BIF101 - Introduction to Bioinformatics (Quiz no.4) Quiz Start Time: 09:19 PM, 19 July 2023

Question # 1 of 5 ( Start time: 09:19:07 PM, 19 July 2023 ) Total Marks: 1

The primary input required for homology modeling is

Select the correct option

Reload Math Equations

- ○ Protein function
- ○ Protein expression level
- ◉ Protein sequence
- ○ Protein structure

Saving...

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Question # 2 of 5 ( Start time: 09:19:22 PM, 19 July 2023 ) Total Marks: 1

The process of modeling missing loop regions in homology modeling is called:

Select the correct option

Reload Math Equations

- ○ Sequence alignment
- ○ Template identification
- ○ Model refinement
- ◉ Loop modeling

Click to Save Answer & Move to Next Question

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Question # 3 of 5 ( Start time: 09:20:18 PM, 19 July 2023 ) Total Marks: 1

Homology modeling is less accurate when:

Select the correct option

Reload Math Equations

- The target protein has a known structure
- The target protein has high expression levels
- The template protein has a different fold than the target protein
- (●) The target and template proteins have low sequence similarity

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Question # 4 of 5 ( Start time: 09:20:34 PM, 19 July 2023 ) Total Marks: 1

The accuracy of homology models depends on

Select the correct option

Reload Math Equations

- Resolution of the template protein structure
- (●) Sequence similarity between target and template proteins
- Availability of experimental data
- Length of the target protein sequence

Click to Save Answer & Move to Next Question

BIF101 - Introduction to Bioinformatics (Quiz no.4) Quiz Start Time: 09:19 PM, 19 July 2023

Question # 5 of 5 ( Start time: 09:20:55 PM, 19 July 2023 ) Total Marks: 1

Which software tool is commonly used for homology modeling?

Select the correct option

Reload Math Equations

- SPSS
- MODELLER
- BLAST
- PyMOL