Ashlee Gardiner

March 13th, 2024

Bioinformatics

Assignments 4

1. makeblastdb -in /Users/ashleeadawntae/Desktop/mystery\_transcripts.fasta -dbtype nucl -out /Users/ashleeadawntae/Desktop/mystery\_nt\_db
2. makeblastdb -in /Users/ashleeadawntae/Desktop/mystery\_proteins.fasta -dbtype prot -out /Users/ashleeadawntae/Desktop/mystery\_pro\_db
3. blastn -db /Users/ashleeadawntae/Desktop/mystery\_nt\_db -query /Users/ashleeadawntae/Desktop/mystery\_nucleotide\_query.fasta -evalue 1e-3 -max\_hsps 5 -out /Users/ashleeadawntae/Desktop/mystery\_search.txt -outfmt 7
4. T010027234997, T010003453160, T010027234995
5. awk '$3 > 90{print}' mystery\_search.txt | awk '{print$2,$3}' >> most\_similar.txt
6. blastp -db /Users/ashleeadawntae/Desktop/mystery\_pro\_db -query /Users/ashleeadawntae/Desktop/mystery\_protein\_query.fasta -evalue 1e-5 -max\_hsps 15 -out /Users/ashleeadawntae/Desktop/mystery\_pro\_search.txt -outfmt 7
7. P010027090796, P010027090798, P010027073865, P010027077695
8. Coffea arabica
9. Gardenia jasminoides
10. putative catalase