

Veronica Pacheco

Statement of Work

For this project, I was a GennMAPP user. I worked with Kevin to first analyze the microarray paper. We worked together to present on the findings of the article. Kevin was able to make a great diagram outlining the microarray experiment while I outlined the other experiments and tests run in the paper. Together, we worked on the data preparation. The main (turned-in) files were made on Kevin's computer and he lead me through the process however, we worked side by side through the process so that I would be able to make sure we followed procedure correctly and that our results were the same. Thus, we both generated the same files. Kevin worked on making the tables such as the sanity check table and the log change table while I was able to make the MAPP. We were able to work on these individually and come together to discuss the procedure and the results.

Artifacts of Work:

Wiki pages:

https://xmlpipedb.cs.lmu.edu/biodb/fall2015/index.php/Vpachec3_Week_11

https://xmlpipedb.cs.lmu.edu/biodb/fall2015/index.php/Vpachec3_Week_12

https://xmlpipedb.cs.lmu.edu/biodb/fall2015/index.php/Vpachec3_Week_14

https://xmlpipedb.cs.lmu.edu/biodb/fall2015/index.php/Vpachec3_Week_15

Assessment of Project

For the most part, the process went smoothly. As I understand, the coder and QA had very minor problems and were able to fix or address them right away. As for the GenMAPP users, we didn't run into many problems. We ran into issues with the article in terms of their lack of description in their methods. We also had issues with our log fold changes. The magnitudes were larger in the article than our analysis. However, we were able to find solutions to continue our work.

If I were to do the project all over again, I would have wanted to make more MAPPs for our presentation and paper. The map we chose focused on downregulation which was successful however I would have liked to map out a pathway for upregulation.

Overall, the quality of work was up to par. I am very impressed with our group and how we were able to run these analyses. I think we were able to provide high quality work and present it in an understandable fashion. Our organization in terms of having to meet up to work together was good. We had open communication with one another so we were able to meet up when necessary and provide each other with constructive criticism. Our wiki pages are very well organized and we have our project manager, Anu, to thank for that. It was very easy to add in our progress and our files week by week. As a team, we were able to complete all the objectives and milestones in the allotted time frame.

Reflection on the Process

I learned a lot in this project. I was very fortunate to have Kevin as a fellow GenMAPP user on the team. He has background doing this kind of work and was able to explain everything we were doing. On top of learning about the methodologies of using preparing the data, using GenMAPP and analyzing the GO terms, I learned about the importance of writing reproducible protocol. I learned that patience is a very good quality to have as a teammate. Kevin was very patient in terms of having me follow his lead because he knew I don't have as much experience with these kinds of processes as he does. Altogether, I am glad to have gotten to know Kevin, Brandon and Anu better.

Excel and GenMAPP are programs I learned a lot more technical skills with. I am very proud of the new tools in the programs that I can utilize in the future. One of the main lessons I learned was that we can tackle a big project such as this one if we work together and play on our strengths.