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Annexe Projet Threader

1. Exemple de sortie : matrice de haut niveau et parcour d'un chemin optimal.

	_	ARG_1	TRP_1	CYS_1	PHE_1	ARG_2	VAL_1	CYS_2	TYR_1	ARG_3	GLY_1	ILE_1	CYS_3	TYR_2	ARG_4	LYS_1	CYS_4	ARG_5
_	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0.0	-0.09	0.26	0.51	-1.27	-2.00	-1.59	-0.54	-1.54	-0.36	0.77	1.12	1.99	1.06	0.68	0.41	0.39	0.00
1	0.0	4.15	6.32	6.16	4.35	2.66	1.73	3.49	3.24	1.60	2.55	3.34	5.03	4.87	3.85	3.97	2.62	1.95
2	0.0	2.15	7.18	11.76	11.32	9.82	8.52	7.37	8.97	8.82	6.82	7.50	8.47	9.93	9.61	7.98	6.17	4.43
3	0.0	4.31	5.54	12.12	15.72	13.72	11.72	11.14	9.14	9.53	8.92	7.35	9.27	9.26	9.68	8.39	6.43	4.56
4	0.0	4.69	11.04	14.99	19.63	22.10	20.69	18.85	16.85	14.85	14.37	13.73	12.09	13.20	11.20	11.42	10.20	8.20
5	0.0	2.80	9.52	17.78	20.39	24.52	28.74	26.74	24.74	22.74	20.74	18.74	16.84	15.00	15.17	13.76	13.64	12.19
6	0.0	0.80	7.52	15.78	20.15	23.00	27.35	33.64	31.64	29.64	27.64	25.64	23.64	21.64	19.64	17.64	16.12	15.65
7	0.0	-1.04	5.52	13.78	18.15	21.00	25.35	31.64	32.64	30.64	28.64	26.64	24.64	22.64	20.64	18.64	16.64	14.64
8	0.0	2.65	3.52	11.78	16.72	20.85	23.94	30.49	35.69	34.33	32.33	30.33	29.06	27.06	25.06	23.06	21.06	19.06
9	0.0	0.65	4.78	9.78	14.72	18.85	23.10	28.49	33.69	38.18	36.18	34.18	35.18	33.18	31.18	29.18	27.18	25.18
10	0.0	-1.35	2.78	7.78	12.72	16.85	21.10	26.49	31.69	36.18	37.10	35.62	35.84	35.91	33.91	31.91	30.97	28.97
11	0.0	-2.00	0.78	5.78	10.72	14.85	19.10	24.49	29.69	34.18	35.12	36.29	37.08	37.44	37.30	35.30	33.53	32.10
12	0.0	-1.55	-1.22	3.78	8.72	12.85	17.10	22.49	27.69	32.18	33.12	34.29	37.38	35.87	37.60	37.49	37.06	35.06
13	0.0	2.15	0.15	1.78	6.72	10.85	15.10	20.49	25.69	30.18	35.18	36.22	40.81	41.46	39.46	38.81	40.99	38.99
14	0.0	1.83	5.44	3.83	5.30	10.67	15.18	19.49	24.67	29.86	34.06	39.90	43.30	47.07	46.89	45.41	45.41	44.44
15	0.0	-0.17	3.44	5.12	3.74	8.67	13.18	17.49	22.67	27.86	32.06	37.90	41.91	45.07	49.80	50.79	50.07	50.76
16	0.0	0.00	1.44	3.12	4.01	6.67	11.18	15.49	20.67	25.86	30.06	35.90	39.91	43.07	47.80	50.13	52.72	50.72

2.a) Alignement 1AXH.pdb avec 1RKK.fasta b) Alignement 1AXH.pdb avec 6PI2.fasta
b)Alignement 6PI2.pdb avec 1AXH.fasta d) Alignement 6PI2.pdb avec 1RKK.fasta

a)

```
_ _
0 -
1 -
2 -
3 -
4 -
5 -
6 -
7 -
8 -
9 -
10 -
11 -
12 -
13 -
14 -
15 -
16 -
17 -
18 -
19 ARG_1
20 -
- ARG_2
21 -
- TRP_1
22 -
- CYS_1
23 -
- PHE_1
24 -
- ARG_3
25 -
- VAL_1
26 -
- CYS_2
27 TYR_1
28 ARG_4
29 GLY_1
30 PHE_2
31 CYS_3
32 TYR_2
33 ARG_5
34 LYS_1
35 CYS_4
36 ARG_6
```

b)

```
_ _
0 -
1 -
2 -
3 -
4 -
5 -
6 -
7 -
8 -
9 -
10 -
11 -
12 -
13 -
14 -
15 -
16 -
17 -
18 -
19 -
20 ARG_1
- TRP_1
21 -
- CYS_1
22 -
23 -
- PHE_1
24 ARG_2
25 VAL_1
26 CYS_2
27 TYR_1
28 ARG_3
29 GLY_1
30 ILE_1
31 CYS_3
32 TYR_2
33 ARG_4
34 LYS_1
35 CYS_4
36 ARG_5
```

c)

```
0 -
1 SER_1
- PRO_1
2 -
- THR_1
- CYS_1
3 -
4 -
- ILE_1
5 -
- PRO_2
- SER_2
6 -
7 -
8 -
- GLY_1
9 -
- GLN_1
10 -
11 -
12 -
13 PRO_3
- CYS_2
14 -
- PRO_4
- TYR_1
- ASN_1
- GLU_1
- ASN_2
- CYS_3
- CYS_4
- SER_3
- GLN_2
- SER_4
- CYS_5
- THR_2
- PHE_1
- LYS_1
- GLU_2
- ASN_3
- GLU_3
- ASN_4
- GLY_2
- ASN_5
- THR_3
- VAL_1
- LYS_2
- ARG_1
- CYS_6
15 -
- ASP_1
16 -
```

d)

```
_ _
0 -
1 ARG_1
- ARG_2
2 -
- TRP_1
- CYS_1
3 -
4 -
- PHE_1
5 -
- ARG_3
- VAL_1
6 -
- CYS_2
7 -
8 -
9 TYR_1
10 ARG_4
11 -
12 -
13 -
- GLY_1
14 -
- PHE_2
- CYS_3
- TYR_2
15 -
- ARG_5
- LYS_1
- CYS_4
- ARG_6
16 -
```