209668" "9606.ENSP00000209728"
[91] "9606.ENSP00000209875" "9606.ENSP00000210313" "9606.ENSP00000210444"
[94] "9606.ENSP00000211287" "9606.ENSP00000211998" "9606.ENSP00000212015"
[97] "9606.ENSP00000212355" "9606.ENSP00000214869" "9606.ENSP00000215057"
[100] "9606.ENSP00000215071" "9606.ENSP00000215530" "9606.ENSP00000215567"
[103] "9606.ENSP00000215574" "9606.ENSP00000215631" "9606.ENSP00000215659"
[106] "9606.ENSP00000215743" "9606.ENSP00000215754" "9606.ENSP00000215781"
[109] "9606.ENSP00000215793" "9606.ENSP00000215794" "9606.ENSP00000215829"
[112] "9606.ENSP00000215832" "9606.ENSP00000215882" "9606.ENSP00000215909"
[115] "9606.ENSP00000216037" "9606.ENSP00000216039" "9606.ENSP00000216044"
[118] "9606.ENSP00000216099" "9606.ENSP00000216115" "9606.ENSP00000216117"
[121] "9606.ENSP00000216122" "9606.ENSP00000216133" "9606.ENSP00000216139"
[124] "9606.ENSP00000216160" "9606.ENSP00000216181" "9606.ENSP00000216185"
[127] "9606.ENSP00000216211" "9606.ENSP00000216218" "9606.ENSP00000216223"
[130] "9606.ENSP00000216225" "9606.ENSP00000216254" "9606.ENSP00000216271"
[133] "9606.ENSP00000216274" "9606.ENSP00000216277" "9606.ENSP00000216297"
[136] "9606.ENSP00000216330" "9606.ENSP00000216336" "9606.ENSP00000216341"
[139] "9606.ENSP00000216373" "9606.ENSP00000216392" "9606.ENSP00000216420"
[142] "9606.ENSP00000216446" "9606.ENSP00000216455" "9606.ENSP00000216479"
[145] "9606.ENSP00000216489" "9606.ENSP00000216492" "9606.ENSP00000216629"
[148] "9606.ENSP00000216639" "9606.ENSP00000216714" "9606.ENSP00000216727"
[151] "9606.ENSP00000216733" "9606.ENSP00000216780" "9606.ENSP00000216797"
[154] "9606.ENSP00000216802" "9606.ENSP00000216807" "9606.ENSP00000216862"
[157] "9606.ENSP00000216911" "9606.ENSP00000216962" "9606.ENSP00000216968"
[160] "9606.ENSP00000217026" "9606.ENSP00000217086" "9606.ENSP00000217109"
[163] "9606.ENSP00000217169" "9606.ENSP00000217182" "9606.ENSP00000217244"
[166] "9606.ENSP00000217246" "9606.ENSP00000217386" "9606.ENSP00000217426"
[169] "9606.ENSP00000217515" "9606.ENSP00000217740" "9606.ENSP00000217958"
[172] "9606.ENSP00000217961" "9606.ENSP00000217971" "9606.ENSP00000218089"
[175] "9606.ENSP00000218348" "9606.ENSP00000218388" "9606.ENSP00000218548"
[178] "9606.ENSP00000218758" "9606.ENSP00000219022" "9606.ENSP00000219066"
[181] "9606.ENSP00000219069" "9606.ENSP00000219070" "9606.ENSP00000219097"
[184] "9606.ENSP00000219162" "9606.ENSP00000219204" "9606.ENSP00000219235"
[187] "9606.ENSP00000219240" "9606.ENSP00000219244" "9606.ENSP00000219252"
[190] "9606.ENSP00000219313" "9606.ENSP00000219334" "9606.ENSP00000219345"
[193] "9606.ENSP00000219431" "9606.ENSP00000219476" "9606.ENSP00000219479"
[196] "9606.ENSP00000219548" "9606.ENSP00000219596" "9606.ENSP00000219660"
[199] "9606.ENSP00000219746" "9606.ENSP00000219782" "9606.ENSP00000219789"
[202] "9606.ENSP00000219905" "9606.ENSP00000219919" "9606.ENSP00000220003"
[205] "9606.ENSP00000220166" "9606.ENSP00000220429" "9606.ENSP00000220514"
[208] "9606.ENSP00000220592" "9606.ENSP00000220616" "9606.ENSP00000220751"
[211] "9606.ENSP00000220764" "9606.ENSP00000220772" "9606.ENSP00000220809"
[214] "9606.ENSP00000220812" "9606.ENSP00000220849" "9606.ENSP00000220940"
[217] "9606.ENSP00000220966" "9606.ENSP00000221130" "9606.ENSP00000221132"
[220] "9606.ENSP00000221138" "9606.ENSP00000221166" "9606.ENSP00000221265"
[223] "9606.ENSP00000221419" "9606.ENSP00000221452" "9606.ENSP00000221486"

[226] "9606.ENSP00000221494" "9606.ENSP00000221496" "9606.ENSP00000221515"
[229] "9606.ENSP00000221801" "9606.ENSP00000221930" "9606.ENSP00000221972"
[232] "9606.ENSP00000221978" "9606.ENSP00000221992" "9606.ENSP00000221996"
[235] "9606.ENSP00000222005" "9606.ENSP00000222139" "9606.ENSP00000222247"
[238] "9606.ENSP00000222248" "9606.ENSP00000222254" "9606.ENSP00000222286"
[241] "9606.ENSP00000222305" "9606.ENSP00000222330" "9606.ENSP00000222381"
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It is also possible to retrieve the interactions that connect certain input proteins between each other. Using the "get_interactions" method we can clearly see that TP53 and ATM interact with each other with a good evidence/score.

```
> string_db$get_interactions( c(tp53, atm) )

      from                to combined_score
1 9606.ENSP00000269305 9606.ENSP00000278616      999
2 9606.ENSP00000269305 9606.ENSP00000278616      999
```

STRING provides a way to get homologous proteins: in our database we store ALL-AGAINST-ALL alignments within all 5090 organisms. You can retrieve all of the paralogs of the protein using "get_paralogs" method.

```
> # Get all homologs of TP53 in human.
> string_db$get_paralogs(tp53)

[1] X9606                X9606.ENSP00000269305    X9606.1
[4] X9606.ENSP00000269305.1 X815.8
<0 rows> (or 0-length row.names)
```

STRING also stores best hits (as measured by bitscore) between the proteins from different species. "get_homologs_besthits" lets you retrieve these homologs.


```
> # get the best hits of the following protein in all the STRING species
> string_db$get_homologs_besthits(tp53)
```

	X9606	X9606.ENSPO0000269305	X9597	X9597.ENSPPAP00000011040	X815.8
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113	9606	9606.ENSPO0000269305	13735	13735.ENSPSIP00000014905	359.4
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115	9606	9606.ENSPO0000269305	7918	7918.ENSLACP00000017063	359.0
116	9606	9606.ENSPO0000269305	62062	62062.ENSHHUP00000013468	357.1
117	9606	9606.ENSPO0000269305	1676925	1676925.ENSPKIP00000014805	357.1
118	9606	9606.ENSPO0000269305	8032	8032.ENSTUP00000101309	356.7
119	9606	9606.ENSPO0000269305	75366	75366.ENSSGRP00000074183	356.3
120	9606	9606.ENSPO0000269305	8030	8030.ENSSSAP00000057928	355.5
121	9606	9606.ENSPO0000269305	307959	307959.ENSSRHP00000051429	353.2
122	9606	9606.ENSPO0000269305	1608454	1608454.ENSSANP00000026698	352.8
123	9606	9606.ENSPO0000269305	27687	27687.ENSECRP00000015713	351.7
124	9606	9606.ENSPO0000269305	8005	8005.ENSEEEP00000033982	345.9
125	9606	9606.ENSPO0000269305	8010	8010.ENSELUP00000026168	344.0
126	9606	9606.ENSPO0000269305	7998	7998.ENSIPOP00000031919	343.6
127	9606	9606.ENSPO0000269305	74533	74533.ENSP TIP00000024834	343.2
128	9606	9606.ENSPO0000269305	96440	96440.ENSSMRP00000003871	340.9
129	9606	9606.ENSPO0000269305	7955	7955.ENSDARP00000116736	340.9
130	9606	9606.ENSPO0000269305	84645	84645.AOA498NKF5	340.1
131	9606	9606.ENSPO0000269305	8364	8364.ENSXETP00000041856	339.7
132	9606	9606.ENSPO0000269305	37347	37347.ENSTBEP00000010189	336.7
133	9606	9606.ENSPO0000269305	299321	299321.ENSDCDP00000007017	332.0
134	9606	9606.ENSPO0000269305	8469	8469.M7CJF0	330.9
135	9606	9606.ENSPO0000269305	103695	103695.ENSPVIP00000017506	324.3
136	9606	9606.ENSPO0000269305	623744	623744.AOA553PV69	319.7
137	9606	9606.ENSPO0000269305	8508	8508.ENSSPUP00000018842	313.9
138	9606	9606.ENSPO0000269305	2489341	2489341.ENSSHBP00005007544	313.2
139	9606	9606.ENSPO0000269305	42514	42514.ENSPNAP00000014501	313.2
140	9606	9606.ENSPO0000269305	61221	61221.ENSVKKP00000029045	310.8
141	9606	9606.ENSPO0000269305	7994	7994.ENSAMXP00000021366	309.3
142	9606	9606.ENSPO0000269305	7950	7950.ENSCHAP00000042143	305.1
143	9606	9606.ENSPO0000269305	586833	586833.ENSMMDP00005051289	304.7
144	9606	9606.ENSPO0000269305	8022	8022.AOA060XN97	304.3
145	9606	9606.ENSPO0000269305	8081	8081.ENSPREP00000019676	293.5
146	9606	9606.ENSPO0000269305	52904	52904.ENSSMAP00000015064	292.0
147	9606	9606.ENSPO0000269305	47969	47969.ENSOABP00000003944	291.6
148	9606	9606.ENSPO0000269305	181472	181472.ENSSFAP00005012771	291.6
149	9606	9606.ENSPO0000269305	375764	375764.ENSSORP00005058467	291.6

150	9606	9606.ENSPO0000269305	8153	8153.ENSHBUP00000022213	291.2
151	9606	9606.ENSPO0000269305	8167	8167.AOA484CCMO	291.2
152	9606	9606.ENSPO0000269305	215358	215358.ENSLCRP00005011976	290.8
153	9606	9606.ENSPO0000269305	80972	80972.ENSACOP00000001385	290.0
154	9606	9606.ENSPO0000269305	161767	161767.ENSAPEP00000017927	290.0
155	9606	9606.ENSPO0000269305	8083	8083.ENSXMAP00000028829	290.0
156	9606	9606.ENSPO0000269305	37003	37003.ENSXMAP00000018969	289.7
157	9606	9606.ENSPO0000269305	64176	64176.ENSMPRP00000017811	289.3
158	9606	9606.ENSPO0000269305	441366	441366.ENSGWIP00000038103	288.9
159	9606	9606.ENSPO0000269305	8128	8128.ENSONIP00000041809	287.7
160	9606	9606.ENSPO0000269305	80966	80966.ENSAPOP00000027715	287.3
161	9606	9606.ENSPO0000269305	31033	31033.ENSTRUP00000030644	287.0
162	9606	9606.ENSPO0000269305	32473	32473.ENSXCOP00000002276	285.8
163	9606	9606.ENSPO0000269305	48701	48701.ENSMPPEP00000001243	285.4
164	9606	9606.ENSPO0000269305	244447	244447.ENSCEP00000003997	285.4
165	9606	9606.ENSPO0000269305	8154	8154.ENSACLP00000007040	285.0
166	9606	9606.ENSPO0000269305	8175	8175.ENSSAUP00010029879	285.0
167	9606	9606.ENSPO0000269305	48698	48698.ENSFP0P00000007556	284.6
168	9606	9606.ENSPO0000269305	56723	56723.ENSLBEP00000036857	284.6
169	9606	9606.ENSPO0000269305	64144	64144.ENSATEP00000028323	284.3
170	9606	9606.ENSPO0000269305	8187	8187.ENSLCAP00010016052	283.9
171	9606	9606.ENSPO0000269305	210632	210632.ENSPRNP00000030862	283.5
172	9606	9606.ENSPO0000269305	48699	48699.ENSPLAP00000022694	283.1
173	9606	9606.ENSPO0000269305	61819	61819.ENSACTIP00000020373	282.3
174	9606	9606.ENSPO0000269305	144197	144197.ENSFPAP00000022019	282.3
175	9606	9606.ENSPO0000269305	299123	299123.ENSLSDP00000017092	280.4
176	9606	9606.ENSPO0000269305	56716	56716.ENSCGOP00000014430	279.6
177	9606	9606.ENSPO0000269305	205130	205130.ENSMAMP00000005315	279.6
178	9606	9606.ENSPO0000269305	137246	137246.AOA401SCC1	279.3
179	9606	9606.ENSPO0000269305	99883	99883.ENSTNIP00000013035	278.1
180	9606	9606.ENSPO0000269305	173247	173247.ENSENLP00000038795	277.3
181	9606	9606.ENSPO0000269305	8078	8078.ENSFHEP00000026765	276.6
182	9606	9606.ENSPO0000269305	41447	41447.ENSSDUP00000028226	276.6
183	9606	9606.ENSPO0000269305	59729	59729.ENSTGUP00000021519	276.2
184	9606	9606.ENSPO0000269305	28743	28743.ENSCVAP00000022398	276.2
185	9606	9606.ENSPO0000269305	33528	33528.ENSGAFP00000008062	276.2
186	9606	9606.ENSPO0000269305	43700	43700.ENSMALP00000000877	275.8
187	9606	9606.ENSPO0000269305	47308	47308.ENSMLP00000021935	275.8
188	9606	9606.ENSPO0000269305	143630	143630.AOA402EXU8	275.4
189	9606	9606.ENSPO0000269305	240159	240159.AOA4U5UJG8	275.4
190	9606	9606.ENSPO0000269305	52670	52670.AOA2I4CET8	275.0
191	9606	9606.ENSPO0000269305	69293	69293.ENSGACP00000018012	275.0
192	9606	9606.ENSPO0000269305	106582	106582.ENSMZEP00005006261	274.6
193	9606	9606.ENSPO0000269305	8049	8049.ENSXMOP00000000401	274.6
194	9606	9606.ENSPO0000269305	303518	303518.ENSPNYP00000025442	274.2
195	9606	9606.ENSPO0000269305	1841481	1841481.ENSSLDP00000032981	274.2
196	9606	9606.ENSPO0000269305	158456	158456.ENSBSLP00000007319	273.9
197	9606	9606.ENSPO0000269305	8355	8355.AOA1L8FGI1	273.9
198	9606	9606.ENSPO0000269305	28377	28377.ENSACAP00000001746	273.9
199	9606	9606.ENSPO0000269305	75743	75743.AOA401P193	273.5
200	9606	9606.ENSPO0000269305	109280	109280.ENSHCOP00000022970	273.1

201	9606	9606.ENSPO0000269305	8673	8673.ENSPTXP00000024136	273.1
202	9606	9606.ENSPO0000269305	8090	8090.ENSORLP00000019616	272.7
203	9606	9606.ENSPO0000269305	9089	9089.ENSCHIP00010009060	271.9
204	9606	9606.ENSPO0000269305	30732	30732.ENSOMEPO0000009309	271.9
205	9606	9606.ENSPO0000269305	59894	59894.ENSFALP00000010031	271.6
206	9606	9606.ENSPO0000269305	156563	156563.ENSCEP00000019692	271.6
207	9606	9606.ENSPO0000269305	12930	12930.AOA0Q3T504	271.6
208	9606	9606.ENSPO0000269305	333673	333673.AOA3MOIU8	271.2
209	9606	9606.ENSPO0000269305	8996	8996.ENSNMEP00000004526	271.2
210	9606	9606.ENSPO0000269305	9157	9157.ENSMPJP00000017734	271.2
211	9606	9606.ENSPO0000269305	44394	44394.ENSZALP00000002887	270.8
212	9606	9606.ENSPO0000269305	9135	9135.ENSSEAP00000001137	270.8
213	9606	9606.ENSPO0000269305	93934	93934.ENSJPP00005010805	270.4
214	9606	9606.ENSPO0000269305	409849	409849.ENSMPGP00000017230	270.4
215	9606	9606.ENSPO0000269305	9031	9031.ENSFALP00000001485	270.4
216	9606	9606.ENSPO0000269305	9049	9049.ENSSTP00000007061	270.4
217	9606	9606.ENSPO0000269305	9054	9054.ENSCLP000000024156	270.4
218	9606	9606.ENSPO0000269305	13146	13146.ENSUNP00000017973	270.4
219	9606	9606.ENSPO0000269305	372326	372326.AOA1V4KNI0	270.0
220	9606	9606.ENSPO0000269305	13616	13616.ENSMDP00000018831	270.0
221	9606	9606.ENSPO0000269305	94827	94827.AOA099ZQ65	269.6
222	9606	9606.ENSPO0000269305	44316	44316.ENSEG0P00005018987	269.2
223	9606	9606.ENSPO0000269305	55661	55661.AOA091G407	269.2
224	9606	9606.ENSPO0000269305	94237	94237.ENSMMOP00000018694	269.2
225	9606	9606.ENSPO0000269305	128390	128390.AOA091UUY0	269.2
226	9606	9606.ENSPO0000269305	441894	441894.ENSSEUP00000005331	269.2
227	9606	9606.ENSPO0000269305	7868	7868.ENSCHIP00000007753	269.2
228	9606	9606.ENSPO0000269305	9238	9238.AOA093R114	269.2
229	9606	9606.ENSPO0000269305	55544	55544.AOA4D9E5P9	268.9
230	9606	9606.ENSPO0000269305	85066	85066.AOA091EA06	268.9
231	9606	9606.ENSPO0000269305	198806	198806.ENSPPUP00000025340	268.9
232	9606	9606.ENSPO0000269305	308060	308060.ENSARWP00000009421	268.9
233	9606	9606.ENSPO0000269305	425635	425635.ENSPPGP00000026631	268.9
234	9606	9606.ENSPO0000269305	8502	8502.ENSPPRP00005017750	268.9
235	9606	9606.ENSPO0000269305	8790	8790.ENSNDVP00000009001	268.9
236	9606	9606.ENSPO0000269305	8823	8823.ENSAP0P00000009000	268.9
237	9606	9606.ENSPO0000269305	8824	8824.ENSAPWP00000012514	268.9
238	9606	9606.ENSPO0000269305	9244	9244.AOA091HZ84	268.9
239	9606	9606.ENSPO0000269305	30464	30464.ENSNEP0P00000010833	268.9
240	9606	9606.ENSPO0000269305	40217	40217.ENSJHYP00000001101	268.9
241	9606	9606.ENSPO0000269305	50402	50402.AOA0A0AU13	268.5
242	9606	9606.ENSPO0000269305	118200	118200.AOA093GLW0	268.5
243	9606	9606.ENSPO0000269305	132585	132585.ENSABRP00000009434	268.5
244	9606	9606.ENSPO0000269305	194338	194338.ENSACUP00000017269	268.5
245	9606	9606.ENSPO0000269305	211598	211598.ENSANIP00000006686	268.5
246	9606	9606.ENSPO0000269305	241587	241587.ENSACOP00000010351	268.5
247	9606	9606.ENSPO0000269305	8840	8840.ENSAPLP000000032186	268.5
248	9606	9606.ENSPO0000269305	8845	8845.ENSACDP00005018035	268.5
249	9606	9606.ENSPO0000269305	8932	8932.AOA2I0LU30	268.5
250	9606	9606.ENSPO0000269305	30419	30419.AOA091VW97	268.5
251	9606	9606.ENSPO0000269305	223781	223781.ENSACCP00020004462	268.1

252	9606	9606.ENSPO0000269305	328815	328815.ENSMPVIP000005001759	268.1
253	9606	9606.ENSPO0000269305	9233	9233.AOA087R7Z2	268.1
254	9606	9606.ENSPO0000269305	9258	9258.ENS0ANP00000021753	268.1
255	9606	9606.ENSPO0000269305	321398	321398.ENS LCOP00000004510	267.7
256	9606	9606.ENSPO0000269305	10029	10029.G3GT84	266.9
257	9606	9606.ENSPO0000269305	8663	8663.ENSNSUP00000003328	264.6
258	9606	9606.ENSPO0000269305	7757	7757.ENSMPAP00000010479	258.1
259	9606	9606.ENSPO0000269305	32507	32507.ENS NBRP00000026855	257.7
260	9606	9606.ENSPO0000269305	9009	9009.AOA226MN96	255.4
261	9606	9606.ENSPO0000269305	7764	7764.ENSEBUP00000013202	251.9
262	9606	9606.ENSPO0000269305	9358	9358.ENSCHOP00000009300	241.9
263	9606	9606.ENSPO0000269305	7739	7739.C3XPU2	230.3
264	9606	9606.ENSPO0000269305	9014	9014.AOA226P7S4	224.2
265	9606	9606.ENSPO0000269305	283909	283909.R7UHV7	209.1
266	9606	9606.ENSPO0000269305	6573	6573.AOA210QTK4	203.4
267	9606	9606.ENSPO0000269305	7719	7719.ENS CINP00000003956	200.7
268	9606	9606.ENSPO0000269305	37653	37653.AOA0L8G262	198.7
269	9606	9606.ENSPO0000269305	225164	225164.V4A869	194.5
270	9606	9606.ENSPO0000269305	6526	6526.AOA2C9K4K6	193.7
271	9606	9606.ENSPO0000269305	7574	7574.AOA1S3IK29	192.2
272	9606	9606.ENSPO0000269305	188477	188477.AOA433U4Z3	190.7
273	9606	9606.ENSPO0000269305	51511	51511.ENS CSAVP00000016940	185.7
274	9606	9606.ENSPO0000269305	10195	10195.AOA3M7Q6B9	184.5
275	9606	9606.ENSPO0000269305	7668	7668.W4XZV7	175.3
276	9606	9606.ENSPO0000269305	10228	10228.B3RZS6	162.2
277	9606	9606.ENSPO0000269305	46731	46731.AOA3M6T6Q0	161.8
278	9606	9606.ENSPO0000269305	287889	287889.AOA369SDE5	161.8
279	9606	9606.ENSPO0000269305	407821	407821.AOA087U4M0	159.5
280	9606	9606.ENSPO0000269305	50429	50429.AOA2B4RUK1	158.7
281	9606	9606.ENSPO0000269305	6832	6832.AOA553NYY4	153.3
282	9606	9606.ENSPO0000269305	307972	307972.AOA2G8L3N1	150.6
283	9606	9606.ENSPO0000269305	418985	418985.AOA1V9Y190	149.8
284	9606	9606.ENSPO0000269305	7070	7070.D7EJV6	144.1
285	9606	9606.ENSPO0000269305	45351	45351.A7S162	142.9
286	9606	9606.ENSPO0000269305	30538	30538.ENSVPAP00000011479	137.5
287	9606	9606.ENSPO0000269305	6669	6669.E9FW11	135.2
288	9606	9606.ENSPO0000269305	6945	6945.B7QF52	134.0
289	9606	9606.ENSPO0000269305	6973	6973.AOA2P8XLZ2	134.0
290	9606	9606.ENSPO0000269305	400727	400727.AOA2T7PT95	131.0
291	9606	9606.ENSPO0000269305	35525	35525.AOA0P5UBN4	127.1
292	9606	9606.ENSPO0000269305	126957	126957.T1INQ8	124.4
293	9606	9606.ENSPO0000269305	7029	7029.J9JP39	123.2
294	9606	9606.ENSPO0000269305	121224	121224.E0V916	122.5
295	9606	9606.ENSPO0000269305	224129	224129.AOA1W4XBPO	121.7
296	9606	9606.ENSPO0000269305	136037	136037.AOA067QKS2	120.9
297	9606	9606.ENSPO0000269305	1661398	1661398.AOA482VJ27	120.9
298	9606	9606.ENSPO0000269305	6412	6412.T1EZJ4	120.2
299	9606	9606.ENSPO0000269305	121845	121845.AOA3Q0IPE1	113.6
300	9606	9606.ENSPO0000269305	543379	543379.AOA232FJ48	112.8
301	9606	9606.ENSPO0000269305	195883	195883.AOA482XMX2	110.2
302	9606	9606.ENSPO0000269305	7425	7425.K7IV69	109.8

303	9606	9606.ENSPO0000269305	597456	597456.AOAOL7RJB6	108.6
304	9606	9606.ENSPO0000269305	67767	67767.AOAJ7L4T2	107.8
305	9606	9606.ENSPO0000269305	81824	81824.A9UZX3	106.7
306	9606	9606.ENSPO0000269305	568069	568069.AOA1J1HKW3	105.5
307	9606	9606.ENSPO0000269305	166423	166423.AOAON1IU42	105.1
308	9606	9606.ENSPO0000269305	178035	178035.AOA154PH19	105.1
309	9606	9606.ENSPO0000269305	94128	94128.AOA2A3EPF3	104.8
310	9606	9606.ENSPO0000269305	7460	7460.AOA088AGC6	104.4
311	9606	9606.ENSPO0000269305	268475	268475.AOA0V1H034	103.6
312	9606	9606.ENSPO0000269305	6337	6337.AOA0VOXWZ0	103.6
313	9606	9606.ENSPO0000269305	105785	105785.AOA2J7RT65	103.2
314	9606	9606.ENSPO0000269305	268474	268474.AOA0V1MEE0	102.4
315	9606	9606.ENSPO0000269305	13347	13347.AOA444TIG8	102.1
316	9606	9606.ENSPO0000269305	13249	13249.T1HHW8	101.3
317	9606	9606.ENSPO0000269305	70415	70415.AOA5S6Q6J5	100.5
318	9606	9606.ENSPO0000269305	990121	990121.AOA0VOZFM8	96.3
319	9606	9606.ENSPO0000269305	45882	45882.AOA0V1D8F8	95.5
320	9606	9606.ENSPO0000269305	92179	92179.AOA0V0WQ02	95.5
321	9606	9606.ENSPO0000269305	144512	144512.AOA0V0U5U4	95.5
322	9606	9606.ENSPO0000269305	667725	667725.AOA0LOG1F4	95.5
323	9606	9606.ENSPO0000269305	6335	6335.AOA0V1LDC9	95.5
324	9606	9606.ENSPO0000269305	610380	610380.E2B2V4	95.1
325	9606	9606.ENSPO0000269305	104421	104421.E2APG2	94.7
326	9606	9606.ENSPO0000269305	6689	6689.AOA3R7SPV9	94.7
327	9606	9606.ENSPO0000269305	7209	7209.AOA1I7VBH3	94.7
328	9606	9606.ENSPO0000269305	946362	946362.F2U8Q9	94.4
329	9606	9606.ENSPO0000269305	181606	181606.AOA0V0V4L8	93.6
330	9606	9606.ENSPO0000269305	92180	92180.AOA0V1P3X2	93.2
331	9606	9606.ENSPO0000269305	77166	77166.N6UG92	92.8
332	9606	9606.ENSPO0000269305	6336	6336.AOA0V0S9D5	92.0
333	9606	9606.ENSPO0000269305	42155	42155.AOA0R3QQH5	90.9
334	9606	9606.ENSPO0000269305	51028	51028.AOA0N4VCR4	90.5
335	9606	9606.ENSPO0000269305	456900	456900.AOA195C1G0	89.7
336	9606	9606.ENSPO0000269305	6334	6334.AOA0V1B7T2	89.7
337	9606	9606.ENSPO0000269305	7176	7176.B0W6K7	89.0
338	9606	9606.ENSPO0000269305	42156	42156.AOA3P7K7U3	88.2
339	9606	9606.ENSPO0000269305	46835	46835.AOA504YVH4	87.4
340	9606	9606.ENSPO0000269305	6183	6183.AOA3Q0KN56	87.4
341	9606	9606.ENSPO0000269305	6280	6280.AOA0N4TIF7	87.4
342	9606	9606.ENSPO0000269305	595528	595528.AOA0D2X0F0	86.3
343	9606	9606.ENSPO0000269305	6282	6282.AOA044R7Z7	86.3
344	9606	9606.ENSPO0000269305	6186	6186.AOA183JFI6	85.9
345	9606	9606.ENSPO0000269305	60517	60517.AOA158R7U3	85.1
346	9606	9606.ENSPO0000269305	1147741	1147741.AOA0R3RXLO	85.1
347	9606	9606.ENSPO0000269305	6184	6184.AOA430QT47	84.7
348	9606	9606.ENSPO0000269305	102285	102285.AOA0R3TMT8	84.3
349	9606	9606.ENSPO0000269305	300112	300112.AOA4S2JFH1	84.3
350	9606	9606.ENSPO0000269305	278856	278856.AOA212FJ15	84.0
351	9606	9606.ENSPO0000269305	6182	6182.AOA4Z2CRH0	84.0
352	9606	9606.ENSPO0000269305	6211	6211.AOA087VYM5	84.0
353	9606	9606.ENSPO0000269305	6277	6277.AOA498SGZ8	84.0

354	9606	9606.ENSPO0000269305	64791	64791.AOA151XH99	83.6
355	9606	9606.ENSPO0000269305	6185	6185.AOA095C5C5	83.2
356	9606	9606.ENSPO0000269305	6210	6210.W6U916	82.8
357	9606	9606.ENSPO0000269305	7160	7160.AOA182GIF0	82.8
358	9606	9606.ENSPO0000269305	7159	7159.Q171M1	81.6
359	9606	9606.ENSPO0000269305	53468	53468.AOAOR3U6F0	80.9
360	9606	9606.ENSPO0000269305	6293	6293.AOA1I8EB15	80.9
361	9606	9606.ENSPO0000269305	6205	6205.AOAOR3WQW6	80.5
362	9606	9606.ENSPO0000269305	79923	79923.AOA3R7GQP5	80.1
363	9606	9606.ENSPO0000269305	147828	147828.AOA4S2LLK3	80.1
364	9606	9606.ENSPO0000269305	6198	6198.AOA074ZCBO	80.1
365	9606	9606.ENSPO0000269305	6216	6216.AOAOR3S7X9	79.7
366	9606	9606.ENSPO0000269305	103372	103372.F4X756	79.0
367	9606	9606.ENSPO0000269305	2015173	2015173.AOA026WHR3	79.0
368	9606	9606.ENSPO0000269305	34720	34720.AOA195FHS0	78.6
369	9606	9606.ENSPO0000269305	37001	37001.AOA1A9W1P0	78.6
370	9606	9606.ENSPO0000269305	66420	66420.AOAON1PE05	77.8
371	9606	9606.ENSPO0000269305	168631	168631.AOA437B4Y2	77.8
372	9606	9606.ENSPO0000269305	520822	520822.AOA195B173	77.8
373	9606	9606.ENSPO0000269305	471704	471704.AOA195DK69	77.4
374	9606	9606.ENSPO0000269305	12957	12957.AOA158ND95	77.4
375	9606	9606.ENSPO0000269305	451379	451379.AOAON5B0J2	77.0
376	9606	9606.ENSPO0000269305	7398	7398.AOA1A9ZZR1	77.0
377	9606	9606.ENSPO0000269305	29172	29172.AOA0D8Y6I2	75.9
378	9606	9606.ENSPO0000269305	400682	400682.AOA1X7UD97	75.1
379	9606	9606.ENSPO0000269305	201502	201502.AOA1A9YB05	74.7
380	9606	9606.ENSPO0000269305	6265	6265.AOA0B2UVT7	74.3
381	9606	9606.ENSPO0000269305	37546	37546.AOA1B0G0N7	73.6
382	9606	9606.ENSPO0000269305	76193	76193.AOAONOPCE7	72.0
383	9606	9606.ENSPO0000269305	7395	7395.AOA1A9UZU7	72.0
384	9606	9606.ENSPO0000269305	62324	62324.AOA182RCW2	70.5
385	9606	9606.ENSPO0000269305	199890	199890.AOA182PA25	70.5
386	9606	9606.ENSPO0000269305	158441	158441.AOA226DFT1	70.1
387	9606	9606.ENSPO0000269305	69004	69004.AOA3F2YX69	69.3
388	9606	9606.ENSPO0000269305	43151	43151.W5JCA5	68.9
389	9606	9606.ENSPO0000269305	7167	7167.AOA182FR67	68.6
390	9606	9606.ENSPO0000269305	334426	334426.AOAOR3Q2A0	67.0
391	9606	9606.ENSPO0000269305	7102	7102.AOA2A4JNC2	67.0
392	9606	9606.ENSPO0000269305	139723	139723.AOA182M5Y6	66.6
393	9606	9606.ENSPO0000269305	6313	6313.AOAOKODP08	66.6
394	9606	9606.ENSPO0000269305	6290	6290.AOAON4W3M7	66.2
395	9606	9606.ENSPO0000269305	7168	7168.AOA182N4N0	65.9
396	9606	9606.ENSPO0000269305	41427	41427.AOA182J735	65.9
397	9606	9606.ENSPO0000269305	51031	51031.W2SWL6	65.5
398	9606	9606.ENSPO0000269305	53326	53326.AOA016WYV3	65.5
399	9606	9606.ENSPO0000269305	48709	48709.AOA1D2NAH9	65.1
400	9606	9606.ENSPO0000269305	7165	7165.F5HK78	65.1
401	9606	9606.ENSPO0000269305	7260	7260.B4N9F0	65.1
402	9606	9606.ENSPO0000269305	1518534	1518534.AOA182LFH4	65.1
403	9606	9606.ENSPO0000269305	74873	74873.AOA084W6W1	63.9
404	9606	9606.ENSPO0000269305	112268	112268.AOA182VY33	63.9

405	9606	9606.ENSPO0000269305	30066	30066.AOA182V190	63.9
406	9606	9606.ENSPO0000269305	34691	34691.AOA182XID1	63.9
407	9606	9606.ENSPO0000269305	42157	42157.AOA182ELX1	63.9
408	9606	9606.ENSPO0000269305	46245	46245.AOAOR3NKT4	63.2
409	9606	9606.ENSPO0000269305	29170	29170.AOA368F8M2	63.2
410	9606	9606.ENSPO0000269305	318479	318479.AOAON4UDB8	62.8
411	9606	9606.ENSPO0000269305	7234	7234.B4GZG1	62.4
412	9606	9606.ENSPO0000269305	30069	30069.AOA182Y7A0	61.6
413	9606	9606.ENSPO0000269305	43041	43041.AOA182K2G4	60.5
414	9606	9606.ENSPO0000269305	7217	7217.AOAOP8XYV2	59.3
415	9606	9606.ENSPO0000269305	7227	7227.FBpp0083753	58.5
416	9606	9606.ENSPO0000269305	7232	7232.AOA484BSX2	58.5
417	9606	9606.ENSPO0000269305	387005	387005.AOA183H0Z1	57.0
418	9606	9606.ENSPO0000269305	7222	7222.B4JSF4	57.0
419	9606	9606.ENSPO0000269305	7238	7238.B4HFA1	57.0
420	9606	9606.ENSPO0000269305	70667	70667.AOA183STT5	56.6
421	9606	9606.ENSPO0000269305	7370	7370.AOA1I8N839	56.6
422	9606	9606.ENSPO0000269305	35570	35570.AOA1I8QBH4	56.6
423	9606	9606.ENSPO0000269305	7091	7091.E9JEI4	56.2
424	9606	9606.ENSPO0000269305	27835	27835.AOAON4YQF9	55.1
425	9606	9606.ENSPO0000269305	7240	7240.B4R1C4	54.3
426	9606	9606.ENSPO0000269305	34690	34690.AOA182UJE7	53.5
427	9606	9606.ENSPO0000269305	7375	7375.AOA0LOCLI5	53.1
428	9606	9606.ENSPO0000269305	7266	7266.AOA3B0JRN9	52.0
429	9606	9606.ENSPO0000269305	30019	30019.AOA0M3QXK1	52.0
430	9606	9606.ENSPO0000269305	947166	947166.AOA1D1VBG3	51.6
431	9606	9606.ENSPO0000269305	7244	7244.B4MB49	51.2
432	9606	9606.ENSPO0000269305	54126	54126.H3FK89	50.8

... or you can specify the species of interest (i.e. all the blast hits):

```
> # get the homologs of the following two proteins in the mouse (i.e. species_id=10090)
> string_db$get_homologs_besthits(c(tp53, atm), target_species_id=10090)

X9606 X9606.ENSPO0000269305 X10090 X10090.ENSMUSP00000104298 X598.2
1 9606 9606.ENSPO0000278616 10090 10090.ENSMUSP00000156344 5328.8
```

6 CITATION

Please cite:

Szklarczyk D, Kirsch R, Koutrouli M, Nastou K, Mehryary F, Hachilif R, Annika GL, Fang T, Doncheva NT, Pyysalo S, Bork P, Jensen LJ, von Mering C. 'The STRING database in 2023: protein-protein association networks and functional enrichment analyses for any sequenced genome of interest.' *Nucleic Acids Res.* 2023 Jan 6;51(D1):D638-646