

# Class 1 Quiz Homework

Please answer the following questions including your main @[ucsd.edu](mailto:xwan@ucsd.edu) email address and UCSD PID number so you can receive credit for your responses.

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\* Required

Email \*

xwan@ucsd.edu

UCSD PID number (exam number)

A16151517

Which of the following operating systems is most frequently used for bioinformatics tool development

1 point

☐ Windows

☐ iOS

☒ Unix

☐ Perl



0/1

Clear selection

Which of the following databases contains primarily protein sequences

1 point

- ☐ GenBank
- ☒ UniProt
- ☐ PubMed
- ☐ PDB

Clear selection

You have a favorite gene, and you want to review information about that gene in multiple databases. Which one of the following resources is likely the most direct route to this information?

1 point

- ☐ GO
- ☒ Entrez
- ☐ PubMed
- ☐ PDB

Clear selection

Which of the following databases contain primarily nucleotide sequences

1 point

- ☒ GenBank
- ☐ UniProt



☐ PubMed

☐ PDB

Clear selection

Which of the following are "primary" databases

1 point

(Consists of data derived experimentally. Also known as "archival databases")

☐ RefSeq

☐ UniProt

☒ GenBank

☐ BLAST

☐ PFAM

Clear selection

Which of the following are "secondary" databases

1 point

(Contains information derived from a primary database)

☒ RefSeq

☐ UniProt

☐ GenBank

☐ BLAST

☐ PDB

Clear selection



Which of the following is a RefSeq accession number corresponding to an mRNA? 1 point

- ☐ J01536
- ☐ 1BG2
- ☒ NM\_15392
- ☐ NP\_52280

Clear selection

Which of the following is a RefSeq accession number corresponding to a protein? 1 point

- ☐ J01536
- ☐ 1BG2
- ☐ NM\_15392
- ☒ NP\_52280

Clear selection

Compare the use of Entrez and UniProt to retrieve information about a protein sequence. 1 point

- ☒ Entrez is likely to yield a more comprehensive search because GenBank has more data than UniProt.



- ☐ The search results are likely to be identical because the underlying raw data from GenBank and ENA (EMBL) are the same.
- ☐ The search results are likely to be comparable, but the UniProtKB/SwissProt record will offer a different output format with additional kinds of information.

[Clear selection](#)

What is the difference between RefSeq and GenBank?

1 point

- ☐ RefSeq includes publicly available DNA sequences submitted from individual laboratories and sequencing projects.
- ☐ GenBank provides nonredundant curated data.
- ☐ GenBank sequences are derived from RefSeq.
- ☒ RefSeq sequences are derived from GenBank and provide nonredundant curated data.

[Clear selection](#)

True or False: You are encouraged to collaborate with your fellow students and can submit the same homework and assignments together? 0 points

- ☐ TRUE
- ☒ FALSE

[Clear selection](#)

True or False: You are encouraged to collaborate with your fellow students. However, all material submitted to the instructor must be your own work? 0 points

- ☒ TRUE
- ☐ FALSE

[Clear selection](#)



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