

Neisseria gonorrhoeae FA 1090

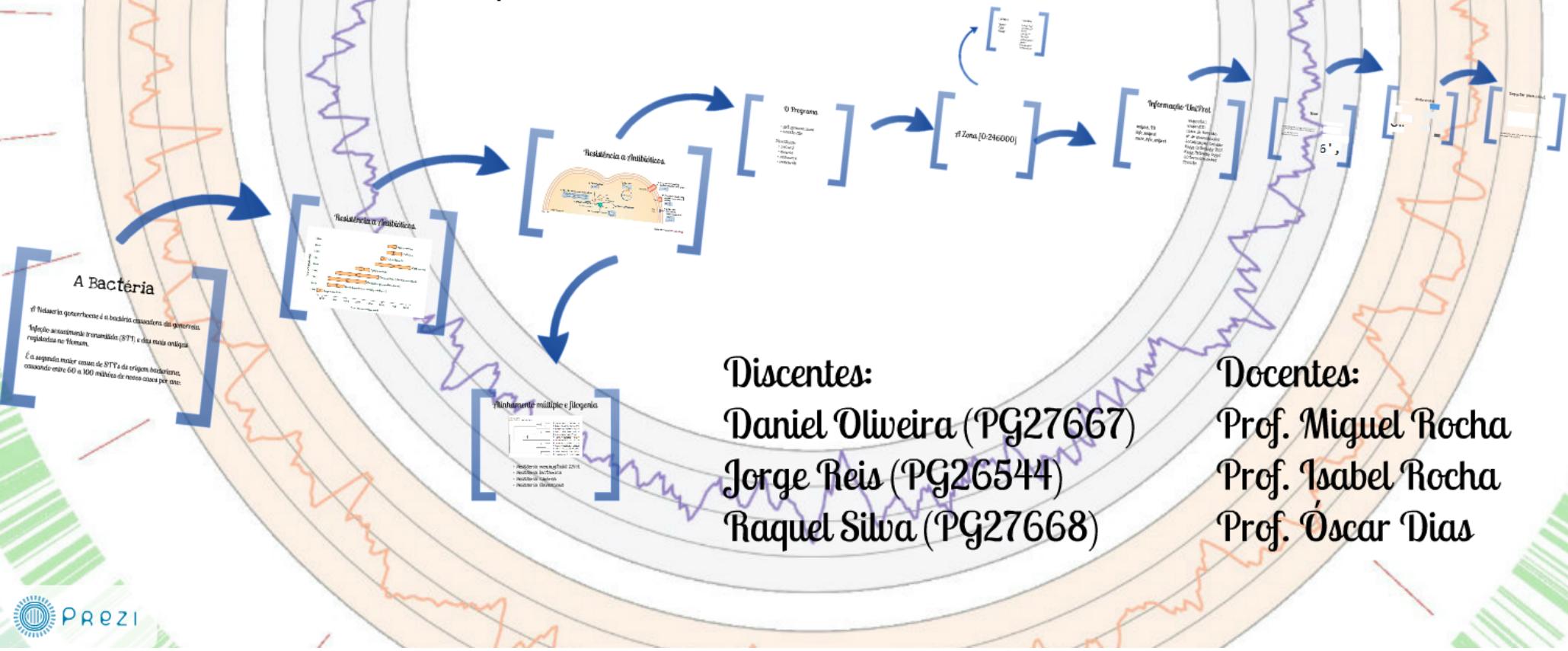
Versão: NC_002946.2 G1:59800473



Universidade do Minho

AASB e LB

Mestrado em Bioinformática
Ano Letivo 2014/2015



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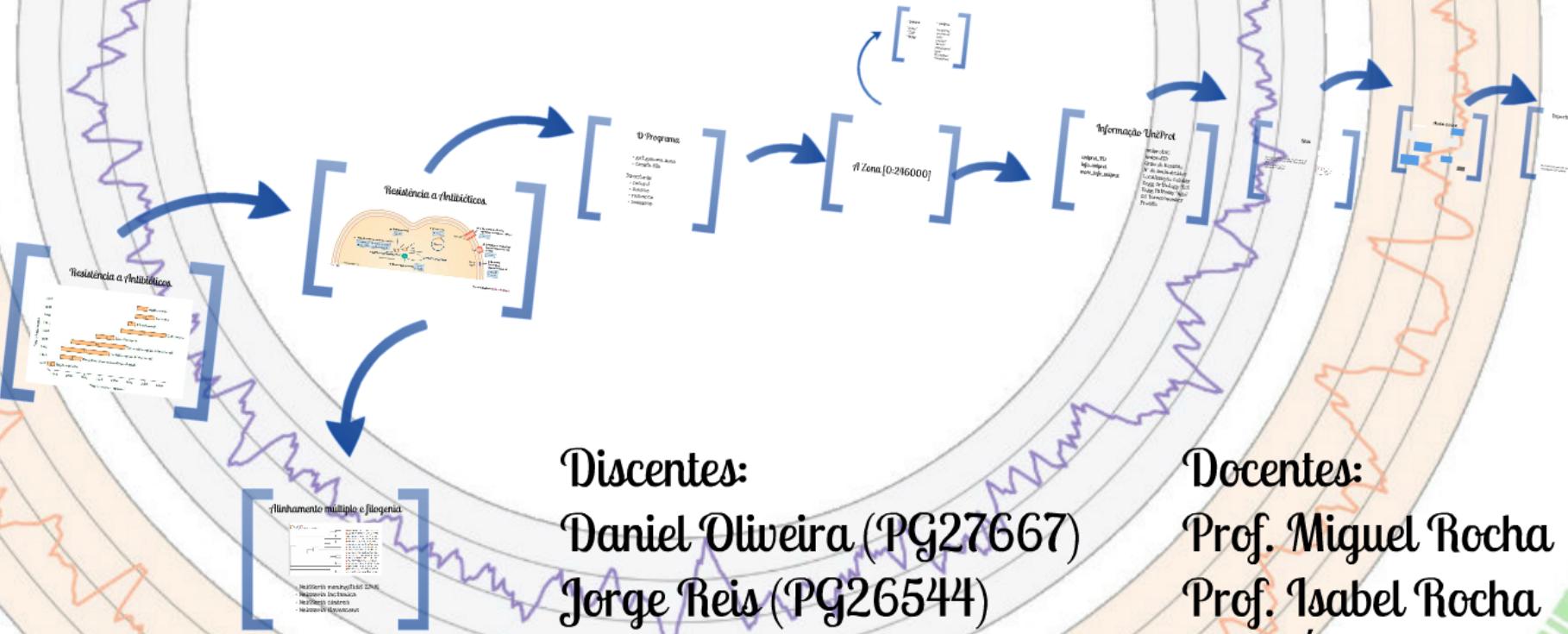


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Docentes:

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Prof. Isabel Rocha

Prof. Óscar Dias

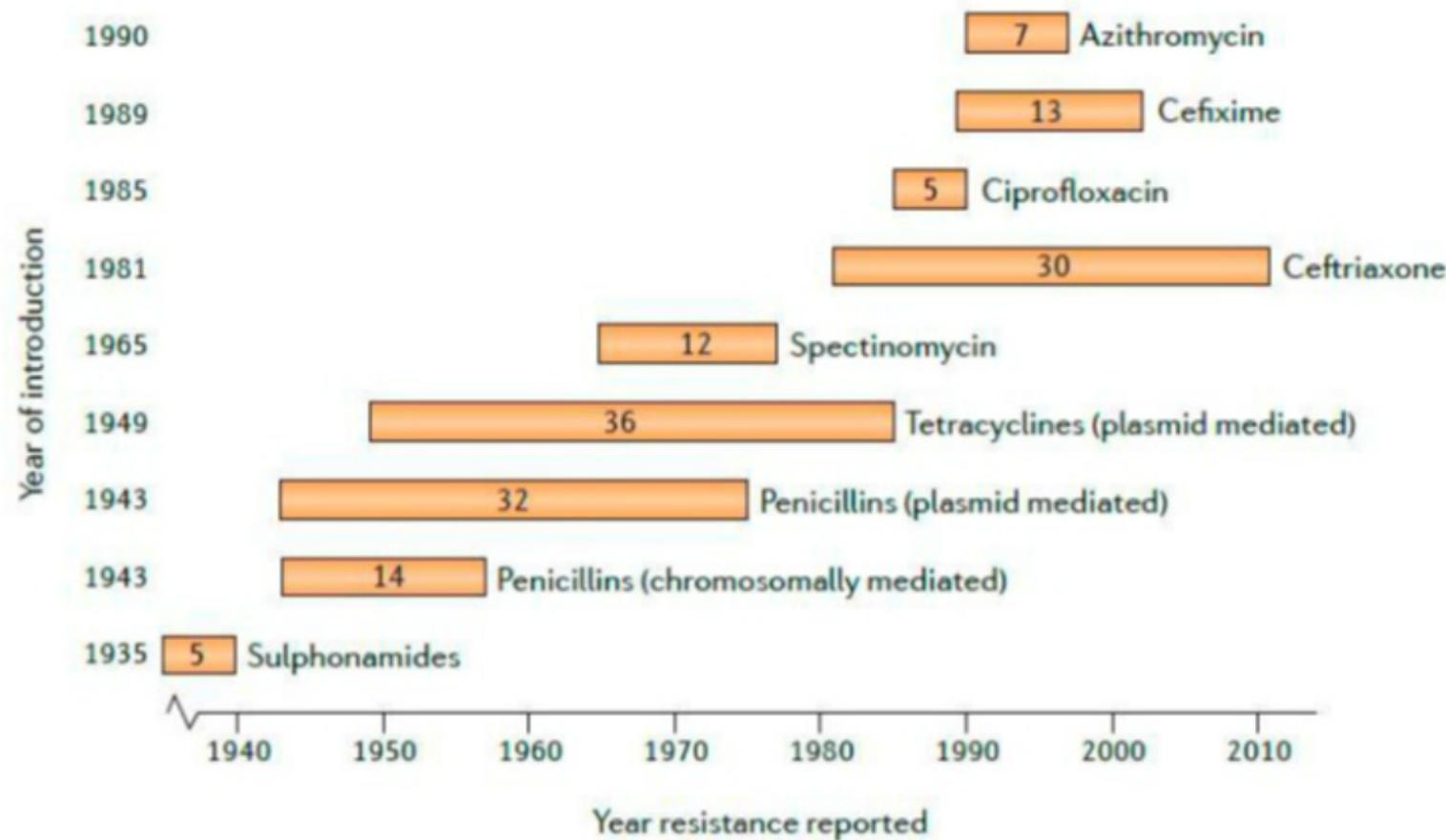
A Bactéria

A *Neisseria gonorrhoeae* é a bactéria causadora da gonorreia.

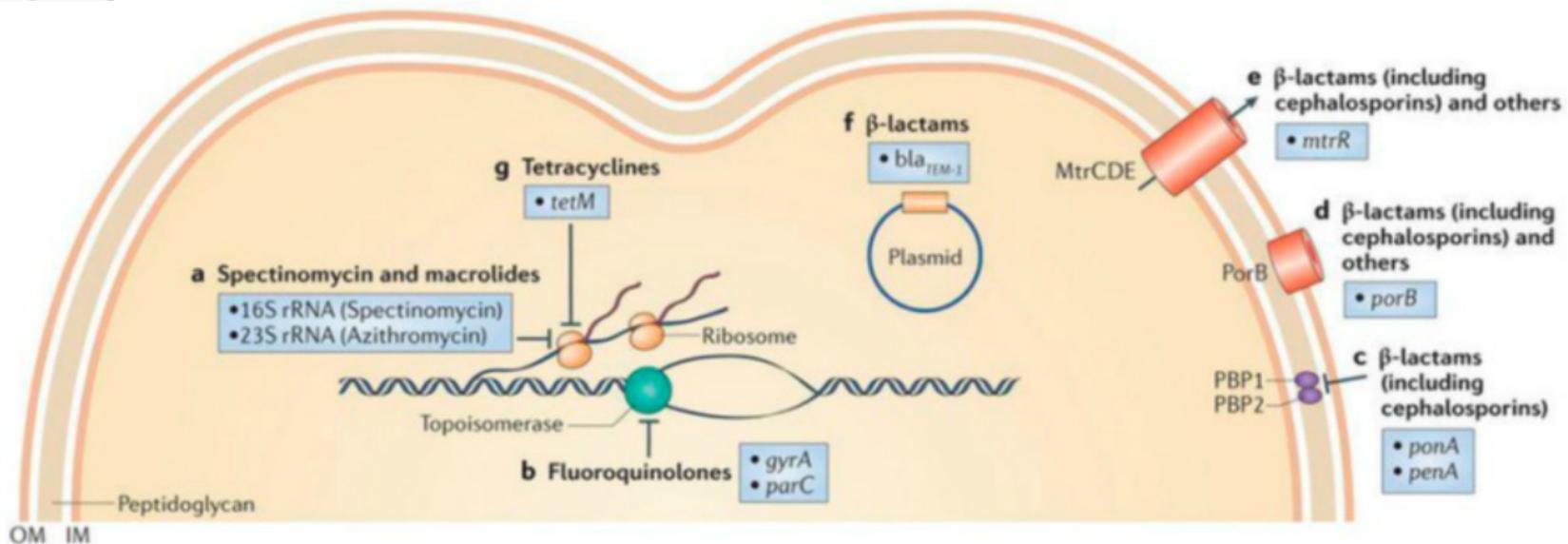
Infeção sexualmente transmitida (STI) e das mais antigas registadas no Homem.

É a segunda maior causa de STI's de origem bacteriana, causando entre 60 a 100 milhões de novos casos por ano.

Resistência a Antibióticos.



Resistência a Antibióticos.

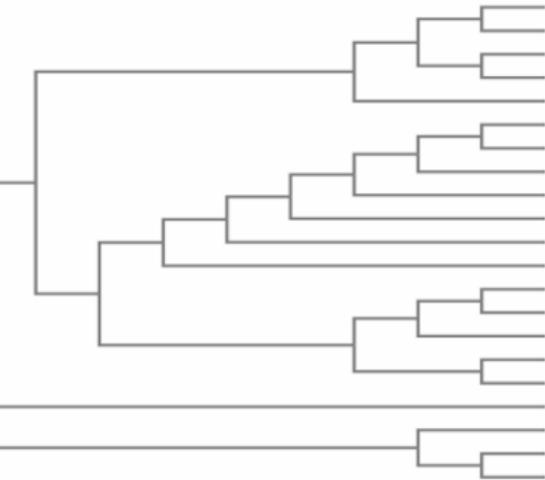


Nature Reviews | Microbiology

Alinhamento múltiplo e filogenia



Branch length: Cladogram Real



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gi|14548174|sp|O66874.1|PBPA_A 0.32312  
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```

- *Neisseria meningitidis* Z2491
 - *Neisseria lactamica*
 - *Neisseria cinerea*
 - *Neisseria flava* Scens

O Programa

- get_genome_zone
- create_file

Directoria:

- record
- Source
- reSource
- reSearch

A Zona [0:246000]

- features

"gene"

"CDS"

"tRNA"

- qualifiers

"locus_tag"

"protein_id"

"note"

"product"

"db_zref"

"pseudogene"

"gene"

"EC_number"

"translation"

Informação UniProt

uniprot_ID
info_uniprot
more_info_uniprot

uniprotAC
uniprotID
Grau de Revisão
Nº de aminoácidos
Localização celular
Kegg Orthology (KO)
Kegg Pathway (ngo)
GO terms/number
Prosite

Blast

Na primeira parte do código fomos buscar os GI's das proteínas com notas e sem notas do NCBI;

E-value inferior a 0.05;
Utilizamos a Swissprot.

```
7
8 from Bio import SeqIO #reading gb file
9 from Bio.Blast import NCBIWWW,NCBIOML #fetching/parsing blast
10 import shutil #moving files
11 import os, path #checking files in path
12 import urllib #getting info from site
13 from Uniprot_Parser import * #parsing uniprot text file
...
15 #GI numbers from genes with note
16 def GInumbers(record, locus_tag):
17     GI = []
18     for i in range(len(record.features)):
19         my_cds = record.features[i]
20         if my_cds.type == "CDS":
21             for j in range(len(locus_tag)):
22                 if "note" in my_cds.qualifiers:
23                     if "db_xref" in my_cds.qualifiers:
24                         if "Uniprot" in my_cds.qualifiers:
25                             xmy_cds.qualifiers["db_xref"]
26                             GI.append(x[0])
27
28     return GI
...
17 #Get gi from protein without note
18 def giWithout_note(record):
19     ID = []
20     for i in range(len(record.features)):
21         my_cds = record.features[i]
22         if my_cds.type == "CDS":
23             if "note" not in my_cds.qualifiers:
24                 x= my_cds.qualifiers["db_xref"]
25                 gi=x[0]
26                 ID.append(gi[3:])
27
28     return ID
```

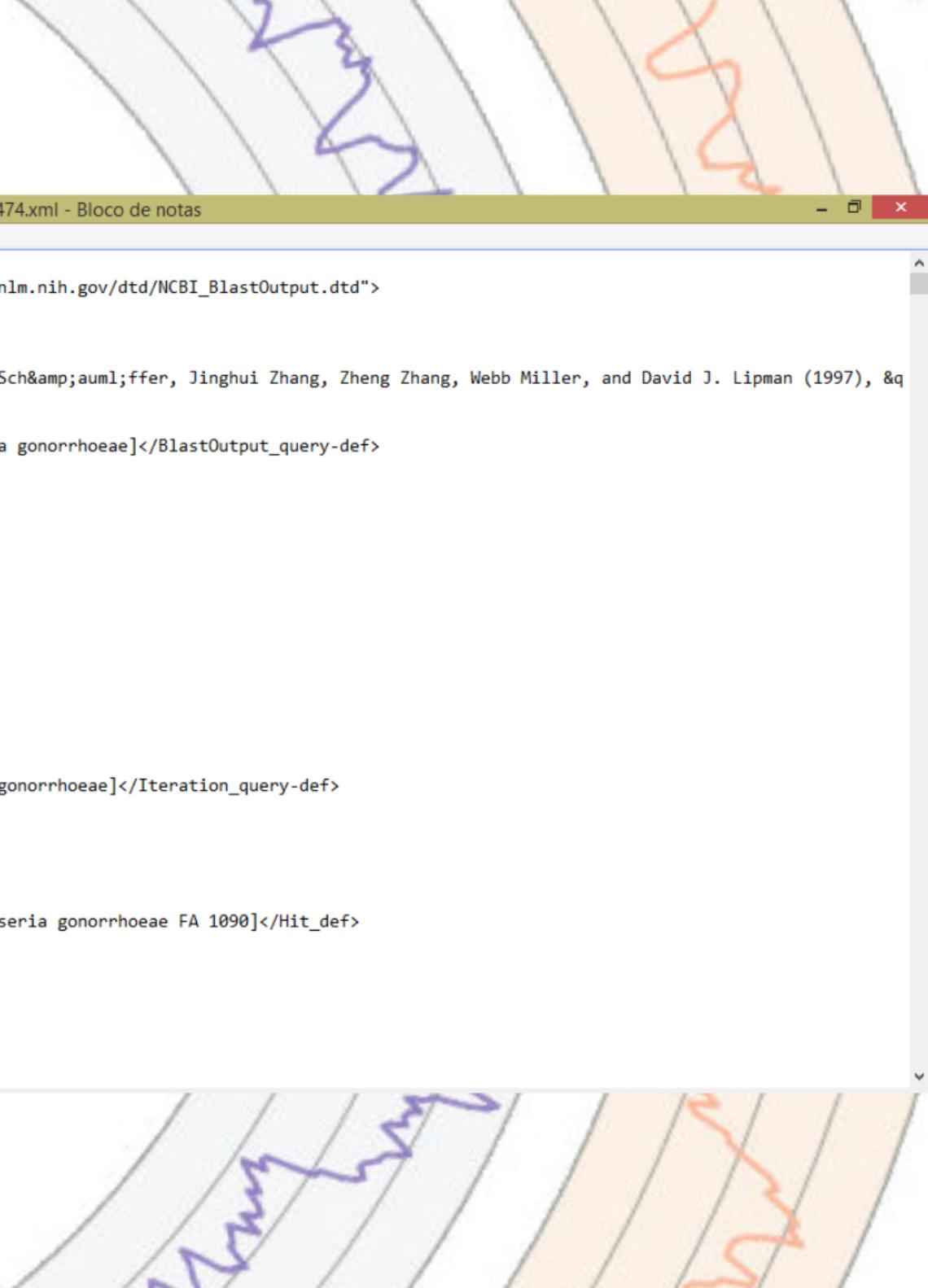
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Analise do blast





	Nome	Data de modificação	Tipo	Tamanho
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Dropbox	nomatch	09/02/2015 11:44	Pasta de ficheiros	
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BS_IAP	59800475.xml	08/02/2015 17:24	Ficheiro XML	101 KB
bioinf(grupo)	59800476.xml	08/02/2015 17:24	Ficheiro XML	154 KB
1ºano bioinf (i)	59800478.xml	08/02/2015 17:24	Ficheiro XML	180 KB
Locais recente	59800486.xml	08/02/2015 17:24	Ficheiro XML	91 KB
Transferências	59800496.xml	08/02/2015 17:24	Ficheiro XML	119 KB
brisadocampc	59800498.xml	08/02/2015 17:24	Ficheiro XML	87 KB
GitHub	59800503.xml	08/02/2015 17:24	Ficheiro XML	113 KB
	59800505.xml	08/02/2015 17:24	Ficheiro XML	147 KB
OneDrive	59800506.xml	08/02/2015 17:24	Ficheiro XML	123 KB
	59800508.xml	08/02/2015 17:24	Ficheiro XML	116 KB
Grupo Doméstico	59800509.xml	08/02/2015 17:24	Ficheiro XML	76 KB
	59800510.xml	08/02/2015 17:24	Ficheiro XML	95 KB
Este PC	59800512.xml	08/02/2015 17:24	Ficheiro XML	64 KB
Ambiente de trabalho	59800514.xml	08/02/2015 17:24	Ficheiro XML	103 KB
Documentos	59800515.xml	08/02/2015 17:24	Ficheiro XML	215 KB
Imagens	59800516.xml	08/02/2015 17:24	Ficheiro XML	30 KB
Música	59800518.xml	08/02/2015 17:24	Ficheiro XML	109 KB
Transferências	59800520.xml	08/02/2015 17:24	Ficheiro XML	15 KB
Vídeos	59800526.xml	08/02/2015 17:38	Ficheiro XML	135 KB
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Rede	59800534.xml	08/02/2015 17:55	Ficheiro XML	80 KB
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59800474.xml - Bloco de notas

Ficheiro Editar Formatar Ver Ajuda

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  <BlastOutput_db>swissprot</BlastOutput_db>
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  <BlastOutput_query-def>chromosomal replication initiation protein [Neisseria gonorrhoeae]</BlastOutput_query-def>
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matches.txt - Bloco de notas



allhits.txt - Bloco de notas

Ficheiro Editar Formatar Ver Ajuda

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[ 'P0ACV1.1', 'P0ACV0.1', 'P0ACV2.1', 'P0ACV3.1', 'P44567.1', 'P45239.2', 'P24205.1', 'P59198.1', '006659.2', '59800566' ]  
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[ 'Q5FAB1.1', 'B4RQ47.1', 'A1KSA7.1', 'A9M1W7.1', 'Q9JWU8.1', 'Q9JY16.1', 'Q7NYZ5.1', 'A1K9C3.1', 'Q47IG1.1', 'Q0AIA2.1', 'Q2Y9Z4.1', 'Q82SU4.1', 'Q5P7N1.1', 'Q1GZ85.1' ]  
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[ 'Q5FAA9.1', 'B4RQ50.1', 'Q9JY18.1', 'A9M1W9.1', 'Q9JWU6.1', 'A1KSA9.1', 'Q7NRT5.1', 'C1D5B2.1', 'Q3SF19.1', 'Q82UK2.1', 'Q2YBK4.1', 'Q0ABJ9.1', 'Q0AHZ8.1', 'B0KK45.1' ]
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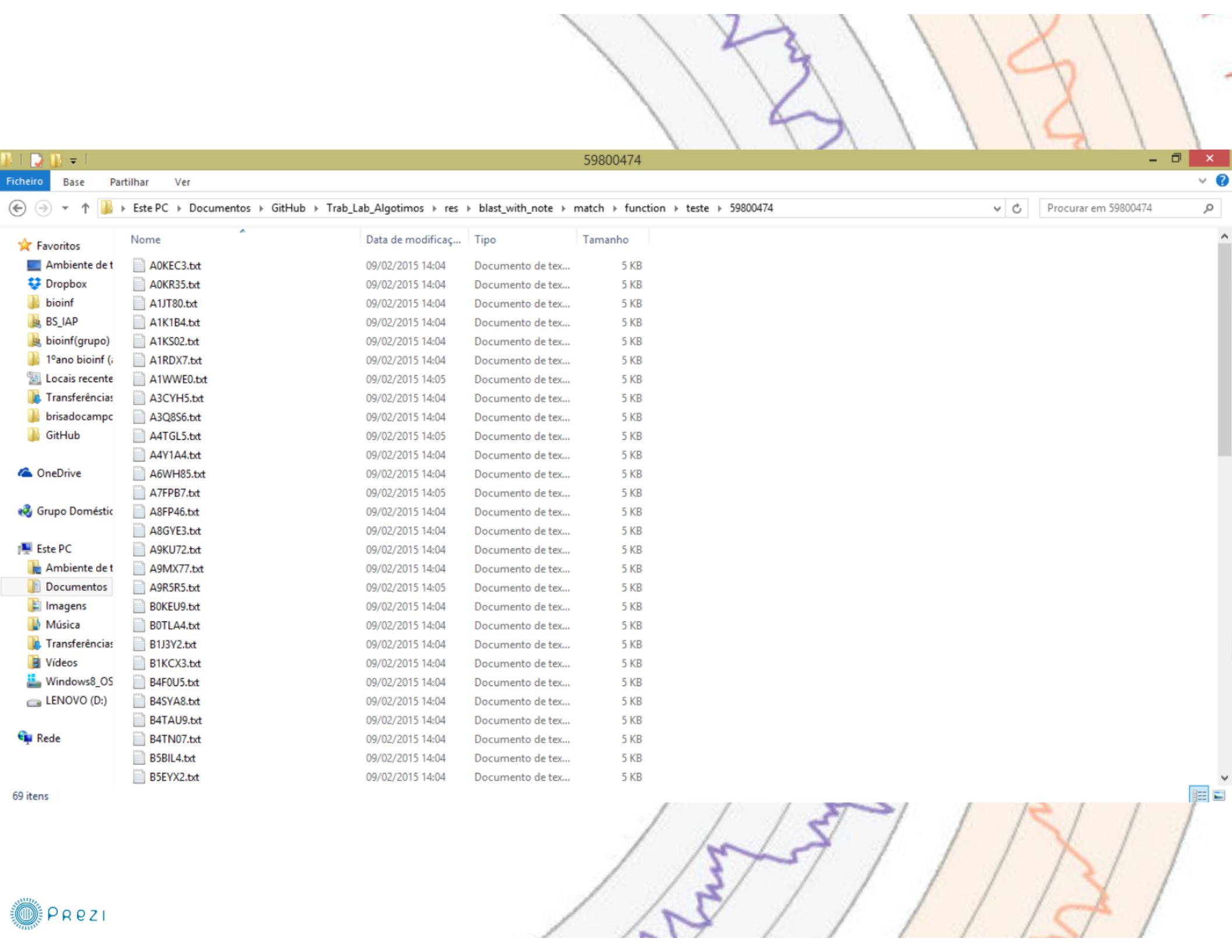
Ficheiro Base Partilhar Ver

Este PC Documentos GitHub Trab_Lab_Algoritmos res blast_with_note match function teste

Procurar em teste

	Nome	Data de modificação	Tipo
Ambiente de trabalho	59800474	09/02/2015 14:05	Pasta de ficheiros
Dropbox	59800475	09/02/2015 14:05	Pasta de ficheiros
bioinf	59800476	09/02/2015 14:05	Pasta de ficheiros
BS_IAP	59800478	09/02/2015 14:06	Pasta de ficheiros
bioinf(grupo)	59800486	09/02/2015 14:06	Pasta de ficheiros
1ºano bioinf (i)	59800496	09/02/2015 14:07	Pasta de ficheiros
Locais recentes	59800498	09/02/2015 14:07	Pasta de ficheiros
Transferências	59800503	09/02/2015 14:08	Pasta de ficheiros
brisadocampc	59800505	09/02/2015 14:08	Pasta de ficheiros
GitHub	59800506	09/02/2015 14:09	Pasta de ficheiros
	59800508	09/02/2015 14:09	Pasta de ficheiros
OneDrive	59800509	09/02/2015 14:10	Pasta de ficheiros
	59800510	09/02/2015 14:10	Pasta de ficheiros
Grupo Doméstico	59800512	09/02/2015 14:10	Pasta de ficheiros
	59800514	09/02/2015 14:11	Pasta de ficheiros
Este PC	59800515	09/02/2015 14:11	Pasta de ficheiros
Ambiente de trabalho	59800518	09/02/2015 14:12	Pasta de ficheiros
Documentos	59800520	09/02/2015 14:12	Pasta de ficheiros
Imagens	59800526	09/02/2015 14:12	Pasta de ficheiros
Música	59800527	09/02/2015 14:12	Pasta de ficheiros
Transferências	59800531	09/02/2015 14:13	Pasta de ficheiros
Vídeos	59800532	09/02/2015 14:13	Pasta de ficheiros
Windows8_OS	59800534	09/02/2015 14:14	Pasta de ficheiros
LENOVO (D:)	59800535	09/02/2015 14:15	Pasta de ficheiros
	59800543	09/02/2015 14:16	Pasta de ficheiros
Rede	59800544	09/02/2015 14:16	Pasta de ficheiros
	59800546	09/02/2015 14:17	Pasta de ficheiros
	59800547	09/02/2015 14:17	Pasta de ficheiros

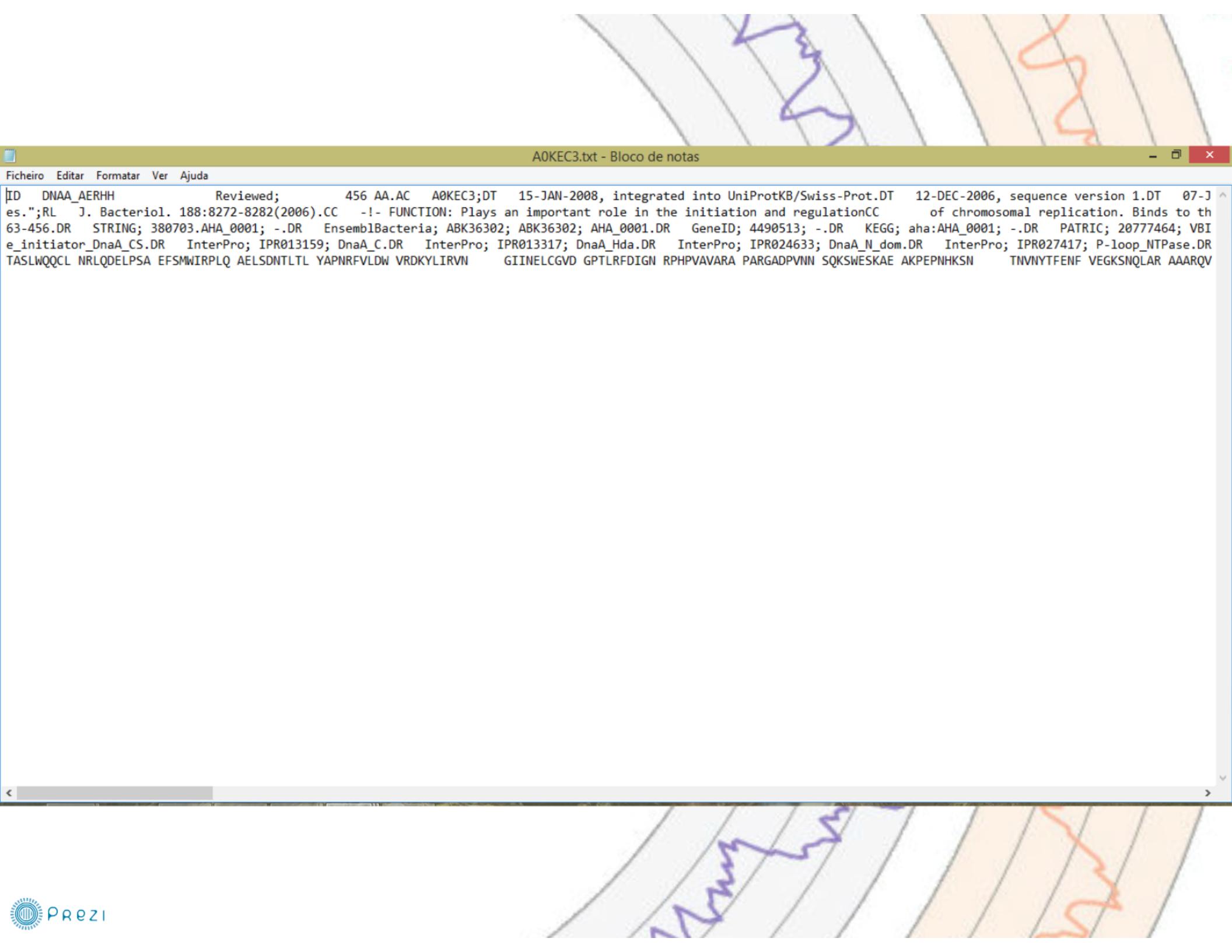
apresentação.pez foi atualizado.
"apresentação.pez" foi atualizado para a versão mais recente (clique para visualizar).



A screenshot of a Windows file explorer window. The title bar shows the file path: "Este PC > Documentos > GitHub > Trab_Lab_Algoritmos > res > blast_with_note > match > function > teste > 59800474". The search bar at the top right contains the text "Procurar em 59800474". The left sidebar lists "Favoritos" and "Este PC" sections, with "Documentos" selected. The main area displays a table with 69 items, showing columns for Name, Last modified, Type, and Size (all 5 KB). The names are mostly A0 through B5 followed by four-digit numbers.

	Nome	Data de modificação	Tipo	Tamanho
Ambiente de t	A0KEC3.txt	09/02/2015 14:04	Documento de tex...	5 KB
Dropbox	A0KR35.txt	09/02/2015 14:04	Documento de tex...	5 KB
bioinf	A1JT80.txt	09/02/2015 14:04	Documento de tex...	5 KB
BS_IAP	A1K1B4.txt	09/02/2015 14:04	Documento de tex...	5 KB
bioinf(grupo)	A1KS02.txt	09/02/2015 14:04	Documento de tex...	5 KB
1ºano bioinf (i	A1RDX7.txt	09/02/2015 14:04	Documento de tex...	5 KB
Locais recente	A1WWE0.txt	09/02/2015 14:05	Documento de tex...	5 KB
Transferências	A3CYH5.txt	09/02/2015 14:04	Documento de tex...	5 KB
brisadocampc	A3Q8S6.txt	09/02/2015 14:04	Documento de tex...	5 KB
GitHub	A4TGL5.txt	09/02/2015 14:05	Documento de tex...	5 KB
	A4Y1A4.txt	09/02/2015 14:04	Documento de tex...	5 KB
OneDrive	A6WH85.txt	09/02/2015 14:04	Documento de tex...	5 KB
	A7FPB7.txt	09/02/2015 14:05	Documento de tex...	5 KB
Grupo Doméstic	A8FP46.txt	09/02/2015 14:04	Documento de tex...	5 KB
	A8GVE3.txt	09/02/2015 14:04	Documento de tex...	5 KB
Este PC	A9KU72.txt	09/02/2015 14:04	Documento de tex...	5 KB
Ambiente de t	A9MX77.txt	09/02/2015 14:04	Documento de tex...	5 KB
Documentos	A9R5R5.txt	09/02/2015 14:05	Documento de tex...	5 KB
Imagens	B0KEU9.txt	09/02/2015 14:04	Documento de tex...	5 KB
Música	B0TLA4.txt	09/02/2015 14:04	Documento de tex...	5 KB
Transferências	B1J3Y2.txt	09/02/2015 14:04	Documento de tex...	5 KB
Vídeos	B1KCX3.txt	09/02/2015 14:04	Documento de tex...	5 KB
Windows8_OS	B4F0U5.txt	09/02/2015 14:04	Documento de tex...	5 KB
LENOVO (D:)	B4SYA8.txt	09/02/2015 14:04	Documento de tex...	5 KB
	B4TAU9.txt	09/02/2015 14:04	Documento de tex...	5 KB
Rede	B4TN07.txt	09/02/2015 14:04	Documento de tex...	5 KB
	B5BIL4.txt	09/02/2015 14:04	Documento de tex...	5 KB
	B5EYX2.txt	09/02/2015 14:04	Documento de tex...	5 KB

69 itens



A0KEC3.txt - Bloco de notas

Ficheiro Editar Formatar Ver Ajuda

ID DNAA_AERHH Reviewed; 456 AA.AC A0KEC3;DT 15-JAN-2008, integrated into UniProtKB/Swiss-Prot.DT 12-DEC-2006, sequence version 1.DT 07-J
es.";RL J. Bacteriol. 188:8272-8282(2006).CC -!- FUNCTION: Plays an important role in the initiation and regulationCC of chromosomal replication. Binds to th
63-456.DR STRING; 380703.AHA_0001; -.DR EnsemblBacteria; ABK36302; ABK36302; AHA_0001.DR GeneID; 4490513; -.DR KEGG; aha:AHA_0001; -.DR PATRIC; 20777464; VBI
e_initiator_DnaA_CS.DR InterPro; IPR013159; DnaA_C.DR InterPro; IPR013317; DnaA_Hda.DR InterPro; IPR024633; DnaA_N_dom.DR InterPro; IPR027417; P-loop_NTPase.DR
TASLWQQCL NRLQDELPSA EFSMWIRPLQ AEISDNTLTL YAPNRFVLDW VRDKYLIRVN GIINELCGVD GPTLRFDIGN RPHPVAVARA PARGADPVNN SQKSWEKAE AKPEPNHKSN TNVNYTFENF VEGKSNQLAR AAARQV

Ficheiro Editar Procurar Visualização Codificação Linguagem Configuração Macro Executar Plugins Janela ?

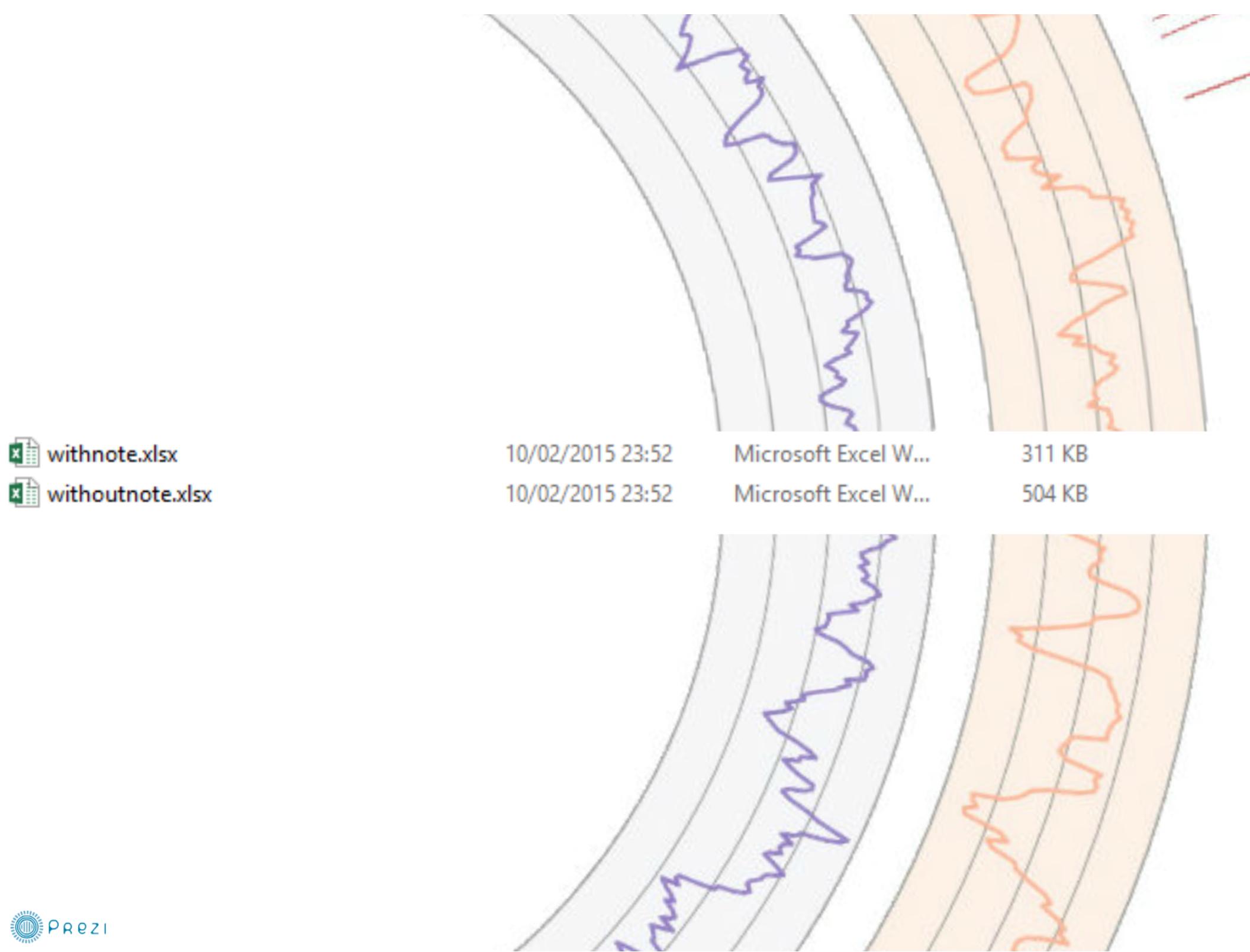
allhits.txt MyAlign.py sequence (2).fasta sequence (3).fasta alinhamentos.phy filogenia.dnd 59800695.txt

	Gi:	Possível função:	Descrição da função	Descrição da função (continuação)
1	A0KLY1	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
2	A0KYE1	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
3	A1A9J2	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
4	A1KST3	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
5	A4G7Y1	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
6	A5F728	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
7	A5W728	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
8	A6T707	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
9	A6V3B7	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
10	A7MV09	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
11	A7ZK04	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
12	A7ZYL7	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
13	A8AIG6	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
14	A8GCH7	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
15	A9M2V4	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
16	B1IW16	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
17	B1J506	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
18	B1LJU8	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
19	B1X855	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
20	B2TUG4	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
21	B5YT49	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
22	B6I8Y7	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
23	B7LE13	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
24	B7LN77	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
25	B7M844	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos
26	B7MHM4	Possível função:	Transfers the gamma-phosphate of ATP to the 4'-position CC	of a tetraacyldisaccharide 1-phos

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		Blast hit (Uniprot ID)	Description
1	161572978	A064L8	maxicoccus virus, recom. monomay pisoniae maxicoccus DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. [ECO:0000255] [HAMAP-Rule-MF_00034]. CATALYTIC ACTIVITY: Endonuclease cleavage at a junction site such as a reciprocal single-stranded crossover between two homologous DNA duplexes [Holliday junction]. [ECO:0000255] [HAMAP-Rule-MF_00034]. COFACTOR: Name=Mgl(2) Xref=CHEBI:CHEBI:18420 Evidence:[ECO:0022310] [HAMAP-Rule-MF_00034]. Substrates: [Pig1] Maxicoccus monosporus, [Pig2] Maxicoccus monosporus, [Pig3] Maxicoccus monosporus, [Pig4] Maxicoccus monosporus, [Pig5] Maxicoccus monosporus. [ECO:0000255] [HAMAP-Rule-MF_00034]. SIMILARITY: Belongs to the RucC family. [ECO:0000255] [HAMAP-Rule-MF_00034].
2	161572978	A1K2Y3	maxicoccus virus, recom. monomay pisoniae maxicoccus DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. [ECO:0000255] [HAMAP-Rule-MF_00034]. CATALYTIC ACTIVITY: Endonuclease cleavage at a junction site such as a reciprocal single-stranded crossover between two homologous DNA duplexes [Holliday junction]. [ECO:0000255] [HAMAP-Rule-MF_00034]. COFACTOR: Name=Mgl(2) Xref=CHEBI:CHEBI:18420 Evidence:[ECO:0022310] [HAMAP-Rule-MF_00034]. Substrates: [Pig1] Maxicoccus monosporus, [Pig2] Maxicoccus monosporus, [Pig3] Maxicoccus monosporus, [Pig4] Maxicoccus monosporus, [Pig5] Maxicoccus monosporus. [ECO:0000255] [HAMAP-Rule-MF_00034]. SIMILARITY: Belongs to the RucC family. [ECO:0000255] [HAMAP-Rule-MF_00034].
3	161572978	A1K2Y3	maxicoccus virus, recom. monomay pisoniae maxicoccus DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. [ECO:0000255] [HAMAP-Rule-MF_00034]. CATALYTIC ACTIVITY: Endonuclease cleavage at a junction site such as a reciprocal single-stranded crossover between two homologous DNA duplexes [Holliday junction]. [ECO:0000255] [HAMAP-Rule-MF_00034]. COFACTOR: Name=Mgl(2) Xref=CHEBI:CHEBI:18420 Evidence:[ECO:0022310] [HAMAP-Rule-MF_00034]. Substrates: [Pig1] Maxicoccus monosporus, [Pig2] Maxicoccus monosporus, [Pig3] Maxicoccus monosporus, [Pig4] Maxicoccus monosporus, [Pig5] Maxicoccus monosporus. [ECO:0000255] [HAMAP-Rule-MF_00034]. SIMILARITY: Belongs to the RucC family. [ECO:0000255] [HAMAP-Rule-MF_00034]. SEQUENCE CAUTION: Reciprocal strand exchange may occur at the junction.
4	161572978	A1K2Y3	maxicoccus virus, recom. monomay pisoniae maxicoccus DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. [ECO:0000255] [HAMAP-Rule-MF_00034]. CATALYTIC ACTIVITY: Endonuclease cleavage at a junction site such as a reciprocal single-stranded crossover between two homologous DNA duplexes [Holliday junction]. [ECO:0000255] [HAMAP-Rule-MF_00034]. COFACTOR: Name=Mgl(2) Xref=CHEBI:CHEBI:18420 Evidence:[ECO:0022310] [HAMAP-Rule-MF_00034]. Substrates: [Pig1] Maxicoccus monosporus, [Pig2] Maxicoccus monosporus, [Pig3] Maxicoccus monosporus, [Pig4] Maxicoccus monosporus, [Pig5] Maxicoccus monosporus. [ECO:0000255] [HAMAP-Rule-MF_00034]. SIMILARITY: Belongs to the RucC family. [ECO:0000255] [HAMAP-Rule-MF_00034]. SEQUENCE CAUTION: Reciprocal strand exchange may occur at the junction.

No total tivemos 6528 proteínas que podem ser homólogas das nossas.



 withnote.xlsx

10/02/2015 23:52

Microsoft Excel W...

311 KB

 withoutnote.xlsx

10/02/2015 23:52

Microsoft Excel W...

504 KB

A screenshot of Microsoft Excel showing a table of protein information. The table has three columns: 'Gl' (row 1), 'Blast hit (Uniprot ID)' (row 1), and 'Description' (row 1). Rows 2, 3, and 4 show identical data for different Uniprot IDs.

Gl	Blast hit (Uniprot ID)	Description
161572978	A0K4L6	Nuclease that resolves Holliday junction intermediates in genetic recombination. Cleaves the cruciform structure in supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. {ECO:0000255 HAMAP-Rule:MF_00034}. CATALYTIC ACTIVITY: Endonucleolytic cleavage at a junction such as a reciprocal single-stranded crossover between two homologous DNA duplexes (Holliday junction). {ECO:0000255 HAMAP-Rule:MF_00034}. COFACTOR: Name=Mg(2+) Xref=ChEBI:CHEBI:18420 Evidence={ECO:0000255 HAMAP-Rule:MF_00034} Note=Binds 1 Mg(2+) ion per subunit. {ECO:0000255 HAMAP-Rule:MF_00034} SIMILARITY: Belongs to the RuvC family. {ECO:0000255 HAMAP-Rule:MF_00034}.
161572978	A1K2Y3	Nuclease that resolves Holliday junction intermediates in genetic recombination. Cleaves the cruciform structure in supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. {ECO:0000255 HAMAP-Rule:MF_00034}. CATALYTIC ACTIVITY: Endonucleolytic cleavage at a junction such as a reciprocal single-stranded crossover between two homologous DNA duplexes (Holliday junction). {ECO:0000255 HAMAP-Rule:MF_00034}. COFACTOR: Name=Mg(2+) Xref=ChEBI:CHEBI:18420 Evidence={ECO:0000255 HAMAP-Rule:MF_00034} Note=Binds 1 Mg(2+) ion per subunit. {ECO:0000255 HAMAP-Rule:MF_00034} SIMILARITY: Belongs to the RuvC family. {ECO:0000255 HAMAP-Rule:MF_00034}.
161572978	A1KUM5	Nuclease that resolves Holliday junction intermediates in genetic recombination. Cleaves the cruciform structure in supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5'-terminal phosphate and a 3'-terminal hydroxyl group. {ECO:0000255 HAMAP-Rule:MF_00034}. CATALYTIC ACTIVITY: Endonucleolytic cleavage at a junction such as a reciprocal single-stranded crossover between two homologous DNA duplexes (Holliday junction). {ECO:0000255 HAMAP-Rule:MF_00034}. COFACTOR: Name=Mg(2+) Xref=ChEBI:CHEBI:18420 Evidence={ECO:0000255 HAMAP-Rule:MF_00034} Note=Binds 1 Mg(2+) ion per subunit. {ECO:0000255 HAMAP-Rule:MF_00034} SIMILARITY: Belongs to the RuvC family. {ECO:0000255 HAMAP-Rule:MF_00034}. SEQUENCE CAUTION:

The Excel ribbon tabs visible are FICHEIRO, BASE, INSERIR, ESQUEMA DE PÁGINA, FÓRMULAS, DADOS, REVER, VER, and ESTRUTURA. The ESTRUTURA tab is selected. The status bar shows 'PRONTO' and '106%'. The bottom right corner of the slide features the Prezi logo.

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1	16157298	A0K4L6	blast hit (Uniprot ID)	
2	16157298	A1K2Y3		
3	16157298	AS0KMG		
4	16157298			

No total tivemos 6528 proteínas que podem ser homólogas das nossas.