

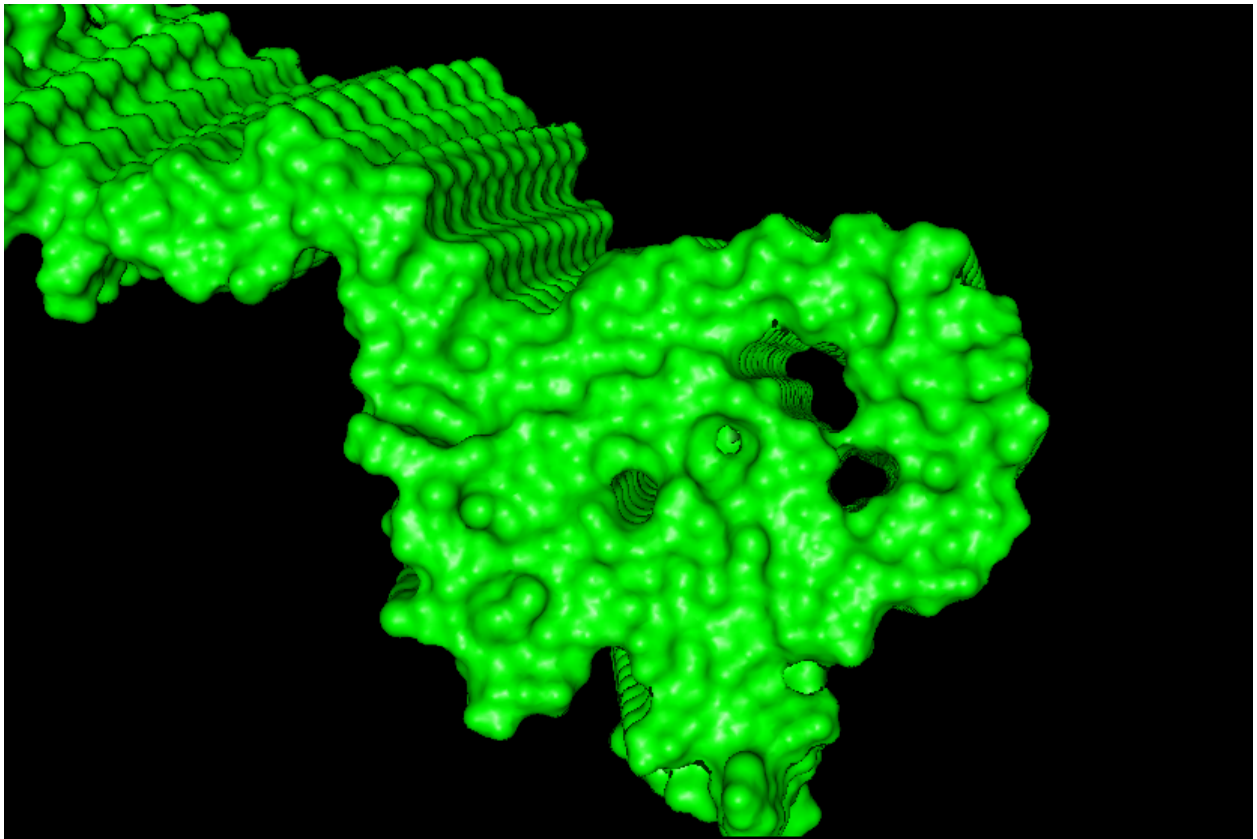


2N0A

⚙ Status Done

Estructura: 2N0A [RCSB PDB - 2N0A: Atomic-resolution structure of alpha-synuclein fibrils](#). SOLID-STATE NMR.

Análisis: Posee dos túneles frecuentemente visitados por todos los ácidos grasos, incluidos los controles tioflavinaT y tioflavina TS2. Hay una tercera región hacia el extremo N-terminal.



Conclusiones: analizar los túneles en otras estructuras, así como la interacción con otros monómeros que puedan formar cavidades. Analizar distintas afinidades

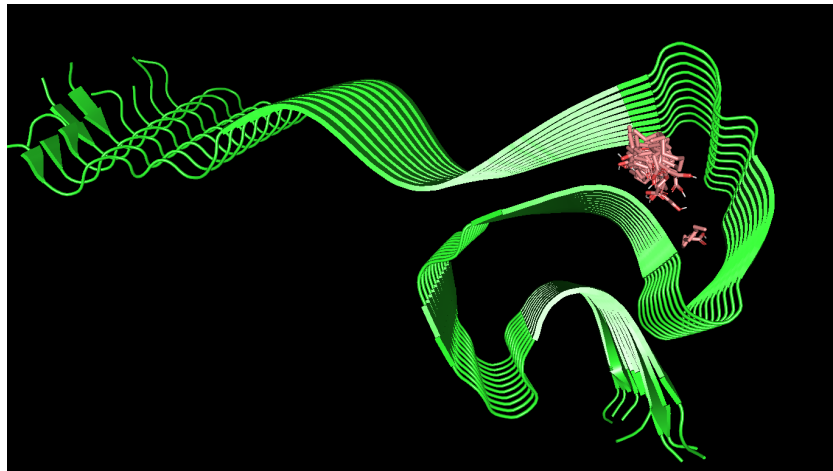
entre los ácidos grasos y según las regiones.

SATURADOS

Ácido Laurico (12:0) LA

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-5.2	0.000	0.000
2	-4.6	9.453	11.233
3	-4.4	12.659	14.205
4	-4.4	9.618	10.877
5	-4.4	21.473	23.394
6	-4.3	20.190	22.407
7	-4.3	12.531	15.799
8	-4.3	15.678	18.088
9	-4.3	10.675	11.700
10	-4.3	8.991	11.848
11	-4.1	20.770	24.256
12	-4.1	10.796	12.982
13	-4.1	19.913	23.730
14	-4.1	11.347	13.609
15	-4.1	8.771	11.845
16	-4.0	23.830	26.079
17	-4.0	11.338	13.352
18	-4.0	14.293	17.958
19	-4.0	14.986	17.149
20	-3.9	10.207	11.198

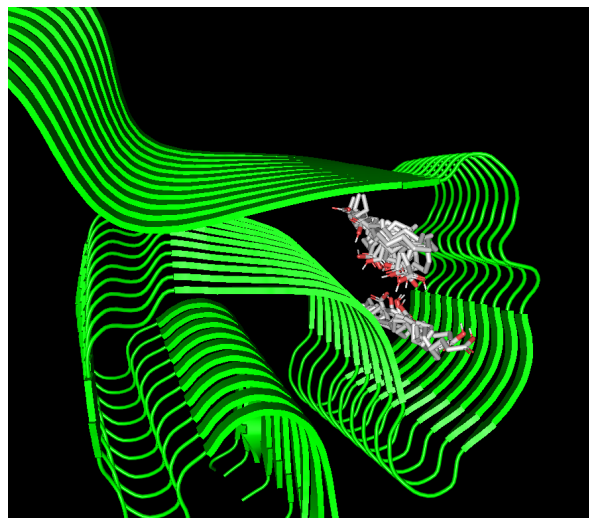
Writing output ... done.



Ácido Mirístico (14:0) MA}

mode	affinity (kcal/mol)	dist from best mode rmsd l.b. rmsd u.b.
1	-5.7	0.000 0.000
2	-5.6	7.174 14.134
3	-5.2	11.351 17.561
4	-5.1	11.821 17.094
5	-5.1	2.895 5.353
6	-5.0	9.544 11.371
7	-4.8	3.798 7.268
8	-4.8	14.204 17.444
9	-4.7	10.005 11.932
10	-4.7	14.407 16.401
11	-4.7	9.886 12.135
12	-4.6	17.252 20.943
13	-4.6	11.277 14.054
14	-4.6	10.279 15.214
15	-4.6	9.016 10.011
16	-4.5	10.609 12.984
17	-4.5	11.294 16.287
18	-4.5	8.339 9.688
19	-4.4	8.996 12.364
20	-4.3	13.324 15.686

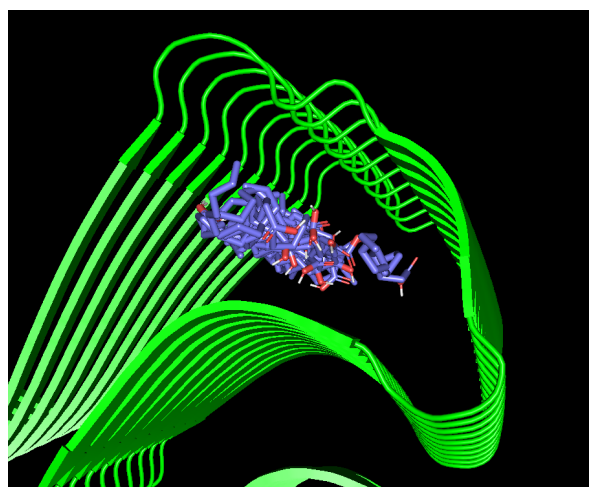
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Ácido Palmítico (16:0) PA

mode	affinity (kcal/mol)	dist from best mode rmsd l.b. rmsd u.b.
1	-5.6	0.000 0.000
2	-4.8	9.717 12.290
3	-4.8	9.260 10.391
4	-4.7	9.361 10.522
5	-4.7	10.544 13.559
6	-4.7	8.091 8.975
7	-4.7	18.401 20.883
8	-4.7	12.074 14.550
9	-4.6	20.955 24.008
10	-4.6	14.964 20.983
11	-4.5	9.966 11.472
12	-4.5	22.006 26.256
13	-4.5	14.493 17.151
14	-4.5	18.107 24.392
15	-4.4	10.156 13.323
16	-4.4	14.305 20.615
17	-4.4	15.734 21.198
18	-4.4	8.680 13.708
19	-4.3	10.890 13.450
20	-4.3	10.291 12.113

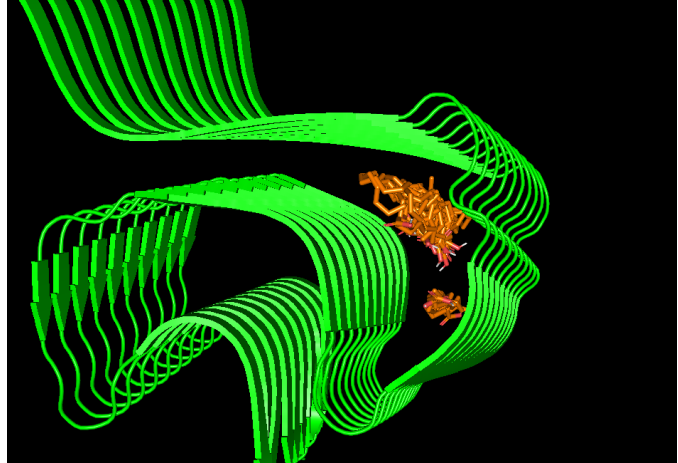
Writing output ... done.



Ácido Esteárico (18:0) SA

mode	affinity (kcal/mol)	dist from best mode rmsd l.b. rmsd u.b.
1	-5.7	0.000 0.000
2	-5.7	9.443 13.754
3	-5.6	1.168 2.111
4	-5.5	10.228 14.144
5	-5.3	9.558 10.856
6	-5.3	10.221 13.347
7	-5.3	9.494 10.512
8	-5.2	9.524 14.394
9	-5.2	11.025 16.658
10	-5.2	10.501 13.230
11	-5.2	6.117 11.953
12	-5.1	9.270 10.256
13	-5.1	9.967 11.220
14	-5.1	9.036 11.633
15	-5.1	17.087 21.099
16	-5.1	9.700 13.360
17	-5.0	9.642 12.798
18	-4.9	10.008 12.378
19	-4.9	10.854 14.165
20	-4.9	13.520 20.501

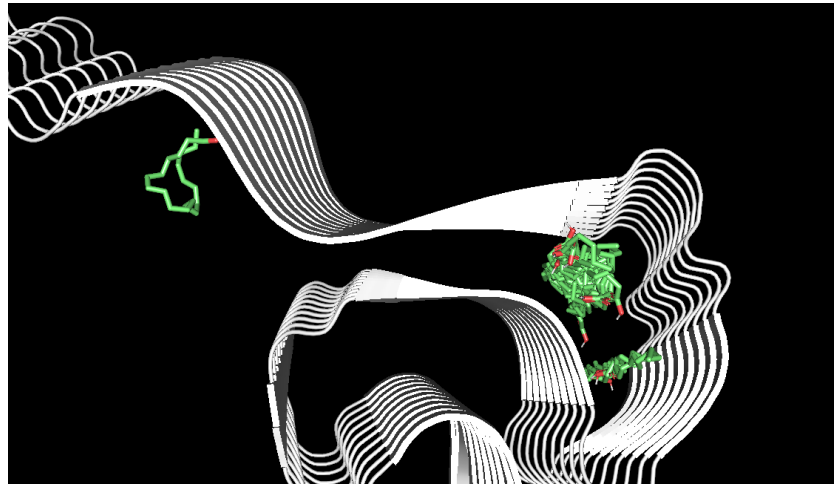
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Ácido Araquídico (20:0) AqA

mode	affinity (kcal/mol)	dist from best mode rmsd l.b. rmsd u.b.
1	-5.5	0.000 0.000
2	-5.3	11.202 23.020
3	-5.3	9.971 13.305
4	-5.3	9.466 10.465
5	-5.3	10.519 16.794
6	-5.3	9.700 11.303
7	-5.2	12.311 15.000
8	-5.2	10.017 14.639
9	-5.1	16.268 20.864
10	-5.1	22.979 27.478
11	-5.0	18.634 22.681
12	-5.0	43.272 44.573
13	-5.0	15.567 19.254
14	-5.0	11.043 15.928
15	-5.0	18.956 25.952
16	-4.9	23.589 26.671
17	-4.9	10.522 15.669
18	-4.9	9.425 12.481
19	-4.9	19.640 25.194
20	-4.8	22.310 27.533

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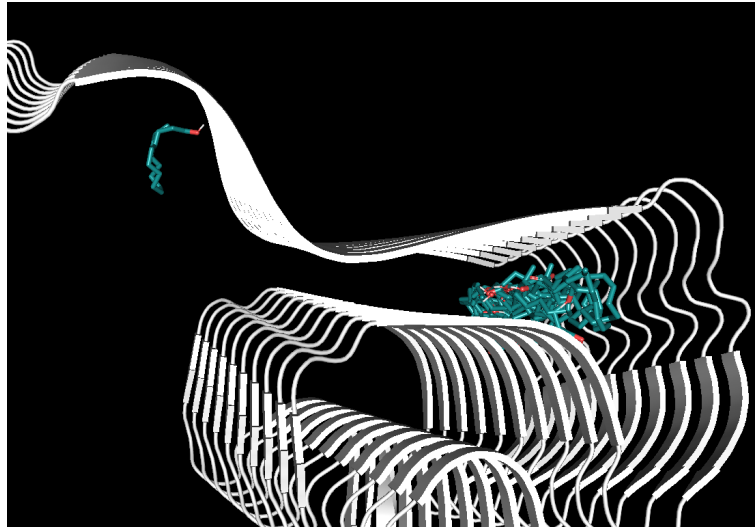
el 12 es el que aparece en la izquierda

MUFAs:

Ácido Palmitoléico (16:1, n-7) PoA

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-4.6	0.000	0.000
2	-4.5	4.384	7.225
3	-4.5	16.156	19.057
4	-4.3	4.672	8.526
5	-4.3	7.514	10.550
6	-4.2	2.842	5.499
7	-4.1	4.920	8.404
8	-4.1	7.650	10.262
9	-4.1	12.244	15.752
10	-4.0	8.472	12.091
11	-4.0	5.702	9.121
12	-4.0	13.836	17.477
13	-4.0	14.307	17.614
14	-4.0	39.333	40.917
15	-3.9	12.969	16.264
16	-3.9	8.289	11.651
17	-3.9	12.692	15.757
18	-3.8	5.330	7.789
19	-3.8	3.832	7.485
20	-3.8	13.064	16.717

Writing output ... done.

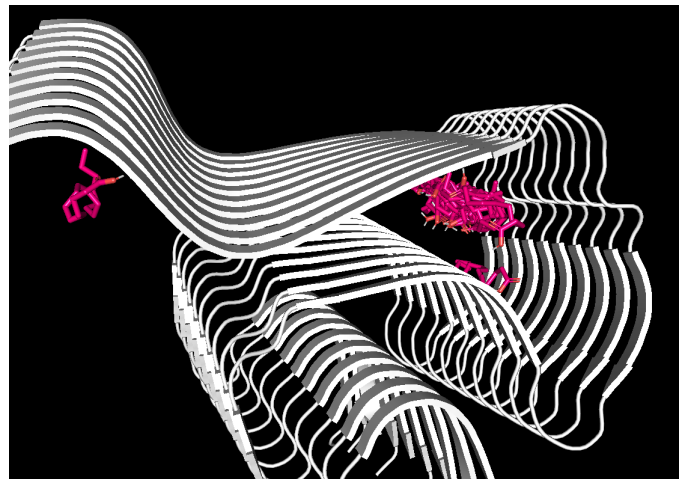


a la izquierda n°14

Ácido Oléico (18:1,n-9) OA

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-5.8	0.000	0.000
2	-5.7	16.520	18.894
3	-5.6	9.639	11.240
4	-5.5	10.020	13.816
5	-5.4	9.527	12.503
6	-5.4	10.745	14.427
7	-5.4	10.087	16.158
8	-5.3	9.615	13.956
9	-5.3	46.808	49.499
10	-5.3	8.518	9.088
11	-5.2	9.511	11.337
12	-5.2	10.459	13.575
13	-5.2	9.311	10.502
14	-5.2	11.634	16.238
15	-5.2	9.674	11.355
16	-5.1	10.581	14.326
17	-5.1	15.016	20.800
18	-5.1	12.690	19.828
19	-5.1	11.868	18.736
20	-5.0	9.289	14.874

Writing output ... done.



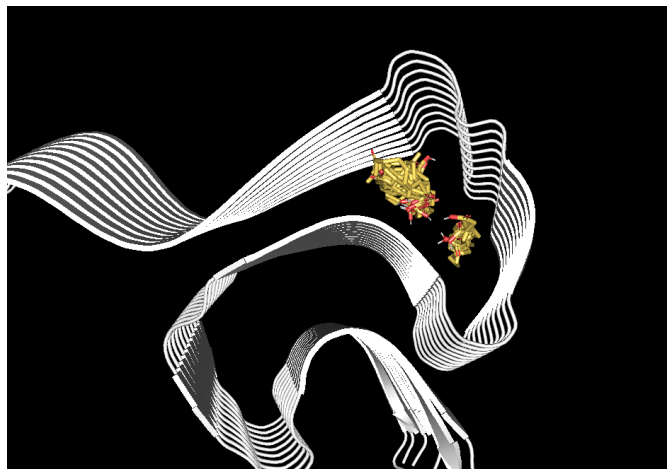
n° 9 izquierda

PUFAS:

Ácido Linoleico (18:2,n-6) LiA

mode	affinity	dist from best mode	
	(kcal/mol)	rmsd l.b.	rmsd u.b.
1	-6.3	0.000	0.000
2	-6.1	12.404	15.902
3	-5.6	21.810	25.793
4	-5.5	21.478	24.486
5	-5.5	18.251	21.516
6	-5.5	24.920	27.976
7	-5.4	17.608	21.722
8	-5.4	20.192	24.211
9	-5.3	26.597	30.652
10	-5.3	9.725	10.900
11	-5.2	14.307	17.463
12	-5.2	26.833	30.643
13	-5.2	24.067	26.653
14	-5.2	15.762	18.245
15	-5.1	21.769	26.982
16	-5.1	26.029	29.122
17	-5.0	21.525	27.268
18	-5.0	20.391	23.841
19	-5.0	15.390	19.373
20	-5.0	9.839	13.022

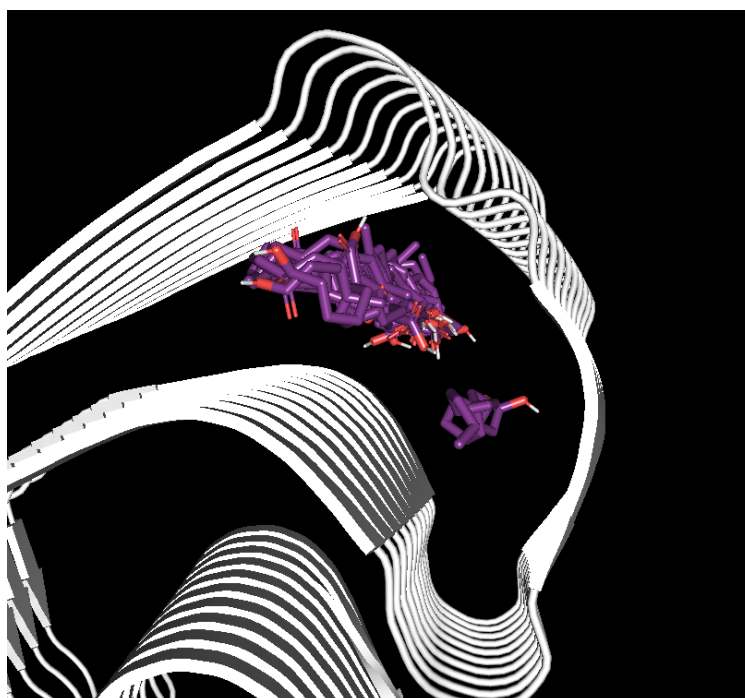
Writing output ... done.



Ácido alfa-Linolénico (18:3,n-3) aLA

mode	affinity	dist from best mode	
	(kcal/mol)	rmsd l.b.	rmsd u.b.
1	-5.9	0.000	0.000
2	-5.6	8.589	10.651
3	-5.6	10.339	15.221
4	-5.5	8.809	10.175
5	-5.4	8.735	10.038
6	-5.4	8.740	12.073
7	-5.4	10.221	15.856
8	-5.3	15.958	21.371
9	-5.2	17.285	21.526
10	-5.2	8.763	11.599
11	-5.2	10.283	14.701
12	-5.1	11.231	14.988
13	-5.1	14.166	20.131
14	-5.1	17.853	23.178
15	-5.0	12.387	15.641
16	-5.0	19.088	22.003
17	-5.0	9.933	14.113
18	-5.0	13.520	18.368
19	-4.9	7.808	9.047
20	-4.9	11.266	13.781

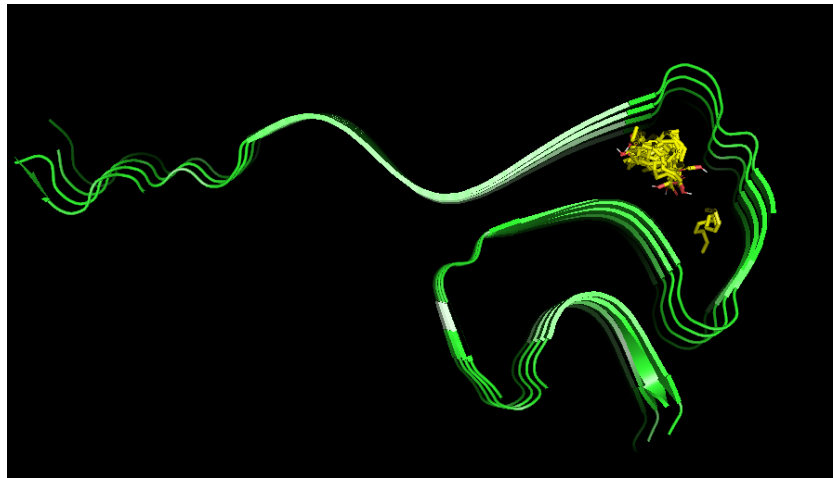
Writing output ... done.



Ácido Araquidónico (20:4,n-6) ARA

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-5.5	0.000	0.000
2	-4.9	2.418	4.742
3	-4.8	3.118	6.300
4	-4.7	6.724	10.337
5	-4.6	4.012	5.527
6	-4.6	6.260	9.994
7	-4.6	9.564	13.950
8	-4.6	1.769	5.068
9	-4.6	2.965	6.026
10	-4.5	5.062	7.596
11	-4.5	11.660	15.150
12	-4.5	3.845	7.593
13	-4.4	7.392	11.119
14	-4.4	2.387	4.116
15	-4.4	8.279	10.779
16	-4.4	6.392	9.842
17	-4.3	4.957	7.755
18	-4.2	5.884	8.876
19	-4.2	10.299	13.146
20	-4.2	10.023	12.970

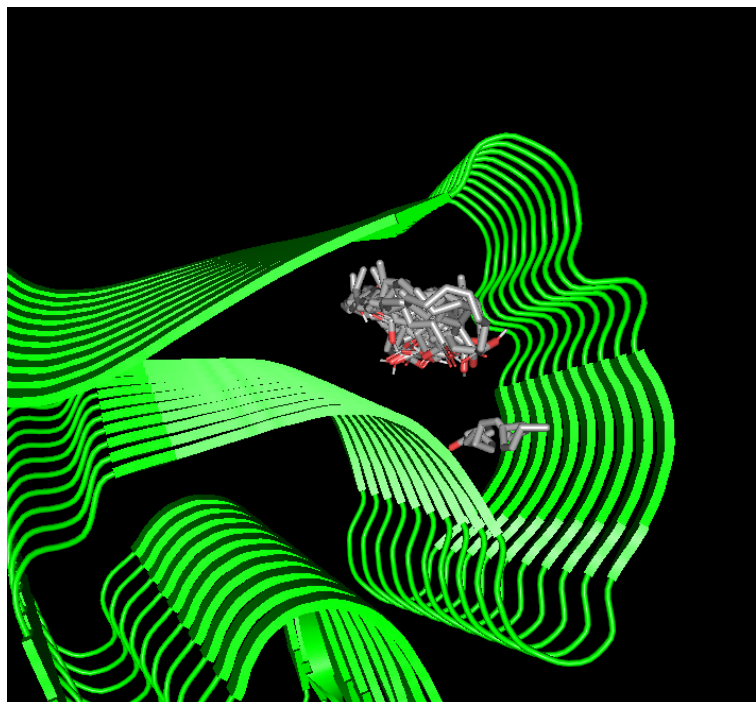
Writing output ... done.



Ácido Eicosapentaenóico (20:5,n-3) EPA

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-6.9	0.000	0.000
2	-6.2	11.010	15.952
3	-6.1	9.524	11.308
4	-6.1	13.367	20.198
5	-6.0	10.872	14.348
6	-6.0	9.795	10.757
7	-5.9	13.282	18.260
8	-5.9	14.665	19.590
9	-5.8	9.914	12.290
10	-5.8	9.649	11.445
11	-5.8	10.263	12.973
12	-5.8	13.755	16.739
13	-5.7	10.242	14.992
14	-5.7	16.520	20.541
15	-5.7	10.734	14.701
16	-5.6	12.637	18.191
17	-5.6	11.559	15.455
18	-5.6	9.681	12.055
19	-5.6	11.776	16.990
20	-5.5	9.430	12.748

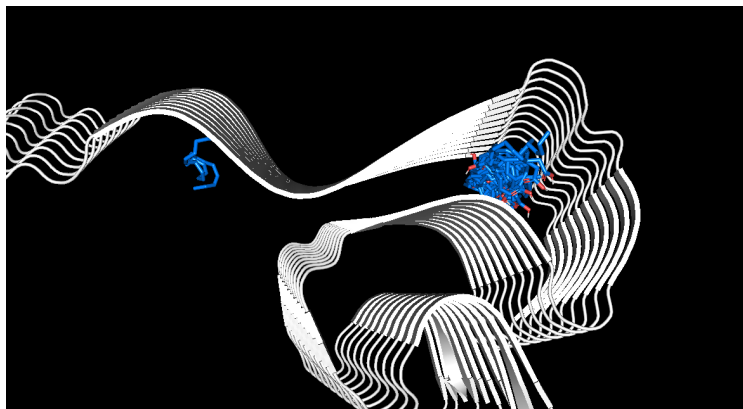
Writing output ... done.



Ácido Docosahexaenóico (22:6,n-3) DHA

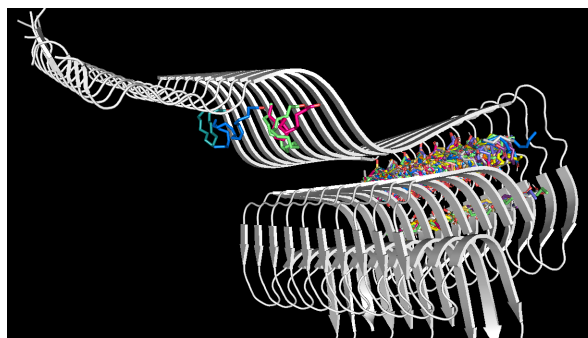
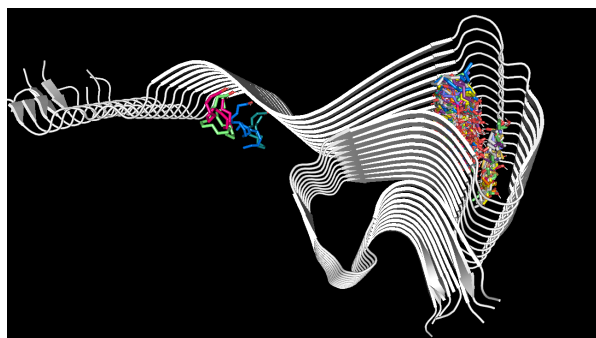
mode	affinity (kcal/mol)	dist from best mode rmsd l.b. rmsd u.b.
1	-5.8	0.000 0.000
2	-5.5	3.582 8.096
3	-5.4	4.621 8.804
4	-5.4	7.594 13.625
5	-5.3	10.445 14.281
6	-5.3	2.535 6.457
7	-5.2	9.850 15.917
8	-5.1	7.964 12.026
9	-5.1	10.078 14.787
10	-5.1	1.903 4.670
11	-5.1	12.266 17.919
12	-5.1	3.048 5.221
13	-5.1	1.623 2.975
14	-5.0	7.819 13.854
15	-5.0	6.214 9.811
16	-5.0	7.989 12.455
17	-5.0	6.974 13.346
18	-4.9	36.319 38.768
19	-4.8	2.388 4.886
20	-4.7	9.764 15.717

Writing output ... done.



n°18

TODOS

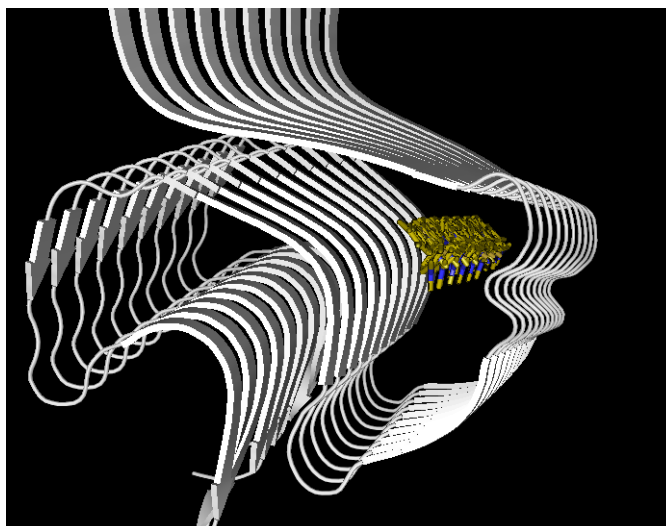


Control

Tioflavina T

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-6.9	0.000	0.000
2	-6.9	3.017	5.106
3	-6.9	15.016	19.759
4	-6.9	6.396	9.930
5	-6.9	2.890	4.896
6	-6.9	10.431	14.858
7	-6.8	11.218	16.982
8	-6.8	2.705	7.379
9	-6.8	2.296	7.847
10	-6.8	7.173	12.797
11	-6.8	15.777	21.552
12	-6.8	3.164	8.151
13	-6.8	4.148	9.590
14	-6.8	3.844	9.099
15	-6.8	3.285	8.669
16	-6.8	16.302	22.338
17	-6.8	1.571	2.528
18	-6.8	12.389	17.064
19	-6.8	16.991	21.944
20	-6.7	8.033	12.138

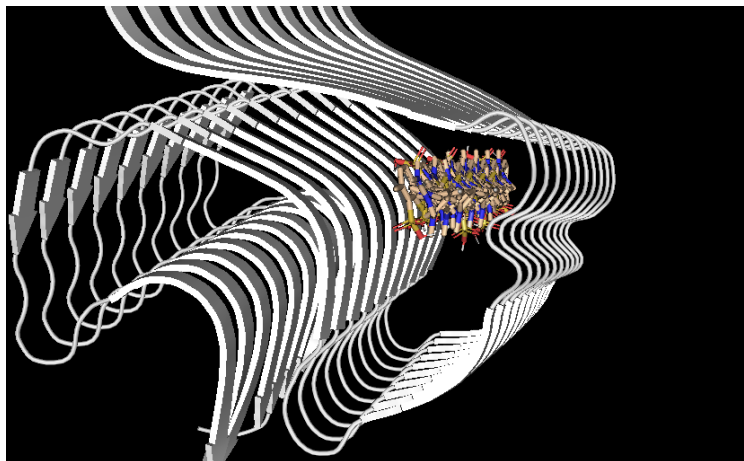
Writing output ... done.



Tioflavina S2

mode	affinity (kcal/mol)	dist from best mode	
		rmsd l.b.	rmsd u.b.
1	-10.1	0.000	0.000
2	-10.1	5.450	9.842
3	-10.1	2.621	5.044
4	-10.0	2.501	4.812
5	-10.0	5.828	12.525
6	-10.0	4.291	11.567
7	-10.0	8.122	15.148
8	-10.0	4.007	12.608
9	-9.9	11.131	18.725
10	-9.9	5.453	9.856
11	-9.9	3.331	6.129
12	-9.9	4.454	13.042
13	-9.8	9.398	16.664
14	-9.8	2.996	5.512
15	-9.8	6.895	13.624
16	-9.8	4.356	11.656
17	-9.8	7.670	14.569
18	-9.8	10.441	17.912
19	-9.7	4.863	11.797
20	-9.7	4.592	13.466

Writing output ... done.



Archivos

prueba02.pse