15	page No. 8
Mama or E	Experiment Result
EIDE	Evolutionary Studies/Phylogenetic Analysis. Analysis of parameters affecting trees.
	Ain: To corregant Phylogenetic analysis of given seguences.
-	Tumodution:
	CLUSTAL 412 & a general purpose multiple
	sequences alignment program for DNA or proteins
	To attempts to Calculate the best match for the selected sequences, and lines them up
	80 that the identities, similarities & differences can
	he seen commonly used phylogenetic tree generalis
	nothods provided by the church in & program are
	NI and Opena.
	The Phylogenetic tree & build in Hirce
	steps is input alignment its Setting the parameters
	iii Subvision.
	Query: - Protein, Casein, My aglobin
o' l	1. www. ebi a c. uk/ clustal w/
	J. genebel - www. genebel. msu. su/service
0	Decipe
	Duran durant
	Drocedure: Jot nethod [CLUSTAL W]:
	D Logio to NCBI & retrive minimum of six
	D Login to NCBI & retrive minimum of six queries in FASTA.
	the state of the s

THE PARTY OF THE P

Name of Experiment	
i'is bogon to www. chie ac. uk chustal w.l.	
ii i klelcoming page -> thestal w -> Launch clustal	
Ev Paste the queries & Submits	
V> Moro Click on that & Phylogenetic tree will be displayed.	
Method 2: Simple Phylogeny	
-> Logon to Chestal w& perform multiple seguence	-
alighment for minimum 6 sequences & subthe the	
-> hogen to wince. ebi. ac. we/ fook / phy logicus	
-> Paste the multiple seguence alganment result	
already copied the tree previous step.	
-> Set the tree parameter as NEXUS option	
not available set it to défault.	
-> Click on Submit & retrieve result as phylogra -> Interpret the obtained vesselt.	m
	1
Result?	1
Method 1:	
sequence se done with the CLUSTOL & tool & result sobtained.	
sequence to done with the CLUSTAL & tool &	
result obtained.	
we can view of both the cladogram as well as	,
phylogram of obtained tree. The can be interpreted and is terms of distances & relationships.	
aut in termi of deutances & relationships.	

Name of Experiment	Date 20/12/2023 Experiment Result	Page No. 10
as Phylogenetic tree Cladegram	of Scopience & a gio	1
	KES12463. 1.06	
	(An 1007 8, 1, 0, :	
	AAY68392.1.	0.4025
	XR 031304471	1.0067
	XP 03130446	9.1.0.00065
MMKSFFLUVITLALT -MKVFIFT - CLLF	and → gap	
-MKVLTLA - CL VA	ALA	
- MRLLILT - CLVA	VA :- > Subst	prience
-MKILI" - CAVA	1/47	natch
Method 2 Simple pl	uloacu	
Simple phylo	egragaing is a tool to per on multiple sequence he Substitution that has	Lolin basic
Phylogenetic analysis	on multiple sequence	alianne
-> It aim to model Al	he Substitution that has	6 0001810
	MAR CE CRUNIARI, CO TOPISMARIAN	d1. 1
Wolutionary relation	sluin blu seguences	1000
Rulls of phylogeny	is explained as talles in	1
as Distance connection	slip blu sequences. is explained as falloure com be applied.	<u>.</u>
a Neighbourhood joinin	a alasiflam le emplou	ed.
phylogentic bus	1 An Orradical Lana	Ta
Show tollars	g algorithm is employ in graphical form	1/5

arne of Experiment	Date 20/12/2023 Page No. Cd
xperiment No	Page No. [/]
	NP-001349318-1.05084
	-NP-001157520.1.0.00992
(NP-067599 · 1. 0.04155
	NP-001157488.1.0.04882
	KAB-127 D346. 1.0.04269
	110-999401.1.0.02209
Discussion	1.0-
Root i-	Represents the aucestal linage. Represents descendent of that ancestos.
1:08	Represents descendent of that ancestos.
Alode:-	A point of which I or more branches divers
	A point of which & or note branches divergendicating point of separation & occurance
0 - 4	of speciation.
Branch!	Given within tree
Ctad !-	It is grouping that includes a common
<u>au</u>	lestors & all the descendent of that ancestor
Cla	de are Wested within one another form
	Werrorchie un rement for and indientes of
hested	The state of the s
husted	movement of time.
husted	lestors & all the descendent of that ancestor de are vested within one another form hierarchy morement forward indicates to movement of time.

Method 01 Clustalw myoglobin

Myoglobin [Camelus dromedarius]

GenBank: KAB1270346.1

GenPept Identical Proteins Graphics

>KAB1270346.1 Myoglobin [Camelus dromedarius]

myoglobin [Equus caballus]

NCBI Reference Sequence: NP 001157488.1

GenPept Identical Proteins Graphics

>NP 001157488.1 myoglobin [Equus caballus]

MGLSDGEWQQVLNVWGKVEADIAGHGQEVLIRLFTGHPETLEKFDKFKHLKTEAEMKASEDLKKHGTVVL TALGGILKKKGHHEAELKPLAQSHATKHKIPIKYLEFISDAIIHVLHSKHPGDFGADAQGAMTKALELFR NDIAAKYKELGFQG

myoglobin [Mus musculus]

NCBI Reference Sequence: NP_001157520.1

GenPept Identical Proteins Graphics

>NP 001157520.1 myoglobin [Mus musculus]

MGLSDGEWOLVLNVWGKVEADLAGHGQEVLIGLFKTHPETLDKFDKFKNLKSEEDMKGSEDLKKHGCTVL TALGTILKKKGQHAAEIQPLAQSHATKHKIPVKYLEFISEIIIEVLKKRHSGDFGADAQGAMSKALELFR NDIAAKYKELGFQG



Guide Tree





Tree Data

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Management of Ma
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Phylogeny

■ Feedback

Tools > Phylogeny

Service Announcement

We will be retiring these pages on the 31st of January, 2024. Please visit our new website at www.ebi.ac.uk/jdispatcher and share your feedback with usl

Simple Phylogeny

Phylogenetic tree generation using the ClustafW2 program

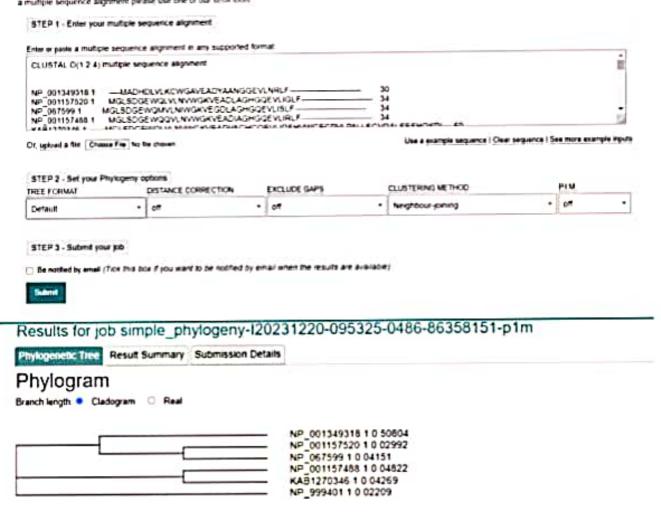
*Launch Simple Phylogeny

The tools described on this page are provided using Search and sequence analysis tools services from EMBL-EBI in 2022

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Simple Phylogeny

This tool provides access to phytogenetic tree generation methods from the ClustaWJ package. Please note this is NOT a multiple sequence alignment tool. To perform a multiple sequence alignment please use one of our MSA tools.



Phylogenetic Tree

View Phylogenetic Tree File