Ready to make the GO annotation on GONUTS

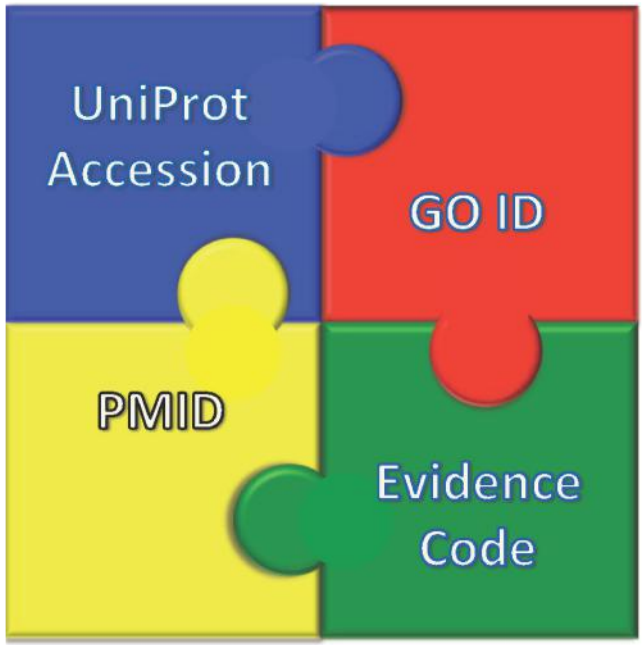


Table filled in with all required information

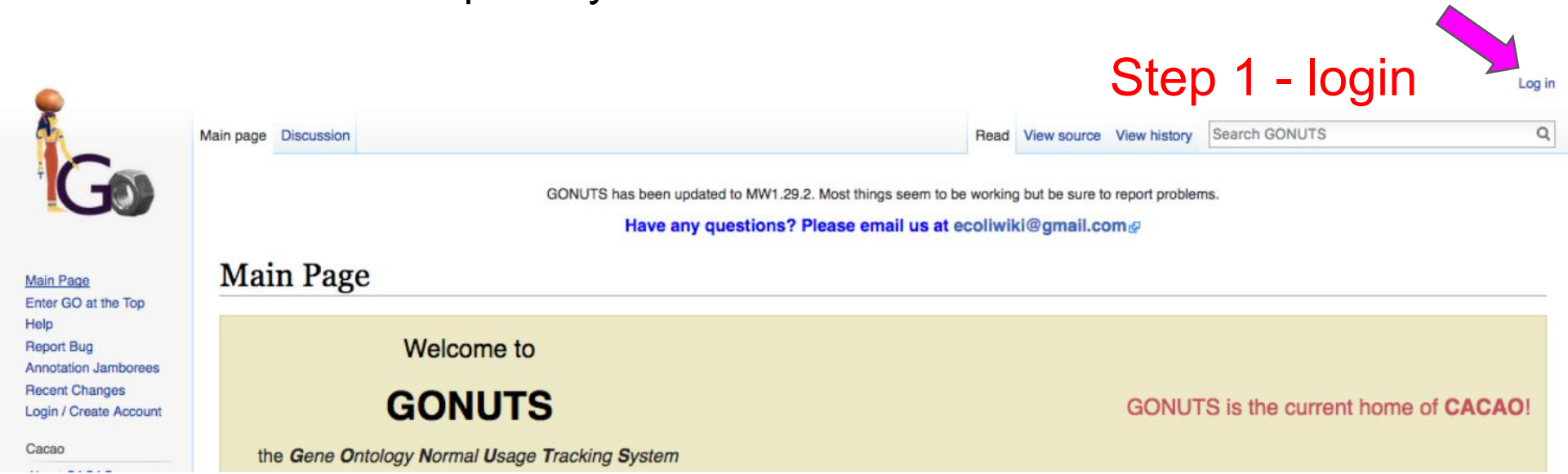
Protein Name	Sept2 (synonyms: *Nedd-5, Nedd5*)
Uniprot ID	MOUSE:SEPT2
Organism	Mouse
Paper Name	Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin-based structures. *Genes Dev.* **11**:1535-47
PMID	PMID:9203580
GO ID & term name	GO:0030496 ! midbody
Evidence Code	ECO:0000314 direct assay evidence used in manual assertion
Notes	Neural precursor cell expressed developmentally down-regulated protein 5 (Nedd5) In Figures 3Ad-3Af, it is shown that Nedd5 localizes to the midbody during late telophase.

Your GONUTS account

Username:

Use the user account you are assigned ***new students speak to instructors*

All contributions are publicly visible



Gene Ontology Normal Usage Tracking System - GONUTS wiki

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Step 1 - login

CACAO help pages

Class page with scoreboard

Step 3 - Create a gene page

Step 2 - Create a new literature page

Step 4 - Edit table

This is how you enter your GO annotation on the GONUTS web interface

Follow the instructions on these slides

After submission, the judges will review your annotation for accuracy

Create a literature page in GONUTS

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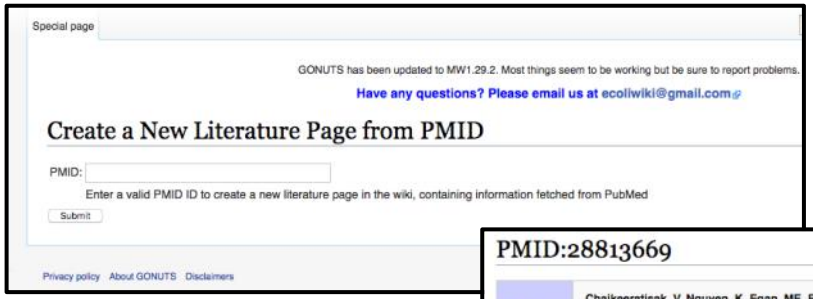
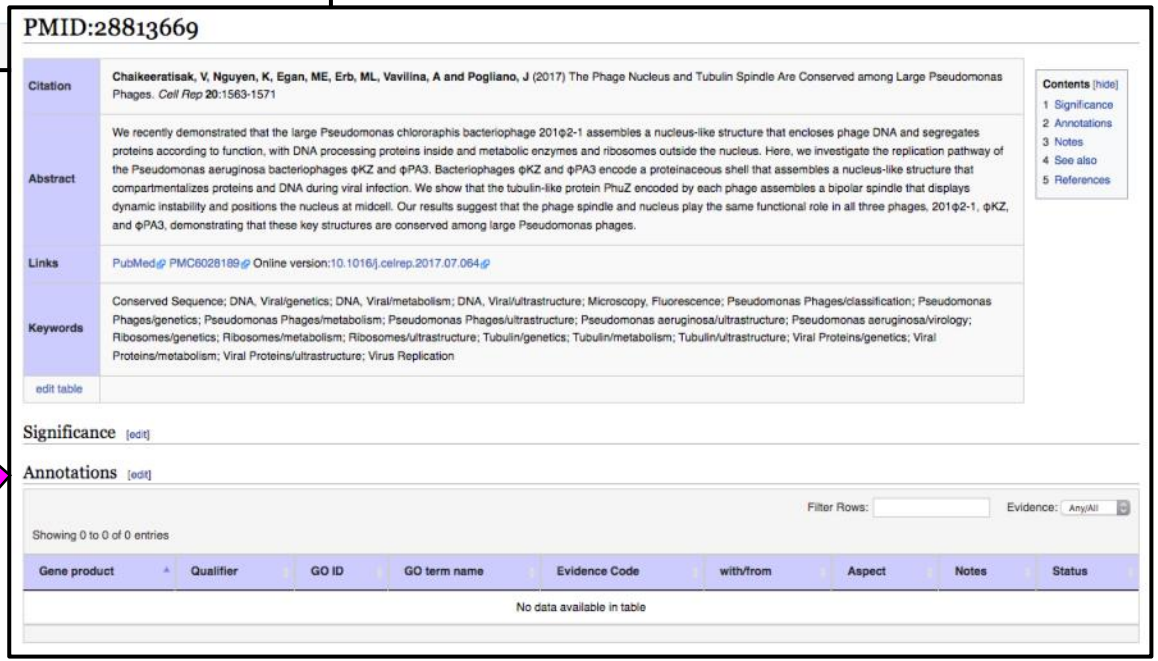


1. Enter PMID, click submit

2. On literature page, check for annotations already made in table below

Step 2 - Create a new literature page

-look at annotations



Create a gene page in GONUTS for your protein

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Step 3 - Create a gene page

1. Enter UniProt ID/Accession, create page

Protein Name	Sept2 (synonyms: *Nedd-5*, *Nedd5*)
Uniprot ID	MOUSE:SEPT2
Organism	Mouse
Paper Name	Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin-based structures. *Genes Dev.* **11**:1535-47
PMID	PMID:9203580
GO ID &	GO:0030496 ! midbody

Gene page

SINDV:POLSF

Species (Taxon ID)	*Sindbis virus (SINV).* (11034)
Gene Name(s)	No Information Provided.
Protein Name(s)	Frameshifted structural polyprotein p130 Capsid protein Coat protein C Precursor of protein E3/E2 p62 pE2 Assembly protein E3 Spike glycoprotein E2 E2 envelope glycoprotein Protein TF
External Links	
UniProt	P0DOK0
EMBL	J02363
RefSeq	YP_006491225.1
GeneID	13165406
KEGG	vg:13165406
KO	K19288
Proteomes	UP000006710
	GO:0030430 GO:0020002

SINDV:POLSF

Species (Taxon ID)	*Sindbis virus (SINV).* (11034)
Gene Name(s)	No Information Provided.
Protein Name(s)	Frameshifted structural polyprotein p130 Capsid protein Coat protein C Precursor of protein E3/E2 p62 pE2 Assembly protein E…

Check if this annotation has already been made

Annotations [edit]

UniProt
EMBL
RefSeq
GeneID
KEGG
KO
Proteomes

Filter Rows: Evidence: Any/All

Showing 1 to 30 of 30 entries

Qualifier	GO ID	GO term name	Reference	Evidence Code	with/from	Aspect	Notes	Status
	GO:0004252	serine-type endopeptidase activity	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR000930 InterPro:IPR002533 InterPro:IPR002548	F	Seeded From UniProt	
	GO:0005198	structural molecule activity	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR000936	F	Seeded From UniProt	
…								
	GO:0055036	virion membrane	GO_REF:0000039	IEA: Inferred from Electronic Annotation	UniProtKB-SubCell:SL-0275	C	Seeded From UniProt	

edit table

Same GO term, but new paper = make annotation

SINDV:POLSF

Species (Taxon ID)	*Sindbis virus (SINV).* (11034)
Gene Name(s)	No Information Provided.
Protein Name(s)	Frameshifted structural polyprotein p130 Capsid protein Coat protein C Precursor of protein E3/E2 p62 pE2 Assembly protein E3 Spike glycoprotein

1. Add annotation to gene page

Annotations [edit]

UniProt
EMBL
RefSeq
GeneID
KEGG
KO
Proteomes

Filter Rows: Evidence: Any/All

Showing 1 to 30 of 30 entries

Qualifier	GO ID	GO term name	Reference	Evidence Code	with/from	Aspect	Notes	Status
	GO:0004252	serine-type endopeptidase activity	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR000930 InterPro:IPR002533 InterPro:IPR002548	F	Seeded From UniProt	
	GO:0005198	structural molecule activity	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR000936	F	Seeded From UniProt	
	GO:0055036	virion membrane	GO_REF:0000039	IEA: Inferred from Electronic Annotation	UniProtKB-SubCell:SL-0275	C	Seeded From UniProt	

Click 'edit table'

edit table

2. Add row to annotation table

TableEdit

SINDV:POLSF

Showing 1 to 30 of 30 entries

	Qualifier	GO ID	GO term name	Reference	Evidence Code	with/from	Aspect	Notes	Status
Copy *protected*		GO:0005198	structural molecule activity	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR000936	F	Seeded From UniProt	
Copy *protected*		GO:0008233	peptidase activity	GO_REF:0000037	IEA: Inferred from Electronic	UniProtKB-KW:KW-0645	F	Seeded From	
...									
Copy *protected*		GO:0055036	virion membrane	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR002533 InterPro:IPR002548	C	Seeded From UniProt	

Click 'add row'

Add row | Add multiple

3. Copy info from your table to the form

Protein Name	Sept2 (synonyms: *Nedd-5, Nedd5*)
Uniprot ID	MOUSE:SEPT2
Organism	Mouse
Paper Name	Nedd5, a mammalian septin, is a novel cytoskeletal component interacting with actin-based structures. *Genes Dev.* **11**:1535-47
PMID	PMID:9203580
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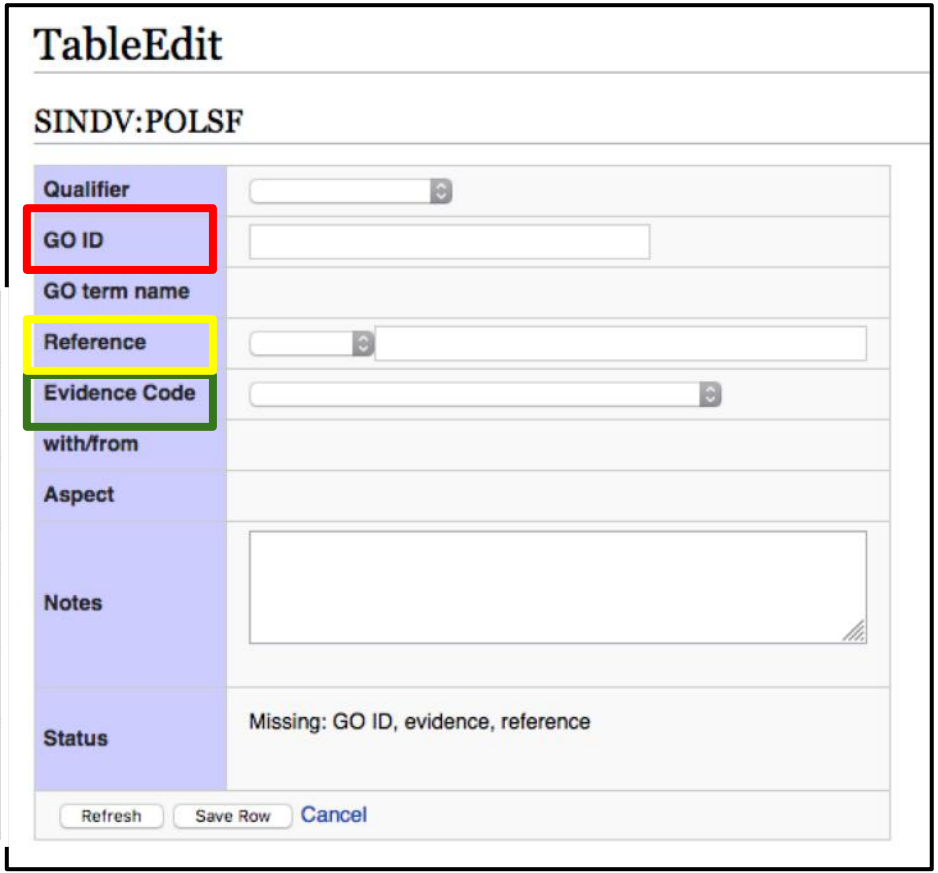
Notes	Neural precursor cell expressed developmentally down-regulated protein 5 (Nedd5) In Figures 3Ad-3Af, it is shown that Nedd5 localizes to the midbody during late telophase.



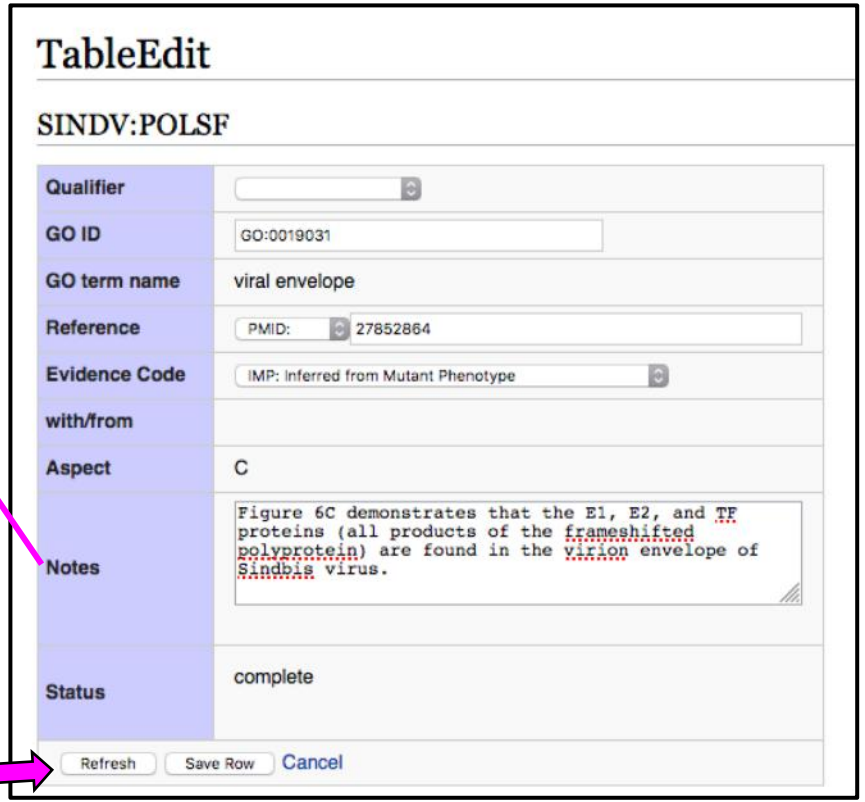
4. Double check all your entered information

Remember, the notes section needs the following items to be correct:

1. **Organism**
2. **Protein name as named in paper and uniprot if they are different**
3. **Figure in paper that supports your annotation with a little description**

If you miss these items, your points may be stolen via challenge!!

If your page does not automatically refresh, click refresh to populate in the GO term name and aspect



5. Save row, first iteration

When done, click save row

6. Save row, second iteration

TableEdit

SINDV:POLSF

Changes are not saved permanently until you save the table back to the wiki page

Scroll all the way to below the annotation table

Copy *protected*		GO:0055036	virion membrane	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR002533 InterPro:IPR002548	C	Seeded From UniProt	

Add row | Add multiple

Save Table to wiki page: SINDV:POLSF | Cancel | Revert Table to Saved | Delete Table

Click Save table to wikipage

7. Check the annotation row saved to the table

Updated number of entries

Scroll down the annotation table

Annotations [edit]

Showing 1 to 31 of 31 entries

Filter Rows: Evidence: Any/All

Qualifier	GO ID	GO term name	Reference	Evidence Code	with/from	Aspect	Notes	Status
	GO:0004252	serine-type endopeptidase activity	GO_REF:0000002	IEA: Inferred from Electronic Annotation	InterPro:IPR000930 InterPro:IPR002533 InterPro:IPR002548	F	Seeded From UniProt	
	GO:0055036	virion membrane	GO_REF:0000039	IEA: Inferred from Electronic Annotation	UniProtKB-SubCell:SL-0275	C	Seeded From UniProt	
	GO:0019031	viral envelope	PMID:27852864[1]	IMP: Inferred from Mutant Phenotype		C	Figure 6C demonstrates that the E1, E2, and TF proteins (all products of the frameshifted polyprotein) are found in the virion envelope of Sindbis virus.	complete

Your new annotation row

edit table