
Layperson Ontology 3

SOP: Checking for Updates

Note:

This SOP is specifically for when the input ontology file:

- 1) DOES already have "en" language tags for labels and descriptions of ontology terms.*
- 2) Does NOT already contain layperson annotations.*

PURPOSE

To describe the procedure for checking for updates to an ontology that may require updates to the layperson (labels and descriptions) version of the, using the *find_updates_for_lp_version.py* python program.

SCOPE

This procedure is used by curators when updating the layperson annotations of an updated ontology.

GLOSSARY/DEFINITIONS

Python	The programming language in which the program used in this SOP was written.
SOP	Standard Operating Procedure: Detailed written instructions to achieve uniformity of the performance of a specific function.

SYSTEM REQUIREMENTS TO RUN PROGRAM

Instructions below are for Windows 10.

For the python program to run successfully, the following need to be installed:

1. Python.
Ensure that Python is setup correctly on your PC (Use **Program Running 1 SOP**)

REQUIRED INPUT FOR PROGRAM

1. Input files:
 - a. A .txt file containing the last/previous layperson annotations of the ontology.
 - b. The owl file of the updated version of the ontology (Note: this owl file should already contain "en" language tags for labels and descriptions of ontology terms)
2. AN additional variable required in the python program code before it is run:
 - a. **layperson_annotations_file_cell1** The content of the first cell in the input file containing layperson annotations.

PREPARING INPUT FOR PROGRAM

1. Preparing input files and/or specifying them with relevant variables in the *find_updates_for_lp_version.py* program code:
 - a. Ensure that the **layperson_annotations_file** variable (under the "## Input Files ##" section) in the python program code points to the path/location of a .txt (tab delimited) version of the last/previous layperson annotations of the ontology.
 - b. Ensure that the **owl_file_path** variable (under the "## Input Files ##" section) in the python program code points to the path/location of the owl file of the updated version of the ontology.
2. Specifying additional required variables in the *find_updates_for_lp_version.py* program code:
 - a. For the **layperson_annotations_file_cell1** variable (in the ## Other variables ## section), supply the content of the first cell in the input file containing layperson annotations.
 - b. For the **layperson_tag** variable in row 127, supply the tag to be added to layperson annotations (e.g. "layperson").

RUNNING THE PROGRAM

Run the *find_updates_for_lp_version.py* python program by following the procedure in the **Program Running 2 SOP**.

PROGRAM OUTPUT

Four files are generated:

1. A .txt (tab delimited) file with name "new_terms_**DATE**".
2. A .txt (tab delimited) file with name "lp_terms_needing_updating_**DATE**".
3. A .txt (tab delimited) file with name "update_terms_same_lp_anns_**DATE**".
4. A .txt (tab delimited) file with name "no_lp_annotations_**DATE**".
5. A .txt (tab delimited) file with name "same_annotations_**DATE**".

USING THE OUTPUT FILES

The output files will appear in the same location as the python program.

1. Create a Google spreadsheet and copy the content of each of these files to a new sheet/tab:
 - "new_terms_**DATE**"
→Label the sheet "New terms for annotation"
 - "lp_terms_needing_updating_**DATE**"
→Label the sheet "Updates needing review"

2. Copy the following instructions and image to a new "Instructions" sheet/tab:

Instructions for "New terms for annotation" sheet

Assess each term to see whether a layperson label and definition would be beneficial...

1) If beneficial:

1.1) Provide layperson label for each term (row) in column "layperson label" (C).

If the current label (column B) is appropriate, copy it across to column "layperson label" (C).

If not, see if there's an appropriate synonym in the "hasExactSynonym" column.

If so, copy it across to column C.

If not, provide an appropriate label in column C and include it in the "newExactSynonym" column.

Note: You can try search for the term in OLS (see figure below) as it sometimes provides layerson terms/synonyms in the "Term info"

If you want to add a new exact synonym for a term, add it in the "newExactSynonym" column (entries should be separated by "|")

1.2) Provide layperson definition for each term (row) in column E.

If the current definition (column D) is appropriate, copy it across to column E.

If not, provide a layperson-appropriate definition in column E.

2) If not beneficial, leave columns C and E empty.

https://www.ebi.ac.uk/ols/ontologies/hp/terms?iri=http%3A%2F%2Fpurl.obolibrary.org%2Fobo%2FHHP_0000217

WebProtege Stanfo... BioPortal search Ontobee PhenX Toolkit UCT mail Systems Biology On... AlzheimerOntology

EMBL-EBI **Ontology Lookup Service** Home Ontologies Documentation About

OLS > Human Phenotype Ontology > HP:0000217

Xerostomia

http://purl.obolibrary.org/obo/HP_0000217

Dryness of the mouth due to salivary gland dysfunction. [HPO:probinson]

Synonyms: Dry mouth syndrome, Dry mouth, Reduced salivation

Tree view Term history

- All
 - Phenotypic abnormality
 - Abnormality of head or neck
 - Abnormality of the head
 - Abnormality of the face
 - Abnormality of the mouth
 - Abnormal oral physiology
 - Abnormality of salivation
 - Xerostomia**

Graph view
Reset tree
Show all siblings

Term info

database cross reference

- SNOMEDCT_US:56893005
- MSH:D014987
- SNOMEDCT_US:300268000
- SNOMEDCT_US:87715008
- UMLS:C0043352

Subsets

hposlim_core

layperson term

Dry mouth

layperson term

Reduced salivation

layperson term

Dry mouth syndrome

layperson term

Decreased salivary flow [ORCID:0000-0001-5889-4463]

has alternative id

HP:0002709, HP:0100756

has broad synonym

Decreased salivary flow

has obo namespace

human_phenotype

id

HP:0000217

Instructions for "Updates needing review" sheet

Review changes to term labels and definitions and if necessary, provide updated layperson labels and/or definitions in the "lp_labels" and "lp_definitions" columns respectively.

If no changes are necessary, copy the previous label and /or definition from the column to the left to these columns.

- If the ontology terms that were not provided layperson annotations in the previous version need to be reviewed, copy the content of the "no_lp_annotations_DATE" file to a new Google sheet labelled "Terms not given lp anns previously".
 - Note:* You will need to tell the people working on this that they should do the same as for the "New terms for annotation" sheet for any terms that now do require annotations.

4. Share the Google spreadsheet with the people/person who will be reviewing updates and providing layperson annotations for the new ontology terms.

Version No.	Date	Authorizer	External Reviewer	Internal Reviewer	Author	Details of changes	of
1.0	23/03/2022				Jade Hotchkiss	n/a (first version)	