

Feedback — Lecture 8 Quiz ****Please Note: No Grace Period****

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Thank you. Your submission for this quiz was received.

You submitted this quiz on **Sun 13 Sep 2015 9:48 PM PDT**. You got a score of **5.00** out of **5.00**.

Question 1

What module can we use to run BLAST over the internet in Biopython:

Your Answer	Score	Explanation
<input checked="" type="radio"/> Bio.Blast.NCBIWWW	✓ 1.00	
<input type="radio"/> WWW		
<input type="radio"/> Bio.Blast.NCBIXML		
<input type="radio"/> NCBIXML		
Total	1.00 / 1.00	

Question 2

Which one of the following modules is not part of the Bio.Blast package in Biopython:

Your Answer	Score	Explanation
<input type="radio"/>		

ParseBlastTable



1.00

FastalO



NCBIStandalone



Record

Total

1.00 / 1.00

Question 3

Using Biopython find out what species the following unknown DNA sequence comes from:

```
TGGGCCTCATATTTATCCTATATACCATGTTCGTATGGTGGCGCATGTTCTACGTGAATCCACGTTCTGAAGGAC
ATCATACCAAAGTCGTAC
AATTAGGACCTCGATATGGTTTTATTCTGTTTATCGTATCGGAGGTTATGTTCTTTTTTGCTCTTTTTTCGGGCTT
CTTCTATTCTTCTTTGGCAC
CTACGGTAGAG
```

Hint. Identify the alignment with the lowest E value.

Your Answer**Score****Explanation**

Nicotiana tabacum



1.00



Persea schiedeana



Salvia miltiorrhiza



Capsicum annuum

Total

1.00 / 1.00


Question 4

Seq is a sequence object that can be imported from Biopython using the following statement:

```
from Bio.Seq import Seq
```

If my_seq is a Seq object, what is the correct Biopython code to print the reverse complement of my_seq?

Hint. Use the built-in function help you find out the methods of the Seq object.

Your Answer	Score	Explanation
<input checked="" type="radio"/> <pre>print('reverse complement is %s' % my_seq.reverse_complement())</pre>	 1.00	
<input type="radio"/> <pre>print('reverse complement is %s' % complement(my_seq.reverse()))</pre>		
<input type="radio"/> <pre>print('reverse complement is %s' % my_seq.reverse())</pre>		
<input type="radio"/> <pre>print('reverse complement is %s' % reverse(my_seq.complement()))</pre>		
Total	1.00 / 1.00	

Question 5

Create a Biopython Seq object that represents the following sequence:

```
TGGGCCTCATATTTATCCTATATACCATGTTCGTATGGTGGCGCGATGTTCTACGTGAATCCACGTTTCAAGGAC
ATCATACCAAAGTCGTAC
AATTAGGACCTCGATATGGTTTTATTCTGTTTATCGTATCGGAGGTTATGTTCTTTTTTGCTCTTTTTCGGGCTT
CTTCTATTCTTCTTTGGCAC
CTACGGTAGAG
```

Its protein translation is:

Your Answer	Score	Explanation
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*FWPHIYPIYHVRMVARCSTSIHVRRTSYQSRTIRTSIWFYCLSYR
RLCSFLLFFGLLLILLWHLR



✓ 1.00

WASYLSYIPCSYGGAMFYVNPRSKDIIPKSYN*DLDMLVFCLSYR
RLCSFLLFFGLLLILLWHLR*



ILASYLSYIPCSYGGAMFYVNPRSKDIIPKSYN*DLDMLVLLFIVSEV
MFFFALFRASSHSSLAPT



NFGLIFILYTMFVWVRDVLQSTFEGHHTKVQLGPRYGFIVYRI
GGYVLFCSFSGFFSFFFGTYG

Total

1.00 /
1.00