Virtual University of Pakistan

(Bt504)

Genomics and proteomics

Final past papers

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Difference between scaffold and contig? 2
Give any three name of ORF finder? 3
Briefly write how automated sequencing is performed? 3
How interacting segments of polypeptide chain are held in their characteristics tertiary position?3
Give any 5 advantage of single molecular sequence?5
Write down the major HPLC separation and characteristics that dictate separation?5

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2 properties of SiRNA..? 2
Define modular unit of proteins..? 2
Barrel shotgun..? 2
3 properties of related species assembl..? 3
Principle of pyrosequence..? 3

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4 factors of high quality assembled genome..? 5
Difference b/w genome and genomics..? 5
Significance of genie..? 5
Protein degradation..? 10

Mcqs 504
1.Proteomics is the study of _proteins
2.spurs,bubbles blah blah are issues in _
3.transcription is_
4.SiRNA is complementary to target _
5.short interfering RNA,a__nucletide sequence blah blah
6.which is not disadavntage of biochip
7.intervening sequences do not have__
8.the tangel knot referes to number of genes=
9.allpath-lg assemble high quality genome of__bp
10.DBG related
11.oxford nanopore give__%results
12.set of proteins/many proteins are known as __ protein
13.1 sds page results have__ %issues
14.purines are depurinated by__
15.yac/bac is used in which sequencing
16.___genome conatain major part of repeats... Bt504

What is the main issue in gene defining? (2)
Advantages of shotgun barell sequencing (2)
Output of genescan(5)
Diffentiate between directed and directed graphs(5)
Advantages of DBG based assemblers(3)
What is module in protein (3)
What is peptide bond (3)
Write any three factors in gene prediction (3)
Protein degradation (10)
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Xmlf
Disadvantages of ORF.
Finders of ORF
Diffrece between directional and un directional 5
Difference between dicer and drosha. 5
Define molecular unit
Capillary working and principle

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