## Tabular Columni-

	Matrix	BLOSE		
	gap open penalty	10	10	100
	Identity	55.6%	54.9.1.	54.9%
	Similarity	57.2%	56.1%	56.1%
	Gaps 1	40,9./.	39.6%	39.6%
	Score	700.5	676.0	586.0
	Length	256	255	255
- 1	•	The state of the s		

Motñx	BLOSUM 45		
gap open penalty	(	10	100
Identity	55.6%	55.3%	54.9%
Similarity	58.0%	57.60%	56.5%
gaps -	40.90%	39.6%	39.6%
Score	844.5	817.5	724.0
Length	257	255	2.55

Matrix	BLOSUM 50		
Gop open penalty	)	10	100
Identily	55.6 °/°	55.3%	54.9.1.
Similarity	58.0%	57.6%	56.5°C
yapı	40.9./-	39.6.1.	39.6./1
Scoll	906.5	819.5	187.0
Length	257	255	255

Name of Experiment No
Page No. 1
Experiment No
Experiment -1
Pair wise comparision of sequences Analysis of parameters affecting alignment.
Aini- la covry out pain wise sequence alignment of the Given sequence using EMBOSS/JEMBOSS tool at EBT.
100° ac FBC.
Introduction:
Pair wise alignment is used to find regions
of similarity that may indicate Structural of evolutionary
relieve relationships between two biological sequences!
EMBOSS needle rode two enput sequence and wait their optimal global sequences alignment to
file. It uses the Needleman urenel alignment
olgorithm to find the optimum alignment, of
1900 consumer along their outing Genoth.
I I FARRISS 490 For uses the emith - wall much
I A soll . It soll A to I've and a light of the
sequence to one of more others sequence both of
these tools can be used in the following contexts
sequence to one of more others sequence both of these tools can be used in the following contexts  protein sequence & nucleotide sequence.
Protein: Myogloben.
Prolem: Nigogiophi.
URLI- MUM. ehi. ac. uk/embous/align.
NIMITAL ENGLISHED TO STATE OF THE PARTY OF T

Matrix       1       10       100         Lap open purelty       55.4°/·       56.3°/·       54.9°/·         Identity       55.4°/·       57.3°/·       56.5°/·         Similarity       57.4°/·       39.6°/·       39.6°/·         Laps       41.5°/·       873.5       844.5       746.0         Score       873.5       255       255		P	AM170	
A)(M)V	Lap open penelty  Tolentity  Similarity  Laps	55,4°/° 57.4°/° 41.5°/	55.3°/° 57.3°/° 39.6°/° 844.5	54.9% 56.5% 39.6% 746.0

\Mats	PAM 250		
Matrix	1	10	100
Gap open penalty	55.3%	55.3%	54.91/
Identity	58.47	58.0%	56.9.1.
Similarity	40.9.1.	39.6%	39.6.1
Gaps	662.5	642.5	548.0
Score Length	25	255	255

Matrix	PAM	350	
Gap open penalty	1	10	100
Identity	55.3%	55-3-1	54.9%
Dimilarity	59.6-1.	59.6./	58.41
yaps	39.6%	39.6-/-	39.6%
Sier	760.5	744.5	647,0
Length	255	255	258

Date Page No. 2  Experiment No
Experiment Result
purport NO
Procedure.  Procedure.  Logia to MCBI and retrive protein sequence is
111) 100
The EMBOSS tool was ascerted using UKL
1 the chious roll was a combon (dign.
n lus
action is producted for some of the
The desired alignment option needle was
relected for carrying out global alignment
The selected segrence in FASTA formal
5 pasted in the windows provided.
alignment was new to get the result
61 The augment was runned panas BLOSUM
The augminion was sure of the
maraies of the scores
83 The augment was some
of gap open & extension penalties.
Observation:
A pair with alignment is carried out with the
A pair with alignment is carried out with the help of EMBOSSE Needle & wunch algorithm.
$11 (1) \cos \theta_0$
EMBOSS 00131 LAIRED TELETONNIVE MORAPELY VO-NO
EMIBUSS
EMBOSS DOIS IVLAGISFG AGAAPGGGAPAVE
EMBOSS DOIS IVENUEL TO THE TOTAL OF THE TOTA
Misnatch loo Substitution
Match Misniatch gap Substitution

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EXPE	7(D.01)+ °-
	Tu Ourald to other
$\mathbb{K}$	and general for assely related sequences
	PAM of lower order and BLDSVM of higher order
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	seguence.
	this be confirmed by the results obtained by alignment using EMBOSS tool and
	to alignment using EMBOSS tool and
	Variable the Dammeters
	D- 16
	C = 10
-	V-10
¥( 9)	0 18
30/	F = 10
	- A8