

## Paper 6: Pathways Report

The Pathways Project was designed to provide undergraduate students the chance to participate in current research, and each gene/species annotation will eventually be written up and submitted to [microPublications Biology](#). By completing the report to satisfaction, you will have the opportunity to be a co-author on the final manuscript. My goal is to submit the reports sometime this summer. When another student group at a separate university has also completed the report for the same gene/species, a research student will reconcile the two reports and write a short manuscript based on the two reports for submission.

**Even though you did the research together, you must do this portion INDIVIDUALLY. It will be due by Thursday, December 1 by the start of class.** However, I encourage submitting earlier if you want to reduce revisions to complete during final exam week. I encourage all students to complete the report regardless of their preferred course grade, as a successfully published micropublication is a great addition to your CV/resume. If you want to fill out the report for the 'A- or above' course grade, but you prefer NOT to be a co-author on the report, there will be a location on the report to indicate your preference.

On BB under Paper6, links to access (1) a word doc version of the report for you to fill out and (2) an example report in PDF form to help you determine how best to fill out the report. The worksheets you completed for the Pathways project, as well as the figures/tables/files you generated, should be most of what you need to complete the report, *if they were done correctly*. Refer back to my comments in Box on your worksheets as appropriate. **Submit the following FOUR files: your report, the GFF file, the FASTA file, and the PEP file. The filenames should all start with your name, followed by the species symbol, followed by the gene symbol, and then the file type (e.g. Melinda dyak Rheb.docx, Melinda dyak Rheb.gff, etc.). The files should be submitted electronically under 'Assignment Upload' in Box.**

The following are important things to note regarding the opportunity to be a co-author:

- I will be reconciling your report with that of any of your lab mates who also submit a report, and before final submission, I may request revisions, resolving of any inconsistencies, and final approval from you of the report and FASTA/PEP/GFF files before I submit to the GEP. I will not submit until I have final approval from you, which I will likely be requesting sometime in May or June.
- Reconciliation with an independent annotation of the gene/species from another university may take a long time, as a second group may not have annotated the gene/species yet and most reconciliations are performed during the summer. Thus, an email to approve/make edits to the final manuscript may not arrive for 1-2 years (current submissions from my lab have a 4-12 month turnaround). Co-authorship is dependent on approving the final manuscript as well, and this may be in the spring or fall semester, as well as in the summer.
- Publication can be a slow process (Pathways Projects initiated Fall 2020 have been submitted but are currently still undergoing review by *microPublications Biology*) – be prepared for a long wait to see the final publication.