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Bioinformatics

Assignment 4

1. makelastdb -in ‘/home/michael/Downloads/mystery\_transcripts.fasta’ -dbtype nucl -out mystery\_transcripts
2. makelastdb -in ‘/home/michael/Downlaods/mytery\_proteins.fasta’ -dbtype prot -out mystery\_proteins
3. blastn -db mystery\_transcripts -query '/home/michael/Downloads/mystery\_nucleotide\_query.fasta' -outfmt 7
4. There are 3 hits. T010027234997, T010003453160, T010027234995
5. awk '$3 > 90{print}' mystery\_search.txt | awk '{print$2,$3}' >> most\_similar.txt
6. blastp -db mystery\_proteins -query '/home/michael/Downloads/mystery\_protein\_query.fasta' -outfmt 7
7. 13 hits found.
8. Coffee arabica
9. Gardenia jasminoides
10. Putative catalase