WEEK 1 AT FRED HUTCH CANCER CENTER IN THE SUBRAMANIAM LAB

GITHUB, COMMAND PROMPTS, VSCODE AND MARKDOWN

- LANGUAGE BETWEEN WINDOWS AND MAC COMPUTERS
- COMPUTER INTERACTIONS AND NAVIGATIONS
- TROUBLESHOOTING ERROR MESSAGES WITHIN OUR CODE
 - \circ There were a lot of them

CRISPR

IT USES A SPECIALIZED PROTEIN CALLED CAS9,
 GUIDED BY A SMALL RNA MOLECULE, TO TARGET
 SPECIFIC DNA SEQUENCES AND INTRODUCE
 MODIFICATIONS, WITHIN LIVING ORGANISMS

```
C:\Users\chris\rasilab_spelman_2023\notes>git push origin main
Everything up-to-date
C:\Users\chris\rasilab spelman 2023\notes>git add cb crispr notes.md
fatal: pathspec 'cb crispr notes.md' did not match any files
C:\Users\chris\rasilab spelman 2023\notes>
C:\Users\chris\rasilab spelman 2023\notes>cb crispr screening notes.md
C:\Users\chris\rasilab_spelman_2023\notes>
cb crispr screening notes.md
C:\Users\chris\rasilab_spelman_2023\notes>
git commit
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:
 (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\chris\rasilab spelman 2023\notes>git commit -m "edit #4"
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
C:\Users\chris\rasilab spelman 2023\notes>git add cb crispr screening notes.md
C:\Users\chris\rasilab spelman 2023\notes>git commit -m "edit #4)
[main 5fc9048] edit #4)
```

What have I learned during my first week at Fred Hutch?

1 learned ...

- About the application terminal on my mac computer and the similarities and difference between using the app on a mac computer and windows computer.
- markdown and its markup language to transfer to a text document, website, etc.
- 6ithub and VSCode and the connection to transfer text using the terminal on my mac
- About Slack and its use for messaging

YourGenome

Makes a cut across both strands

- And refreshed my memory on CRISPR and its strategy to edit genomes
- The routes of the campus

racequarterman@graces-mbp notes % git commit error: pathspec 'screen' did not match any fi Preview Code Blame 98 Lines (87 Loc) · 4.94 KB rror: pathspec 'notes' did not match any fil racequarterman@graces-mbp notes % git add gg racequarterman@graces-mbp notes % git commit rror: pathspec 'notes' did not match any fil racequarterman@graces-mbp notes % git push o it: 'credential-manager-core' is not a git c o https://github.com/kychen37/rasilab_spelma ! [rejected] main -> main (fetch firs rror: failed to push some refs to 'https://a int: Updates were rejected because the remot int: not have locally. This is usually cause int: to the same ref. You may want to first int: (e.g., 'git pull ...') before pushing a int: See the 'Note about fast-forwards' in ' racequarterman@graces-mbp notes % git pull o rror: cannot pull with rebase: Your index co rror: please commit or stash them. racequarterman@graces-mbp notes % git add gg



· Edits parts of the genome by removing, adding, or alterniting section of DNA

. gRNA (quide RNA) quides the enzyme to the right part of the mutated genome

The terminal (mac/linux) or command prompt (windows) is a way to execute sim

Github

Make an account on github and verify your email address Install git to your laptops by following [this](https://www.atlassian.com/gi Clone our group's remote repository to your local computer by opening the te ithub.com/kychen37/rasilab spelman 2023.git`

- Since this repo was made in my account (kychen37), I needed to added gquar [Settings](https://github.com/kychen37/rasilab spelman 2023/settings) before Each user needs to then generate a personal access token:

- Go to your user settings -> Developer settings -> Personal access tokens
- Under Note, name the token something descriptive and check 'repo' - Press Generate token, copy the entire token to a different location like a
- Follow the top comment on https://stackoverflow.com/questions/46645843/where access token to the git credential helper so you don't have to keep copy/pasti

git config --global user.name "Katharine Chen"``

- `git config --global user.email kychen37@uw.edu``
- `git config --global credential.helper manager-core`



Grace Quarterman