

Local pairwise alignment - one optimal alignment

	-	S	O	I	L	E	D		
-	0	0	0	0	0	0	0	$p(x,x)$	2
S	0	2	1	0	0	0	0	$p(x,y)$	-1
I	0	1	1	3	2	1	0	g	-1
L	0	0	0	2	5	4	3		
L	0	0	0	1	4	4	3		
Y	0	0	0	0	3	3	3		

S	O	I	L
2	-1	2	2
S	-	I	L

5

Local pairwise alignment - two optimal alignments

	-	M	I	S	S	I	S	S	I	P	P	I
-	0	0	0	0	0	0	0	0	0	0	0	0
K	0	0	0	0	0	0	0	0	0	0	0	0
I	0	0	2	1	0	2	1	0	2	1	0	2
S	0	0	1	4	3	2	4	3	2	1	0	1
S	0	0	0	3	6	5	4	6	5	4	3	2
E	0	0	0	2	5	5	4	5	5	4	3	2
D	0	0	0	1	4	4	4	4	4	4	3	2

I	S	S
2	2	2
I	S	S

6

Local pairwise alignment - one optimal and two suboptimal alignments w/ score 5

	-	M	I	S	S	I	S	S	I	P	P	I
-	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	2	2	1	2	2	1	0	0	0
I	0	0	2	1	1	4	3	2	4	3	2	2
P	0	0	1	1	0	3	3	2	3	6	5	4
S	0	0	0	3	3	2	5	5	4	5	5	4

S	I	P
2	2	2
S	I	P

6

S	I	S	S
2	2	-1	2
S	I	P	S

5

S	I	-	S
2	2	-1	2
S	I	P	S

5