

University of Pennsylvania
BIOL4536 Fall 2023
Professor: Gregory R. Grant
QUIZ#4
(BLAST/DNA-Seq)

October 23rd, 2023

Name: _____

Question 1. (2 pts.) True or False. BLAST performs Smith-Waterman local alignments between the query and all sequences in the database.

Question 2. (2 pts.) Suppose the scoring scheme for a BLAST DNA search is +1 for match and -1 for mismatch or indel. True or False, a significant alignment can have entirely mismatches.

Question 3. (2 pts.) fastQ files have how many rows per read-pair?

- (A) Two
- (B) Four
- (C) Six
- (D) Eight

Question 4. (2 pts.) True or False. SNP calling is primarily done with microarrays.

Question 5. (2 pts.) What does blastx do?