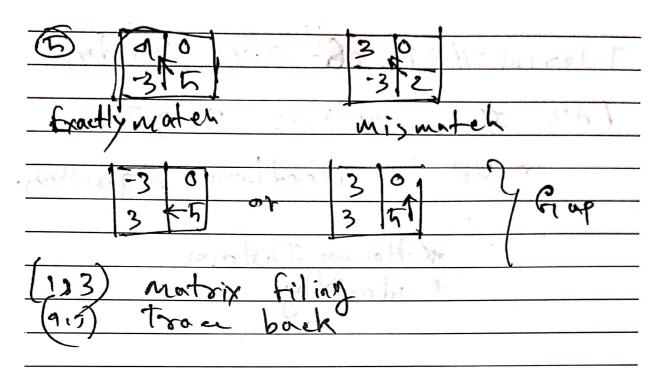
Page
#Needeman-Wunseh Algorithmfor
global alignment
steps:
1. Add a man penalty to all cell
- Chitishing
2. For a particular cell, (initialistic) add gap penalty with—
add gap penalty with-
- Uttopizonfully (left adjacent)
1) Hopizontally (uft adjacent) Westiculty (upper adjacent)
Sylven silven de de l'agrand
Chalin ob ade in the the diagonal
cheking, eheek whether moteh the necleotides moteh or mismoteh.
MEDIERHAE) WLATER OF MISMALEN.
(ii) add the valve of match or
mismatch with the immediate
diagonal cell.
3) find maximum among (i), (ii),
and (iii) for the eel!
1) for each culculation mark with
an arrow from which you have
tound the maximum valve, the abrews
might have
A diagonal
1- UPPer



				•			
		A	+	<u>G</u>	0	T	
	0	-2	-9	- &	-8	-10	
A	_ 2	71	4-1		4-5	<-7	
G	- 9	-11	W.D	10	4-2	K- 1	,
e	- 6			-1	1	-1	
T	-8	-51	1-2	1-3	-11	12	
			-,				
,			V				
				1			

3 Fra.	beep	,		
7		7	1	
	ATG	et	Mets-	
1	1 - 9	et7>		

,/

Derstorm Local alignment Smith-waterman algorithm	- by applying
Smith-waterman algorithis	33.4
following sequence -i	· d

RS=AGCGITAGI Smotch = +1	-
1C= C+ CG+T CMISMOTEN==	_
1 Grap = -2	
	-

1		1 1	G	101	G	TI	A	G	
		10	13	0	0	0	0	0	3
¥	0	10	0		0	0	0	0	*
C	O	a	0	7	0	1	0	0	
T	0	0	0	0		7	0	0	-
C	0	0	0	(1) K	0	0	0	10	,
G	0	Ø	1.	0,	2	10	\circ	17	
+	0	0	0	O	0	(3)	0	0	
0	0	0	O.	16	0	0.	0	0	
									`
- 4					T.			1	

Alignment Seoner: 3 wed Alignot - CGT