

# Weekly Update

Cappy Pugliese

10/28 - 11/1

## **This Week**

### **10/28**

- led evolution lunch
- everyone worked on their lab website page during lab meeting

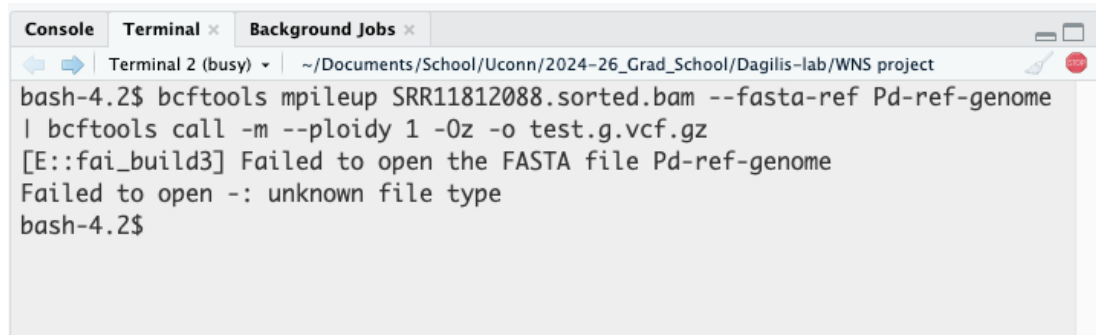
### **10/29**

- began revising preproposal topic
- started looking at some more WNS papers

### **10/30**

- created an excel sheet to better organize the WNS papers I was looking at
- met with Andrius
  - need to start thinking about members for my advisory committee
- tried to work more on the WNS analysis file
  - struggled a bit to get the picard command to work (got a bit of help from Andrius)
  - was able to successfully edit the BAM file
  - was not able to call the genotype
    - \* the command was unable to open up the reference genome file I had downloaded
    - \* it is very possible I downloaded the ref genome incorrectly

- \* I did try redownloading it (the same way as before) and renaming it to have .fasta at the end of it, but nothing changed

A screenshot of a terminal window with tabs for 'Console', 'Terminal', and 'Background Jobs'. The terminal title bar shows 'Terminal 2 (busy)' and the path '~/Documents/School/Uconn/2024-26\_Grad\_School/Dagilis-lab/WNS project'. The terminal content shows a command prompt 'bash-4.2\$' followed by the command 'bcftools mpileup SRR11812088.sorted.bam --fasta-ref Pd-ref-genome | bcftools call -m --ploidy 1 -Oz -o test.g.vcf.gz'. Below the command, an error message is displayed: '[E::fai\_build3] Failed to open the FASTA file Pd-ref-genome' followed by 'Failed to open -: unknown file type'. The prompt 'bash-4.2\$' appears again at the bottom.

```
bash-4.2$ bcftools mpileup SRR11812088.sorted.bam --fasta-ref Pd-ref-genome
| bcftools call -m --ploidy 1 -Oz -o test.g.vcf.gz
[E::fai_build3] Failed to open the FASTA file Pd-ref-genome
Failed to open -: unknown file type
bash-4.2$
```

- also edited my lab member page a little
- added a bioinformatics resources post on the blog portion of the lab website

## 11/3

- read some more WNS papers and added some info to the excel sheet I created
- found some interesting papers (same main author) that found a novel partitivivirus in North American *P. destructans* strains
  - virus appears to help increase growth and spread of fungus
- revised preproposal idea
- created preproposal deadlines for myself to keep me on track