Havi's Hendry Lab Welcome Letter

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Welcome to the Hendry Lab!

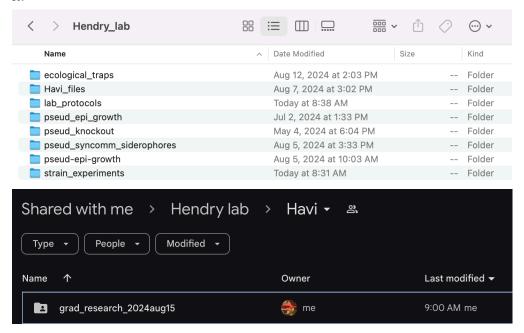
We're so excited to have you! Here are some guidelines, tips, and general info so you can have a smooth transition into the lab. You'll be meeting with Tory to discuss her expectations and research goals for you, so this letter will focus more on lab orientation and organization.

First, you'll want to pick a desk. Most of them are available right now, so you have many options! You can decorate your desk however you like (within reason) but remember that we're not supposed to eat food in the lab. Technically we're not supposed to drink water either, but unless EHS (Environmental Health and Safety) are doing a lab inspection, no one really enforces that.

Tory will also discuss expectations for working hours. Typically, I like to come in to lab around 8am and stay until 1-4pm, depending on how much physical lab work I have to do. If I don't have a lot, I usually leave early and work from home the rest of the day. Whatever you decide schedule-wise, be sure to keep Tory in the loop so she knows when to expect you in the lab or when to email you instead.

Data Storage and Organization

It's essential to keep your physical and digital lab space tidy and organized so you can find any files you need. I like to make one big folder on my laptop called Hendry_Lab and keep lots of sub-folders (each of which is a GitHub repository) inside of it. This way I can easily upload everything in the Hendry_Lab folder to the lab GitHub (https://github.com/Hendry-Lab) and Google Drive (https://drive.google.com/drive/folders/1TlOhvj7-SGuR7mUJxmdoX1dgxRF65I_S?usp=drive_link) every Friday and just note the date I updated it.



You should note that Tory does not currently use the GitHub. She knows about it; she just prefers to use the Google Drive. The reason I recommend using GitHub is so that other lab members can easily access your data if they continue your projects and for your own organization and version control. Using GitHub forces you to be organized, plus if you accidentally lose or delete files, it can help you recover them. If you've never used GitHub before, I can help you set it up, and you can also go to the department's Hacky Hour (run by the Schmidt Lab downstairs to teach coding skills). Once you get your GitHub set up, I recommend cloning the lab_protocols repository.

You'll also want to have Tory add you to the LabArchives, where we keep some spreadsheets for our lab strains. I personally never use LabArchives to store my data, as I don't like the user interface, but you can use it as an alternative to Google Drive if you prefer.

I also recommend doing a monthly hard drive backup of all your files, juuuuuuuust in case! I bought a \$15 64 GB flash-drive and I just upload everything in my Hendry_Lab folder there once a month.

Tory will discuss lab notebooks in more detail with you, but I've had a good experience keeping a digital lab notebook, then printing it out at the end of each week and taping the pages into a physical lab notebook. If you've worked in a lab before, you're probably already familiar with keeping lab notebooks and storing your data. If not, please let me know and I can help you out! I like to use RMarkdown for my digital lab notebook (and most of my writing) but Microsoft Word, Google Docs, and Benchling are also good options.

Lab Chores

I'll go over the following lab chores with you once you start:

- Planting & aphids
- Cleaning pots
- Autoclaving trash
- Filling tip boxes
- Dishes
- Autoclaving glassware
- Cleaning aphid tents

Miscellaneous Tips

• I recommend preparing a weekly summary of what you've worked on/data you've collected/experiments you've run/papers you've read/questions for your meeting with Tory each week. If you send this to her the day before, it helps make meetings go more smoothly.

Havi & Tory Meetings

2024 August 6

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Havi's Updates

NSF Experiment Planning

I have a **very rough** outline document (ZR_2024aug5_NSF_expt_outline.docx) of my plan for the preliminary experiment and ideas for the actual proposal.

Ecological Traps

I'm switching to the other two tents this week and will have antibiotic resistance data for the contaminant in the next few days, so I can plate crushed alates on plates with the appropriate antibiotic.

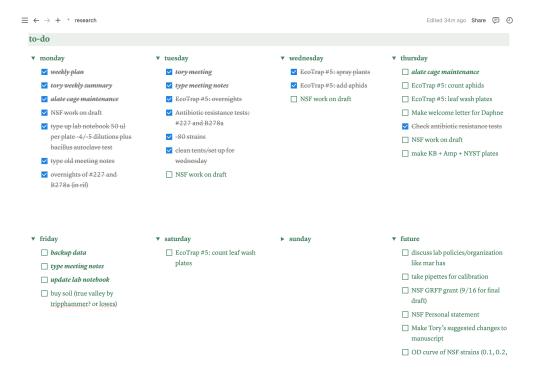
Antibiotic Resistance Tests

My first round of antibiotic resistance tests were apparently not diluted enough from overnights (100 ul of 10^{-1} dilution OD ~0.2) and I just got lawns of bacteria. I still noted the results for this but I set up another round of tests today with a much lower dilution (100 ul of 10^{-6} dilution OD 0.1-0.2). Hopefully in the next few days I'll get plates with countable CFUs.

Strain	uL	OD (Undiluted)	Dilution	Rif (50 ug/mL)	Vanc (2 ug/mL)	Chlor (30 ug/mL)	KB	
227	100	0.27	-1	no	yes	yes	yes	lawn
B728a	100	0.24	-1	yes	some	some	some	very blobby with some non glowing blobs for the last 3 antibiotics
220	100	0.25	-1	no	yes	yes	yes	lawn

Figure 1: Round 1 Antibiotic Testing

- I don't know if you've used Zotero before to organize your academic articles but I highly recommend it!
- To plan my week, I use Notion. If you're interested in learning how to use it, just let me know! I love to share my organization tips.



- There's a great puzzle table outside of our lab in the hallways. Everyone in the building is welcome to contribute to it. If you have any puzzles you'd like to bring in, feel free!
- There is also a snack table by the break room (across from the Feaga lab). Anything on it is up for grabs *EXCEPT* that the Feaga and Gallagher labs buy donuts for their lab meeting and leave them out every Monday even though they are not up for grabs. I don't know why they do this, since it's very confusing (and tempting), but just don't eat any donuts that are out on Monday. You can eat them on Tuesday though, after their lab meeting. As a general rule, if some of the donuts on the table have already been eaten, they're safe to take.
- Speaking of food, during lunch everyday at 12pm, there is a Crossword Club that meets in the Schmidt Lab downstairs to do the NYT crossword religiously. I usually eat lunch with them, and it's open to anyone, so feel free to come by! You don't have to be good at crossword; it's just a fun time.