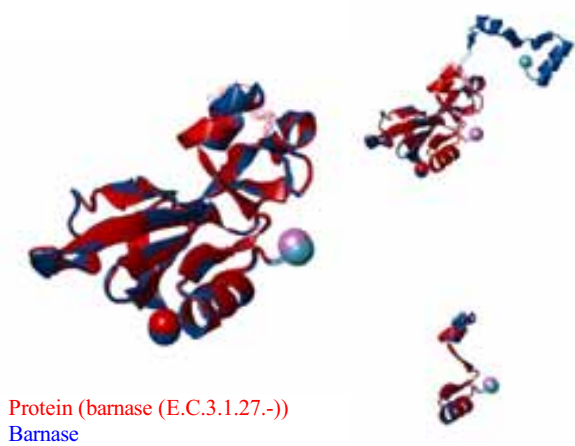
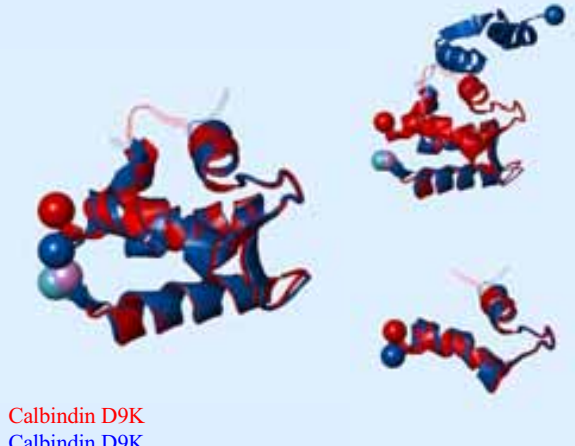
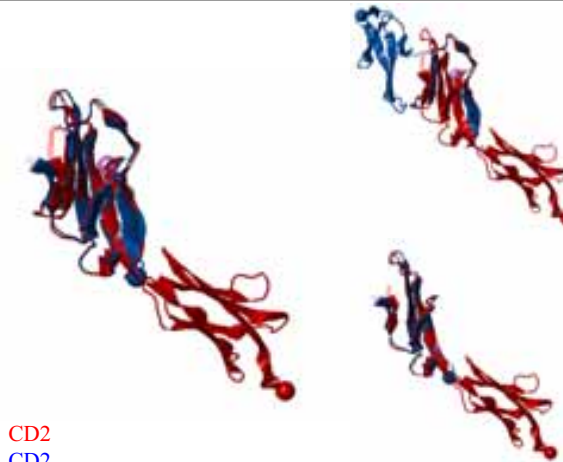
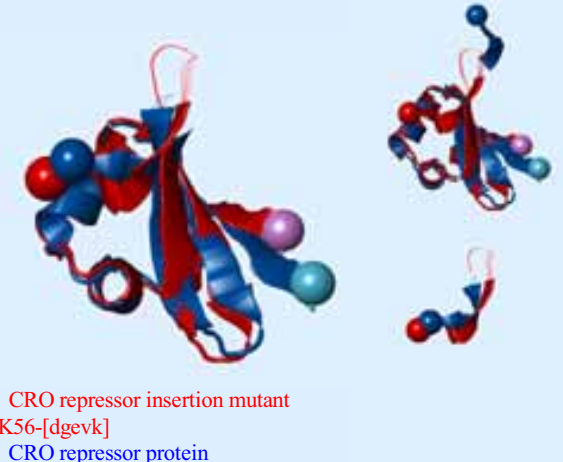
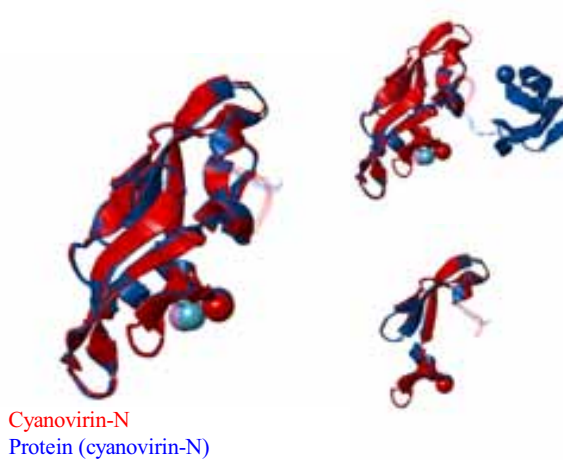


Table S4. Results of the structural alignments and hinge loop determinations for DS_{CO} pairs in Datasets L and M

The 1,093 DS_{CO} pairs successfully identified by the proposed method are listed here each with detailed information of the ranges of hinge loops determined by Eisenberg's and our methods, several structural similarity measures as well as the DS score defined in this work, and the virtual superimposition computed by our method. Structural superimpositions shown in this table were drawn using Jmol. The cells of determined hinge loops highlighted with yellow or green background colors mean that the calculated ranges for these hinge loops are obviously insufficient or over-extended, respectively. These highlighted parts were judged with manual inspections by the authors and their colleagues. The authors suggest that these parts should be used only for reference at the current stage where there is still no universal rule for verifying the range of a predicted or calculated hinge loop.

The authors would like to thank Chi-Ching Lee, Che-Wei Chang, Zong-Han Tsai and Yi-Chou Lin, the authors' colleagues at National Tsing Hua University, Shih-Chung Yen at National Chiao Tung University and Yu-Jie Lin at National Cheng Kung University, for their effort in preparing this table.

No.	PDB entry (size)	Hinge loop (size) Eisenberg's algorithm; $\theta_c=20^\circ$	Hinge loop (size) Eisenberg's algorithm; $\theta_c=30^\circ$	Hinge loop (size) The proposed method	DS type	DS score	vRMSD	vAli.Ratio	Identity	Superimposed structures
1	1bmL (108)	37-44 (8)	37-41 (5)	37-41 (5)	N	0.92	0.47	99.07% (107/108)	99.07% (107/108)	 Protein (barnase (E.C.3.1.27.-)) Barnase
	1yvsA (108)	37-44 (8)	37-41 (5)	37-41 (5)						
2	4icbA (76)	39-45 (7)	39-45 (7)	41-45 (5)	C	0.86	0.97	97.37% (74/76)	96.05% (73/76)	 Calbindin D9K Calbindin D9K
	1ht9A (76)	39-45 (7)	39-45 (7)	41-45 (5)						

3	1hngA (175)	44-50 (7)	44-46 (3)	44-46 (3)	C	0.49	1.01	100.00% (96/96)	97.92% (94/96)	 CD2 CD2
	1cdcA (96)	44-50 (7)	44-46 (3)	44-46 (3)						
4	1orcA (64)	54-60 (7)	55-60 (6)	55-56C (2)	C	0.76	1.24	96.72% (59/61)	93.44% (57/61)	 CRO repressor insertion mutant K56-[dgevK] CRO repressor protein
	5croA (61)	54-60 (7)	55-60 (6)	55-56C (2)						
5	2ezmA (101)	49-55 (7)	49-54 (6)	49-54 (6)	C	0.93	0.82	100.00% (101/101)	100.00% (101/101)	 Cyanovirin-N Protein (cyanovirin-N)
	3ezmA (101)	49-55 (7)	49-54 (6)	49-54 (6)						

6	1mdtA (523)	377-386 (10)	379-386 (8)	379-386 (8)	C	0.91	0.84	98.85% (517/523)	98.85% (517/523)	 <p>Diphtheria toxin Diphtheria toxin</p>
	1ddtA (523)	377-386 (10)	379-386 (8)	379-386 (8)						
7	1qlxA (104)	188-198 (11)	188-191 (4)	189-197 (9)	C	0.69	1.56	95.19% (99/104)	92.31% (96/104)	 <p>Prion protein Major prion protein</p>
	1i4mA (108)	188-198 (11)	188-194 (7)	189-197 (9)						
8	1hz5A (72)	51-56 (6)	52-56 (5)	52-56 (5)	C	0.74	1.58	97.22% (70/72)	88.89% (64/72)	 <p>Protein L Protein L</p>
	1jmlA (72)	51-56 (6)	52-56 (5)	52-56 (5)						

9	5rsaA (124)	15-22 (8)	16-22 (7)	18-22 (5)	N	0.97	0.54	100.00% (124/124)	100.00% (124/124)	
	1a2wA (124)	15-22 (8)	16-22 (7)	18-22 (5)						
10	5rsaA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.98	0.43	100.00% (124/124)	100.00% (124/124)	
	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)						
11	5rsaA (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.78	0.57	100.00% (124/124)	100.00% (124/124)	
	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)						

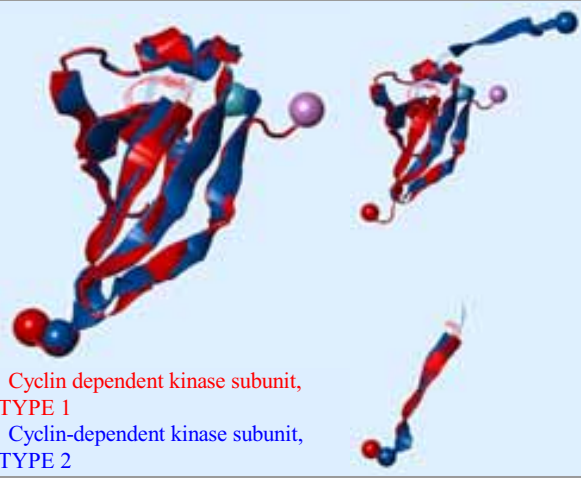

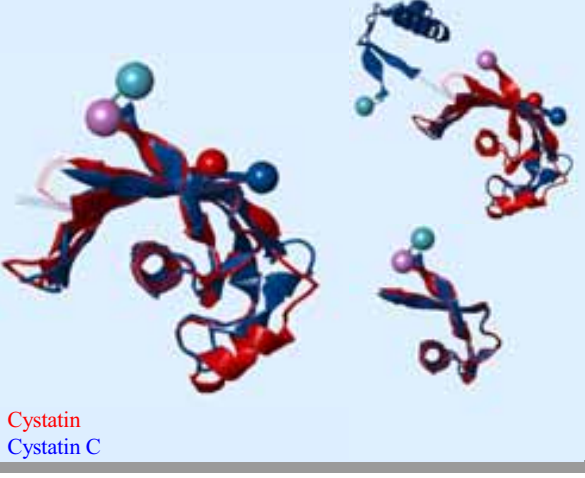
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Ribonuclease A

Ribonuclease A
Ribonuclease A

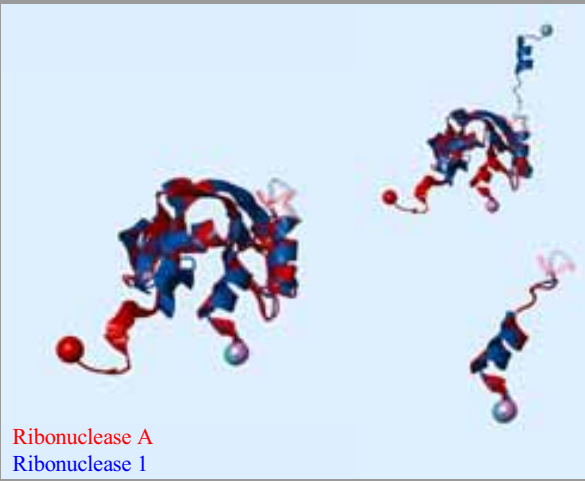
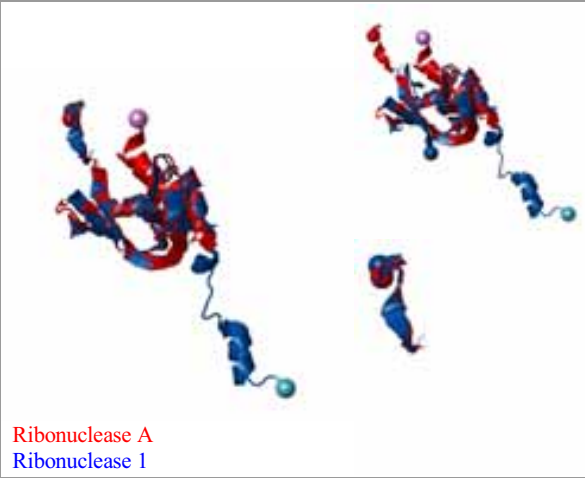
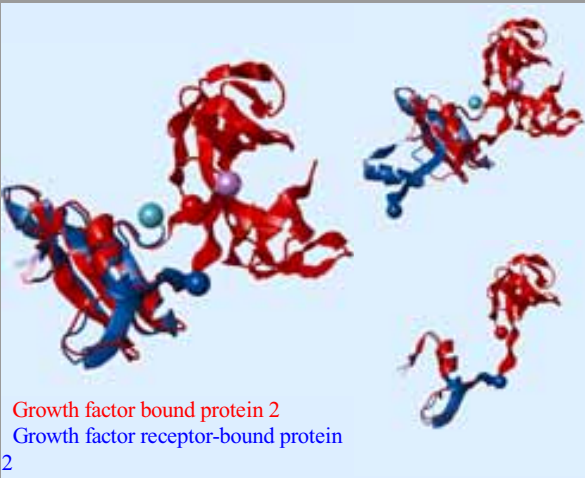
Ribonuclease A
Ribonuclease A

12	5rsaA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.57	0.91	100.00% (124/124)	81.45% (101/124)	 <p>Ribonuclease A Bovine seminal ribonuclease</p>
	lbrA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
13	1qmpA (126)	100-112 (13)	102-108 (7)	107-111 (5)	C	0.79	1.33	98.37% (121/123)	89.43% (110/123)	 <p>SPO0A Stage 0 sporulation protein a</p>
	1dz3A (123)	100-112 (13)	101-108 (8)	107-111 (5)						
14	1sncA (135)	112-120 (9)	112-120 (9)	112-120 (9)	C	0.87	0.93	100.00% (129/129)	99.22% (128/129)	 <p>Thermonuclease precursor Staphylococcal nuclease dimer</p>
	1sndA (129)	112-120 (9)	112-120 (9)	112-120 (9)						

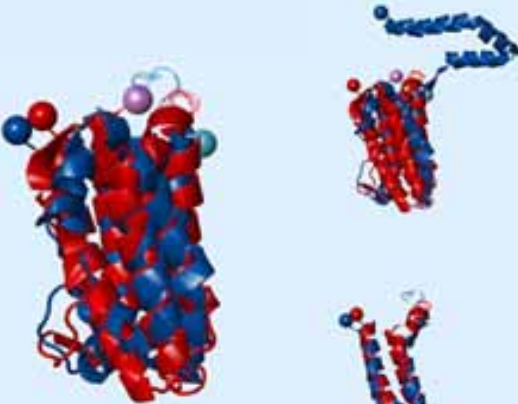
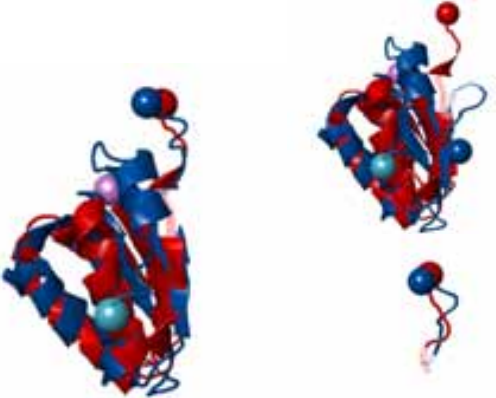
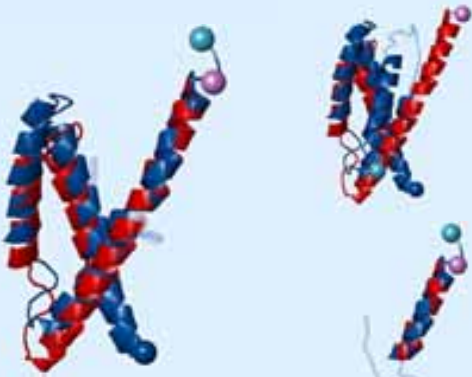
15	1wwwX (101)	296-299 (4)	296-299 (4)	296-298 (3)	N	0.92	0.68	100.00% (101/101)	100.00% (101/101)	 <p>Protein (TRKA receptor) Protein (nerve growth factor receptor TRKA)</p>
	1wwaX (105)	296-299 (4)	296-299 (4)	296-298 (3)						
16	1wwwX (101)	287-299 (13)	294-299 (6)	295-298 (4)	N	0.83	1.10	98.02% (99/101)	45.54% (46/101)	 <p>Protein (TRKA receptor) Protein (brain derived neurotrophic factor Re)</p>
	1wwbX (103)	288-301 (14)	296-301 (6)	295-298 (4)						
17	1wwwX (101)	295-300 (6)	295-300 (6)	296-297 (2)	N	0.62	1.13	96.04% (97/101)	41.58% (42/101)	 <p>Protein (TRKA receptor) Protein (NT-3 growth factor receptor TRKC)</p>
	1wwcA (105)	315-320 (6)	315-320 (6)	296-297 (2)						

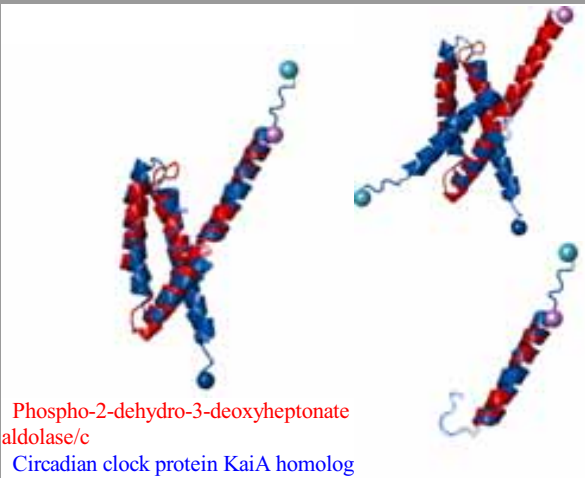
18	1dksA (76)	60-65 (6)	60-65 (6)	60-65 (6)	C	0.78	1.37	98.65% (73/74)	83.78% (62/74)	 <p>Cyclin dependent kinase subunit, TYPE 1 Cyclin-dependent kinase subunit, TYPE 2</p>
	1cksA (74)	60-65 (6)	60-65 (6)	60-65 (6)						
19	4gcrA (174)	44-96 (53)	82-92 (11)	86-87 (2)	N	0.77	1.30	98.28% (171/174)	36.78% (64/174)	 <p>Gamma-B crystallin Beta B2-crystallin</p>
	1blbA (185)	44-96 (53)	82-92 (11)	86-87 (2)						
20	1cewl (108)	53-60 (8)	54-57 (4)	55-57 (3)	N	0.55	1.45	96.30% (104/108)	39.81% (43/108)	 <p>Cystatin Cystatin C</p>
	1g96A (111)	55-62 (8)	56-59 (4)	55-57 (3)						

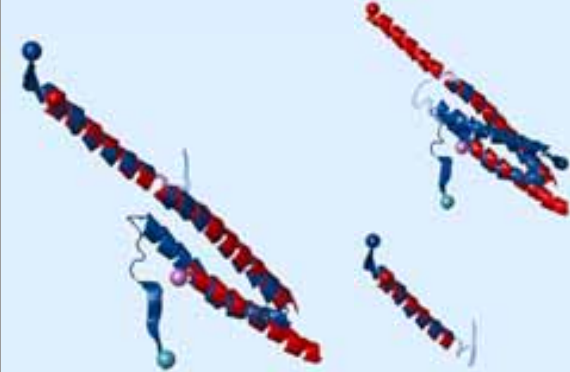
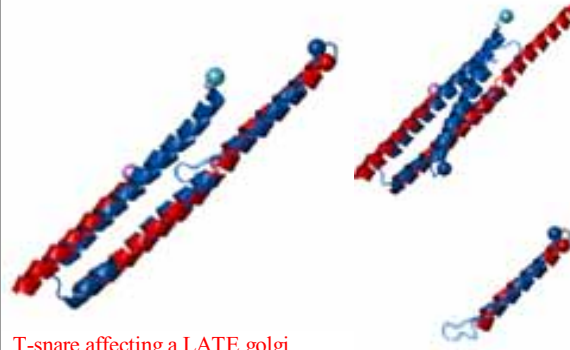
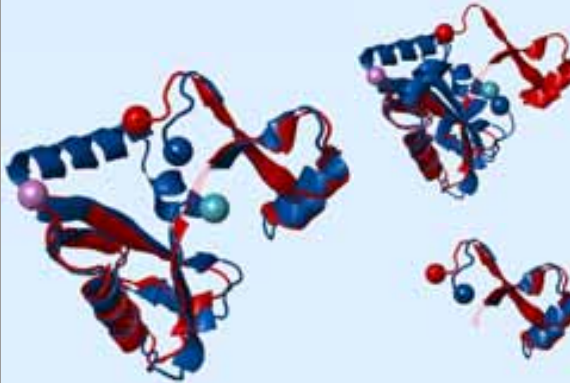
21	2gmfA (121)	85-101 (17)	87-101 (15)	87-97 (11)	C	0.43	2.26	87.04% (94/108)	10.19% (11/108)	 <p>Granulocyte-macrophage colony-stimulating FAC Interleukin-5</p>
	1hulA (108)	80-91 (12)	82-91 (10)	87-97 (11)						
22	1msbA (115)	150-170 (21), 173-194 (22)	158-168 (11), 182-194 (13)	161-168 (8), 182-193 (12)	M	0.57	1.64	91.30% (105/115)	13.04% (15/115)	 <p>Mannose-binding protein-a Coagulation factors IX/X-binding protein</p>
	1ixxA (129)	54-83 (30), 86-101 (16)	69-80 (12), 95-101 (7)	161-168 (8), 182-193 (12)						
23	1mupA (157)	125-134 (10)	126-130 (5)	126-130 (5)	C	0.60	1.92	92.36% (145/157)	24.84% (39/157)	 <p>Major urinary protein Odorant-binding protein</p>
	1obpA (158)	120-128 (9)	121-124 (4)	126-130 (5)						

24	1f0vA (124)	15-23 (9)	15-23 (9)	17-23 (7)	N	0.69	1.14	89.52% (111/124)	60.48% (75/124)	 Ribonuclease A Ribonuclease 1
	1h8xA (125)	115-123 (9)	115-123 (9)	17-23 (7)						
25	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.59	1.20	83.06% (103/124)	57.26% (71/124)	 Ribonuclease A Ribonuclease 1
	1h8xA (125)	211-213 (3)	211-213 (3)	112-113 (2)						
26	1griA (211)	121-126 (6)	121-124 (4)	121-123 (3)	C	0.28	1.35	100.00% (95/95)	100.00% (95/95)	 Growth factor bound protein 2 Growth factor receptor-bound protein 2
	1fyrA (95)	121-126 (6)	121-124 (4)	121-123 (3)						

27	1fynA (62)	112-132 (21)	112-119 (8)	112-118 (7)	C	0.69	1.10	90.00% (54/60)	26.67% (16/60)	 <p>Phosphotransferase FYN EPSS</p>
	1aojA (60)	34-52 (19)	34-40 (7)	112-118 (7)						
28	1k3sA (109)	12-40 (29)	27-32 (6)	27-28 (2)	N	0.56	1.75	98.17% (107/109)	12.84% (14/109)	 <p>SigE CesT</p>
	1k3eA (141)	16-49 (34)	34-40 (7)	27-28 (2)						
29	1cunA (213)	182-186 (5)	182-186 (5)	182-186 (5)	C	0.33	2.01	98.13% (105/107)	15.89% (17/107)	 <p>Protein (alpha spectrin) Spectrin</p>
	2spcA (107)	72-73 (2)	72-73 (2)	182-186 (5)						

30	1wu3I (161)	96-114 (19)	96-103 (8)	96-104 (9)	C	0.38	2.80	86.75% (131/151)	9.93% (15/151)	 Interferon beta Interleukin-10
	1ilkA (151)	107-118 (12)	107-112 (6)	96-104 (9)						
31	1vjqa (73)	57-72 (16)	58-72 (15)	67-68 (2)	C	0.42	2.55	98.63% (72/73)	9.59% (7/73)	 Designed protein Mesoderm development candidate 2
	2i9sA (97)	78-96 (19)	79-96 (18)	67-68 (2)						
32	2d8dA (80)	19-20 (2)	19-20 (2)	19-20 (2)	N	0.40	2.28	90.00% (72/80)	11.25% (9/80)	 Phospho-2-dehydro-3-deoxyheptonate aldolase/c Chorismate mutase
	2gtvX (104)	19-32 (14)	19-32 (14)	19-20 (2)						

33	2d8dA (80)	22-24 (3)	22-24 (3)	23-24 (2)	N	0.49	1.73	93.75% (75/80)	11.25% (9/80)	 <p>Phospho-2-dehydro-3-deoxyheptonate aldolase/c Circadian clock protein KaiA homolog</p>
	1q6aA (107)	27-36 (10)	27-36 (10)	23-24 (2)						
34	2c5jA (82)	61-72 (12)	62-65 (4)	63-64 (2)	C	0.78	0.89	98.78% (81/82)	62.20% (51/82)	 <p>T-snare affecting a LATE golgi compartment PR T-snare affecting a LATE golgi compartment PR</p>
	2c5iT (94)	61-77 (17)	62-70 (9)	63-64 (2)						
35	2c5jA (82)	63-64 (2)	63-64 (2)	63-64 (2)	C	0.58	1.74	100.00% (82/82)	15.85% (13/82)	 <p>T-snare affecting a LATE golgi compartment PR Syntaxin 6</p>
	1lvfA (106)	72-81 (10)	72-81 (10)	63-64 (2)						

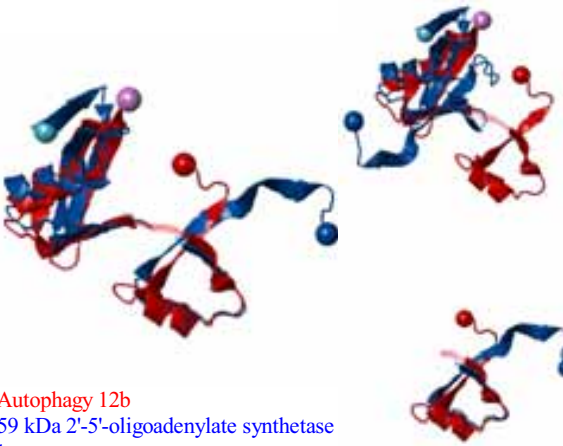
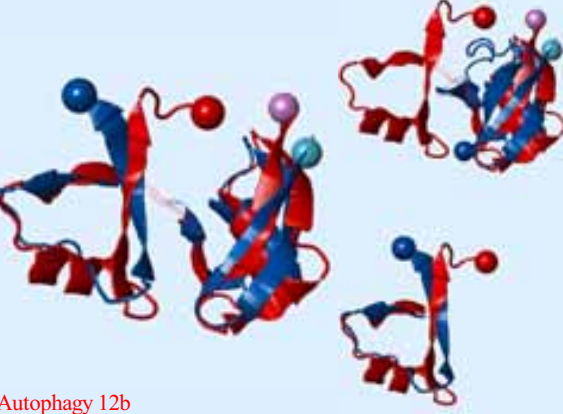
36	2c5jA (82)	70-72 (3)	70-72 (3)	70-72 (3)	C	0.41	1.75	89.02% (73/82)	7.32% (6/82)	 <p>T-snare affecting a LATE golgi compartment PR Mite allergen Blo t 5</p>
	2jmhA (117)	78-91 (14)	78-91 (14)	70-72 (3)						
37	2c5jA (82)	67-71 (5)	67-69 (3)	68-69 (2)	C	0.48	1.70	92.68% (76/82)	4.88% (4/82)	 <p>T-snare affecting a LATE golgi compartment PR BAG-family molecular chaperone regulator-1</p>
	1hx1B (112)	222-236 (15)	222-234 (13)	68-69 (2)						
38	1wz3A (84)	49-65 (17)	49-62 (14)	59-61 (3)	C	0.53	1.60	97.62% (82/84)	17.86% (15/84)	 <p>Autophagy 12b Gabarap</p>
	1gnuA (117)	69-86 (18)	69-83 (15)	59-61 (3)						

39	1wz3A (84)	50-63 (14)	50-62 (13)	59-62 (4)	C	0.53	1.46	95.24% (80/84)	17.86% (15/84)	 <p>Autophagy 12b Golgi-associated atpase enhancer OF 16 KD</p>
	leo6A (116)	70-84 (15)	70-83 (14)	59-62 (4)						
40	1wz3A (84)	49-61 (13)	51-61 (11)	59-61 (3)	C	0.56	1.35	94.05% (79/84)	21.43% (18/84)	 <p>Autophagy 12b Gamma-aminobutyric acid receptor- associated p</p>
	2r2qA (110)	68-82 (15)	70-82 (13)	59-61 (3)						
41	1wz3A (84)	49-67 (19)	52-67 (16)	57-67 (11)	C	0.45	2.31	89.29% (75/84)	10.71% (9/84)	 <p>Autophagy 12b Hypothetical protein ZK652.3</p>
	117yA (94)	50-70 (21)	53-70 (18)	57-67 (11)						

42	1wz3A (84)	51-64 (14)	52-64 (13)	58-62 (5)	C	0.25	2.33	89.29% (75/84)	5.95% (5/84)	 <p>Autophagy 12b Elongin B</p>
	1lm8B (106)	37-51 (15)	38-51 (14)	58-62 (5)						
43	1wz3A (84)	51-65 (15)	51-65 (15)	59-61 (3)	C	0.54	2.03	90.12% (73/81)	6.17% (5/81)	 <p>Autophagy 12b Small ubiquitin-related modifier 3 precursor</p>
	2io1B (81)	52-67 (16)	52-67 (16)	59-61 (3)						
44	1wz3A (84)	48-69 (22)	48-62 (15)	59-62 (4)	C	0.49	2.24	88.89% (72/81)	6.17% (5/81)	 <p>Autophagy 12b Ubiquitin-like protein 4A</p>
	2dziA (81)	41-62 (22)	41-55 (15)	59-62 (4)						

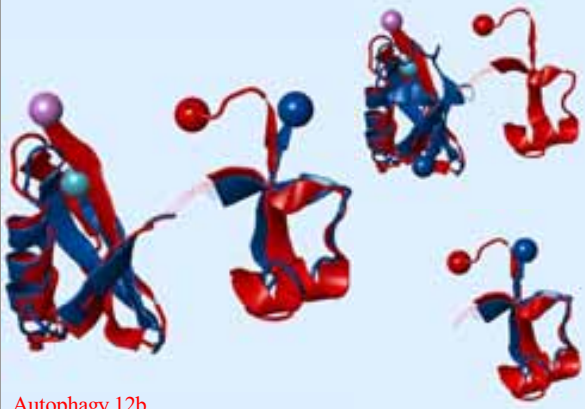
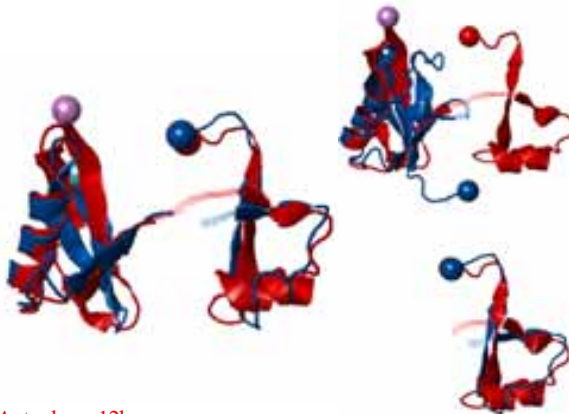
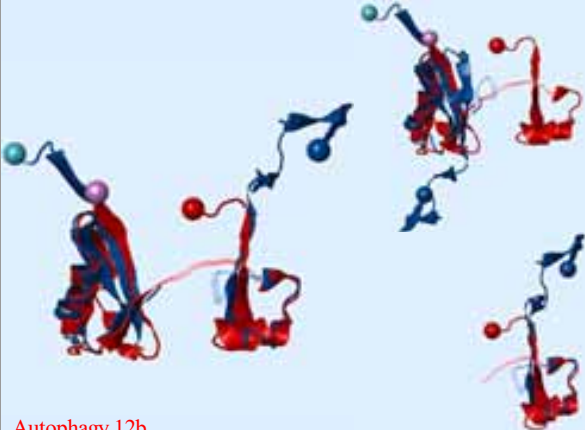
45	1wz3A (84)	54-65 (12)	54-65 (12)	59-61 (3)	C	0.41	2.20	86.90% (73/84)	1.19% (1/84)	 <p>Autophagy 12b NEDD8 ultimate buster-1</p>
	1wjuA (100)	60-70 (11)	60-70 (11)	59-61 (3)						
46	1wz3A (84)	52-70 (19)	52-61 (10)	58-61 (4)	C	0.32	2.15	84.52% (71/84)	9.52% (8/84)	 <p>Autophagy 12b Ubiquitin 3</p>
	1wx7A (106)	53-72 (20)	53-63 (11)	58-61 (4)						
47	1wz3A (84)	49-64 (16)	56-64 (9)	59-61 (3)	C	0.41	1.93	83.33% (70/84)	4.76% (4/84)	 <p>Autophagy 12b Ubiquitin family</p>
	1se9A (101)	42-65 (24)	58-65 (8)	59-61 (3)						

48	1wz3A (84)	49-70 (22)	49-70 (22)	58-66 (9)	C	0.32	2.41	88.10% (74/84)	9.52% (8/84)	 <p>Autophagy 12b KIAA0794 protein</p>
	1wj4A (124)	77-103 (27)	77-103 (27)	58-66 (9)						
49	1wz3A (84)	51-66 (16)	56-62 (7)	59-62 (4)	C	0.44	2.34	85.71% (72/84)	5.95% (5/84)	 <p>Autophagy 12b Ubiquitin 3</p>
	1yqbA (88)	56-72 (17)	63-68 (6)	59-62 (4)						
50	1wz3A (84)	50-62 (13)	57-62 (6)	59-62 (4)	C	0.55	1.94	91.14% (72/79)	10.13% (8/79)	 <p>Autophagy 12b Ubiquitin-LIKE protein SMT3</p>
	1euvB (79)	57-70 (14)	66-70 (5)	59-62 (4)						

51	1wz3A (84)	43-61 (19)	50-61 (12)	59-61 (3)	C	0.45	2.31	85.71% (72/84)	3.57% (3/84)	 <p>Autophagy 12b 59 kDa 2'-5'-oligoadenylate synthetase like p</p>
	1wh3A (87)	35-54 (20)	42-54 (13)	59-61 (3)						
52	1wz3A (84)	48-68 (21)	49-61 (13)	58-61 (4)	C	0.49	2.41	95.89% (70/73)	10.96% (8/73)	 <p>Autophagy 12b Protein YNR032c-a</p>
	1m94A (73)	34-55 (22)	35-48 (14)	58-61 (4)						
53	1wz3A (84)	47-69 (23)	57-65 (9)	57-61 (5)	C	0.44	2.30	85.71% (72/84)	11.90% (10/84)	 <p>Autophagy 12b Ubiquitin-fold modifier 1</p>
	1wxsA (88)	39-62 (24)	50-58 (9)	57-61 (5)						

54	1wz3A (84)	50-65 (16)	50-65 (16)	59-61 (3)	C	0.43	2.34	85.19% (69/81)	9.88% (8/81)	 <p>Autophagy 12b Ubiquitin</p>
	2gbjA (81)	43-59 (17)	43-59 (17)	59-61 (3)						
55	1wz3A (84)	52-69 (18)	56-65 (10)	59-63 (5)	C	0.36	2.09	84.52% (71/84)	5.95% (5/84)	 <p>Autophagy 12b Splicing factor, putative</p>
	1we6A (111)	68-86 (19)	74-82 (9)	59-63 (5)						
56	1wz3A (84)	47-93 (47)	48-93 (46)	59-62 (4)	C	0.35	2.31	85.71% (72/84)	9.52% (8/84)	 <p>Autophagy 12b Ubiquitin</p>
	2ojrA (110)	132-175 (44)	134-175 (42)	59-62 (4)						

57	1wz3A (84)	49-69 (21)	57-68 (12)	58-65 (8)	C	0.52	2.08	90.48% (76/84)	8.33% (7/84)	 <p>Autophagy 12b Tubulin folding cofactor B</p>
	1t0yA (90)	39-67 (29)	49-66 (18)	58-65 (8)						
58	1wz3A (84)	50-65 (16)	50-65 (16)	59-61 (3)	C	0.46	2.25	85.37% (70/82)	8.54% (7/82)	 <p>Autophagy 12b Ubiquitin</p>
	2gbkA (82)	42-58 (17)	42-58 (17)	59-61 (3)						
59	1wz3A (84)	49-69 (21)	49-66 (18)	58-62 (5)	C	0.50	2.19	91.03% (71/78)	6.41% (5/78)	 <p>Autophagy 12b Nfatc2-interacting protein</p>
	2jxxA (78)	60-81 (22)	60-78 (19)	58-62 (5)						

60	1wz3A (84)	49-69 (21)	57-62 (6)	59-61 (3)	C	0.52	2.22	97.18% (69/71)	8.45% (6/71)	 <p>Autophagy 12b Ubiquitin</p>
	IsifA (71)	34-55 (22)	44-48 (5)	59-61 (3)						
61	1wz3A (84)	47-69 (23)	51-62 (12)	59-62 (4)	C	0.48	2.55	96.05% (73/76)	7.89% (6/76)	 <p>Autophagy 12b Protein (ubiquitin CORE mutant 1D7)</p>
	1ud7A (76)	32-55 (24)	36-48 (13)	59-62 (4)						
62	1wz3A (84)	45-65 (21)	47-65 (19)	58-64 (7)	C	0.38	2.19	83.33% (70/84)	2.38% (2/84)	 <p>Autophagy 12b FAS-associated factor 1</p>
	2dzmA (100)	38-60 (23)	40-60 (21)	58-64 (7)						

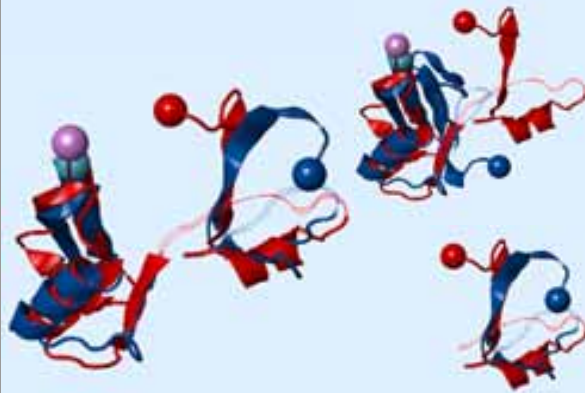
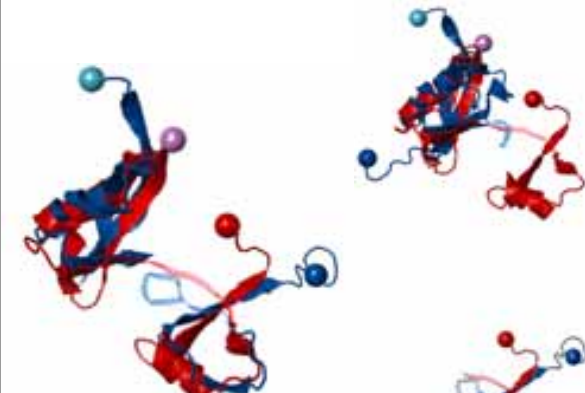
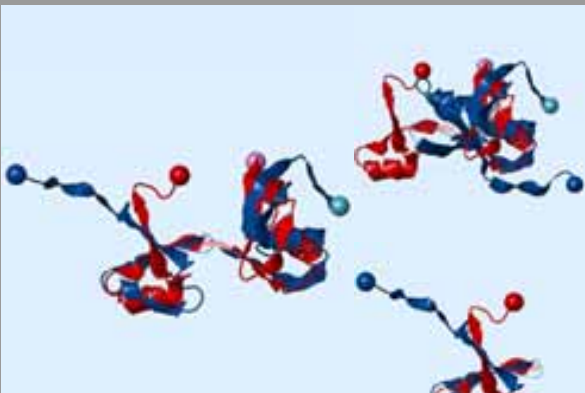
63	1wz3A (84)	48-93 (46)	49-61 (13)	59-61 (3)	C	0.41	2.51	84.52% (71/84)	8.33% (7/84)	 <p>Autophagy 12b HLA-B associated transcript-3 isoform b</p>
	1wx9A (86)	40-86 (47)	41-54 (14)	59-61 (3)						
64	1wz3A (84)	42-73 (32)	60-71 (12)	60-63 (4)	C	0.42	2.19	88.10% (74/84)	7.14% (6/84)	 <p>Autophagy 12b KIAA0049 protein</p>
	1wj6A (101)	42-77 (36)	60-75 (16)	60-63 (4)						
65	1wz3A (84)	47-89 (43)	51-61 (11)	58-61 (4)	C	0.53	2.21	97.26% (71/73)	8.22% (6/73)	 <p>Autophagy 12b Ubiquitin-like 5</p>
	1p0rA (73)	33-72 (40)	37-48 (12)	58-61 (4)						

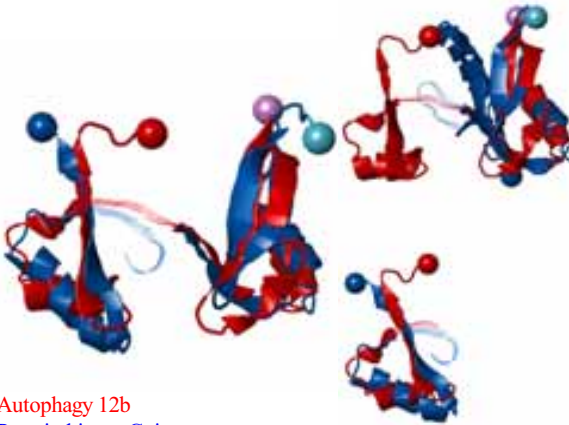
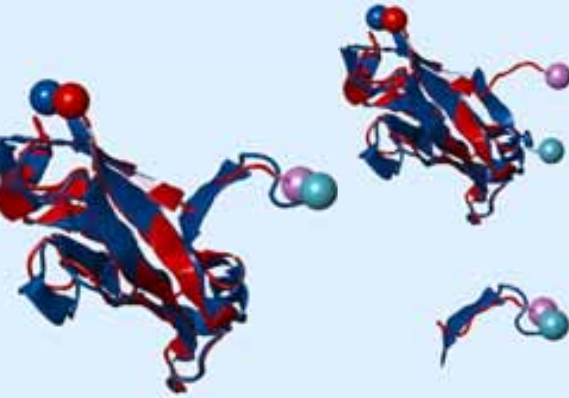
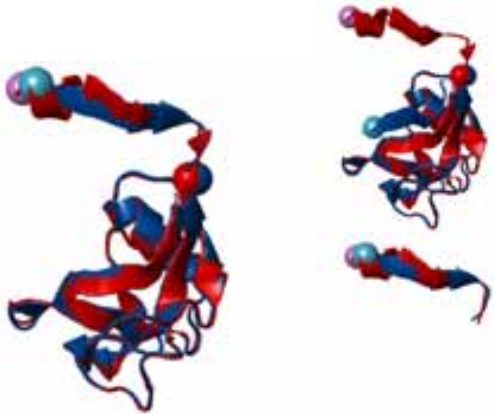
66	1wz3A (84)	51-69 (19)	56-69 (14)	59-62 (4)	C	0.51	2.33	94.81% (73/77)	7.79% (6/77)	 <p>Autophagy 12b Ubiquitin-like containing PHD and RING finger</p>
	2fazA (77)	38-57 (20)	45-57 (13)	59-62 (4)						
67	1wz3A (84)	48-69 (22)	60-69 (10)	60-62 (3)	C	0.35	2.89	90.48% (76/84)	11.90% (10/84)	 <p>Autophagy 12b Dual specificity mitogen-activated protein ki</p>
	2nptA (102)	51-77 (27)	64-77 (14)	60-62 (3)						
68	1wz3A (84)	46-90 (45)	48-69 (22)	51-64 (14)	C	0.35	2.67	83.33% (70/84)	10.71% (9/84)	 <p>Autophagy 12b Protein (RA-domain OF RAL guanine dissociat</p>
	1raxA (93)	62-114 (53)	66-94 (29)	51-64 (14)						

69	1wz3A (84)	49-72 (24)	49-69 (21)	60-63 (4)	C	0.37	2.44	86.90% (73/84)	4.76% (4/84)	 <p>Autophagy 12b Mitogen-activated protein kinase kinase kinas</p>
	2cu1A (103)	41-66 (26)	41-63 (23)	60-63 (4)						
70	1wz3A (84)	49-71 (23)	49-71 (23)	59-62 (4)	C	0.49	2.22	89.87% (71/79)	5.06% (4/79)	 <p>Autophagy 12b Ubiquitin-like protein SMT3A</p>
	1u4aA (79)	50-71 (22)	50-71 (22)	59-62 (4)						
71	1wz3A (84)	51-62 (13)	51-62 (12)	59-62 (4)	C	0.47	2.38	92.11% (70/76)	9.21% (7/76)	 <p>Autophagy 12b Protein (1D8 ubiquitin)</p>
	1c3tA (76)	36-48 (13)	36-48 (13)	59-62 (4)						

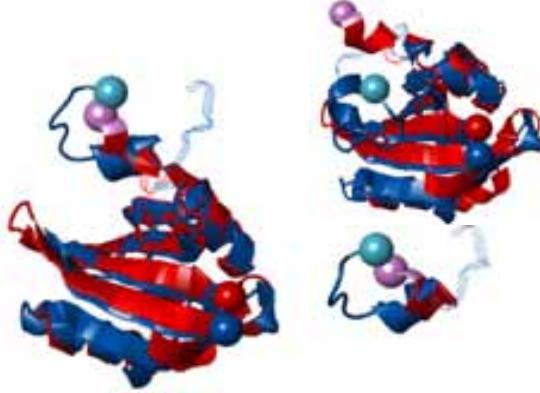
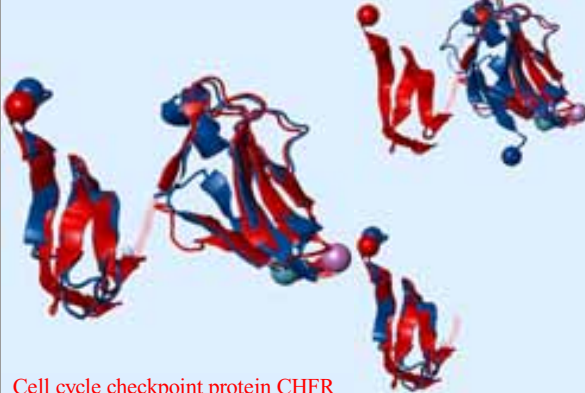
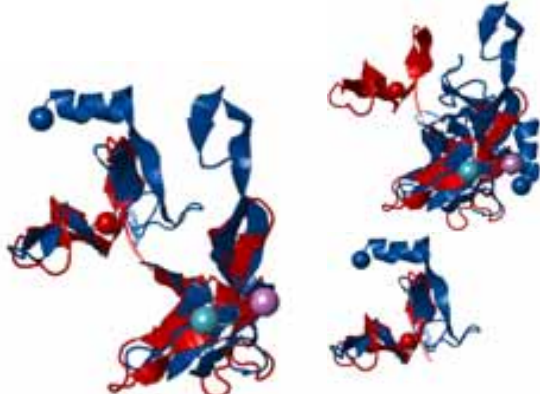
72	1wz3A (84)	48-65 (18)	50-61 (12)	58-61 (4)	C	0.48	2.40	93.42% (71/76)	9.21% (7/76)	 <p>Autophagy 12b Ubiquitin</p>
	2jwzA (76)	33-51 (19)	35-47 (13)	58-61 (4)						
73	1wz3A (84)	48-69 (22)	48-69 (22)	59-69 (11)	C	0.30	2.93	90.48% (76/84)	8.33% (7/84)	 <p>Autophagy 12b Phospholipase C, epsilon 1</p>
	2byfA (116)	42-87 (46)	42-87 (46)	59-69 (11)						
74	1wz3A (84)	51-69 (19)	57-69 (13)	59-63 (5)	C	0.41	2.63	89.29% (75/84)	8.33% (7/84)	 <p>Autophagy 12b Mitogen-activated protein kinase kinase kinases</p>
	2jrhA (93)	37-58 (22)	43-58 (16)	59-63 (5)						

75	1wz3A (84)	48-59 (12)	48-59 (12)	48-59 (12)	C	0.33	2.54	76.54% (62/81)	11.11% (9/81)	 <p>Autophagy 12b YUKD protein</p>
	2bpsA (81)	38-56 (19)	38-56 (19)	48-59 (12)						
76	1wz3A (84)	48-69 (22)	48-64 (17)	58-64 (7)	C	0.43	2.62	88.10% (74/84)	8.33% (7/84)	 <p>Autophagy 12b Ralgds</p>
	1lfdA (87)	54-82 (29)	54-77 (24)	58-64 (7)						
77	1wz3A (84)	48-69 (22)	59-69 (11)	59-63 (5)	C	0.47	2.51	90.24% (74/82)	10.98% (9/82)	 <p>Autophagy 12b Partitioning defective-6 homolog alpha</p>
	1wmhB (82)	51-76 (26)	62-76 (15)	59-63 (5)						

78	1wz3A (84)	50-68 (19)	50-68 (19)	58-66 (9)	C	0.43	2.55	90.79% (69/76)	11.84% (9/76)	 <p>Autophagy 12b TUG long isoform</p>
	2al3A (76)	44-63 (20)	44-63 (20)	58-66 (9)						
79	1wz3A (84)	34-93 (60)	50-66 (17)	58-63 (6)	C	0.39	2.43	85.71% (72/84)	9.52% (8/84)	 <p>Autophagy 12b Cytoskeleton-associated protein 1</p>
	1v6eA (95)	27-95 (69)	43-67 (25)	58-63 (6)						
80	1wz3A (84)	48-65 (18)	48-59 (12)	58-59 (2)	C	0.37	2.71	86.90% (73/84)	9.52% (8/84)	 <p>Autophagy 12b Protein C12orf2</p>
	2cs4A (95)	41-61 (21)	41-55 (15)	58-59 (2)						

81	1wz3A (84)	46-69 (24)	48-69 (22)	59-62 (4)	C	0.42	2.54	86.90% (73/84)	8.33% (7/84)	 <p>Autophagy 12b Protein kinase C, iota type</p>
	1vd2A (89)	46-76 (31)	50-76 (27)	59-62 (4)						
82	1zvnA (99)	1-23 (23)	1-7 (7)	7-7 (1)	N	0.40	1.64	95.96% (95/99)	28.28% (28/99)	 <p>MN-cadherin Epithelial-cadherin</p>
	2omwB (105)	-1-23 (25)	-1-7 (9)	7-7 (1)						
83	2oyaA (102)	426-431 (6)	426-431 (6)	429-430 (2)	N	0.67	0.45	100.00% (98/98)	97.96% (96/98)	 <p>Macrophage receptor marco Macrophage receptor marco</p>
	2oy3A (98)	426-431 (6)	426-431 (6)	429-430 (2)						

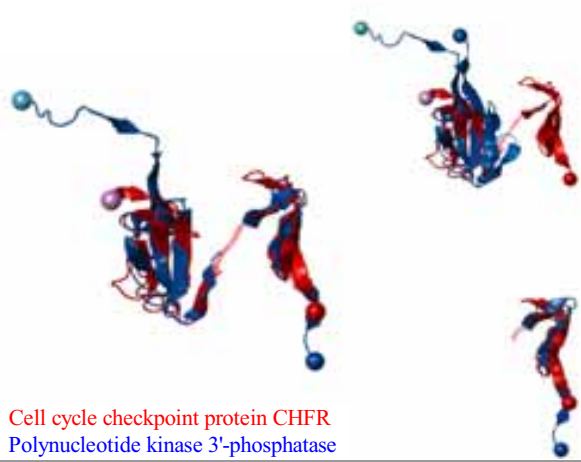
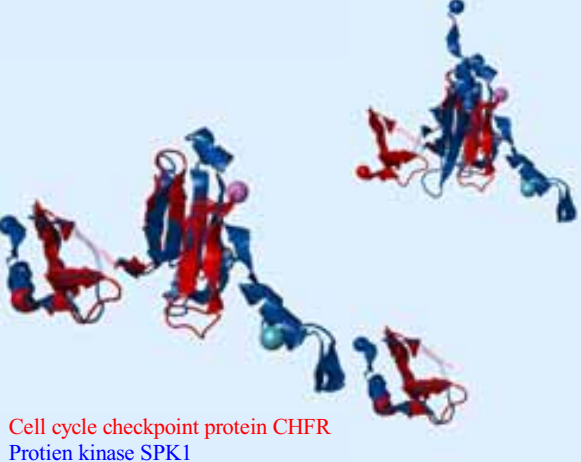
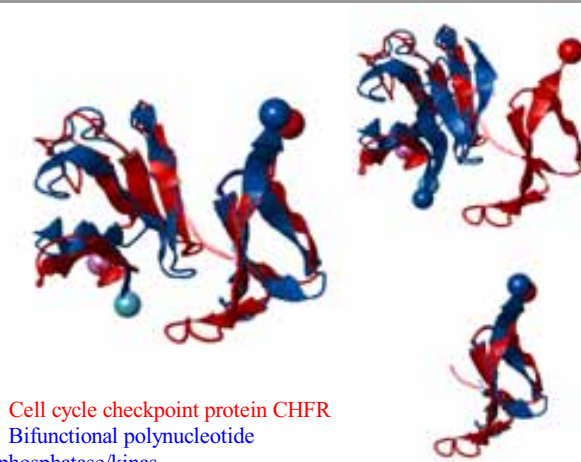
84	2oyaA (102)	428-431 (4)	428-431 (4)	428-430 (3)	N	0.50	1.18	99.02% (101/102)	47.06% (48/102)	 <p>Macrophage receptor marco MAC-2 binding protein</p>
	1by2A (112)	11-16 (6)	11-16 (6)	428-430 (3)						
85	1v9yA (103)	28-34 (7)	28-29 (2)	29-29 (1)	N	0.26	2.15	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Vivid PAS protein VVD</p>
	2pd7A (149)	56-74 (19)	56-69 (14)	29-29 (1)						
86	1v9yA (103)	25-27 (3)	25-27 (3)	26-26 (1)	N	0.54	1.93	96.12% (99/103)	14.56% (15/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1f98A (125)	14-24 (11)	14-24 (11)	26-26 (1)						

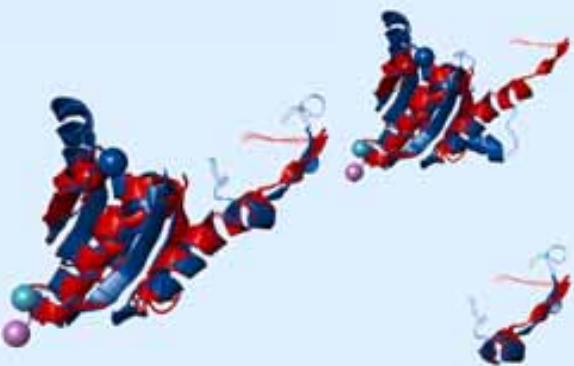
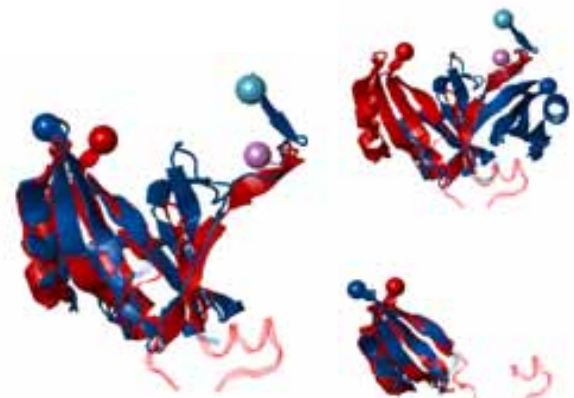

87	1v9yA (103)	25-27 (3)	25-26 (2)	25-26 (2)	N	0.50	2.12	93.20% (96/103)	16.50% (17/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1d7eA (119)	15-24 (10)	15-23 (9)	25-26 (2)						
88	1lgqA (112)	85-94 (10)	85-94 (10)	85-88 (4)	C	0.57	1.75	89.29% (100/112)	24.11% (27/112)	 <p>Cell cycle checkpoint protein CHFR Serine/threonine-protein kinase CHK2</p>
	1gxcA (116)	171-180 (10)	171-180 (10)	85-88 (4)						
89	1lgqA (112)	64-103 (40)	77-101 (25)	85-88 (4)	C	0.41	2.14	92.86% (104/112)	16.96% (19/112)	 <p>Cell cycle checkpoint protein CHFR Protein (protein kinase SPK1)</p>
	1dmzA (158)	626-678 (53)	652-676 (25)	85-88 (4)						

90	1lgqA (112)	84-102 (19)	85-97 (13)	85-88 (4)	C	0.46	1.89	91.07% (102/112)	24.11% (27/112)	 <p>Cell cycle checkpoint protein CHFR Ubiquitin ligase protein RNF8</p>
	2cswA (145)	87-105 (19)	88-100 (13)	85-88 (4)						
91	1lgqA (112)	64-100 (37)	85-95 (11)	85-87 (3)	C	0.57	1.98	96.00% (96/100)	28.00% (28/100)	 <p>Cell cycle checkpoint protein CHFR Antigen Ki-67</p>
	1r21A (100)	52-85 (34)	72-80 (9)	85-87 (3)						
92	1lgqA (112)	74-116 (43)	85-101 (17)	85-88 (4)	C	0.53	1.70	85.71% (96/112)	21.43% (24/112)	 <p>Cell cycle checkpoint protein CHFR Expressed protein</p>
	luhtA (118)	69-105 (37)	81-97 (17)	85-88 (4)						

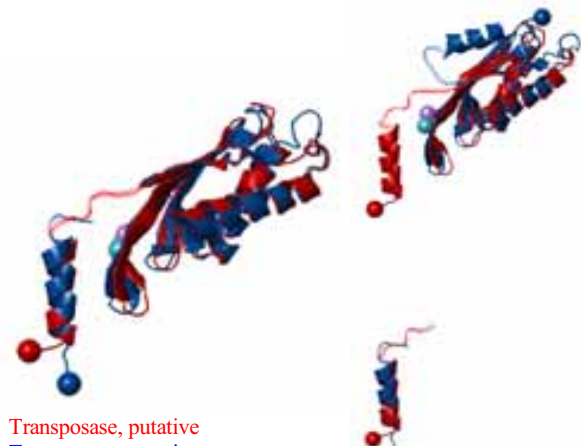
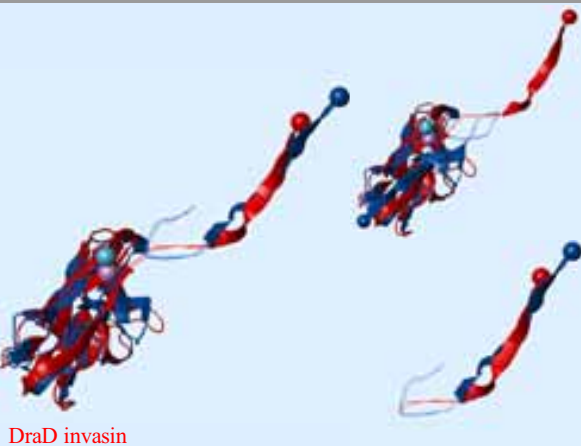
93	1lgqA (112)	75-123 (49)	76-87 (12)	84-87 (4)	C	0.44	2.27	90.18% (101/112)	17.86% (20/112)	 <p>Cell cycle checkpoint protein CHFR Nuclear inhibitor of protein phosphatase 1</p>
	2jpeA (132)	86-129 (44)	87-99 (13)	84-87 (4)						
94	1lgqA (112)	63-95 (33)	84-95 (12)	85-88 (4)	C	0.52	1.97	89.29% (100/112)	14.29% (16/112)	 <p>Cell cycle checkpoint protein CHFR Afadin</p>
	1wlnA (120)	64-93 (30)	84-93 (10)	85-88 (4)						
95	1lgqA (112)	77-97 (21)	85-97 (13)	85-87 (3)	C	0.56	1.75	90.29% (93/103)	17.48% (18/103)	 <p>Cell cycle checkpoint protein CHFR Kinesin-like protein KIF1C</p>
	2g11A (103)	563-581 (19)	571-581 (11)	85-87 (3)						

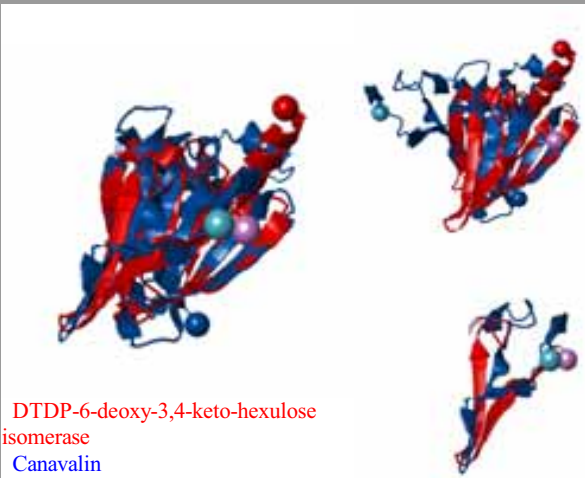
96	1lgqA (112)	83-95 (13)	85-95 (11)	85-87 (3)	C	0.49	2.02	91.96% (103/112)	24.11% (27/112)	 <p>Cell cycle checkpoint protein CHFR E3 ubiquitin-protein ligase RNF8</p>
	2pieA (132)	86-98 (13)	88-98 (11)	85-87 (3)						
97	1lgqA (112)	15-123 (109)	85-99 (15)	85-88 (4)	C	0.46	1.94	87.50% (98/112)	18.75% (21/112)	 <p>Cell cycle checkpoint protein CHFR Kinesin-like protein KIF1B</p>
	2eh0A (130)	7-114 (108)	85-97 (13)	85-88 (4)						
98	1lgqA (112)	84-98 (15)	84-98 (15)	84-87 (4)	C	0.45	2.48	89.52% (94/105)	16.19% (17/105)	 <p>Cell cycle checkpoint protein CHFR 5' polynucleotide kinase-3' phosphatase FHA d</p>
	1yj5C (105)	74-88 (15)	74-88 (15)	84-87 (4)						

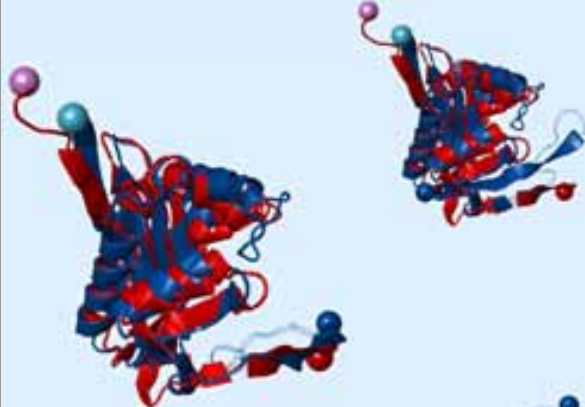
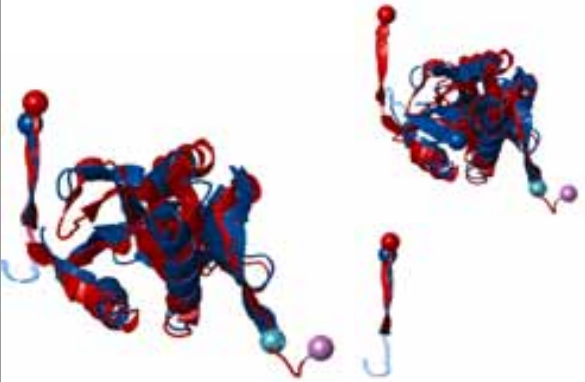
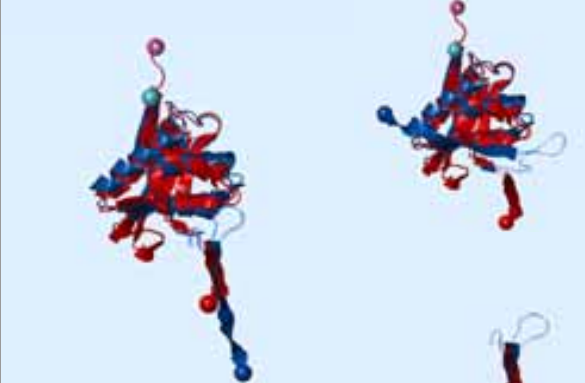
99	1lgqA (112)	15-99 (85)	78-98 (21)	84-87 (4)	C	0.40	2.29	82.14% (92/112)	15.18% (17/112)	 <p>Cell cycle checkpoint protein CHFR Polynucleotide kinase 3'-phosphatase</p>
	1ujxA (119)	15-96 (82)	75-95 (21)	84-87 (4)						
100	1lgqA (112)	76-116 (41)	85-97 (13)	85-89 (5)	C	0.36	2.41	92.86% (104/112)	24.11% (27/112)	 <p>Cell cycle checkpoint protein CHFR Protein kinase SPK1</p>
	1g3gA (164)	103-141 (39)	112-124 (13)	85-89 (5)						
101	1lgqA (112)	80-98 (19)	85-96 (12)	84-88 (5)	C	0.46	2.37	91.00% (91/100)	18.00% (18/100)	 <p>Cell cycle checkpoint protein CHFR Bifunctional polynucleotide phosphatase/kinase</p>
	2brfA (100)	70-88 (19)	75-86 (12)	84-88 (5)						

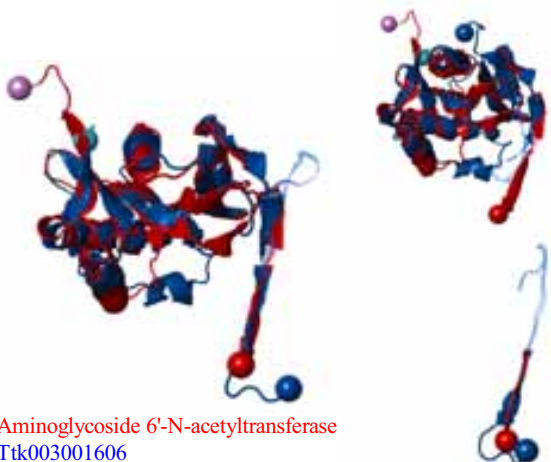
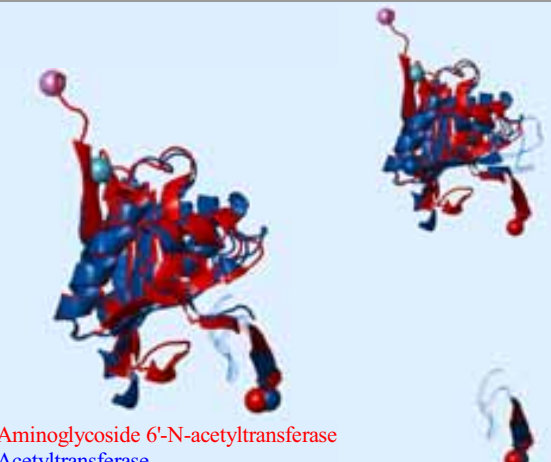
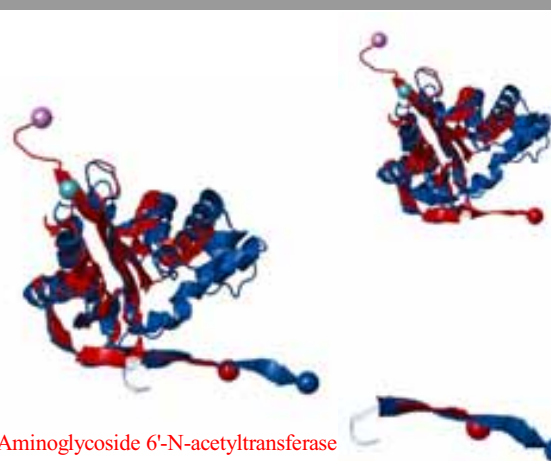
102	2pfsA (125)	41-63 (23), 68-69 (2)	42-62 (21), 68-69 (2)	42-57 (16), 68-69 (2)	M	0.41	1.71	95.20% (119/125)	27.20% (34/125)	 Universal stress protein Universal stress protein a
	1jmvA (140)	39-52 (14), 57-64 (8)	40-51 (12), 57-64 (8)	42-57 (16), 68-69 (2)						
103	2qntA (125)	47-75 (29)	47-75 (29)	47-70 (24)	C	0.41	2.24	81.60% (102/125)	12.00% (15/125)	 Uncharacterized protein Atu1872 Uncharacterized protein
	2r6uA (130)	65-76 (12)	65-76 (12)	47-70 (24)						
104	2qntA (125)	22-72 (51)	38-72 (35)	63-71 (9)	N	0.26	2.23	87.20% (109/125)	11.20% (14/125)	 Uncharacterized protein Atu1872 Lactoylglutathione lyase
	2qh0A (129)	24-78 (55)	46-78 (33)	63-71 (9)						

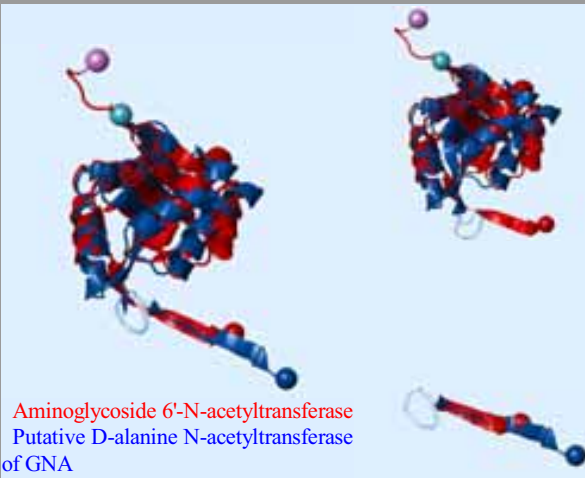
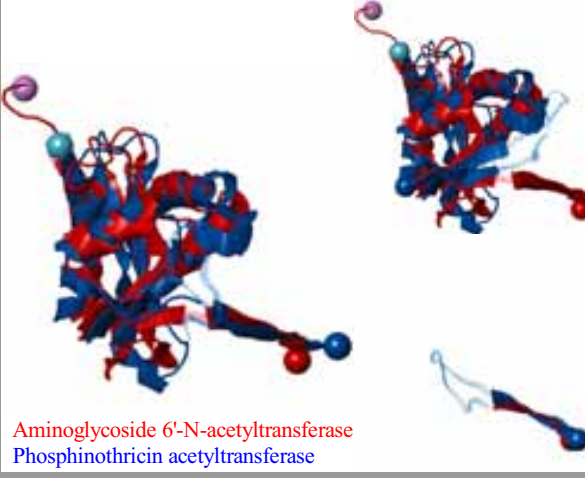
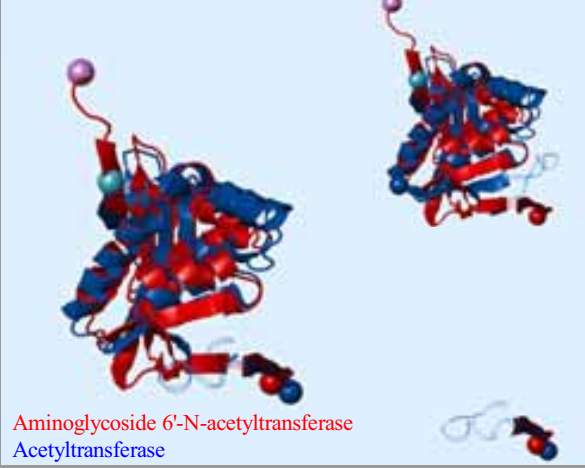
105	2rbbA (129)	61-106 (46)	76-105 (30)	85-104 (20)	N	0.45	2.08	85.27% (110/129)	14.73% (19/129)	 <p>Glyoxalase/bleomycin resistance protein/dioxy Uncharacterized protein</p>
	2r6uA (130)	30-73 (44)	44-72 (29)	85-104 (20)						
106	2rbbA (129)	55-115 (61)	72-104 (33)	85-104 (20)	C	0.51	2.05	86.82% (112/129)	10.08% (13/129)	 <p>Glyoxalase/bleomycin resistance protein/dioxy Lactoylglutathione lyase</p>
	2qh0A (129)	24-84 (61)	45-76 (32)	85-104 (20)						
107	2p7oA (127)	30-69 (40)	59-69 (11)	59-67 (9)	C	0.42	2.07	79.53% (101/127)	13.39% (17/127)	 <p>Glyoxalase family protein Uncharacterized protein</p>
	2r6uA (130)	30-72 (43)	65-72 (8)	59-67 (9)						


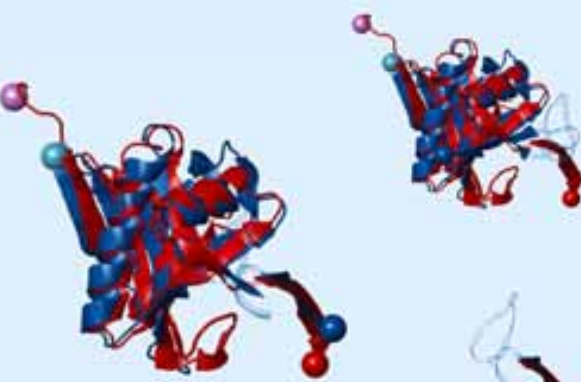
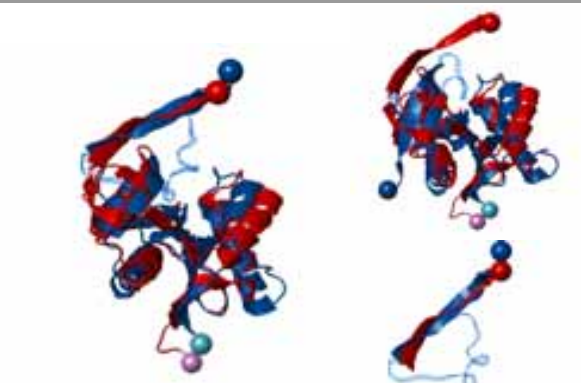
108	2p7oA (127)	24-70 (47)	55-68 (14)	58-68 (11)	N	0.39	2.06	83.46% (106/127)	11.81% (15/127)	 <p>Glyoxalase family protein Lactoylglutathione lyase</p>
	2qh0A (129)	24-78 (55)	54-76 (23)	58-68 (11)						
109	2f5gA (130)	109-116 (8)	109-116 (8)	109-116 (8)	C	0.75	1.46	96.15% (125/130)	34.62% (45/130)	 <p>Transposase, putative Transposase, putative</p>
	2fyxA (130)	111-115 (5)	111-115 (5)	109-116 (8)						
110	2axwA (134)	110-132 (23)	110-132 (23)	117-122 (6)	C	0.51	2.54	96.27% (129/134)	79.85% (107/134)	 <p>DraD invasin Protein afaD</p>
	2fvnA (142)	111-138 (28)	111-138 (28)	117-122 (6)						

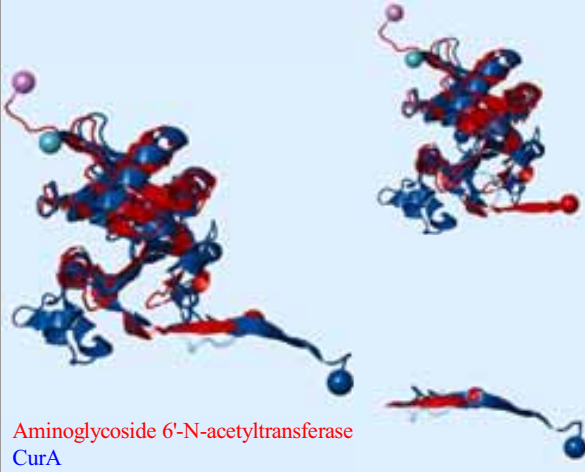
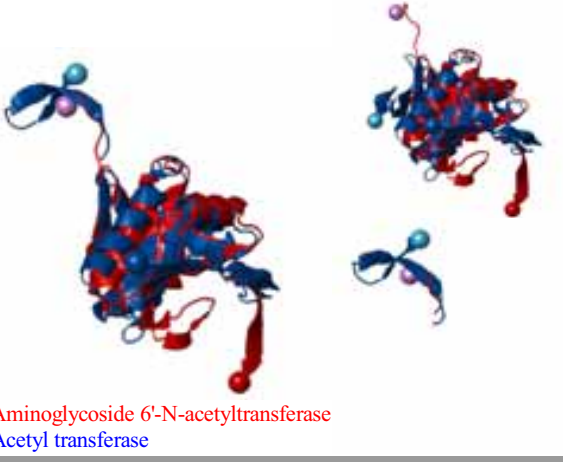
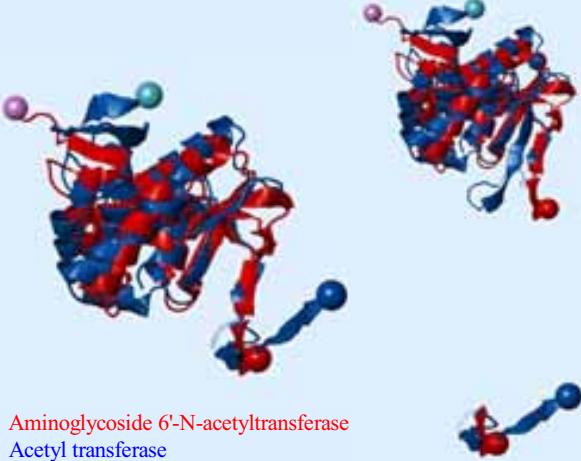
111	2pa7A (135)	12-32 (21)	15-32 (18)	30-32 (3)	N	0.30	2.26	83.70% (113/135)	11.11% (15/135)	 <p>DTDP-6-deoxy-3,4-keto-hexulose isomerase Canavalin</p>
	1cauA (181)	59-86 (28)	64-86 (23)	30-32 (3)						
112	2pa7A (135)	2-57 (56)	2-48 (47)	22-32 (11)	N	0.40	2.17	79.26% (107/135)	8.89% (12/135)	 <p>DTDP-6-deoxy-3,4-keto-hexulose isomerase Hypothetical protein Atu3615</p>
	1znpA (140)	4-64 (61)	4-55 (52)	22-32 (11)						
113	2pa7A (135)	3-32 (30)	20-32 (13)	30-32 (3)	N	0.38	2.39	88.15% (119/135)	11.85% (16/135)	 <p>DTDP-6-deoxy-3,4-keto-hexulose isomerase Auxin binding protein 1</p>
	1lr5A (160)	8-41 (34)	29-41 (13)	30-32 (3)						

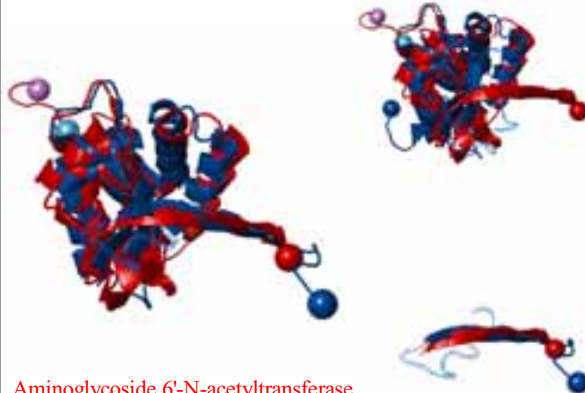
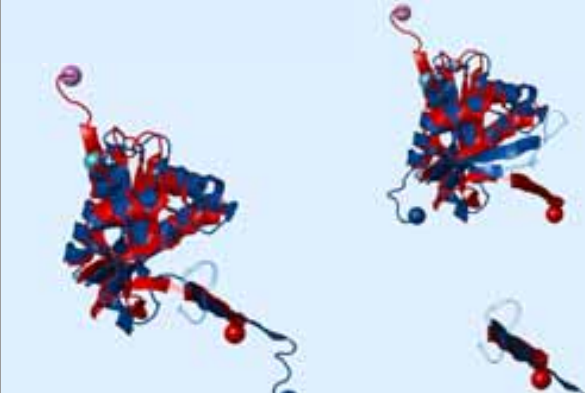
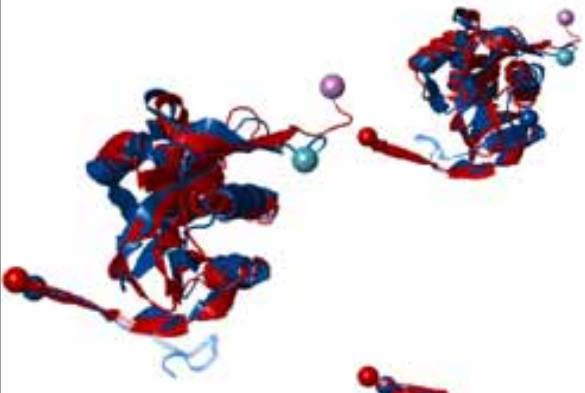
114	1s60A (152)	130-144 (15)	135-138 (4)	137-137 (1)	C	0.49	2.15	91.45% (139/152)	10.53% (16/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase, GNAT family</p>
	2i79A (171)	142-166 (25)	147-160 (14)	137-137 (1)						
115	1s60A (152)	129-139 (11)	131-139 (9)	138-138 (1)	C	0.50	2.37	91.45% (139/152)	8.55% (13/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Hypothetical protein PH1933</p>
	1wwzA (157)	138-152 (15)	139-152 (14)	138-138 (1)						
116	1s60A (152)	137-144 (8)	137-144 (8)	137-138 (2)	C	0.46	1.97	86.75% (131/151)	14.57% (22/151)	 <p>Aminoglycoside 6'-N-acetyltransferase Modification OF 30S ribosomal subunit protein</p>
	2cnmA (151)	125-144 (20)	125-144 (20)	137-138 (2)						

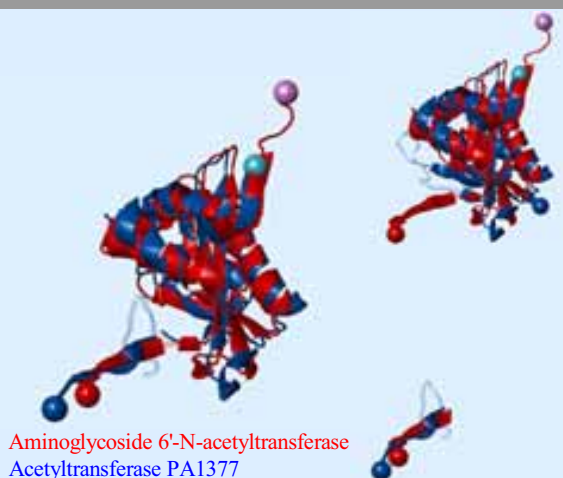
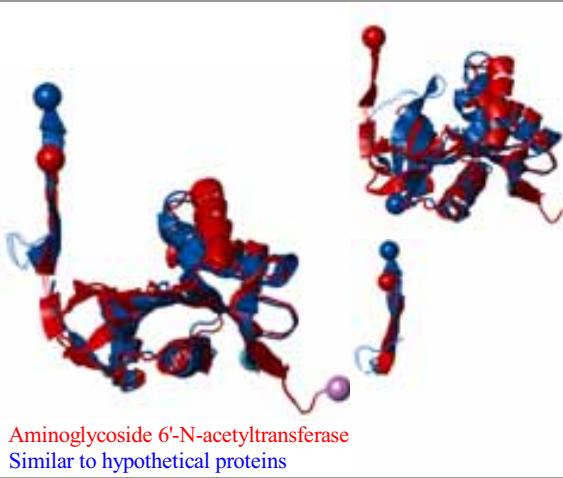
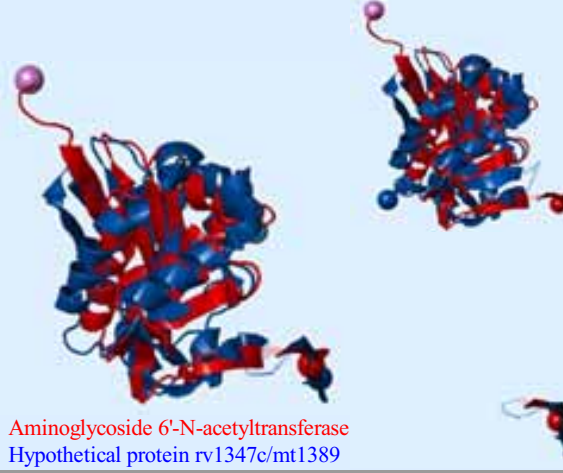
117	1s60A (152)	127-144 (18)	139-144 (6)	139-139 (1)	C	0.55	1.87	93.42% (142/152)	17.11% (26/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Ttk003001606</p>
	1wk4A (174)	140-171 (32)	152-171 (20)	139-139 (1)						
118	1s60A (152)	136-144 (9)	136-140 (5)	138-138 (1)	C	0.50	1.96	89.47% (136/152)	15.13% (23/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase</p>
	1gheA (170)	150-172 (23)	150-168 (19)	138-138 (1)						
119	1s60A (152)	128-144 (17)	139-140 (2)	139-139 (1)	C	0.40	2.27	88.16% (134/152)	13.16% (20/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase, GNAT family</p>
	1u6mA (189)	165-185 (21)	176-181 (6)	139-139 (1)						

120	1s60A (152)	135-144 (10)	137-143 (7)	139-139 (1)	C	0.52	2.18	90.79% (138/152)	15.13% (23/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Putative D-alanine N-acetyltransferase of GNA</p>
	2r7hA (157)	155-171 (17)	157-170 (14)	139-139 (1)						
121	1s60A (152)	129-141 (13)	136-141 (6)	138-138 (1)	C	0.52	2.04	90.13% (137/152)	17.11% (26/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Phosphinothricin acetyltransferase</p>
	1yr0A (163)	137-161 (25)	144-161 (18)	138-138 (1)						
122	1s60A (152)	129-144 (16)	131-139 (9)	138-138 (1)	C	0.45	2.25	84.87% (129/152)	13.16% (20/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase</p>
	2fiaA (157)	129-155 (27)	130-150 (21)	138-138 (1)						

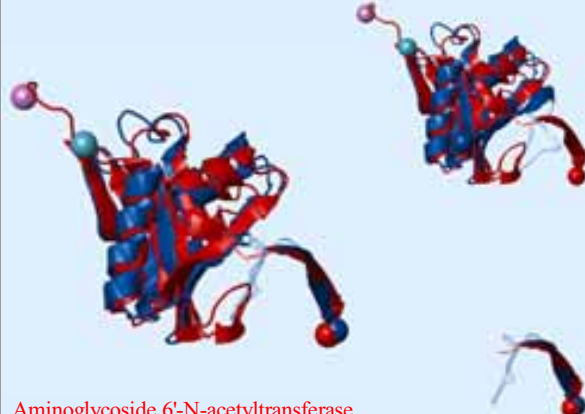
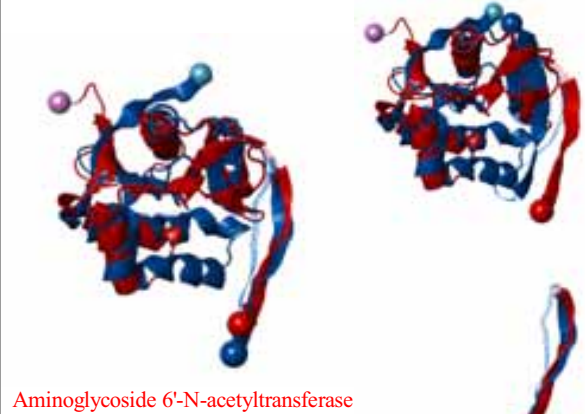
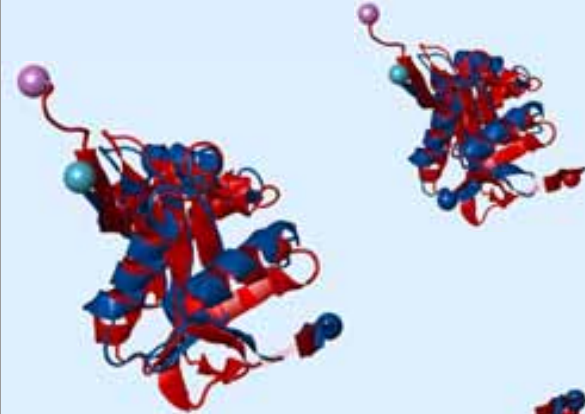
123	1s60A (152)	129-144 (16)	129-144 (16)	135-135 (1)	C	0.46	2.12	85.53% (130/152)	7.89% (12/152)	 <p>Aminoglycoside 6'-N-acetyltransferase P300/CBP associating factor</p>
	1cm0B (161)	619-651 (33)	619-651 (33)	135-135 (1)						
124	1s60A (152)	131-142 (12)	131-142 (12)	136-136 (1)	C	0.47	2.07	84.21% (128/152)	19.74% (30/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Hypothetical protein yqjY</p>
	1mk4A (157)	123-155 (33)	123-155 (33)	136-136 (1)						
125	1s60A (152)	131-144 (14)	133-144 (12)	135-135 (1)	C	0.44	2.26	86.18% (131/152)	7.24% (11/152)	 <p>Aminoglycoside 6'-N-acetyltransferase General control of amino acid synthesis prote</p>
	1z4rA (163)	626-656 (31)	628-656 (29)	135-135 (1)						

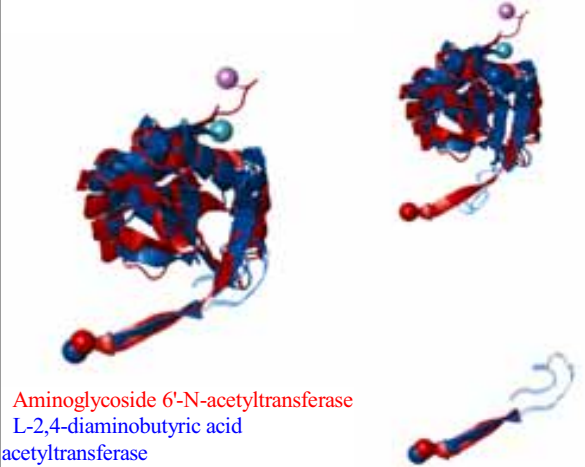
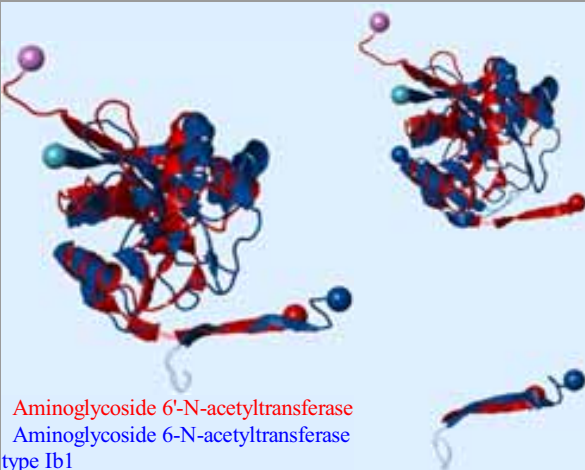
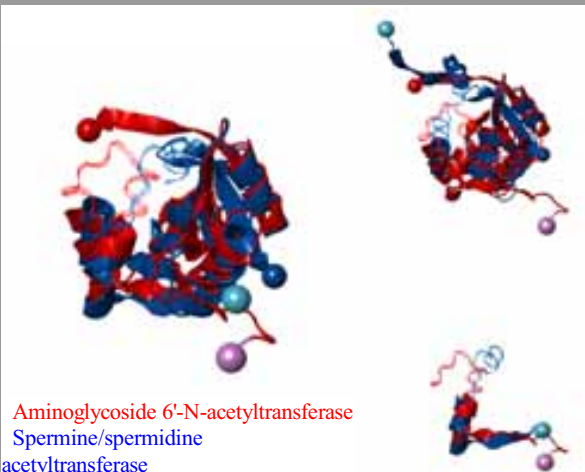
126	1s60A (152)	137-144 (8)	137-144 (8)	139-139 (1)	C	0.39	2.23	89.47% (136/152)	13.16% (20/152)	 <p>Aminoglycoside 6'-N-acetyltransferase CurA</p>
	2reeA (199)	399-415 (17)	399-415 (17)	139-139 (1)						
127	1s60A (152)	-5-12 (18)	-5-2 (8)	0-0 (1)	N	0.43	2.24	88.82% (135/152)	11.18% (17/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyl transferase</p>
	1s7fA (181)	-4-22 (27)	-4-12 (17)	0-0 (1)						
128	1s60A (152)	135-144 (10)	136-144 (9)	139-139 (1)	C	0.42	2.21	88.16% (134/152)	10.53% (16/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyl transferase</p>
	1s7fA (181)	153-169 (17)	154-169 (16)	139-139 (1)						

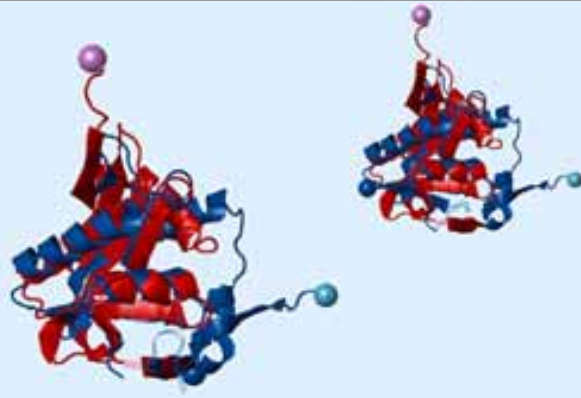
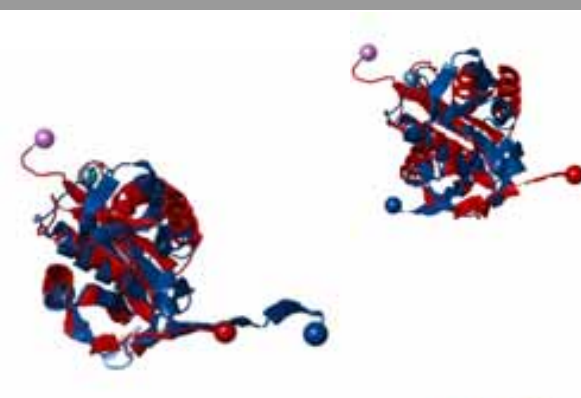
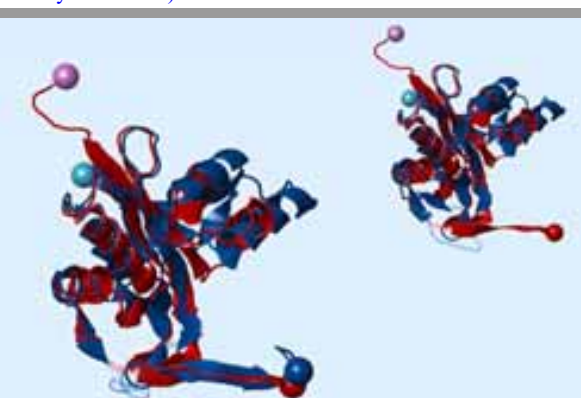
129	1s60A (152)	129-144 (16)	129-144 (16)	135-136 (2)	C	0.43	2.27	85.53% (130/152)	8.55% (13/152)	 <p>Aminoglycoside 6'-N-acetyltransferase TGCN5 histone acetyl transferase</p>
	1m1dA (163)	171-203 (33)	171-203 (33)	135-136 (2)						
130	1s60A (152)	131-139 (9)	135-139 (5)	138-138 (1)	C	0.41	2.02	89.47% (136/152)	15.13% (23/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Conserved hypothetical protein</p>
	1yvoA (169)	138-156 (19)	142-156 (15)	138-138 (1)						
131	1s60A (152)	131-143 (13)	138-140 (3)	139-139 (1)	C	0.51	2.13	88.16% (134/152)	10.53% (16/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Human MAK3 homolog</p>
	2ob0A (154)	128-153 (26)	135-150 (16)	139-139 (1)						

132	1s60A (152)	131-144 (14)	137-141 (5)	137-137 (1)	C	0.47	2.35	90.13% (137/152)	14.47% (22/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase PA1377</p>
	2vi7A (163)	142-167 (26)	148-164 (17)	137-137 (1)						
133	1s60A (152)	137-140 (4)	137-140 (4)	138-138 (1)	C	0.50	2.02	89.29% (125/140)	12.86% (18/140)	 <p>Aminoglycoside 6'-N-acetyltransferase Similar to hypothetical proteins</p>
	1q2yA (140)	124-133 (10)	124-133 (10)	138-138 (1)						
134	1s60A (152)	135-144 (10)	139-144 (6)	139-140 (2)	C	0.37	2.74	94.08% (143/152)	12.50% (19/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Hypothetical protein rv1347c/mt1389</p>
	1yk3A (198)	188-201 (14)	192-201 (10)	139-140 (2)						

135	1s60A (152)	133-144 (12)	133-137 (5)	135-135 (1)	C	0.41	2.40	85.53% (130/152)	7.24% (11/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Protein (transcriptional activator GCN5)</p>
	1yghA (164)	227-257 (31)	227-249 (23)	135-135 (1)						
136	1s60A (152)	131-141 (11)	135-141 (7)	137-137 (1)	C	0.52	2.21	91.72% (133/145)	15.17% (22/145)	 <p>Aminoglycoside 6'-N-acetyltransferase Glyphosate N-acetyltransferase</p>
	2bswA (145)	122-137 (16)	126-137 (12)	137-137 (1)						
137	1s60A (152)	135-140 (6)	136-138 (3)	137-137 (1)	C	0.45	2.30	90.13% (137/152)	15.79% (24/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase, GNAT family</p>
	2pc1A (173)	149-160 (12)	150-158 (9)	137-137 (1)						

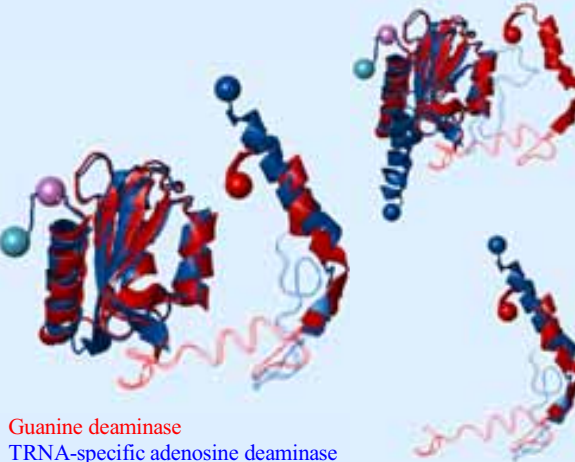
138	1s60A (152)	134-137 (4)	134-137 (4)	134-136 (3)	C	0.51	2.08	90.13% (137/152)	14.47% (22/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase, GNAT family</p>
	2q7bA (164)	137-153 (17)	137-153 (17)	134-136 (3)						
139	1s60A (152)	134-144 (11)	134-144 (11)	134-135 (2)	C	0.47	1.88	82.89% (126/152)	14.47% (22/152)	 <p>Aminoglycoside 6'-N-acetyltransferase GCN5-related N-acetyltransferase:aminotransfe</p>
	2fiwA (160)	135-154 (20)	135-154 (20)	134-135 (2)						
140	1s60A (152)	129-143 (15)	134-139 (6)	136-137 (2)	C	0.51	2.06	94.53% (121/128)	15.63% (20/128)	 <p>Aminoglycoside 6'-N-acetyltransferase Uncharacterized protein yhhK</p>
	2k5tA (128)	114-127 (14)	119-123 (5)	136-137 (2)						

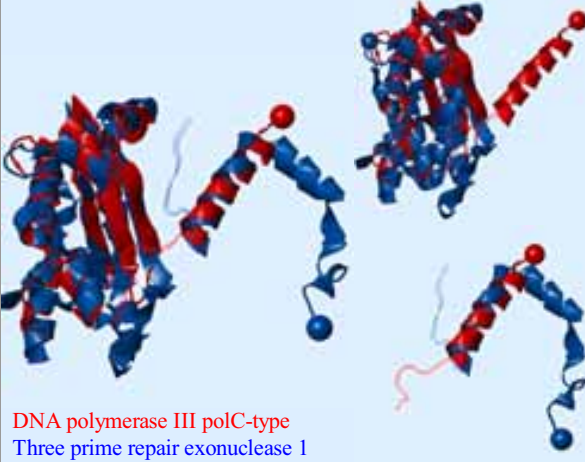
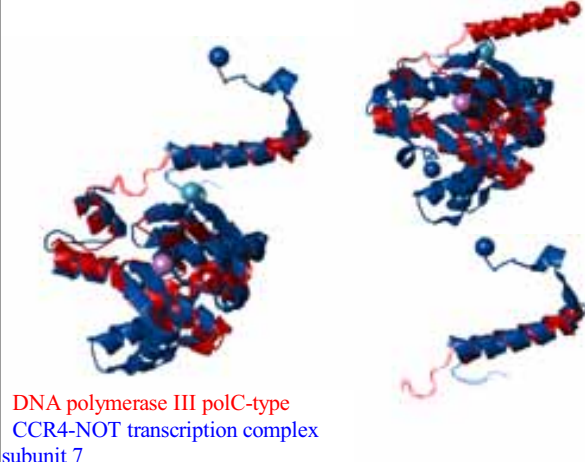
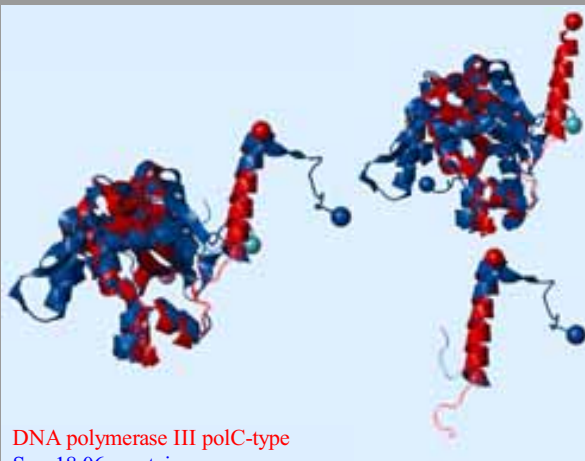
141	1s60A (152)	130-144 (15)	130-144 (15)	138-138 (1)	C	0.49	2.08	86.84% (132/152)	13.82% (21/152)	 <p>Aminoglycoside 6'-N-acetyltransferase L-2,4-diaminobutyric acid acetyltransferase</p>
	3d3sA (159)	124-158 (35)	124-158 (35)	138-138 (1)						
142	1s60A (152)	131-141 (11)	138-141 (4)	138-138 (1)	C	0.39	2.74	90.13% (137/152)	14.47% (22/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Aminoglycoside 6-N-acetyltransferase type Ib1</p>
	2pr8A (173)	158-174 (17)	165-174 (10)	138-138 (1)						
143	1s60A (152)	1-30 (32)	15-30 (16)	15-30 (16)	N	0.43	2.48	86.39% (127/147)	12.24% (18/147)	 <p>Aminoglycoside 6'-N-acetyltransferase Spermine/spermidine acetyltransferase</p>
	2fl4A (147)	1-32 (32)	18-32 (15)	15-30 (16)						

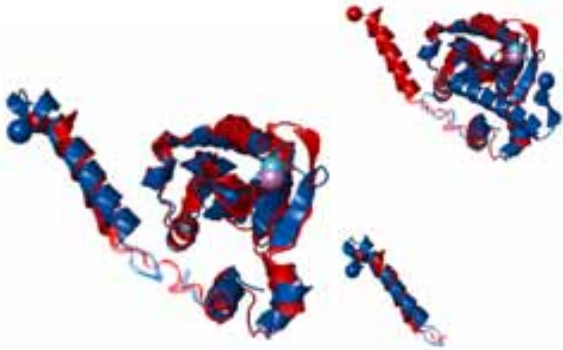
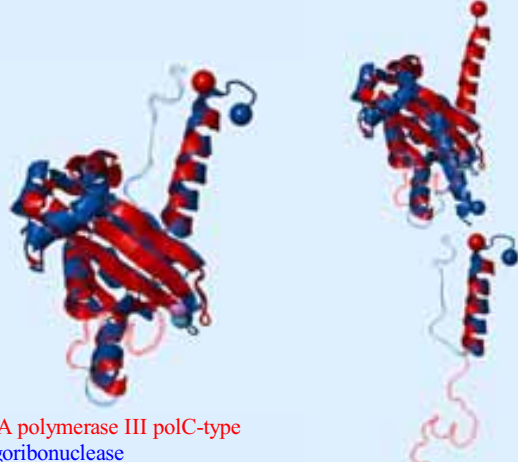
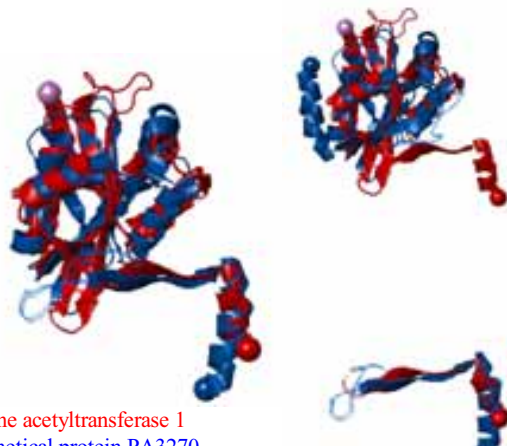
144	1s60A (152)	130-142 (13)	131-142 (12)	136-136 (1)	C	0.34	2.36	75.51% (111/147)	11.56% (17/147)	 Aminoglycoside 6'-N-acetyltransferase Spermine/spermidine acetyltransferase
	2fl4A (147)	125-145 (21)	126-145 (20)	136-136 (1)						
145	1s60A (152)	121-144 (24)	136-144 (9)	139-141 (3)	C	0.36	2.57	82.89% (126/152)	12.50% (19/152)	 Aminoglycoside 6'-N-acetyltransferase Protein (arylalkylamine N-acetyltransferase)
	1b6bA (168)	163-192 (30)	177-192 (16)	139-141 (3)						
146	1s60A (152)	133-139 (7)	135-139 (5)	135-137 (3)	C	0.42	2.38	82.89% (126/152)	8.55% (13/152)	 Aminoglycoside 6'-N-acetyltransferase Uncharacterized N-acetyltransferase ylbP
	2pr1A (152)	129-143 (15)	131-143 (13)	135-137 (3)						

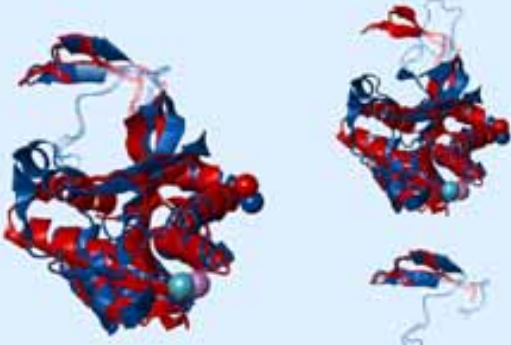
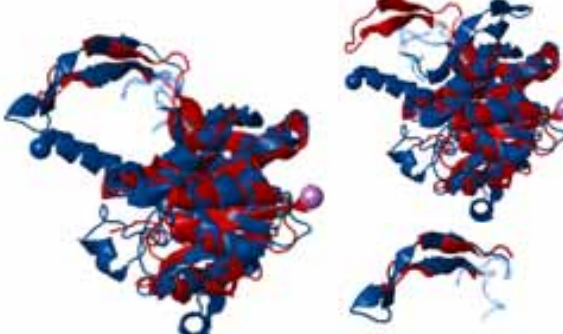

147	1s60A (152)	104-142 (39)	129-139 (11)	138-138 (1)	C	0.42	2.44	84.56% (126/149)	10.74% (16/149)	 <p>Aminoglycoside 6'-N-acetyltransferase Hypothetical protein PA0115</p>
	1xebA (149)	104-149 (46)	127-146 (20)	138-138 (1)						
148	1s60A (152)	-5-12 (18)	-5-12 (18)	1-1 (1)	N	0.42	2.60	91.45% (139/152)	8.55% (13/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Ribosomal-protein-serine acetyltransferase, p</p>
	2fckA (174)	2-23 (22)	2-23 (22)	1-1 (1)						
149	1s60A (152)	135-144 (10)	135-144 (10)	140-140 (1)	C	0.40	2.58	89.47% (136/152)	9.21% (14/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Ribosomal-protein-serine acetyltransferase, p</p>
	2fckA (174)	155-170 (16)	155-170 (16)	140-140 (1)						

150	1tiyA (157)	110-141 (32)	112-129 (18)	114-130 (17)	C	0.58	1.49	92.99% (146/157)	26.11% (41/157)	 <p>Guanine deaminase Cytidine and deoxycytidylate deaminase zinc-b</p>
	2g84A (189)	139-171 (33)	141-158 (18)	114-130 (17)						
151	1tiyA (157)	101-142 (42)	101-141 (41)	104-135 (32)	C	0.56	1.72	87.01% (134/154)	29.22% (45/154)	 <p>Guanine deaminase TRNA adenosine deaminase TadA</p>
	1wwrA (154)	100-134 (35)	100-133 (34)	104-135 (32)						
152	1tiyA (157)	104-146 (43)	104-133 (30)	104-131 (28)	C	0.58	1.59	88.08% (133/151)	29.14% (44/151)	 <p>Guanine deaminase TRNA adenosine deaminase</p>
	2b3jA (151)	104-140 (37)	104-127 (24)	104-131 (28)						

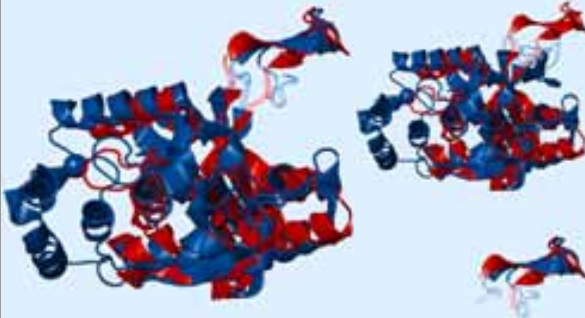
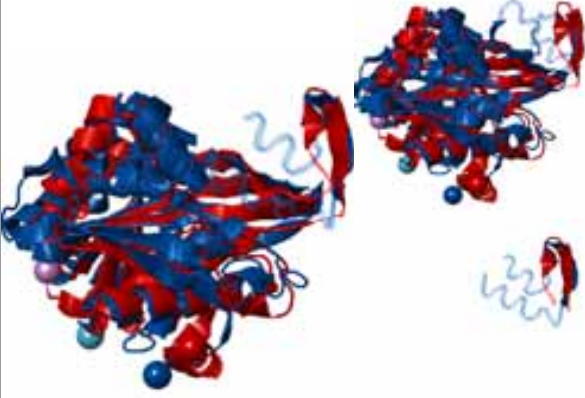
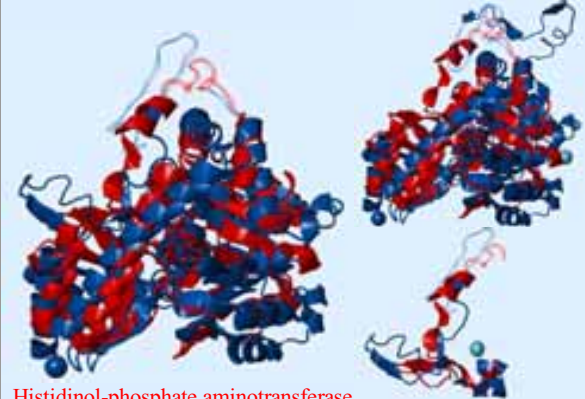
153	1tiyA (157)	93-141 (49)	104-141 (38)	104-141 (38)	C	0.47	1.92	84.08% (132/157)	24.20% (38/157)	 <p>Guanine deaminase TRNA-specific adenosine deaminase</p>
	2nx8A (168)	105-161 (57)	116-161 (46)	104-141 (38)						
154	1tiyA (157)	103-143 (41)	104-130 (27)	105-133 (29)	C	0.58	1.62	86.54% (135/156)	25.64% (40/156)	 <p>Guanine deaminase TRNA-specific adenosine deaminase</p>
	1z3aA (156)	118-152 (35)	119-139 (21)	105-133 (29)						
155	2p1jA (164)	491-501 (11)	492-501 (10)	494-501 (8)	C	0.68	1.49	95.12% (156/164)	29.27% (48/164)	 <p>DNA polymerase III polC-type DNA polymerase III, epsilon chain</p>
	1j53A (174)	151-163 (13)	152-163 (12)	494-501 (8)						




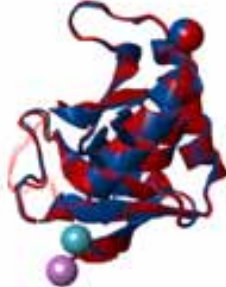
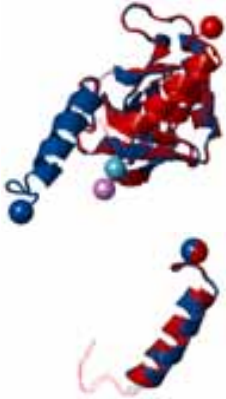
156	2p1jA (164)	492-501 (10)	492-501 (10)	493-501 (9)	C	0.45	2.06	94.51% (155/164)	25.00% (41/164)	 <p>DNA polymerase III polC-type Three prime repair exonuclease 1</p>
	2iocB (220)	186-196 (11)	186-196 (11)	493-501 (9)						
157	2p1jA (164)	491-501 (11)	493-501 (9)	494-501 (8)	C	0.38	2.14	93.29% (153/164)	18.90% (31/164)	 <p>DNA polymerase III polC-type CCR4-NOT transcription complex subunit 7</p>
	2d5rA (252)	215-226 (12)	217-226 (10)	494-501 (8)						
158	2p1jA (164)	492-501 (10)	494-501 (8)	494-501 (8)	C	0.36	2.23	92.68% (152/164)	17.68% (29/164)	 <p>DNA polymerase III polC-type Specl8.06c protein</p>
	2p51A (255)	226-236 (11)	228-236 (9)	494-501 (8)						

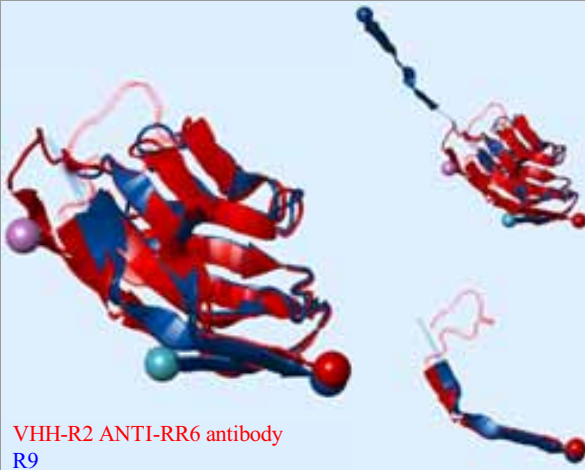
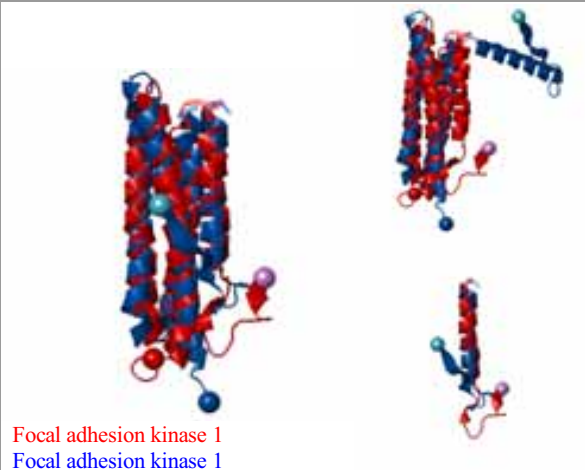

159	2p1jA (164)	491-504 (14)	491-501 (11)	492-501 (10)	C	0.51	2.14	89.02% (146/164)	19.51% (32/164)	 <p>DNA polymerase III polC-type Interferon stimulated gene 20kDa</p>
	1wljA (168)	136-153 (18)	136-150 (15)	492-501 (10)						
160	2p1jA (164)	477-501 (25)	477-501 (25)	477-501 (25)	C	0.42	2.09	82.93% (136/164)	15.85% (26/164)	 <p>DNA polymerase III polC-type Oligoribonuclease</p>
	2gbzA (179)	144-162 (19)	144-162 (19)	477-501 (25)						
161	2jevA (169)	147-162 (16)	147-156 (10)	149-152 (4)	C	0.39	2.82	89.35% (151/169)	10.65% (18/169)	 <p>Diamine acetyltransferase 1 Hypothetical protein PA3270</p>
	lyreA (183)	154-180 (27)	154-174 (21)	149-152 (4)						

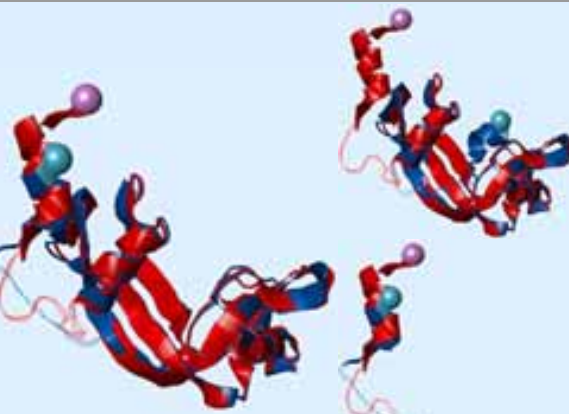
162	1vguA (214)	125-159 (26), 153-171 (19)	125-141 (17), 153-166 (14)	138-141 (4), 156-160 (5)	M	0.52	2.12	93.93% (201/214)	14.49% (31/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl 3-deoxy-manno-octulosonate cytidyltransferase</p>
	1gq9A (241)	115-149 (35), 152-180 (29)	115-141 (27), 152-175 (24)	138-141 (4), 156-160 (5)						
163	1vguA (214)	125-139 (15), 142-173 (32)	137-139 (3), 142-161 (20)	137-138 (2), 159-161 (3)	M	0.42	2.29	95.79% (205/214)	13.55% (29/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl UTP-glucose-1-phosphate uridyltransferase</p>
	2pa4A (294)	159-179 (21), 182-223 (42)	171-179 (9), 182-212 (31)	137-138 (2), 159-161 (3)						
164	1vguA (214)	125-141 (17), 144-169 (26)	139-141 (3), 145-160 (16)	139-140 (2), 156-157 (2)	M	0.32	2.45	92.06% (197/214)	19.16% (41/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl Putative mannose-1-phosphate guanylyl transfe</p>
	2cu2A (335)	127-150 (24), 153-192 (40)	143-150 (8), 154-183 (30)	139-140 (2), 156-157 (2)						

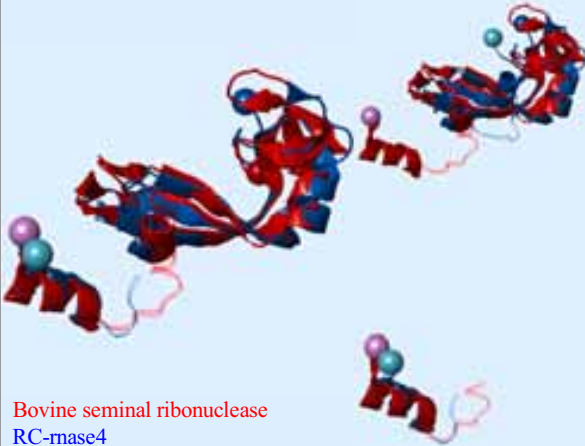


165	lvguA (214)	125-139 (15), 144-166 (23)	125-138 (14), 145-161 (17)	137-138 (2), 157-161 (5)	M	0.40	2.37	93.93% (201/214)	11.21% (24/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl Glucose-1-phosphate thymidyltransferase</p>
	lh5rA (290)	128-146 (19), 151-176 (26)	128-145 (18), 152-171 (20)	137-138 (2), 157-161 (5)						
166	lvguA (214)	124-139 (16), 144-166 (23)	124-139 (16), 144-166 (23)	137-138 (2), 157-161 (5)	M	0.40	2.40	94.39% (202/214)	11.21% (24/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl Glucose-1-phosphate thymidyltransferase</p>
	liimA (289)	127-146 (20), 151-176 (26)	127-146 (20), 151-176 (26)	137-138 (2), 157-161 (5)						
167	lvguA (214)	122-140 (19), 153-166 (14)	122-140 (19), 153-161 (9)	139-140 (2), 156-160 (5)	M	0.39	2.38	93.93% (201/214)	14.49% (31/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl Glucose-1-phosphate thymidyltransferase</p>
	llvwA (295)	125-144 (20), 156-173 (18)	125-144 (20), 156-168 (13)	139-140 (2), 156-160 (5)						

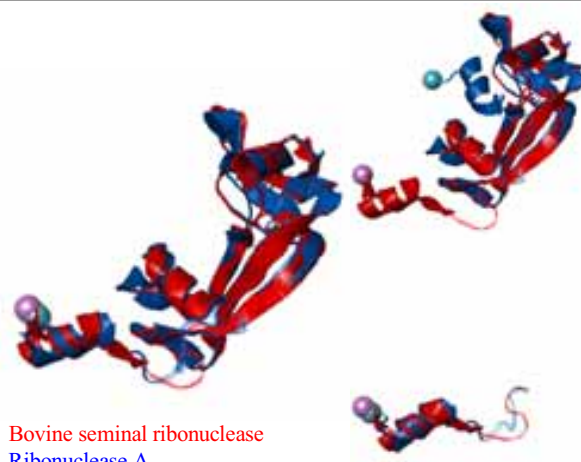

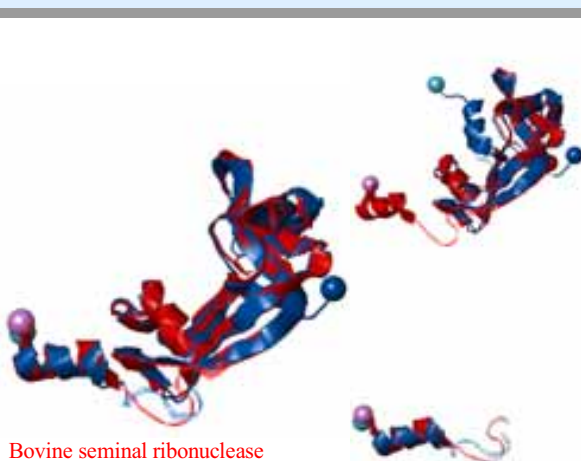
168	lvguA (214)	122-139 (18), 144-166 (23)	122-139 (18), 145-161 (17)	137-138 (2), 157-161 (5)	M	0.40	2.32	93.46% (200/214)	11.21% (24/214)	 <p>2-C-methyl-D-erythritol 4-phosphate cytidyl Glucose-1-phosphate thymidyltransferase</p>
	lfxoA (292)	127-145 (19), 150-175 (26)	127-145 (19), 151-170 (20)	137-138 (2), 157-161 (5)						
169	2c49A (299)	7-35 (29), 24-40 (17)	17-25 (9), 35-39 (5)	22-25 (4), 35-36 (2)	M	0.50	2.11	92.98% (278/299)	20.07% (60/299)	 <p>Sugar kinase MJ0406 Protein (adenosine kinase)</p>
	lhx4A (342)	5-42 (38), 31-61 (31)	18-32 (15), 42-60 (19)	22-25 (4), 35-36 (2)						
170	lh1cA (329)	7-57 (51)	7-57 (51)	41-54 (14)	N	0.26	2.67	93.01% (306/329)	12.16% (40/329)	 <p>Histidinol-phosphate aminotransferase Kynurenine/alpha-aminoadipate aminotransferase</p>
	2qlrA (425)	6-79 (74)	6-79 (74)	41-54 (14)						

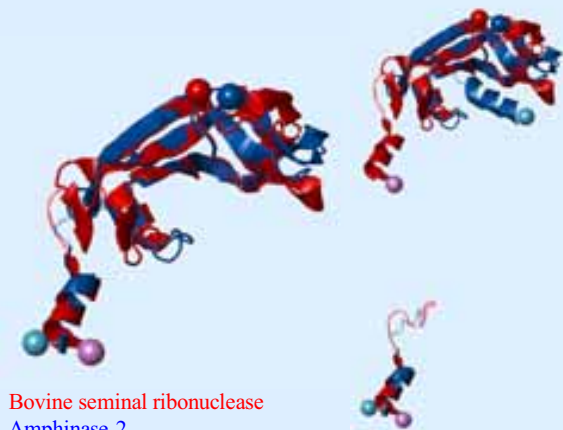
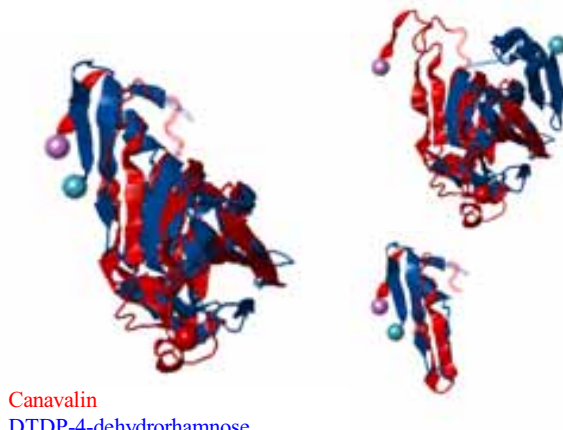
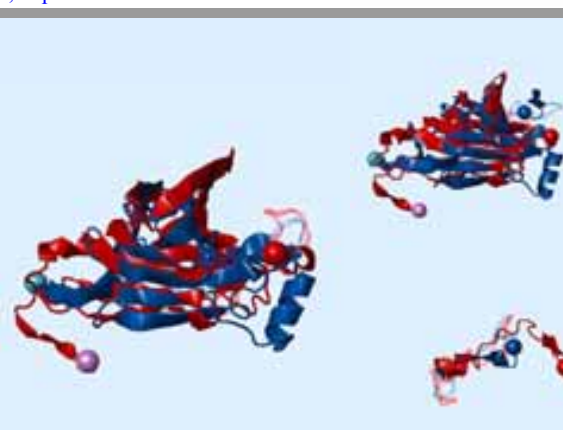
171	1a5pA (124)	15-22 (8)	18-22 (5)	18-22 (5)	N	0.95	0.68	100.00% (124/124)	98.39% (122/124)	  Ribonuclease A Ribonuclease A
	1a2wA (124)	15-22 (8)	18-22 (5)	18-22 (5)						
172	1nloC (56)	28-56 (29)	29-42 (14)	35-41 (7)	C	0.69	1.23	92.86% (52/56)	25.00% (14/56)	  C-SRC EPS8
	1aojA (60)	27-53 (27)	28-40 (13)	35-41 (7)						
173	1eydA (136)	112-120 (9)	112-120 (9)	113-120 (8)	C	0.92	0.51	100.00% (129/129)	100.00% (129/129)	  Staphylococcal nuclease Staphylococcal nuclease dimer
	1sndA (129)	112-120 (9)	112-120 (9)	113-120 (8)						

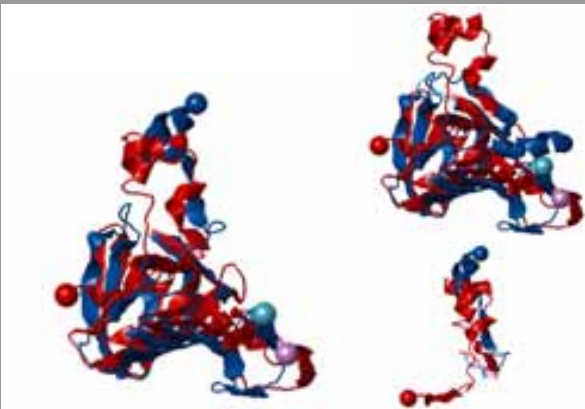
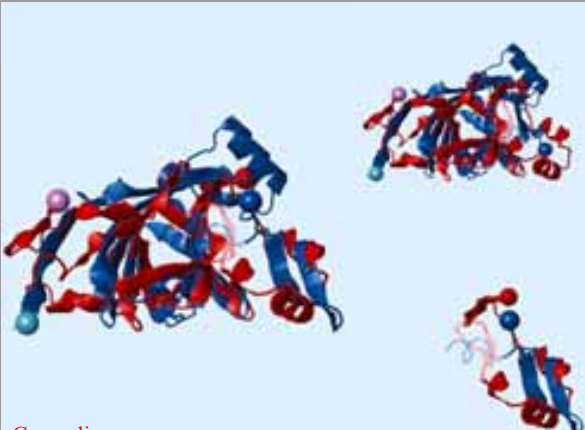
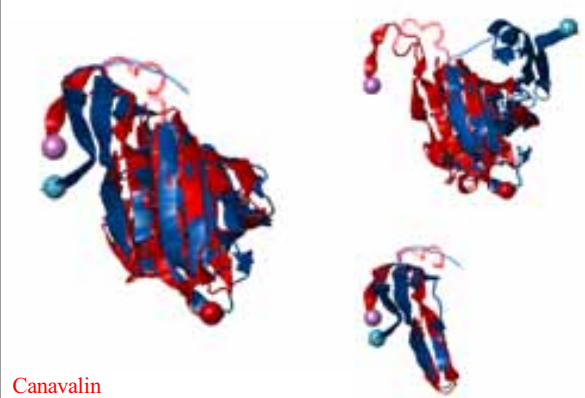
174	1qd0A (128)	99-116 (18)	101-116 (16)	102-116 (15)	C	0.64	1.49	100.00% (102/102)	70.59% (72/102)	 <p>VHH-R2 ANTI-RR6 antibody R9</p>
	1sjvA (102)	91-98 (8)	93-98 (6)	102-116 (15)						
175	1pv3A (146)	941-951 (11)	941-951 (11)	944-948 (5)	N	0.42	2.02	91.55% (130/142)	83.80% (119/142)	 <p>Focal adhesion kinase 1 Focal adhesion kinase 1</p>
	1k04A (142)	940-950 (11)	940-950 (11)	944-948 (5)						
176	1b6bA (168)	50-90 (41)	50-82 (33)	50-80 (31)	N	0.38	2.03	81.43% (114/140)	15.71% (22/140)	 <p>Protein (arylalkylamine N-acetyltransferase) Acetyltransferase</p>
	1y9wA (140)	23-51 (29)	23-42 (20)	50-80 (31)						

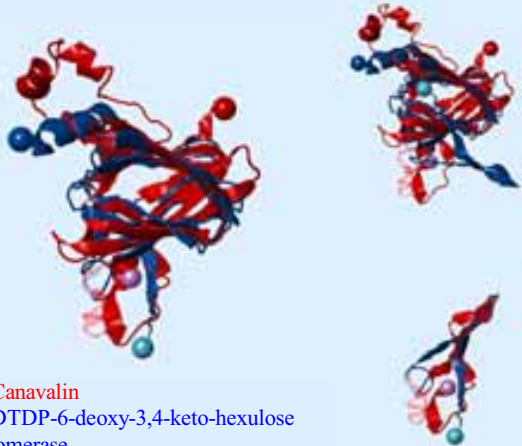
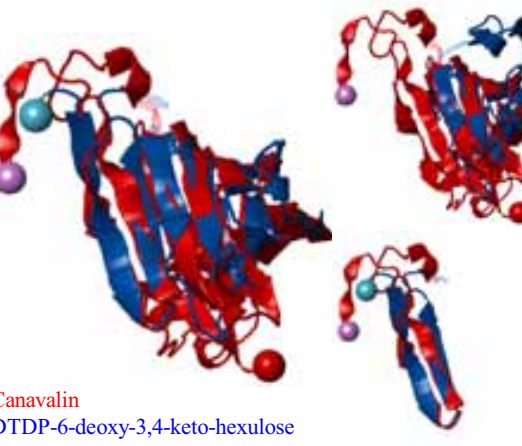
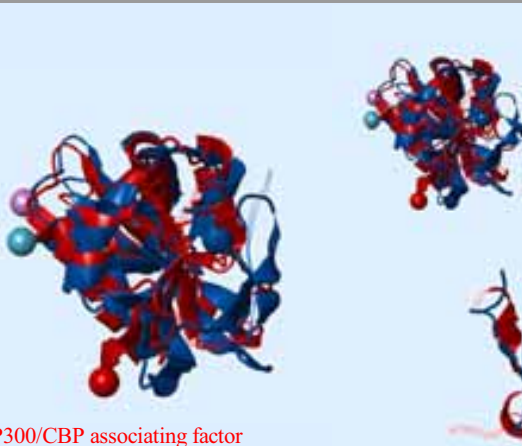
177	1bsrA (124)	12-27 (16)	12-22 (11)	15-22 (8)	N	0.50	1.55	91.06% (112/123)	31.71% (39/123)	 <p>Bovine seminal ribonuclease Angiogenin</p>
	1awzA (123)	13-27 (15)	13-22 (10)	15-22 (8)						
178	1bsrA (124)	15-23 (9)	15-23 (9)	15-23 (9)	N	0.54	1.35	99.16% (118/119)	71.43% (85/119)	 <p>Bovine seminal ribonuclease Ribonuclease I</p>
	1e21A (119)	15-23 (9)	15-23 (9)	15-23 (9)						
179	1bsrA (124)	9-24 (16)	9-24 (16)	13-24 (12)	N	0.57	1.89	89.52% (111/124)	33.06% (41/124)	 <p>Bovine seminal ribonuclease Angiogenin</p>
	1gioA (125)	11-25 (15)	11-25 (15)	13-24 (12)						

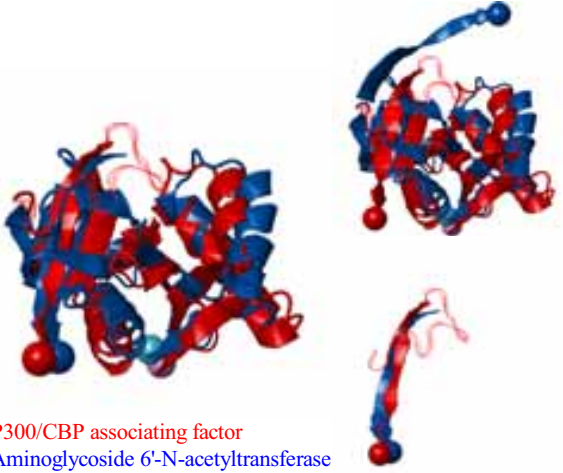
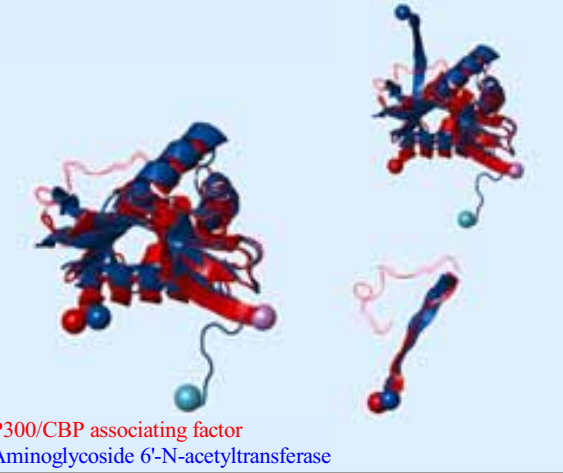
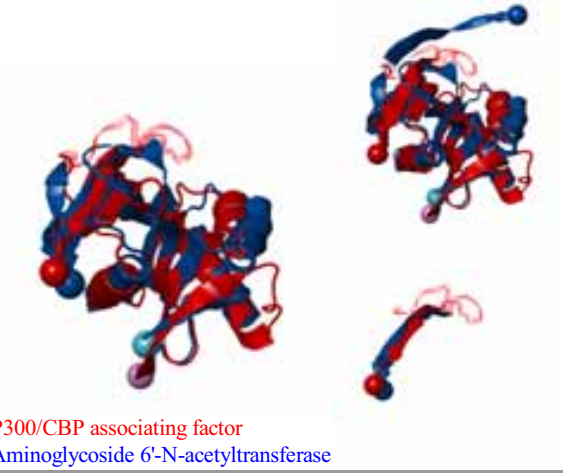
180	1bsrA (124)	14-52 (39)	14-28 (15)	14-26 (13)	N	0.32	2.06	92.52% (99/107)	24.30% (26/107)	 <p>Bovine seminal ribonuclease RC-mase4</p>
	1kvzA (107)	13-43 (31)	13-22 (10)	14-26 (13)						
181	1bsrA (124)	11-25 (15)	14-25 (12)	14-25 (12)	N	0.38	1.79	93.33% (98/105)	23.81% (25/105)	 <p>Bovine seminal ribonuclease P-30 protein</p>
	1pu3A (105)	10-19 (10)	13-19 (7)	14-25 (12)						
182	1bsrA (124)	15-25 (11)	15-24 (10)	15-23 (9)	N	0.49	1.19	95.83% (115/120)	42.50% (51/120)	 <p>Bovine seminal ribonuclease Protein (ribonuclease 4)</p>
	1mfA (120)	15-24 (10)	15-23 (9)	15-23 (9)						

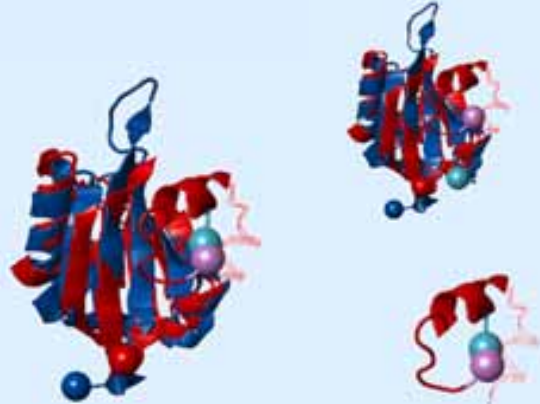
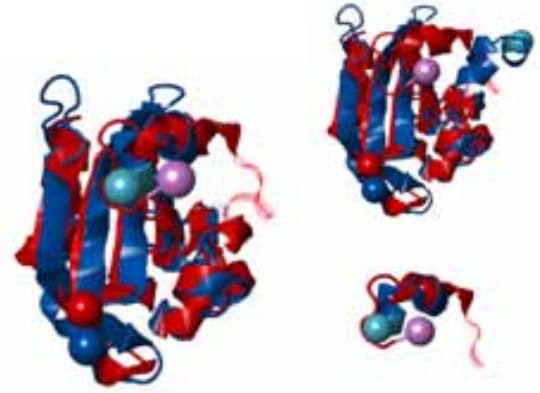
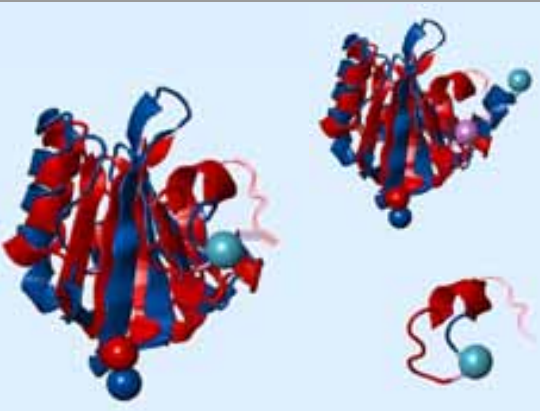
183	1bsrA (124)	12-24 (13)	12-24 (13)	15-24 (10)	N	0.55	1.40	100.00% (124/124)	81.45% (101/124)	 <p>Bovine seminal ribonuclease Ribonuclease A</p>
	2aasA (124)	12-24 (13)	12-24 (13)	15-24 (10)						
184	1bsrA (124)	8-25 (18)	8-25 (18)	13-25 (13)	N	0.37	1.85	91.13% (113/124)	35.48% (44/124)	 <p>Bovine seminal ribonuclease Ribonuclease 7</p>
	2hkyA (129)	11-22 (12)	11-22 (12)	13-25 (13)						
185	1bsrA (124)	10-32 (23)	10-24 (15)	14-24 (11)	N	0.53	1.40	98.39% (122/124)	70.16% (87/124)	 <p>Bovine seminal ribonuclease Pancreatic ribonuclease</p>
	2k11A (127)	10-32 (23)	10-24 (15)	14-24 (11)						

186	1bsrA (124)	14-25 (12)	14-25 (12)	14-25 (12)	N	0.46	1.61	90.00% (99/110)	26.36% (29/110)	 <p>Bovine seminal ribonuclease Amphinase-2</p>
	2p7sA (110)	17-25 (9)	17-25 (9)	14-25 (12)						
187	1cauA (181)	45-107 (63)	45-86 (42)	81-86 (6)	N	0.26	2.39	69.61% (126/181)	10.50% (19/181)	 <p>Canavalin DTDTP-4-dehydrorhamnose 3,5-epimerase</p>
	1dztA (183)	4-72 (69)	4-47 (44)	81-86 (6)						
188	1cauA (181)	145-224 (80)	162-224 (63)	176-202 (27)	C	0.32	2.10	69.61% (126/181)	6.63% (12/181)	 <p>Canavalin Phosphoglucose isomerase</p>
	1j3rB (185)	136-187 (52)	152-187 (36)	176-202 (27)						

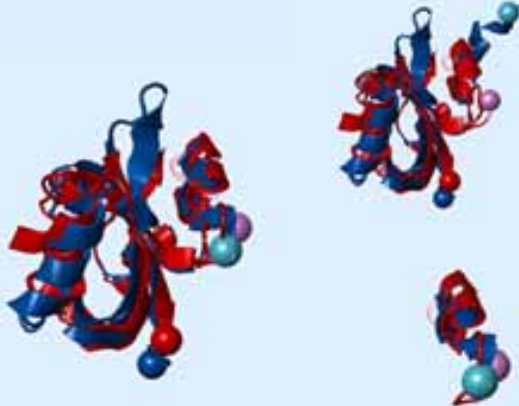
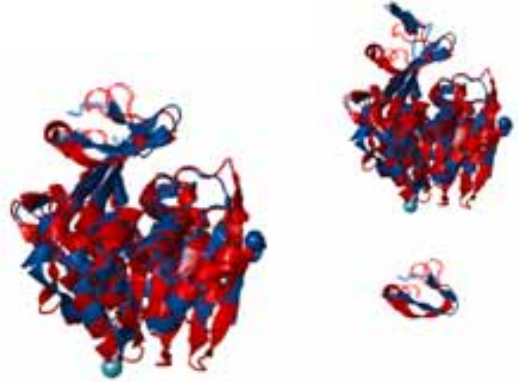

189	1cauA (181)	177-194 (18)	177-194 (18)	177-181 (5)	C	0.39	2.44	86.16% (137/159)	11.95% (19/159)	 <p>Canavalin Auxin binding protein 1</p>
	1lr5B (159)	133-149 (17)	133-149 (17)	177-181 (5)						
190	1cauA (181)	131-211 (81)	162-211 (50)	176-185 (10)	C	0.31	2.40	72.93% (132/181)	5.52% (10/181)	 <p>Canavalin Glucose-6-phosphate isomerase</p>
	1x7nA (189)	121-186 (66)	151-186 (36)	176-185 (10)						
191	1cauA (181)	45-86 (42)	45-86 (42)	76-86 (11)	N	0.31	2.24	70.17% (127/181)	9.94% (18/181)	 <p>Canavalin DTD4-dehydrorhamnose 3,5-epimerase</p>
	2ixkA (184)	6-49 (44)	6-49 (44)	76-86 (11)						

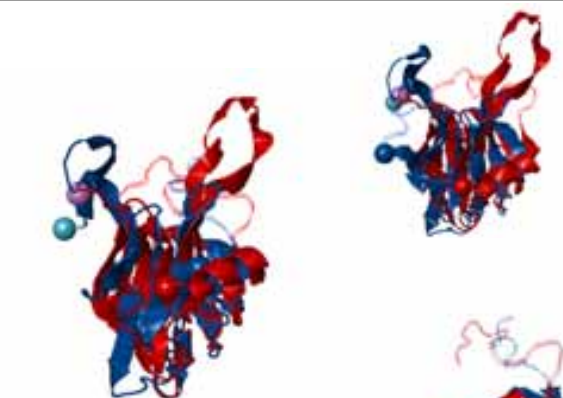
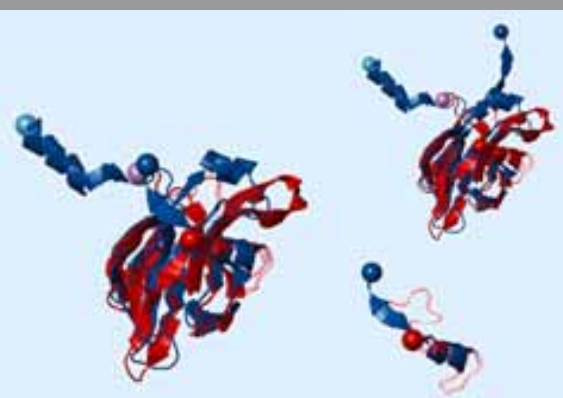
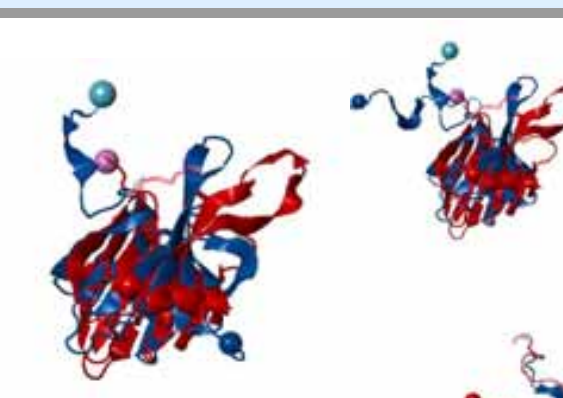
192	1cauA (181)	50-101 (52)	50-86 (37)	74-86 (13)	N	0.28	2.32	84.33% (113/134)	11.19% (15/134)	 <p>Canavalin DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pakB (134)	3-48 (46)	3-32 (30)	74-86 (13)						
193	1cauA (181)	44-101 (58)	44-86 (43)	84-86 (3)	N	0.30	2.14	82.96% (112/135)	9.63% (13/135)	 <p>Canavalin DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pamA (135)	2-48 (47)	2-32 (31)	84-86 (3)						
194	1cm0B (161)	623-640 (18), 642-652 (11)	623-630 (8), 642-645 (4)	625-630 (6), 642-644 (3)	M	0.43	2.43	88.20% (142/161)	6.83% (11/161)	 <p>P300/CBP associating factor Aminoglycoside 2'-N-acetyltransferase</p>
	1m44A (177)	132-150 (19), 154-181 (28)	132-142 (11), 154-156 (3)	625-630 (6), 642-644 (3)						

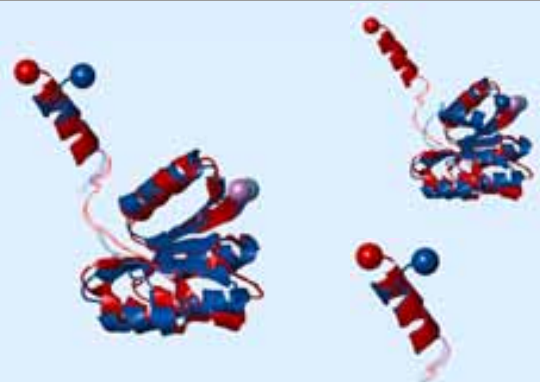
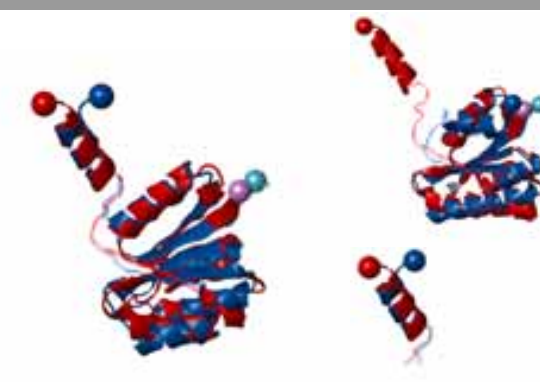
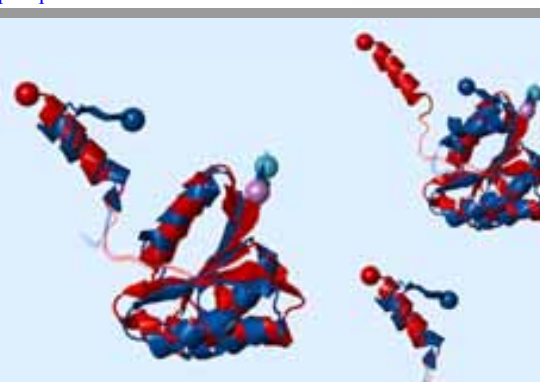
195	1cm0B (161)	623-651 (29)	623-651 (29)	625-642 (18)	C	0.48	2.14	89.66% (130/145)	8.97% (13/145)	 <p>P300/CBP associating factor Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	133-144 (12)	133-144 (12)	625-642 (18)						
196	1cm0B (161)	623-651 (29)	623-651 (29)	625-642 (18)	C	0.45	2.15	84.97% (130/153)	7.84% (12/153)	 <p>P300/CBP associating factor Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	133-144 (12)	133-144 (12)	625-642 (18)						
197	1cm0B (161)	623-651 (29)	624-651 (28)	625-642 (18)	C	0.47	2.10	88.89% (128/144)	8.33% (12/144)	 <p>P300/CBP associating factor Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	133-144 (12)	134-144 (11)	625-642 (18)						

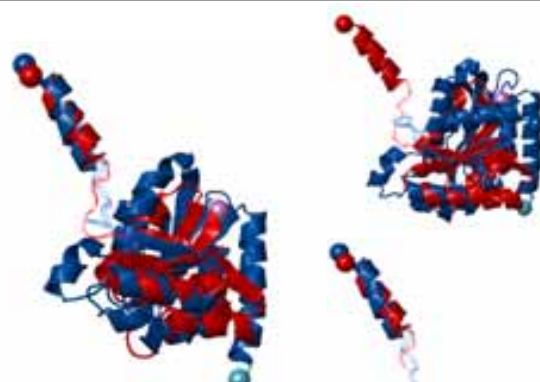
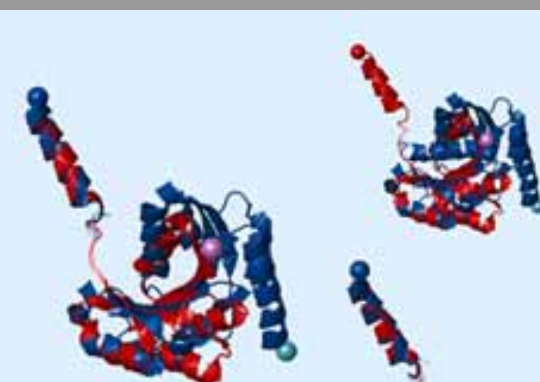
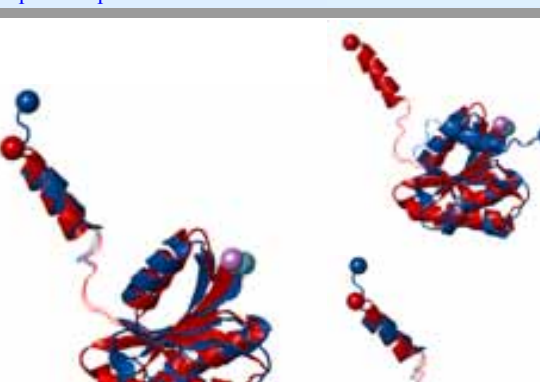
198	1d7eA (119)	5-43 (39)	5-40 (36)	17-28 (12)	N	0.39	2.12	85.09% (97/114)	4.39% (5/114)	 <p>Photoactive yellow protein Endothelial PAS domain protein 1</p>
	1p97A (114)	2-22 (21)	2-19 (18)	17-28 (12)						
199	1d7eA (119)	6-31 (26)	6-23 (18)	18-23 (6)	N	0.53	2.24	90.76% (108/119)	13.45% (16/119)	 <p>Photoactive yellow protein Hypothetical protein yddU</p>
	1s67L (119)	17-34 (18)	17-26 (10)	18-23 (6)						
200	1d7eA (119)	15-22 (8)	15-22 (8)	16-22 (7)	N	0.52	2.16	90.43% (104/115)	14.78% (17/115)	 <p>Photoactive yellow protein Hypothetical protein yddU</p>
	1s67U (115)	24-25 (2)	24-25 (2)	16-22 (7)						

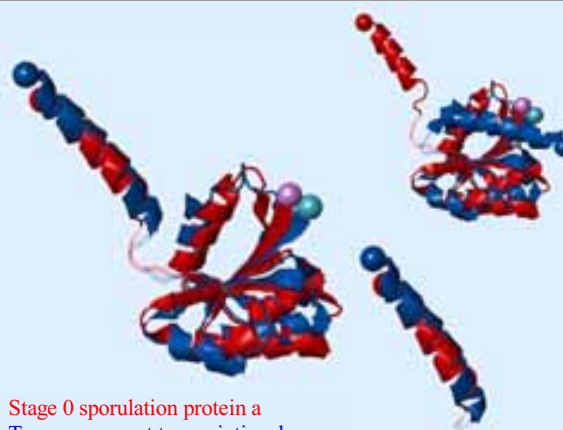
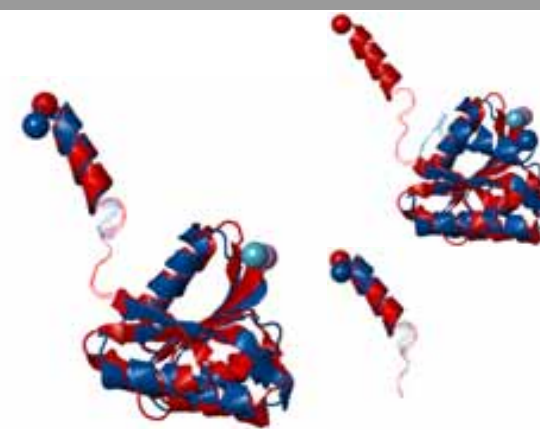
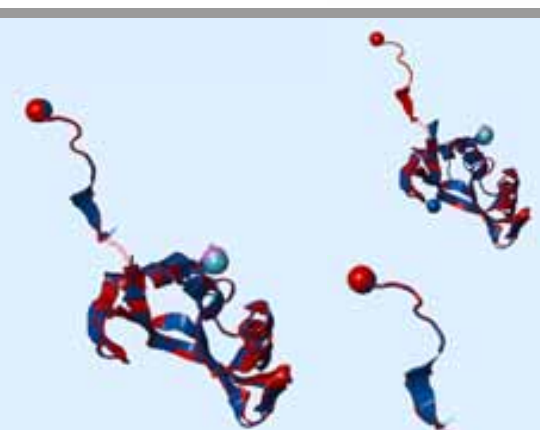
201	1d7eA (119)	15-24 (10)	15-22 (8)	20-22 (3)	N	0.46	2.10	91.15% (103/113)	14.16% (16/113)	 <p>Photoactive yellow protein Heme pas sensor protein</p>
	1v9zA (113)	21-27 (7)	21-25 (5)	20-22 (3)						
202	1d7eA (119)	15-24 (10)	17-22 (6)	19-22 (4)	N	0.52	2.10	91.23% (104/114)	14.04% (16/114)	 <p>Photoactive yellow protein Heme pas sensor protein</p>
	1vb6A (114)	21-27 (7)	23-25 (3)	19-22 (4)						
203	1d7eA (119)	15-22 (8)	16-22 (7)	17-22 (6)	N	0.54	1.85	86.55% (103/119)	15.13% (18/119)	 <p>Photoactive yellow protein Nitrogen fixation regulatory protein</p>
	2gj3A (119)	28-30 (3)	29-30 (2)	17-22 (6)						

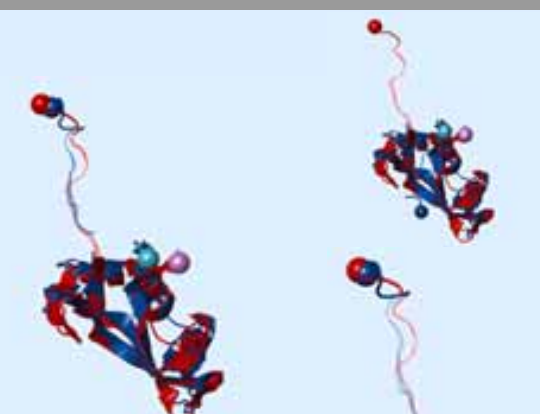
204	1d7eA (119)	9-22 (14)	17-22 (6)	18-22 (5)	N	0.56	1.88	88.24% (105/119)	16.81% (20/119)	 <p>Photoactive yellow protein Nitrogen fixation regulatory protein</p>
	2gj3B (119)	22-30 (9)	29-30 (2)	18-22 (5)						
205	1dgmA (346)	27-53 (27), 36-64 (29)	27-53 (27), 36-63 (28)	27-38 (12), 53-63 (11)	M	0.46	2.34	92.64% (277/299)	16.39% (49/299)	 <p>Adenosine kinase Sugar kinase MJ0406</p>
	2c4eA (299)	20-36 (17), 22-38 (17)	20-36 (17), 22-37 (16)	27-38 (12), 53-63 (11)						
206	1dmzA (158)	628-721 (94)	697-721 (25)	697-721 (25)	C	0.32	2.28	72.15% (114/158)	13.29% (21/158)	 <p>Protein (protein kinase SPK1) Protien kinase SPK1</p>
	1g3gA (164)	94-149 (56)	148-149 (2)	697-721 (25)						

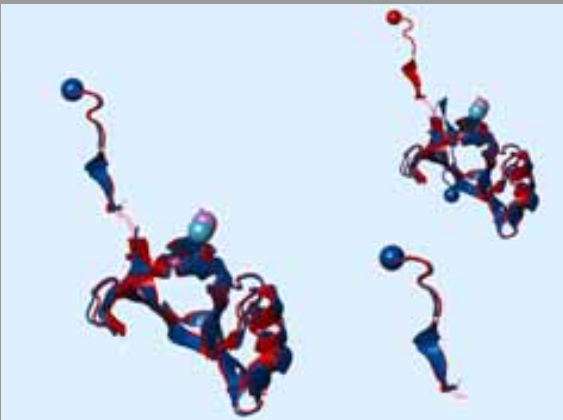
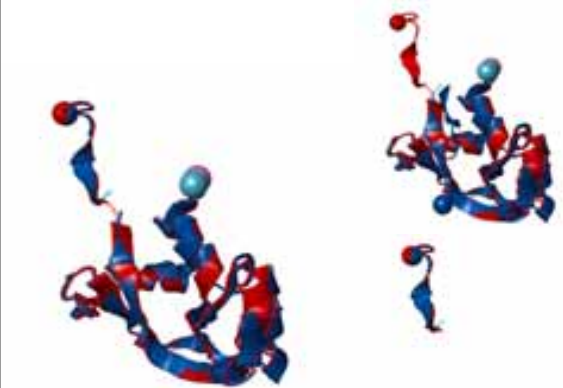
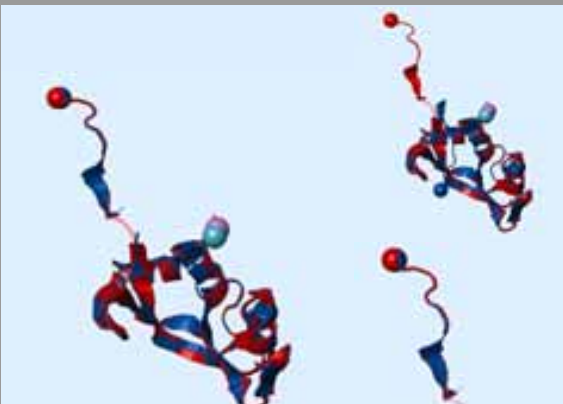
207	1dmzA (158)	670-730 (61)	687-730 (44)	696-714 (19)	C	0.29	2.52	84.14% (122/145)	13.79% (20/145)	 <p>Protein (protein kinase SPK1) Ubiquitin ligase protein RNF8</p>
	2cswA (145)	98-145 (48)	115-145 (31)	696-714 (19)						
208	1dmzA (158)	687-721 (35)	697-721 (25)	697-721 (25)	C	0.41	1.81	76.16% (115/151)	13.91% (21/151)	 <p>Protein (protein kinase SPK1) Serine/threonine-protein kinase RAD53</p>
	2jqjA (151)	138-149 (12)	148-149 (2)	697-721 (25)						
209	1dmzA (158)	679-730 (52)	695-730 (36)	697-701 (5)	C	0.28	2.34	80.14% (113/141)	17.02% (24/141)	 <p>Protein (protein kinase SPK1) DNA damage response protein kinase DUN1</p>
	2jqjA (141)	126-159 (34)	136-159 (24)	697-701 (5)						

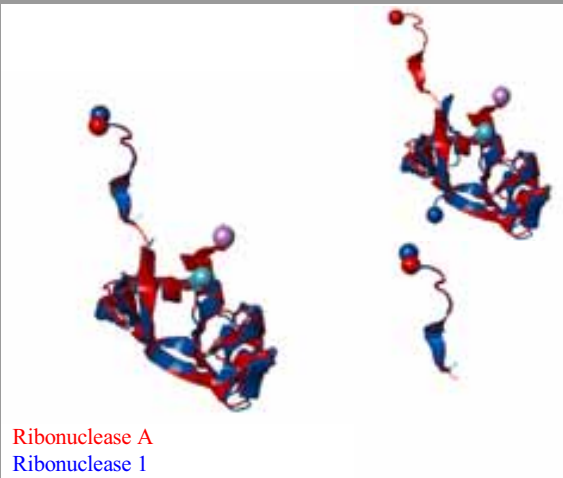
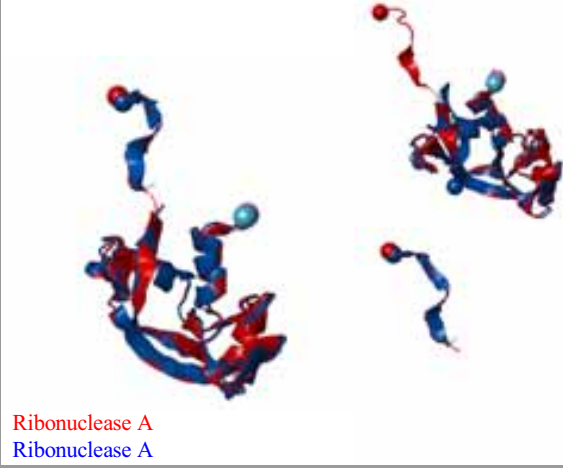
210	1dz3A (123)	97-112 (16)	98-112 (15)	101-112 (12)	C	0.69	1.71	97.48% (116/119)	29.41% (35/119)	 <p>Stage 0 sporulation protein a Sporulation response regulatory protein</p>
	InatA (119)	95-109 (15)	96-109 (14)	101-112 (12)						
211	1dz3A (123)	100-113 (14)	100-112 (13)	101-112 (12)	C	0.70	1.67	96.67% (116/120)	29.17% (35/120)	 <p>Stage 0 sporulation protein a Sporulation initiation phosphotransferase F</p>
	lpeyC (120)	98-110 (13)	98-109 (12)	101-112 (12)						
212	1dz3A (123)	96-112 (17)	98-112 (15)	101-109 (9)	C	0.51	2.43	92.68% (114/123)	26.83% (33/123)	 <p>Stage 0 sporulation protein a Sporulation initiation phosphotransferase F</p>
	lpxA (124)	94-109 (16)	96-109 (14)	101-109 (9)						

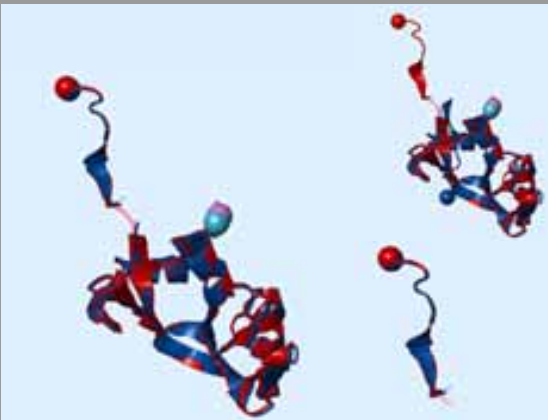
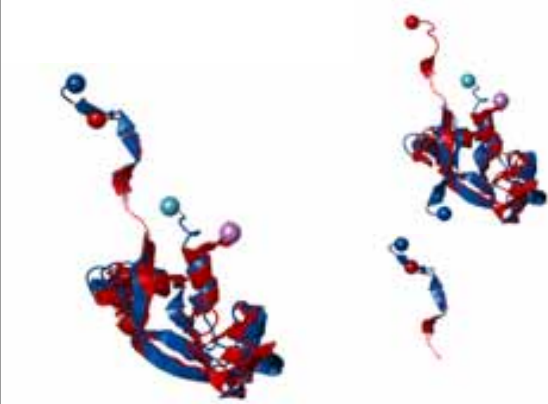
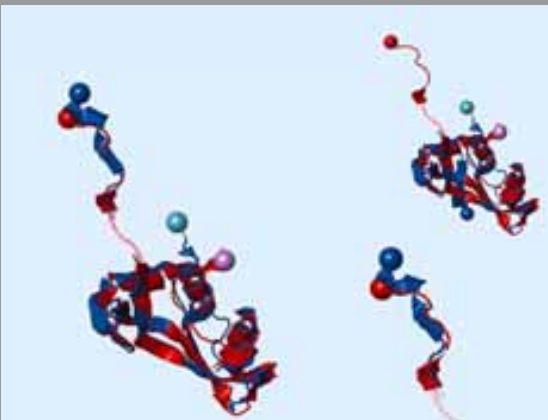
213	1dz3A (123)	105-112 (8)	105-112 (8)	105-111 (7)	C	0.26	2.50	87.80% (108/123)	9.76% (12/123)	 <p>Stage 0 sporulation protein a Probable hydrogenase nickel incorporation pro</p>
	2hf9A (211)	198-208 (11)	198-208 (11)	105-111 (7)						
214	1dz3A (123)	105-110 (6)	105-110 (6)	105-109 (5)	C	0.26	2.59	87.80% (108/123)	10.57% (13/123)	 <p>Stage 0 sporulation protein a Probable hydrogenase nickel incorporation pro</p>
	2hf9B (209)	198-203 (6)	198-203 (6)	105-109 (5)						
215	1dz3A (123)	98-112 (15)	99-112 (14)	104-111 (8)	C	0.51	2.40	93.28% (111/119)	12.61% (15/119)	 <p>Stage 0 sporulation protein a TWO-component sensor kinase</p>
	2j48A (119)	720-731 (12)	721-731 (11)	104-111 (8)						

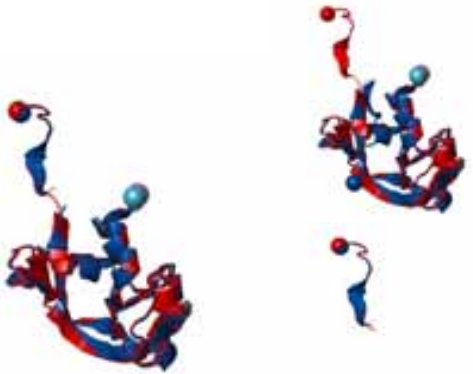
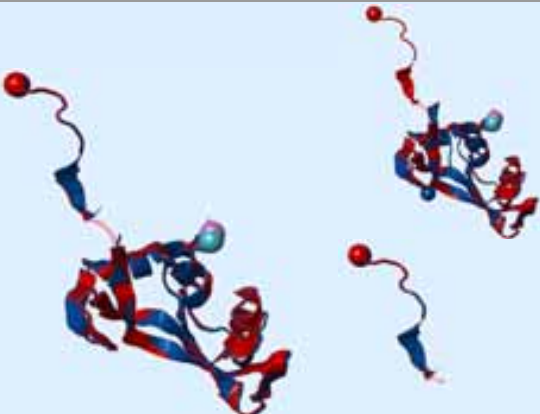
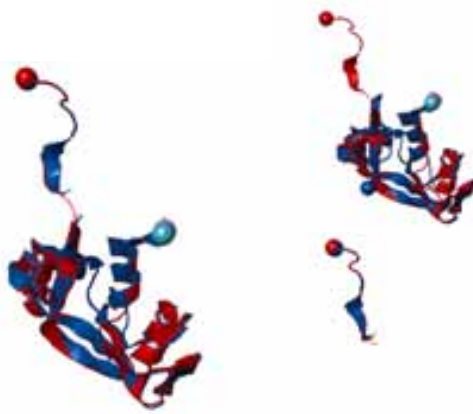
216	1dz3A (123)	95-112 (18)	107-112 (6)	104-108 (5)	C	0.64	1.98	98.37% (121/123)	22.76% (28/123)	 <p>Stage 0 sporulation protein a Two component transcriptional regulator, AraC</p>
	3cu5B (129)	95-115 (21)	107-115 (9)	104-108 (5)						
217	1dz3A (123)	105-112 (8)	105-112 (8)	106-112 (7)	C	0.68	1.74	97.56% (120/123)	21.14% (26/123)	 <p>Stage 0 sporulation protein a CHEY</p>
	6chyA (128)	109-115 (7)	109-115 (7)	106-112 (7)						
218	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.97	0.52	100.00% (124/124)	98.39% (122/124)	 <p>Ribonuclease A Ribonuclease A</p>
	1a5pA (124)	111-113 (3)	112-113 (2)	112-113 (2)						

219	1f0vA (124)	111-116 (6)	112-113 (2)	112-113 (2)	C	0.98	0.45	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease A</p>
	1a5qA (124)	111-116 (6)	112-113 (2)	112-113 (2)						
220	1f0vA (124)	112-123 (12)	112-123 (12)	112-120 (9)	C	0.65	1.75	93.50% (115/123)	27.64% (34/123)	 <p>Ribonuclease A Angiogenin</p>
	1awzA (123)	109-122 (14)	109-122 (14)	112-120 (9)						
221	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.56	100.00% (124/124)	94.35% (117/124)	 <p>Ribonuclease A Ribonuclease</p>
	1b6vA (124)	111-113 (3)	111-113 (3)	112-113 (2)						


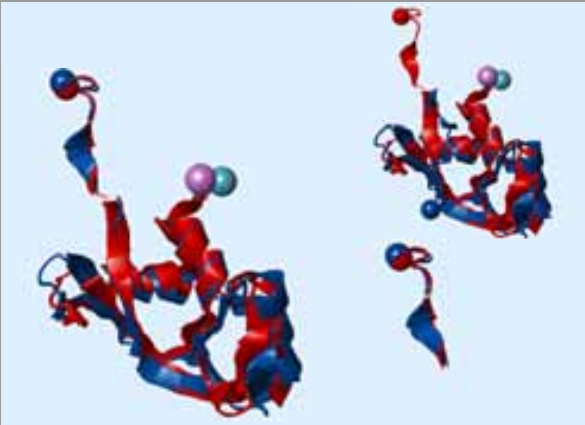
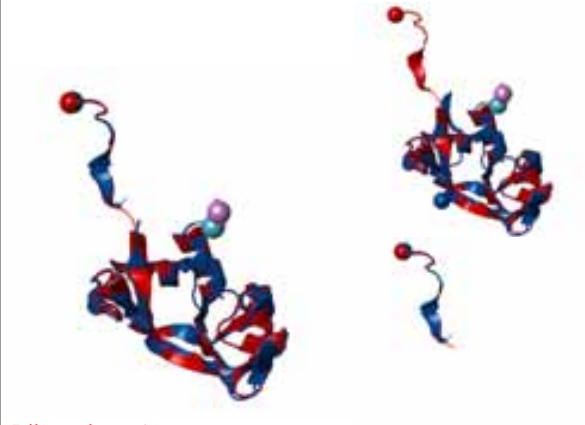
222	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.95	0.66	100.00% (124/124)	99.19% (123/124)	
	1c8wA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
223	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.56	100.00% (124/124)	99.19% (123/124)	
	1c9vA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
224	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.48	100.00% (124/124)	99.19% (123/124)	
	1c9xA (124)	111-113 (3)	111-113 (3)	112-113 (2)						

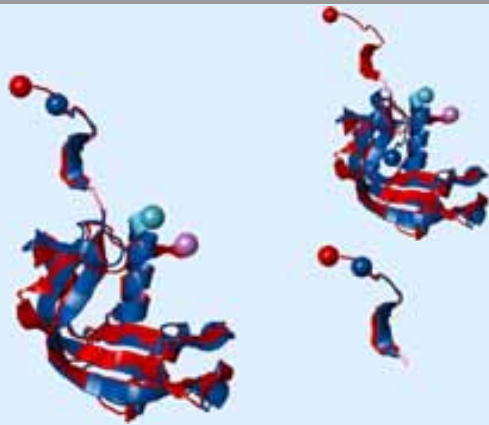
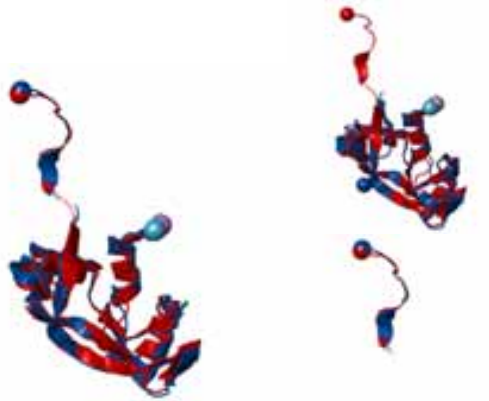
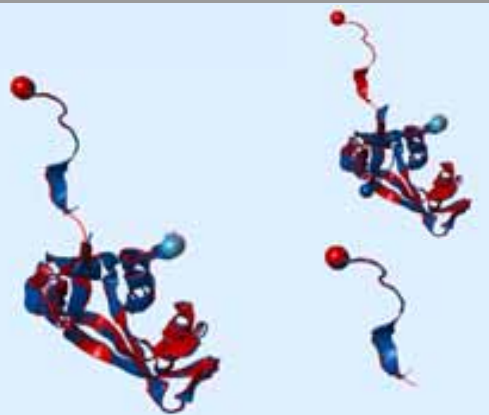
225	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.80	1.21	98.32% (117/119)	68.91% (82/119)	 Ribonuclease A Ribonuclease 1
	1e21A (119)	111-113 (3)	111-113 (3)	112-113 (2)						
226	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.56	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	1eicA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
227	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.96	0.61	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	1eidA (124)	111-113 (3)	112-113 (2)	112-113 (2)						

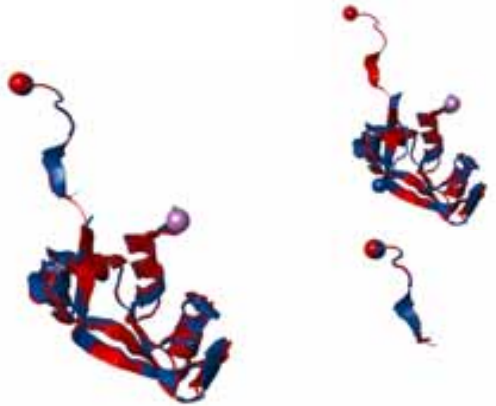

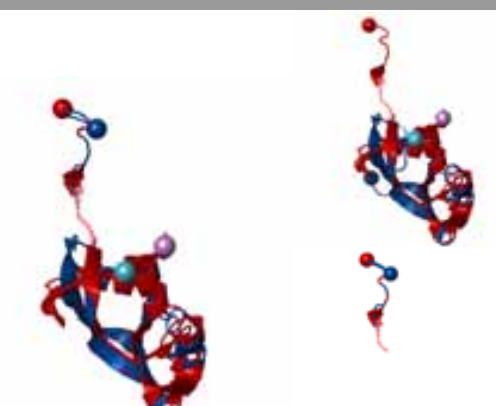
228	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.56	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	1eieA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
229	1f0vA (124)	112-123 (12)	112-115 (4)	112-115 (4)	C	0.56	1.95	89.52% (111/124)	33.06% (41/124)	 Ribonuclease A Angiogenin
	1gioA (125)	110-120 (11)	110-111 (2)	112-115 (4)						
230	1f0vA (124)	111-116 (6)	111-116 (6)	112-115 (4)	C	0.74	1.40	95.12% (117/123)	41.46% (51/123)	 Ribonuclease A Angiogenin
	1gv7A (123)	110-113 (4)	110-113 (4)	112-115 (4)						

231	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.48	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	lizpA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
232	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.52	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	lizqA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
233	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.91	0.96	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	lizrA (124)	111-113 (3)	111-113 (3)	112-113 (2)						

234	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.77	0.71	100.00% (101/101)	100.00% (101/101)	 Ribonuclease A Ribonuclease pancreatic
	1j80B (101)	111-113 (3)	112-113 (2)	112-113 (2)						
235	1f0vA (124)	110-116 (7)	111-116 (6)	111-116 (6)	C	0.91	0.73	98.39% (122/124)	97.58% (121/124)	 Ribonuclease A Pancreatic ribonuclease a
	1kh8A (125)	110-116 (7)	111-116 (6)	111-116 (6)						
236	1f0vA (124)	104-123 (20)	112-119 (8)	112-116 (5)	C	0.49	1.91	89.72% (96/107)	23.36% (25/107)	 Ribonuclease A RC-mase4
	1kvzA (107)	86-103 (18)	94-99 (6)	112-116 (5)						

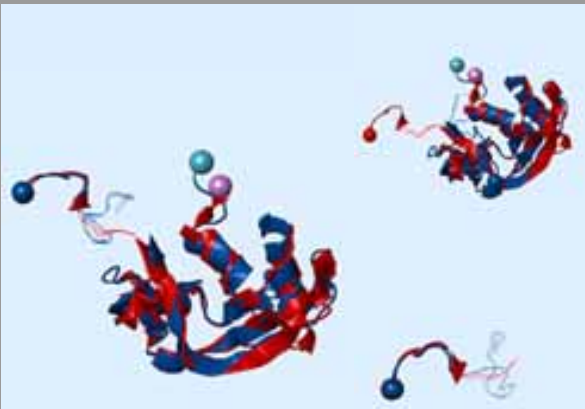
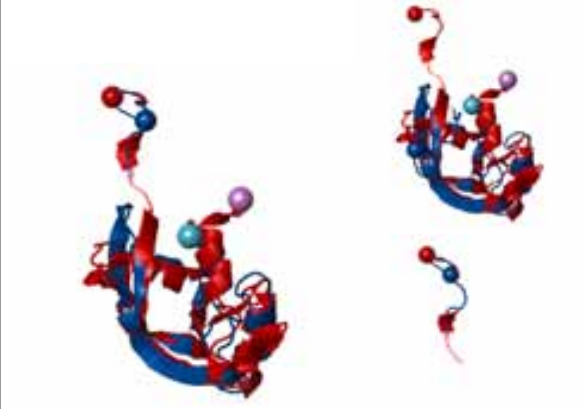
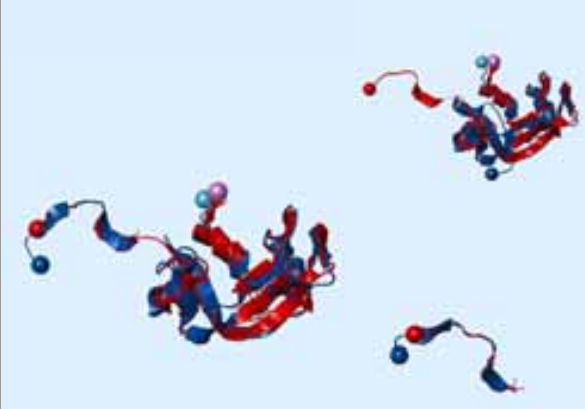
237	1f0vA (124)	105-119 (15)	109-116 (8)	112-115 (4)	C	0.55	1.68	92.38% (97/105)	24.76% (26/105)	 <p>Ribonuclease A P-30 protein</p>
	1pu3A (105)	86-98 (13)	90-95 (6)	112-115 (4)						
238	1f0vA (124)	107-114 (8)	108-114 (7)	113-114 (2)	C	0.67	1.90	96.77% (120/124)	77.42% (96/124)	 <p>Ribonuclease A Ribonuclease</p>
	1qwqA (124)	107-114 (8)	108-114 (7)	113-114 (2)						
239	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.97	0.47	100.00% (123/123)	100.00% (123/123)	 <p>Ribonuclease A Ribonuclease A</p>
	1rasA (123)	111-113 (3)	112-113 (2)	112-113 (2)						

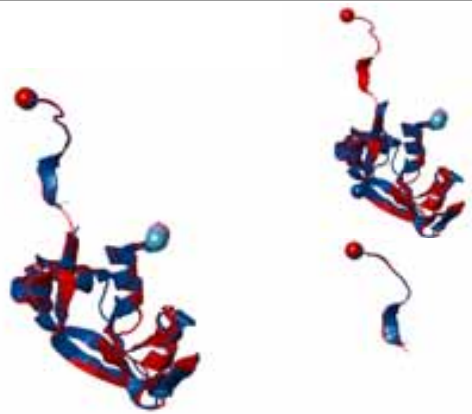
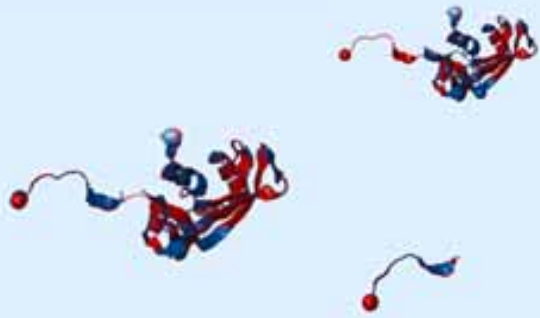
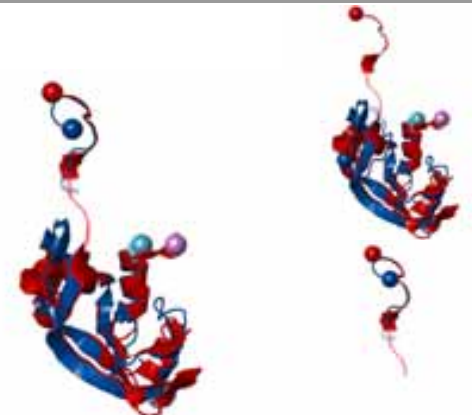
240	1f0vA (124)	112-115 (4)	112-115 (4)	112-113 (2)	C	0.79	1.20	97.50% (117/120)	43.33% (52/120)	 <p>Ribonuclease A Protein (ribonuclease 4)</p>
	1mfA (120)	109-112 (4)	109-112 (4)	112-113 (2)						
241	1f0vA (124)	108-116 (9)	111-114 (4)	112-114 (3)	C	0.89	1.04	100.00% (124/124)	66.94% (83/124)	 <p>Ribonuclease A Protein (ribonuclease)</p>
	1rraA (124)	108-116 (9)	111-114 (4)	112-114 (3)						
242	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.94	0.74	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	1ymnA (124)	111-113 (3)	111-113 (3)	112-113 (2)						

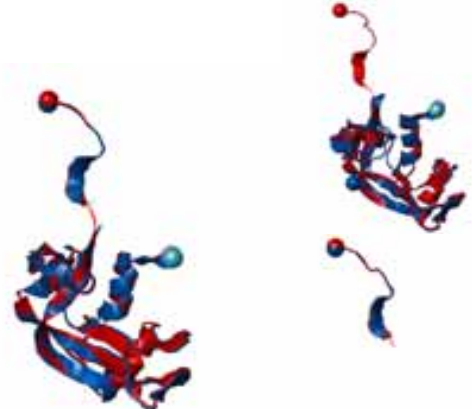
243	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.52	100.00% (124/124)	99.19% (123/124)	
	lymrA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
244	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.55	100.00% (124/124)	99.19% (123/124)	
	lymwA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
245	1f0vA (124)	104-116 (13)	110-115 (6)	112-115 (4)	C	0.54	1.78	93.27% (97/104)	26.92% (28/104)	
	lyv4A (104)	84-94 (11)	90-93 (4)	112-115 (4)						

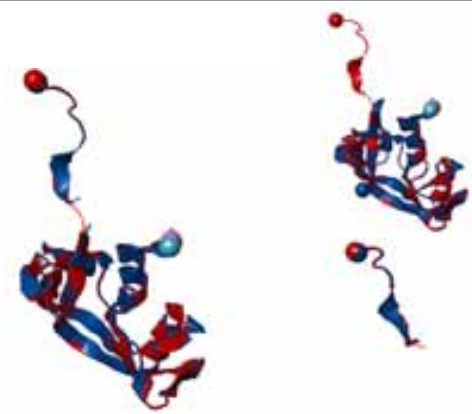
246	1f0vA (124)	107-113 (7)	111-113 (3)	112-113 (2)	C	0.88	1.13	100.00% (124/124)	100.00% (124/124)	 Ribonuclease A Ribonuclease A
	2aasA (124)	107-113 (7)	111-113 (3)	112-113 (2)						
247	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.85	1.13	100.00% (124/124)	70.16% (87/124)	 Ribonuclease A Ribonuclease
	2e0jA (128)	111-113 (3)	111-113 (3)	112-113 (2)						
248	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.90	0.86	100.00% (124/124)	69.35% (86/124)	 Ribonuclease A Ribonuclease
	2e0lA (128)	111-113 (3)	111-113 (3)	112-113 (2)						

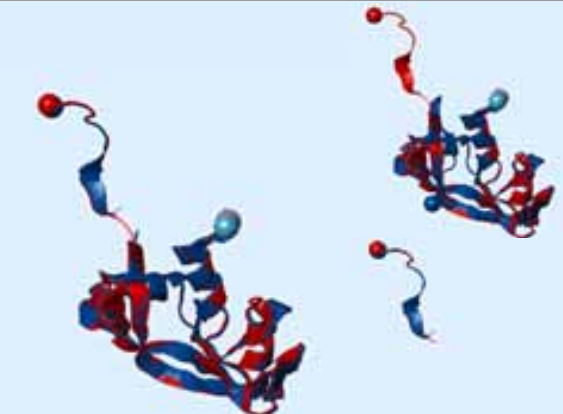
249	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.90	0.85	100.00% (124/124)	69.35% (86/124)	
	2e0mA (128)	111-113 (3)	111-113 (3)	112-113 (2)						
250	1f0vA (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.89	0.92	99.19% (123/124)	68.55% (85/124)	
	2e0oA (126)	112-113 (2)	112-113 (2)	112-113 (2)						
251	1f0vA (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.89	1.01	100.00% (124/124)	69.35% (86/124)	
	2e0oB (125)	112-113 (2)	112-113 (2)	112-113 (2)						

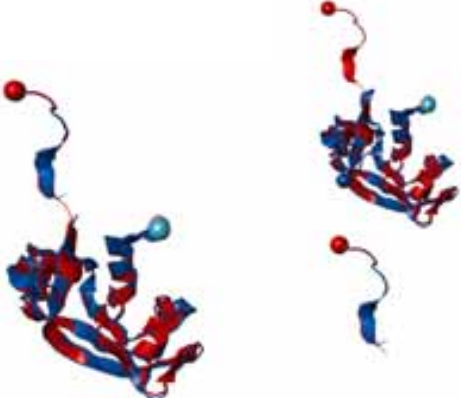

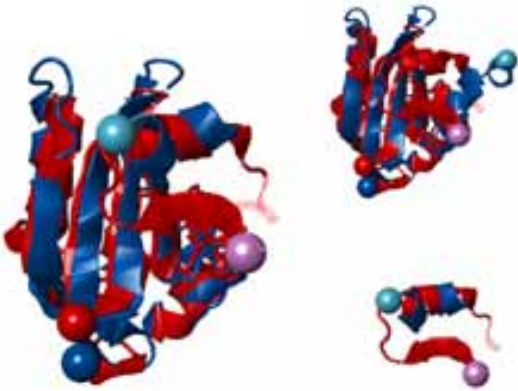
252	1f0vA (124)	105-123 (19)	112-123 (12)	112-116 (5)	C	0.58	1.80	90.32% (112/124)	41.13% (51/124)	
	2hkyA (129)	101-127 (27)	108-127 (20)	112-116 (5)						
253	1f0vA (124)	110-116 (7)	112-115 (4)	112-115 (4)	C	0.54	1.75	93.27% (97/104)	27.88% (29/104)	
	2i5sX (104)	90-94 (5)	92-93 (2)	112-115 (4)						
254	1f0vA (124)	109-114 (6)	109-114 (6)	112-113 (2)	C	0.76	1.56	99.19% (123/124)	69.35% (86/124)	
	2k11A (127)	109-114 (6)	109-114 (6)	112-113 (2)						

255	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.97	0.52	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	2nuiA (124)	111-113 (3)	112-113 (2)	112-113 (2)						
256	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.95	0.65	100.00% (124/124)	98.39% (122/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	2op2A (124)	111-113 (3)	112-113 (2)	112-113 (2)						
257	1f0vA (124)	110-116 (7)	111-116 (6)	111-115 (5)	C	0.55	1.63	89.91% (98/109)	26.61% (29/109)	 <p>Ribonuclease A Recombinant amphinase-2</p>
	2p6zB (109)	100-104 (5)	101-104 (4)	111-115 (5)						

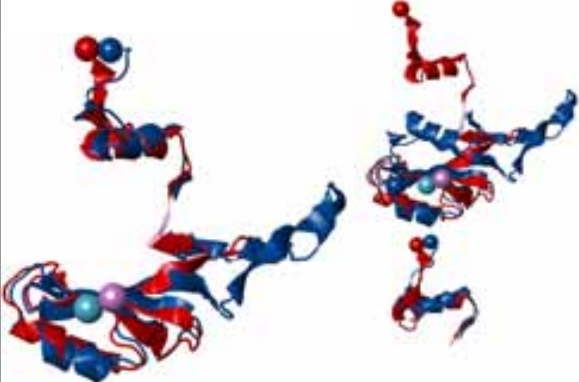
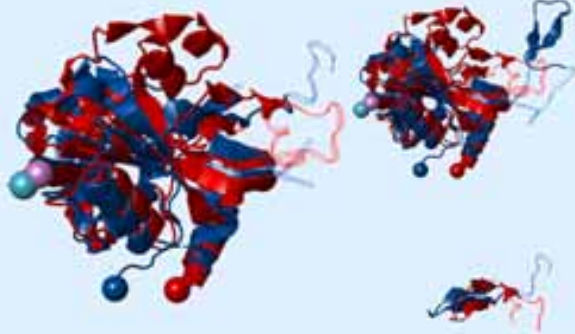
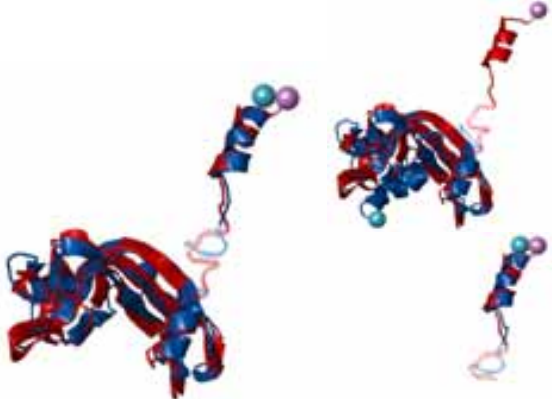
258	1f0vA (124)	111-115 (5)	111-113 (3)	112-113 (2)	C	0.90	0.81	99.19% (123/124)	69.35% (86/124)	
	2q4gX (126)	111-115 (5)	111-113 (3)	112-113 (2)						
259	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.97	0.49	100.00% (124/124)	99.19% (123/124)	
	3dh6A (124)	111-113 (3)	112-113 (2)	112-113 (2)						
260	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.50	100.00% (124/124)	99.19% (123/124)	
	3di7A (124)	111-113 (3)	111-113 (3)	112-113 (2)						

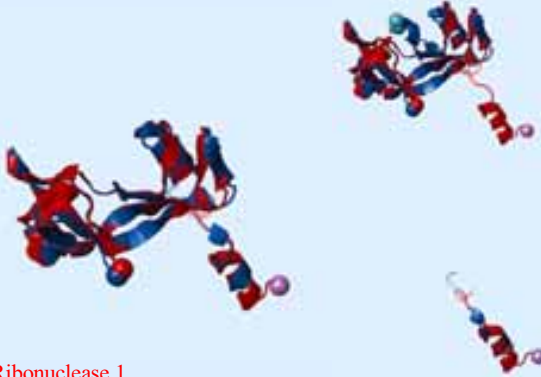
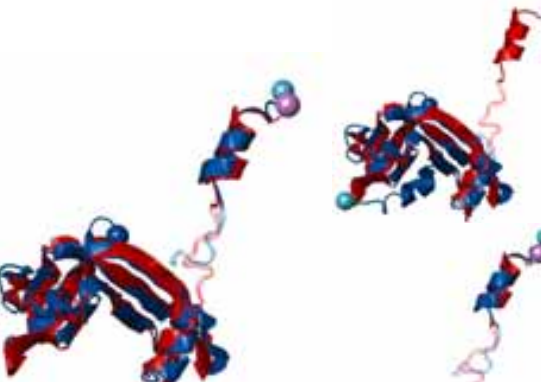

261	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.98	0.47	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	3di8A (124)	111-113 (3)	112-113 (2)	112-113 (2)						
262	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.55	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	3di9A (124)	111-113 (3)	111-113 (3)	112-113 (2)						
263	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.97	0.51	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	3dibA (124)	111-113 (3)	112-113 (2)	112-113 (2)						

264	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.97	0.48	100.00% (124/124)	99.19% (123/124)	
	3dicA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
265	1f0vA (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.98	0.46	100.00% (124/124)	99.19% (123/124)	
	3rsdA (124)	111-113 (3)	112-113 (2)	112-113 (2)						
266	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.98	0.48	100.00% (124/124)	97.58% (121/124)	
	3rskA (124)	111-113 (3)	111-113 (3)	112-113 (2)						

267	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.96	0.58	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease A</p>
	3rspA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
268	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.96	0.59	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease A</p>
	4rsdA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
269	1f98A (125)	10-31 (22)	10-23 (14)	19-23 (5)	N	0.54	2.10	91.60% (109/119)	13.45% (16/119)	 <p>Photoactive yellow protein Hypothetical protein yddU</p>
	1s67L (119)	17-34 (18)	17-26 (10)	19-23 (5)						

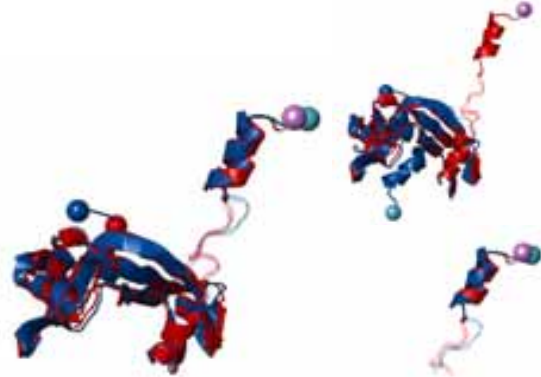


270	1f98A (125)	22-28 (7)	22-23 (2)	22-23 (2)	N	0.37	2.23	93.04% (107/115)	13.91% (16/115)	 <p>Photoactive yellow protein Hypothetical protein yddU</p>
	1s67U (115)	25-31 (7)	25-26 (2)	22-23 (2)						
271	1f98A (125)	10-24 (15)	14-24 (11)	15-23 (9)	N	0.55	2.00	93.81% (106/113)	14.16% (16/113)	 <p>Photoactive yellow protein Heme pas sensor protein</p>
	1v9zA (113)	21-27 (7)	25-27 (3)	15-23 (9)						
272	1f98A (125)	14-25 (12)	14-24 (11)	15-23 (9)	N	0.55	2.04	93.86% (107/114)	14.04% (16/114)	 <p>Photoactive yellow protein Heme pas sensor protein</p>
	1vb6A (114)	25-28 (4)	25-27 (3)	15-23 (9)						

273	1fyrA (95)	98-127 (30)	114-123 (10)	120-123 (4)	C	0.41	1.64	93.68% (89/95)	26.32% (25/95)	 <p>Growth factor receptor-bound protein 2 Crk</p>
	1ju5A (109)	50-96 (47)	83-92 (10)	120-123 (4)						
274	1gq9A (241)	182-198 (17), 196-213 (18)	185-198 (14), 196-213 (18)	130-140 (11), 159-168 (10)	M	0.41	2.30	88.16% (201/228)	17.54% (40/228)	 <p>3-deoxy-manno-octulosonate cytidyltransferase Cytidine monophospho- N-acetylneuraminic acid</p>
	1qwjA (228)	222-232 (11), 230-234 (5)	225-232 (8), 230-234 (5)	130-140 (11), 159-168 (10)						
275	1h8xA (125)	112-126 (15)	112-124 (13)	116-124 (9)	N	0.63	1.65	91.06% (112/123)	33.33% (41/123)	 <p>Ribonuclease 1 Angiogenin</p>
	1awzA (123)	13-26 (14)	13-24 (12)	116-124 (9)						

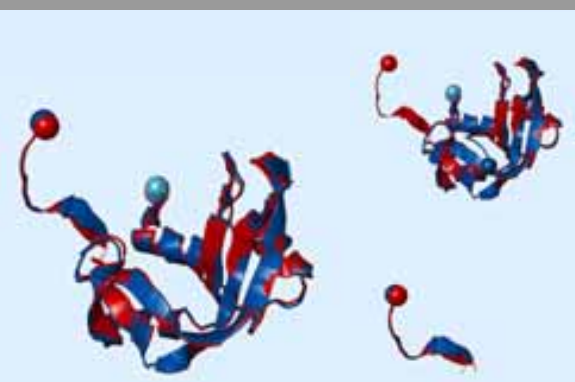
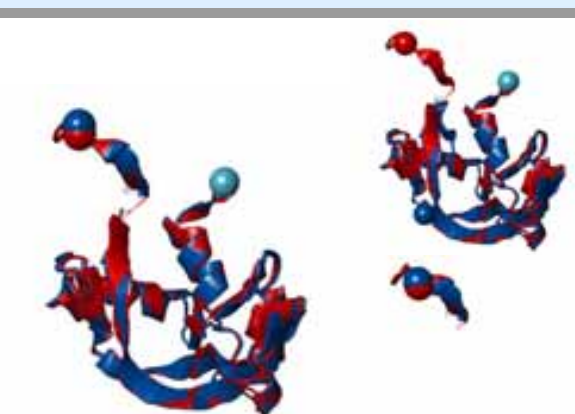
276	1h8xA (125)	117-123 (7)	117-123 (7)	118-123 (6)	N	0.86	0.78	98.32% (117/119)	94.12% (112/119)	 Ribonuclease 1 Ribonuclease 1
	1e21A (119)	17-23 (7)	17-23 (7)	118-123 (6)						
277	1h8xA (125)	109-124 (16)	112-124 (13)	115-124 (10)	N	0.58	1.90	90.40% (113/125)	30.40% (38/125)	 Ribonuclease 1 Angiogenin
	1gioA (125)	11-25 (15)	14-25 (12)	115-124 (10)						
278	1h8xA (125)	111-128 (18)	111-127 (17)	116-124 (9)	N	0.63	1.54	90.24% (111/123)	32.52% (40/123)	 Ribonuclease 1 Angiogenin
	1k58A (123)	12-28 (17)	12-27 (16)	116-124 (9)						

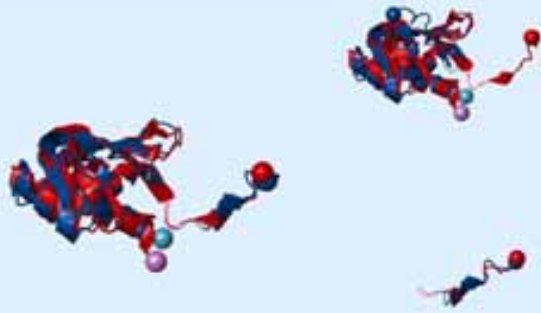
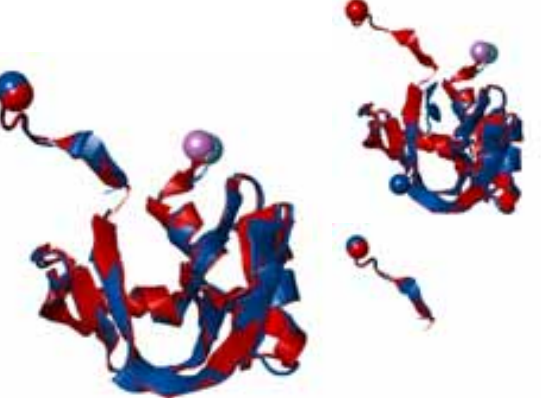
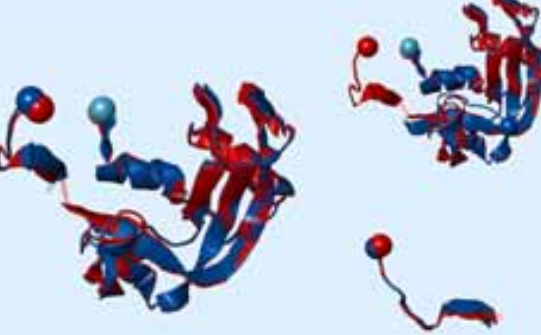
279	1h8xA (125)	114-152 (39)	114-128 (15)	114-126 (13)	N	0.51	1.94	91.59% (98/107)	23.36% (25/107)	 <p>Ribonuclease 1 RC-mase4</p>
	1kvzA (107)	13-43 (31)	13-22 (10)	114-126 (13)						
280	1h8xA (125)	114-127 (14)	114-125 (12)	118-125 (8)	N	0.56	1.65	93.27% (97/104)	24.04% (25/104)	 <p>Ribonuclease 1 P-30 protein</p>
	1oncA (104)	12-20 (9)	12-18 (7)	118-125 (8)						
281	1h8xA (125)	112-124 (13)	112-124 (13)	121-124 (4)	N	0.68	1.68	95.16% (118/124)	70.97% (88/124)	 <p>Ribonuclease 1 Ribonuclease</p>
	1qwqA (124)	12-24 (13)	12-24 (13)	121-124 (4)						

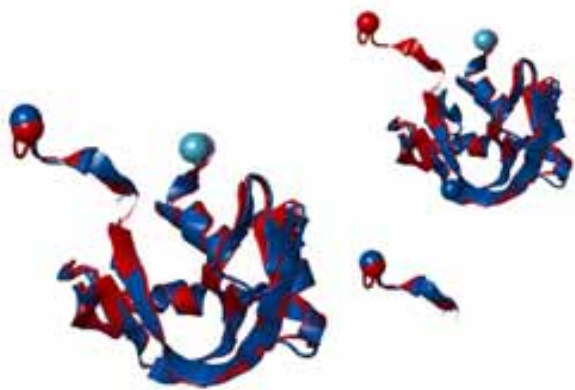

282	1h8xA (125)	112-127 (16)	114-125 (12)	118-125 (8)	N	0.56	1.67	95.10% (97/102)	24.51% (25/102)	 <p>Ribonuclease 1 P-30 protein</p>
	1yv7A (102)	10-20 (11)	12-18 (7)	118-125 (8)						
283	1h8xA (125)	112-125 (14)	112-125 (14)	119-125 (7)	N	0.78	1.32	96.77% (120/124)	70.16% (87/124)	 <p>Ribonuclease 1 Ribonuclease A</p>
	2aasA (124)	12-25 (14)	12-25 (14)	119-125 (7)						
284	1h8xA (125)	108-125 (18)	108-125 (18)	113-125 (13)	N	0.57	1.78	88.80% (111/125)	33.60% (42/125)	 <p>Ribonuclease 1 Ribonuclease 7</p>
	2hkyA (129)	11-22 (12)	11-22 (12)	113-125 (13)						

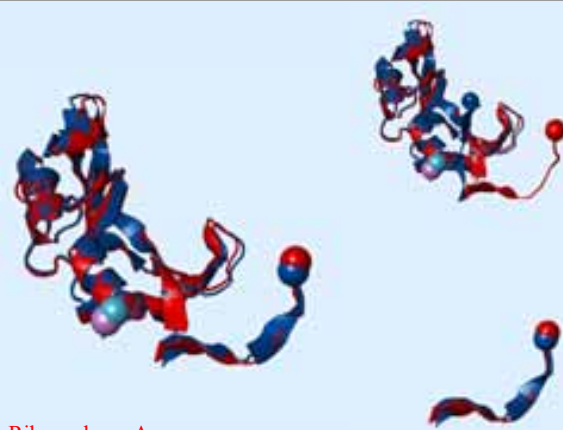
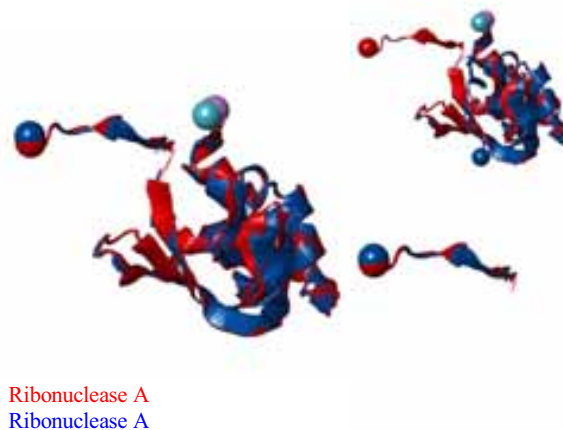
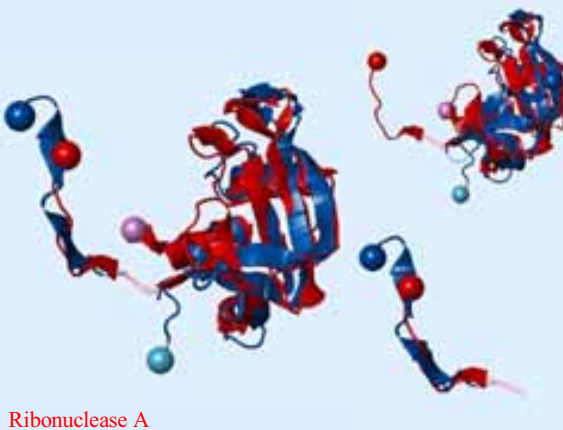
285	1h8xA (125)	110-130 (21)	110-124 (15)	115-123 (9)	N	0.73	1.58	97.60% (122/125)	89.60% (112/125)	 <p>Ribonuclease 1 Pancreatic ribonuclease</p>
	2k11A (127)	10-30 (21)	10-24 (15)	115-123 (9)						
286	1jmlA (72)	51-56 (6)	52-56 (5)	52-56 (5)	C	0.74	1.58	97.22% (70/72)	87.50% (63/72)	 <p>Protein L Protein L</p>
	1k52A (72)	51-56 (6)	52-56 (5)	52-56 (5)						
287	1jmlA (72)	51-56 (6)	52-56 (5)	52-56 (5)	C	0.74	1.56	97.22% (70/72)	87.50% (63/72)	 <p>Protein L Protein L</p>
	1k53A (72)	51-56 (6)	52-56 (5)	52-56 (5)						

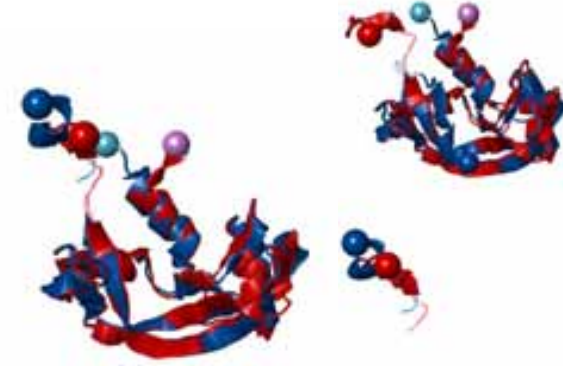
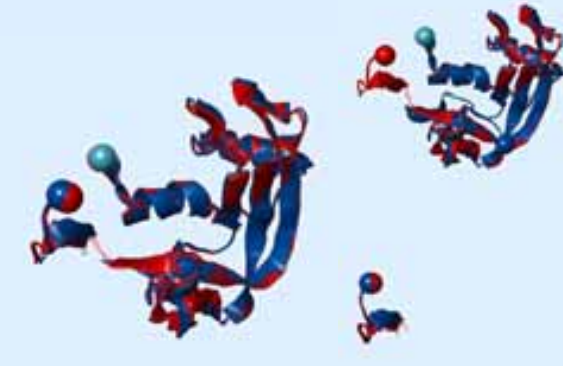
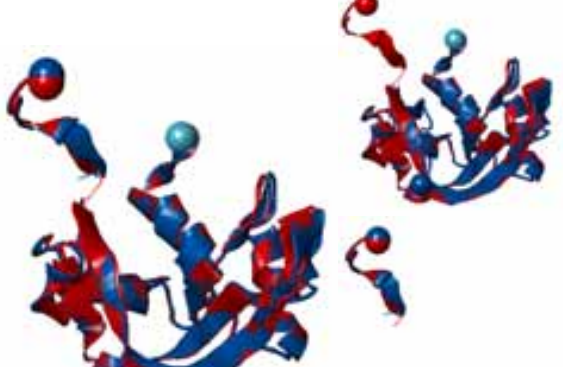
288	1jmlA (72)	35-63 (29)	35-63 (29)	51-56 (6)	C	0.73	1.40	98.48% (65/66)	54.55% (36/66)	 Protein L Protein L
	1xcqL (66)	52-81 (30)	52-81 (30)	51-56 (6)						
289	1jmlA (72)	37-58 (22)	37-58 (22)	51-58 (8)	C	0.73	1.28	100.00% (62/62)	66.13% (41/62)	 Protein L Protein L
	1xcqM (62)	54-75 (22)	54-75 (22)	51-58 (8)						
290	1jmlA (72)	38-59 (22)	38-58 (21)	51-56 (6)	C	0.71	1.28	96.88% (62/64)	65.63% (42/64)	 Protein L Protein L
	1xcqN (64)	55-76 (22)	55-75 (21)	51-56 (6)						

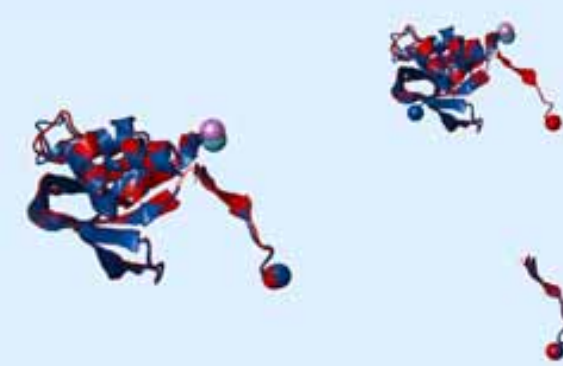
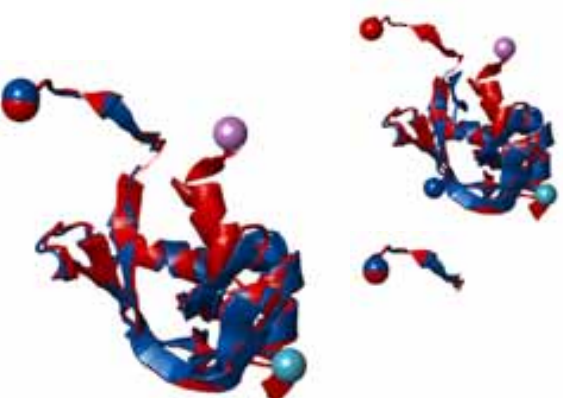

291	1jmlA (72)	49-63 (15)	52-57 (6)	52-55 (4)	C	0.69	1.17	92.54% (62/67)	55.22% (37/67)	 Protein L Protein L
	1xf5M (67)	66-81 (16)	69-75 (7)	52-55 (4)						
292	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.81	0.61	100.00% (124/124)	98.39% (122/124)	 Ribonuclease A Ribonuclease A
	1a5pA (124)	112-113 (2)	112-113 (2)	112-113 (2)						
293	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.79	0.60	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	1a5qA (124)	112-113 (2)	112-113 (2)	112-113 (2)						

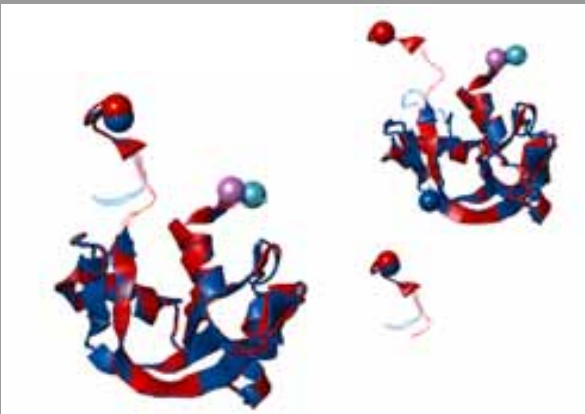
294	ljs0A (124)	107-123 (17)	111-123 (13)	112-115 (4)	C	0.59	1.74	93.50% (115/123)	27.64% (34/123)	 <p>Ribonuclease A Angiogenin</p>
	lawzA (123)	104-122 (19)	108-122 (15)	112-115 (4)						
295	ljs0A (124)	111-115 (5)	112-113 (2)	112-113 (2)	C	0.80	0.68	100.00% (124/124)	94.35% (117/124)	 <p>Ribonuclease A Ribonuclease</p>
	1b6vA (124)	111-115 (5)	112-113 (2)	112-113 (2)						
296	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.75	0.76	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Protein (ribonuclease A)</p>
	1c8wA (124)	112-113 (2)	112-113 (2)	112-113 (2)						

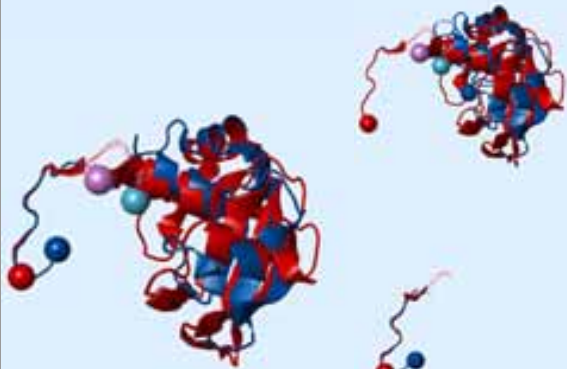
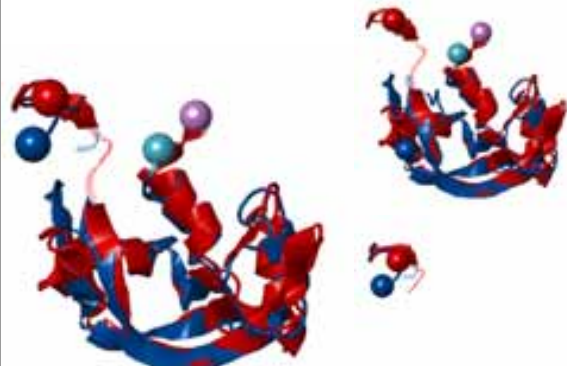
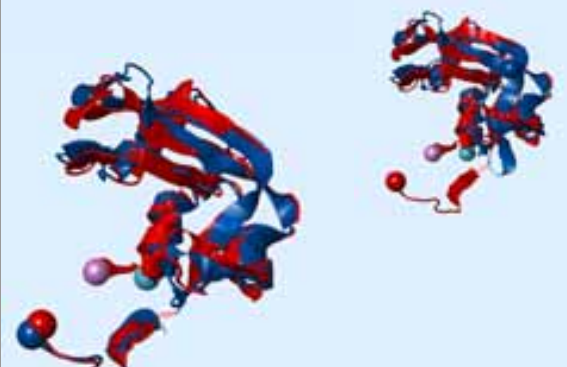
297	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.78	0.66	100.00% (124/124)	99.19% (123/124)	
	1c9vA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
298	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.79	0.58	100.00% (124/124)	99.19% (123/124)	
	1c9xA (124)	112-113 (2)	112-113 (2)	112-113 (2)						
299	ljs0A (124)	112-115 (4)	112-113 (2)	112-114 (3)	C	0.71	1.29	98.32% (117/119)	68.91% (82/119)	
	1e21A (119)	112-115 (4)	112-113 (2)	112-114 (3)						

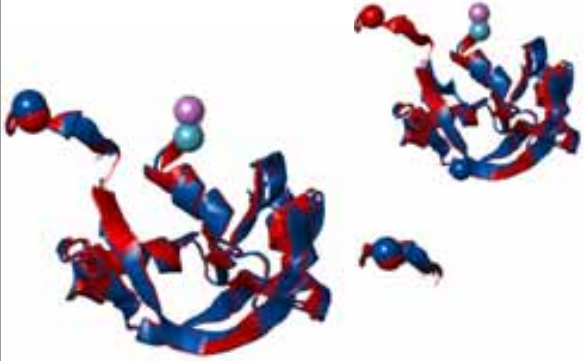
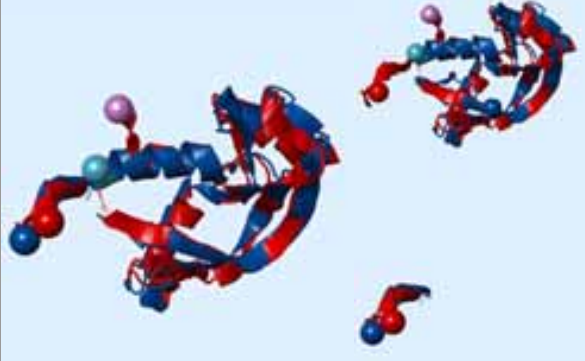
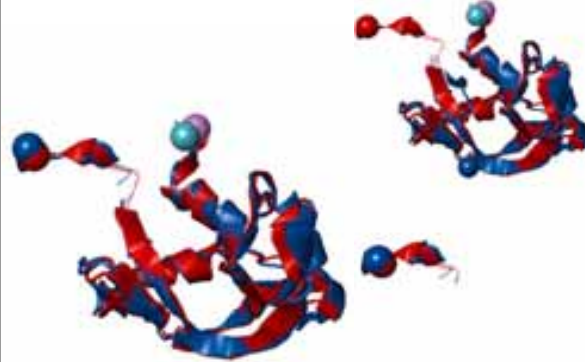
300	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.75	0.76	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	leidA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
301	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.74	0.73	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	leieA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
302	ljs0A (124)	107-123 (17)	112-115 (4)	112-115 (4)	C	0.45	1.92	88.71% (110/124)	32.26% (40/124)	 Ribonuclease A Angiogenin
	lgioA (125)	105-120 (16)	110-111 (2)	112-115 (4)						

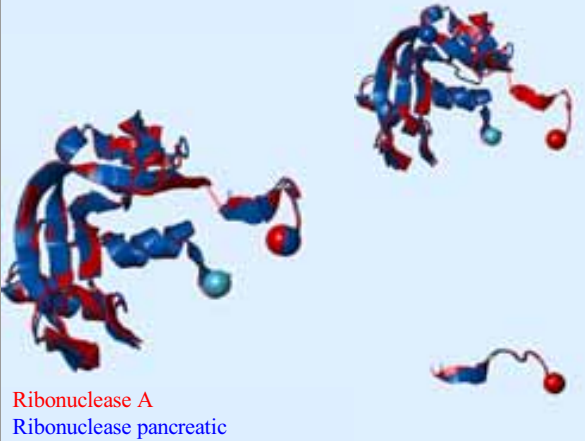
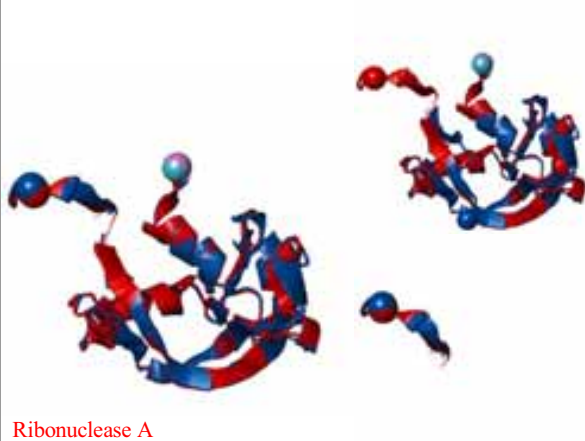
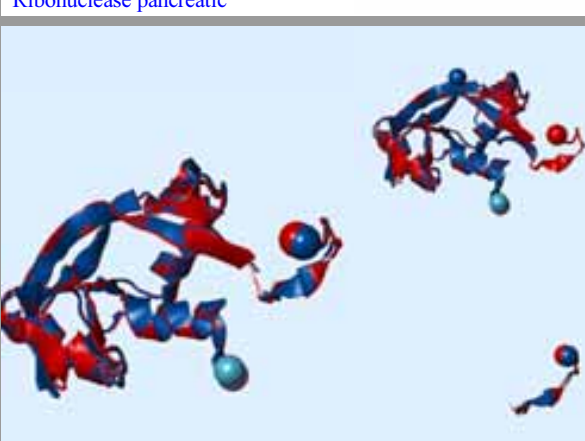
303	ljs0A (124)	111-116 (6)	111-115 (5)	111-115 (5)	C	0.57	1.41	95.12% (117/123)	41.46% (51/123)	 <p>Ribonuclease A Angiogenin</p>
	lgv7A (123)	110-113 (4)	110-112 (3)	111-115 (5)						
304	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.80	0.61	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease A</p>
	lizpA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
305	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.77	0.66	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease A</p>
	lizqA (124)	112-115 (4)	112-113 (2)	112-113 (2)						

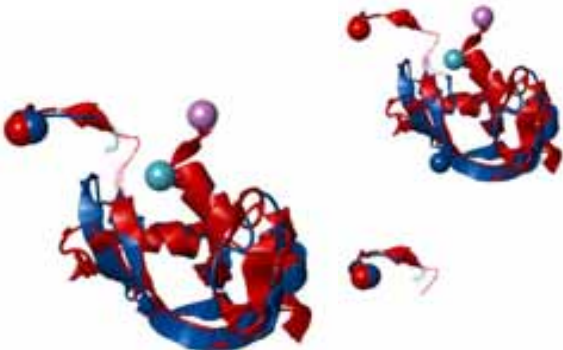
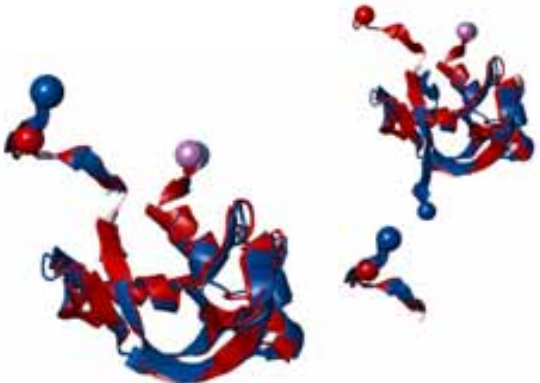
306	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.75	1.05	100.00% (124/124)	99.19% (123/124)	 Ribonuclease A Ribonuclease A
	lizrA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
307	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.65	0.70	100.00% (101/101)	100.00% (101/101)	 Ribonuclease A Ribonuclease pancreatic
	lj80B (101)	112-113 (2)	112-113 (2)	112-113 (2)						
308	ljs0A (124)	111-116 (6)	111-115 (5)	112-115 (4)	C	0.54	1.56	95.76% (113/118)	31.36% (37/118)	 Ribonuclease A Angiogenin
	1k5aA (118)	108-111 (4)	108-110 (3)	112-115 (4)						

309	ljs0A (124)	110-116 (7)	110-116 (7)	111-116 (6)	C	0.92	0.66	98.39% (122/124)	98.39% (122/124)	 <p>Ribonuclease A Pancreatic ribonuclease a</p>
	lkh8A (125)	110-116 (7)	110-116 (7)	111-116 (6)						
310	ljs0A (124)	112-119 (8)	112-119 (8)	112-116 (5)	C	0.41	2.08	91.59% (98/107)	26.17% (28/107)	 <p>Ribonuclease A RC-mase4</p>
	lkvzA (107)	94-99 (6)	94-99 (6)	112-116 (5)						
311	ljs0A (124)	106-116 (11)	110-116 (7)	111-115 (5)	C	0.34	2.06	91.51% (97/106)	28.30% (30/106)	 <p>Ribonuclease A RC-mase2 ribonuclease</p>
	lm58A (106)	87-95 (9)	91-95 (5)	111-115 (5)						

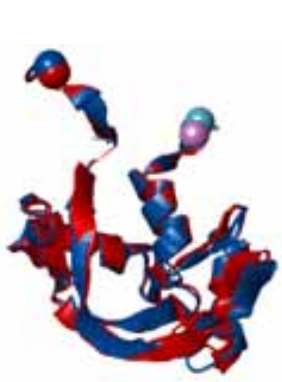
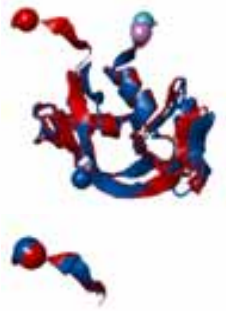


312	ljs0A (124)	111-116 (6)	111-115 (5)	112-115 (4)	C	0.41	1.84	92.38% (97/105)	23.81% (25/105)	 <p>Ribonuclease A RC-mase6 ribonuclease</p>
	loj8A (105)	91-94 (4)	91-93 (3)	112-115 (4)						
313	ljs0A (124)	105-123 (19)	106-118 (13)	111-115 (5)	C	0.44	1.76	92.38% (97/105)	26.67% (28/105)	 <p>Ribonuclease A P-30 protein</p>
	lpu3A (105)	86-102 (17)	87-97 (11)	111-115 (5)						
314	ljs0A (124)	107-113 (7)	108-113 (6)	111-113 (3)	C	0.55	1.92	95.97% (119/124)	75.81% (94/124)	 <p>Ribonuclease A Ribonuclease</p>
	lqwqA (124)	107-113 (7)	108-113 (6)	111-113 (3)						

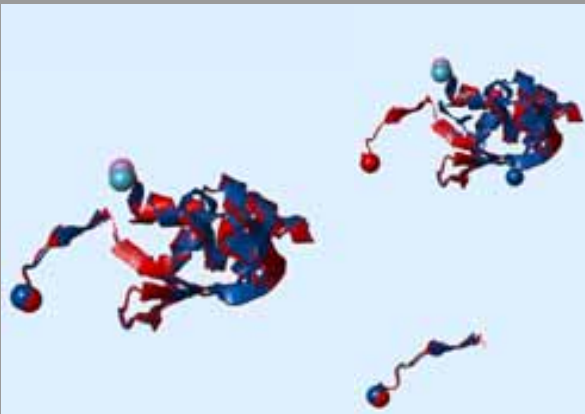
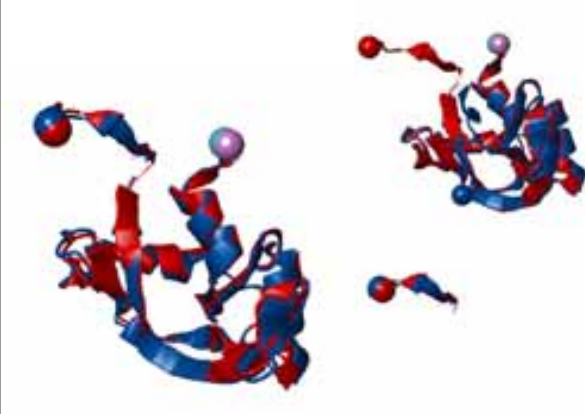

315	ljs0A (124)	112-115 (4)	112-115 (4)	112-113 (2)	C	0.79	0.54	100.00% (123/123)	100.00% (123/123)	 <p>Ribonuclease A Ribonuclease A</p>
	lrasA (123)	112-115 (4)	112-115 (4)	112-113 (2)						
316	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.55	1.31	97.50% (117/120)	43.33% (52/120)	 <p>Ribonuclease A Protein (ribonuclease 4)</p>
	lrfA (120)	109-110 (2)	109-110 (2)	112-113 (2)						
317	ljs0A (124)	107-115 (9)	112-115 (4)	112-115 (4)	C	0.76	1.07	100.00% (124/124)	66.94% (83/124)	 <p>Ribonuclease A Protein (ribonuclease)</p>
	lrraA (124)	107-115 (9)	112-115 (4)	112-115 (4)						

318	ljs0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.77	0.88	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	lymrA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
319	ljs0A (124)	111-115 (5)	112-113 (2)	112-113 (2)	C	0.79	0.61	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	lymrA (124)	111-115 (5)	112-113 (2)	112-113 (2)						
320	ljs0A (124)	111-115 (5)	112-113 (2)	112-113 (2)	C	0.80	0.67	100.00% (124/124)	99.19% (123/124)	 <p>Ribonuclease A Ribonuclease pancreatic</p>
	lymwA (124)	111-115 (5)	112-113 (2)	112-113 (2)						

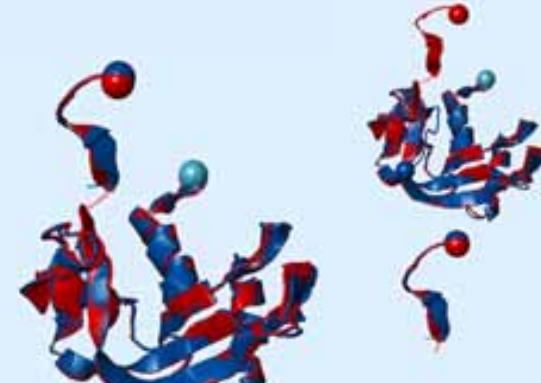
321	ljs0A (124)	110-116 (7)	110-115 (6)	111-115 (5)	C	0.44	1.83	95.10% (97/102)	28.43% (29/102)	 <p>Ribonuclease A P-30 protein</p>
	lyv7A (102)	90-94 (5)	90-93 (4)	111-115 (5)						
322	ljs0A (124)	107-123 (17)	111-113 (3)	112-113 (2)	C	0.67	1.27	100.00% (124/124)	100.00% (124/124)	 <p>Ribonuclease A Ribonuclease A</p>
	2aasA (124)	107-123 (17)	111-113 (3)	112-113 (2)						
323	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.65	1.08	99.19% (123/124)	68.55% (85/124)	 <p>Ribonuclease A Ribonuclease</p>
	2e0jA (128)	112-113 (2)	112-113 (2)	112-113 (2)						

324	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.78	0.88	100.00% (124/124)	69.35% (86/124)	
	2e0lA (128)	112-113 (2)	112-113 (2)	112-113 (2)						
325	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.74	0.88	100.00% (124/124)	69.35% (86/124)	
	2e0mA (128)	112-113 (2)	112-113 (2)	112-113 (2)						
326	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.70	1.02	99.19% (123/124)	68.55% (85/124)	
	2e0oA (126)	112-113 (2)	112-113 (2)	112-113 (2)						

327	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.70	1.12	100.00% (124/124)	69.35% (86/124)	 
	2e0oB (125)	112-115 (4)	112-113 (2)	112-113 (2)						
328	1js0A (124)	112-119 (8)	113-119 (7)	112-116 (5)	C	0.51	1.86	90.32% (112/124)	41.94% (52/124)	 
	2hkyA (129)	108-123 (16)	109-123 (15)	112-116 (5)						
329	1js0A (124)	109-123 (15)	112-115 (4)	112-115 (4)	C	0.68	1.63	99.19% (123/124)	69.35% (86/124)	 
	2k11A (127)	109-123 (15)	112-115 (4)	112-115 (4)						

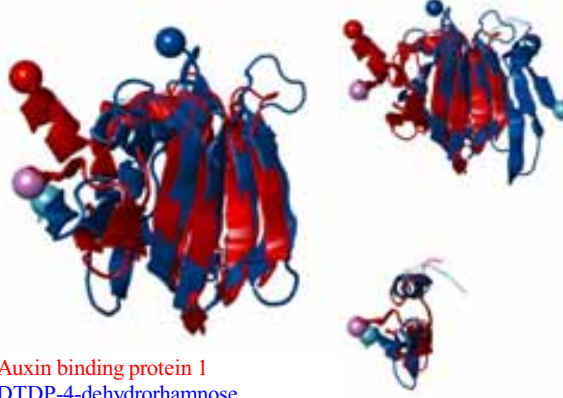
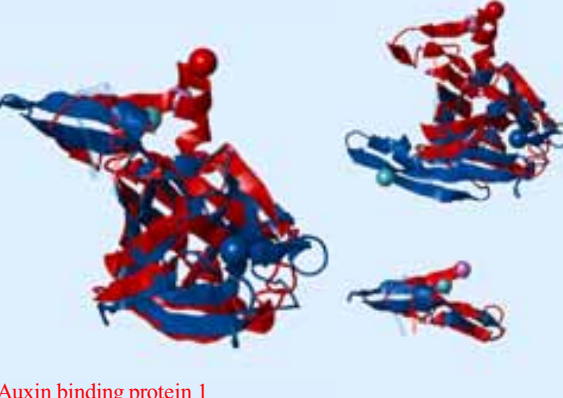
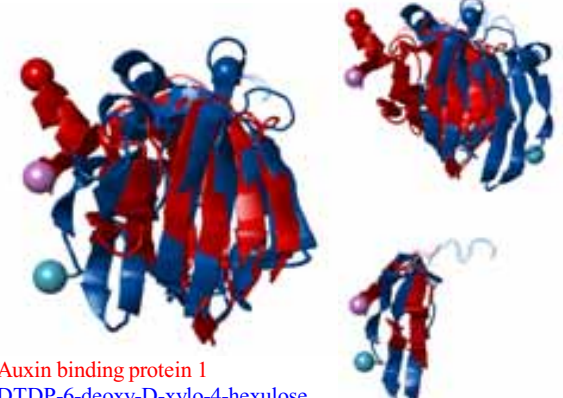
330	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.79	0.59	100.00% (124/124)	99.19% (123/124)	
	2nuiA (124)	112-113 (2)	112-113 (2)	112-113 (2)						
331	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.76	0.79	100.00% (124/124)	98.39% (122/124)	
	2op2A (124)	112-113 (2)	112-113 (2)	112-113 (2)						
332	1js0A (124)	112-119 (8)	112-113 (2)	112-113 (2)	C	0.74	0.84	99.19% (123/124)	69.35% (86/124)	
	2q4gX (126)	112-119 (8)	112-113 (2)	112-113 (2)						

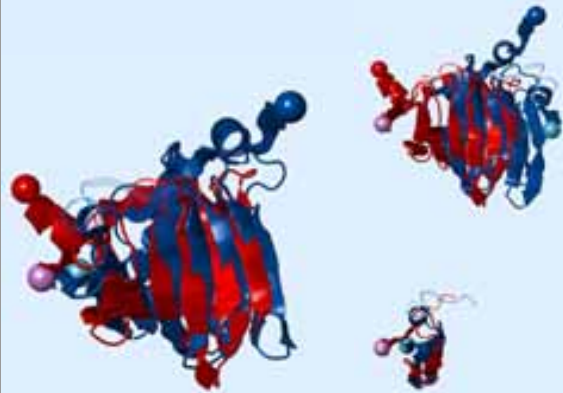
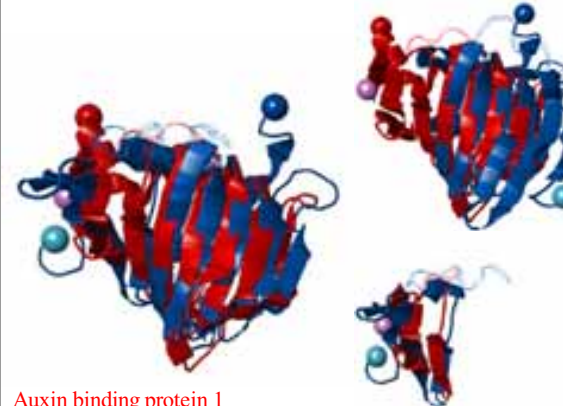
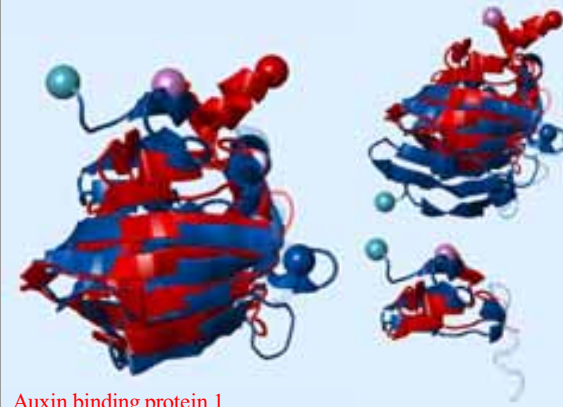
333	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.78	0.62	100.00% (124/124)	99.19% (123/124)	
	3dh6A (124)	112-113 (2)	112-113 (2)	112-113 (2)						
334	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.76	0.64	100.00% (124/124)	99.19% (123/124)	
	3di7A (124)	112-115 (4)	112-113 (2)	112-113 (2)						
335	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.77	0.59	100.00% (124/124)	99.19% (123/124)	
	3di8A (124)	112-115 (4)	112-113 (2)	112-113 (2)						

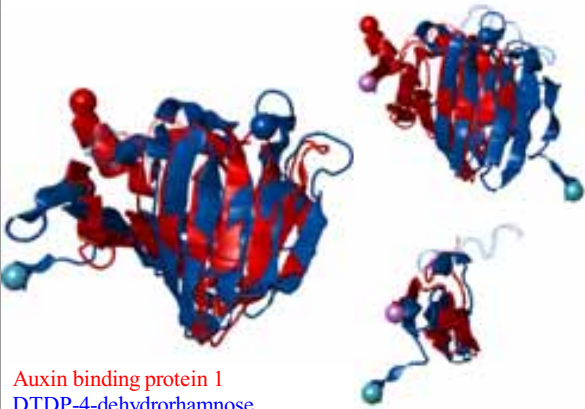
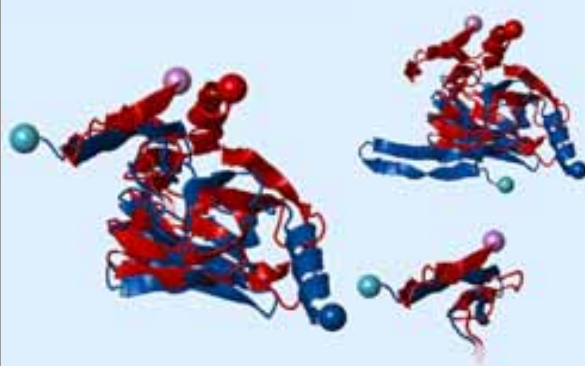

336	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.76	0.71	100.00% (124/124)	99.19% (123/124)	
	3di9A (124)	112-115 (4)	112-113 (2)	112-113 (2)						
337	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.79	0.63	100.00% (124/124)	99.19% (123/124)	
	3dibA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
338	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.76	0.61	100.00% (124/124)	99.19% (123/124)	
	3dicA (124)	112-115 (4)	112-113 (2)	112-113 (2)						


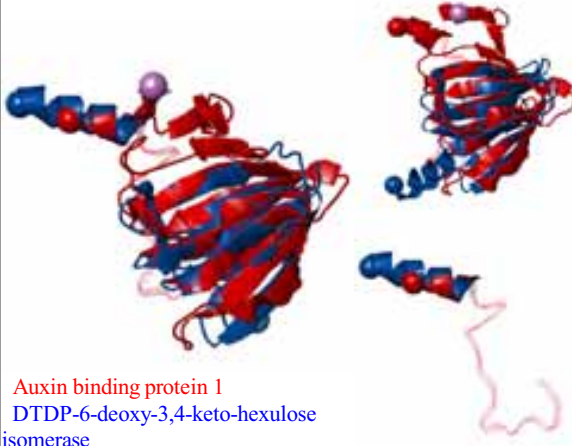
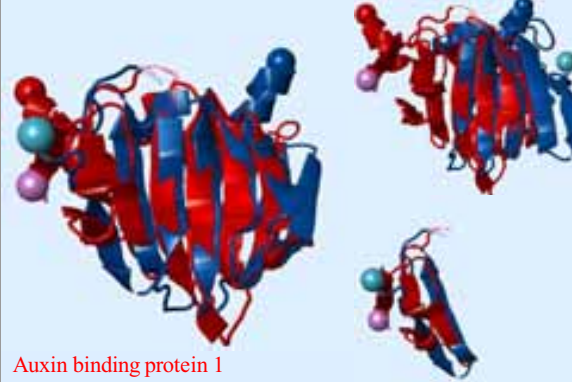
339	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.78	0.62	100.00% (124/124)	99.19% (123/124)	
	3rsdA (124)	112-115 (4)	112-113 (2)	112-113 (2)						
340	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.80	0.53	100.00% (124/124)	97.58% (121/124)	
	3rskA (124)	112-113 (2)	112-113 (2)	112-113 (2)						
341	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.77	0.69	100.00% (124/124)	99.19% (123/124)	
	3rspA (124)	112-115 (4)	112-113 (2)	112-113 (2)						

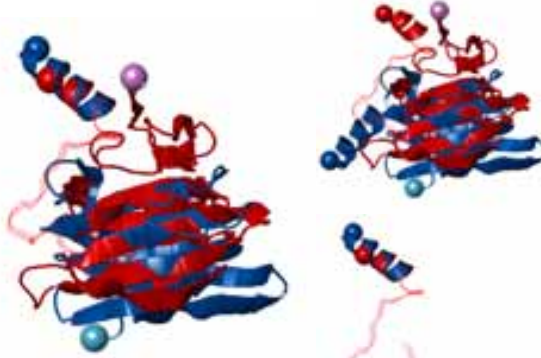
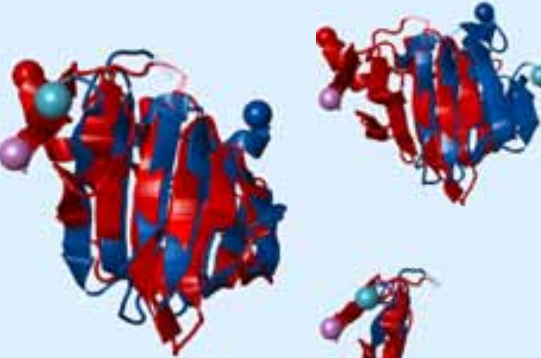
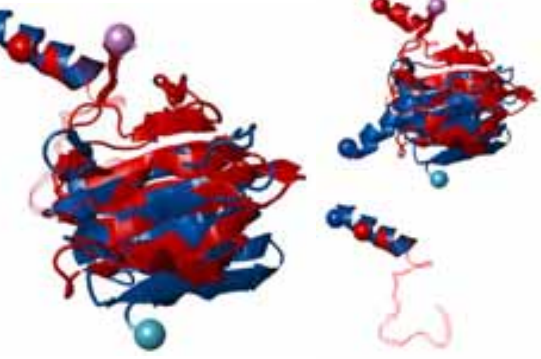
342	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.76	0.72	100.00% (124/124)	99.19% (123/124)	 
	4rsdA (124)	112-113 (2)	112-113 (2)	112-113 (2)						
343	llgqA (112)	14-123 (110)	65-93 (29)	85-87 (3)	C	0.38	1.87	92.86% (104/112)	19.64% (22/112)	 
	lqu5A (182)	575-698 (124)	627-668 (42)	85-87 (3)						
344	llr5A (160)	122-159 (38)	133-139 (7)	133-136 (4)	C	0.37	2.32	87.50% (140/160)	10.63% (17/160)	 
	ldgwA (178)	162-222 (61)	177-203 (27)	133-136 (4)						

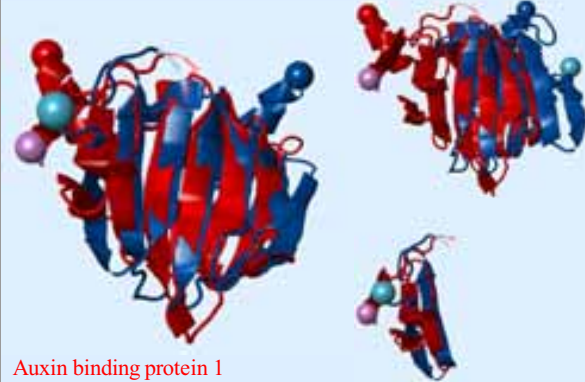

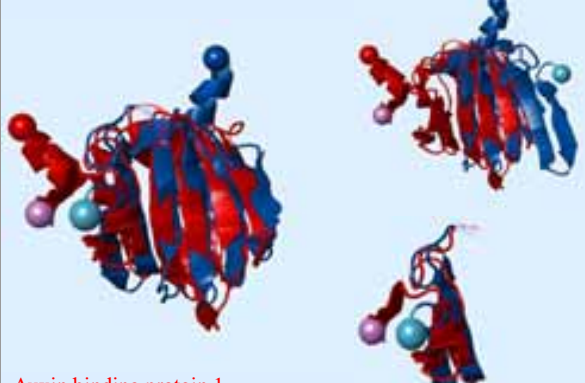
345	1lr5A (160)	11-41 (31)	12-41 (30)	37-41 (5)	N	0.34	2.39	80.63% (129/160)	8.13% (13/160)	 <p>Auxin binding protein 1 DTDP-4-dehydrorhamnose 3,5-epimerase</p>
	1dzzA (183)	14-47 (34)	15-47 (33)	37-41 (5)						
346	1lr5A (160)	35-41 (7)	36-41 (6)	36-41 (6)	N	0.35	2.30	80.00% (128/160)	8.13% (13/160)	 <p>Auxin binding protein 1 DTDP-6-deoxy-D-XYLO-4-hexulose 3,5-epimerase</p>
	1ep0A (183)	37-48 (12)	38-48 (11)	36-41 (6)						
347	1lr5A (160)	35-41 (7)	36-40 (5)	36-40 (5)	N	0.30	2.45	80.63% (129/160)	4.38% (7/160)	 <p>Auxin binding protein 1 DTDP-6-deoxy-D-xylo-4-hexulose 3,5-epimerase</p>
	1nxmA (194)	48-60 (13)	49-59 (11)	36-40 (5)						

348	1lr5A (160)	5-44 (40)	29-41 (13)	36-41 (6)	N	0.32	2.43	82.50% (132/160)	9.38% (15/160)	 <p>Auxin binding protein 1 PCZA361.16</p>
	1wa4A (205)	3-50 (48)	28-47 (20)	36-41 (6)						
349	1lr5A (160)	36-41 (6)	36-40 (5)	36-40 (5)	N	0.32	2.53	81.88% (131/160)	5.63% (9/160)	 <p>Auxin binding protein 1 DTDP-4-dehydrorhamnose 3,5-epimerase</p>
	2ix1A (196)	46-60 (15)	46-59 (14)	36-40 (5)						
350	1lr5A (160)	36-41 (6)	36-40 (5)	36-40 (5)	N	0.32	2.58	82.50% (132/160)	5.63% (9/160)	 <p>Auxin binding protein 1 DTDP-4-dehydrorhamnose 3,5-epimerase</p>
	2ix1B (195)	46-60 (15)	46-59 (14)	36-40 (5)						

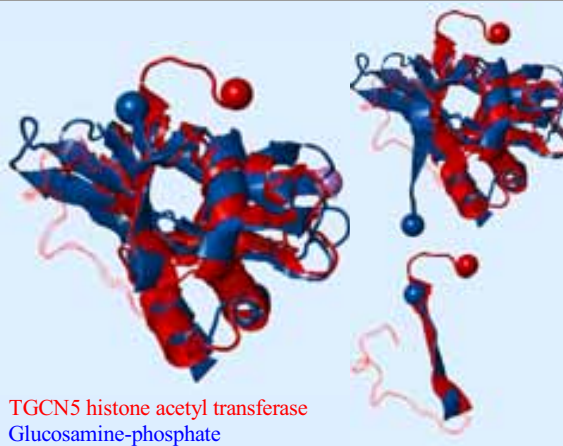
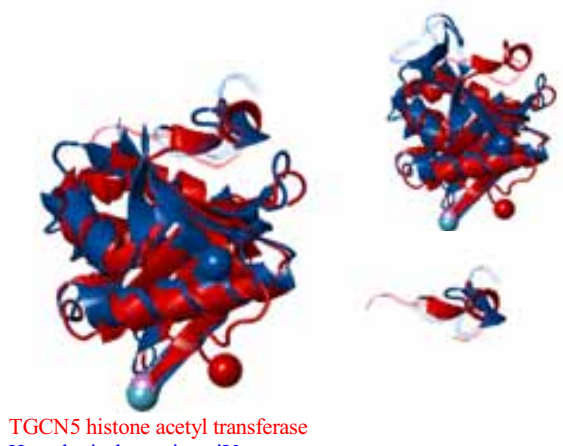
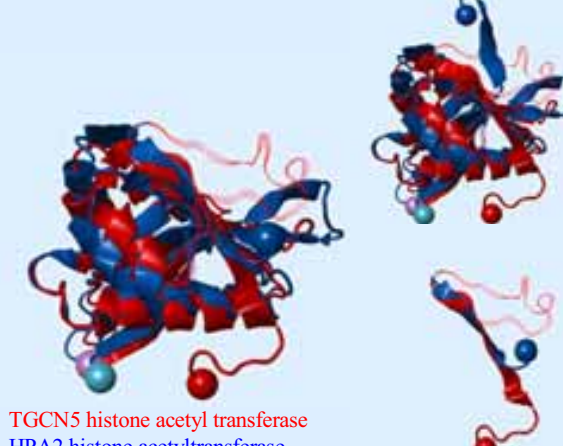
351	1lr5A (160)	36-41 (6)	36-40 (5)	36-40 (5)	N	0.29	2.81	82.50% (132/160)	3.75% (6/160)	 <p>Auxin binding protein 1 DTDP-4-dehydrorhamnose 3,5-epimerase</p>
	2ix1C (197)	46-60 (15)	46-59 (14)	36-40 (5)						
352	1lr5A (160)	1-41 (41)	29-41 (13)	39-41 (3)	N	0.32	2.38	88.06% (118/134)	11.94% (16/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pa7B (134)	2-32 (31)	20-32 (13)	39-41 (3)						
353	1lr5A (160)	122-153 (32)	132-153 (22)	133-153 (21)	C	0.27	2.04	70.15% (94/134)	11.94% (16/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pa7B (134)	109-123 (15)	121-123 (3)	133-153 (21)						

354	1lr5A (160)	18-63 (46)	29-63 (35)	39-41 (3)	N	0.38	2.39	87.50% (119/136)	11.03% (15/136)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2paeA (136)	11-56 (46)	20-56 (37)	39-41 (3)						
355	1lr5A (160)	109-154 (46)	128-154 (27)	133-153 (21)	C	0.26	2.02	69.12% (94/136)	11.03% (15/136)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2paeA (136)	98-124 (27)	115-124 (10)	133-153 (21)						
356	1lr5A (160)	18-41 (24)	18-41 (24)	39-41 (3)	N	0.32	2.41	88.06% (118/134)	11.19% (15/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2paeB (134)	11-32 (22)	11-32 (22)	39-41 (3)						

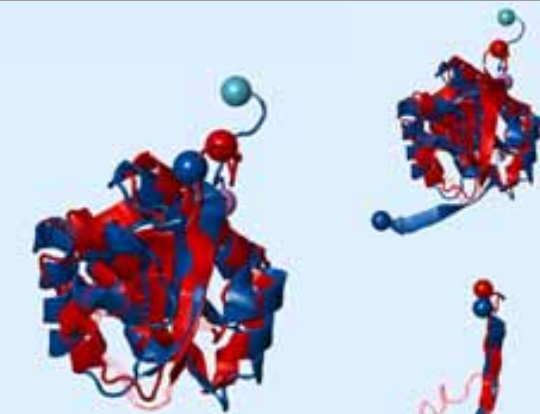
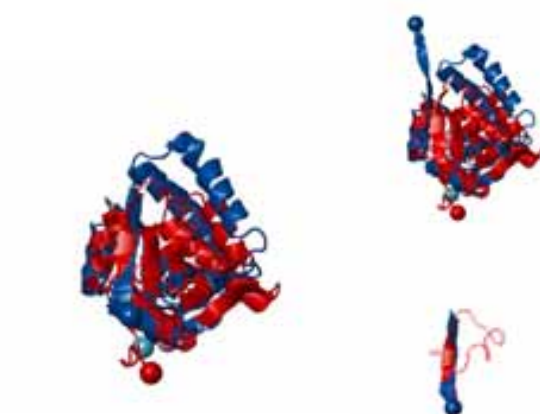
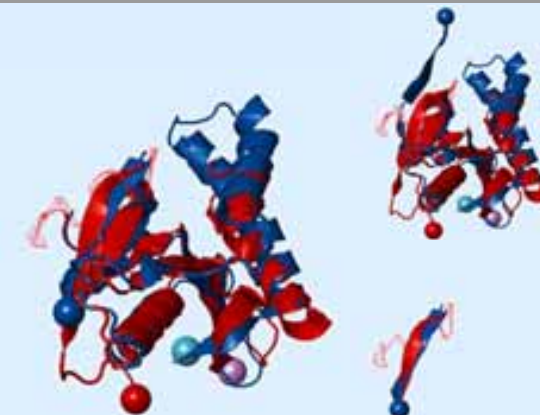
357	1lr5A (160)	124-153 (30)	132-153 (22)	133-153 (21)	C	0.27	2.04	70.15% (94/134)	11.19% (15/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2paeB (134)	111-123 (13)	121-123 (3)	133-153 (21)						
358	1lr5A (160)	29-41 (13)	29-41 (13)	39-41 (3)	N	0.38	2.33	87.41% (118/135)	11.11% (15/135)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pakA (135)	20-32 (13)	20-32 (13)	39-41 (3)						
359	1lr5A (160)	109-153 (45)	124-153 (30)	133-153 (21)	C	0.26	2.02	69.63% (94/135)	11.11% (15/135)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pakA (135)	98-123 (26)	111-123 (13)	133-153 (21)						

360	1lr5A (160)	1-41 (41)	29-41 (13)	39-41 (3)	N	0.32	2.33	87.31% (117/134)	11.19% (15/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pakB (134)	2-32 (31)	20-32 (13)	39-41 (3)						
361	1lr5A (160)	132-153 (22)	132-153 (22)	133-153 (21)	C	0.27	2.04	70.15% (94/134)	11.19% (15/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pakB (134)	121-123 (3)	121-123 (3)	133-153 (21)						
362	1lr5A (160)	18-36 (39)	18-41 (24)	39-41 (3)	N	0.37	2.41	88.15% (119/135)	10.37% (14/135)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pamA (135)	11-48 (38)	11-32 (22)	39-41 (3)						

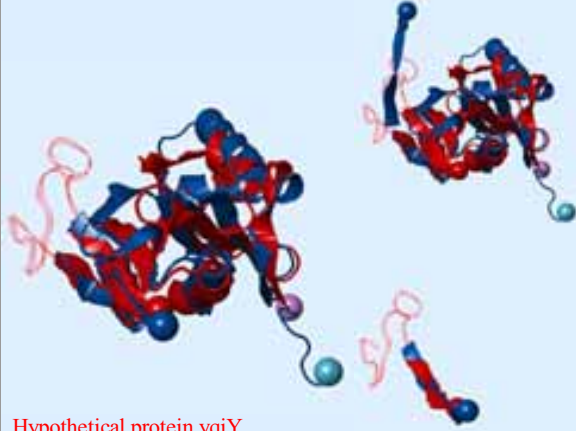
363	1lr5A (160)	120-153 (34)	128-153 (26)	133-153 (21)	C	0.27	2.01	69.63% (94/135)	10.37% (14/135)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pamA (135)	107-123 (17)	115-123 (9)	133-153 (21)						
364	1lr5A (160)	1-41 (41)	29-41 (13)	39-41 (3)	N	0.32	2.30	87.31% (117/134)	10.45% (14/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pamB (134)	2-32 (31)	20-32 (13)	39-41 (3)						
365	1lr5A (160)	132-153 (22)	132-153 (22)	133-153 (21)	C	0.28	2.00	70.15% (94/134)	10.45% (14/134)	 <p>Auxin binding protein 1 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pamB (134)	121-123 (3)	121-123 (3)	133-153 (21)						

366	1m1dA (163)	176-197 (22)	176-195 (20)	177-194 (18)	C	0.38	2.03	75.16% (121/161)	11.18% (18/161)	 <p>TGCN5 histone acetyl transferase Glucosamine-phosphate N-acetyltransferase</p>
	1i1dD (161)	150-154 (5)	150-152 (3)	177-194 (18)						
367	1m1dA (163)	178-192 (15), 179-199 (21)	178-192 (15), 179-195 (17)	178-181 (4), 191-195 (5)	M	0.28	2.36	89.81% (141/157)	14.01% (22/157)	 <p>TGCN5 histone acetyl transferase Hypothetical protein yqjY</p>
	1mk4A (157)	128-146 (19), 133-153 (21)	128-146 (19), 133-149 (17)	178-181 (4), 191-195 (5)						
368	1m1dA (163)	168-194 (27)	171-193 (23)	173-193 (21)	C	0.43	2.29	86.00% (129/150)	13.33% (20/150)	 <p>TGCN5 histone acetyl transferase HPA2 histone acetyltransferase</p>
	1qsmA (150)	138-147 (10)	141-146 (6)	173-193 (21)						

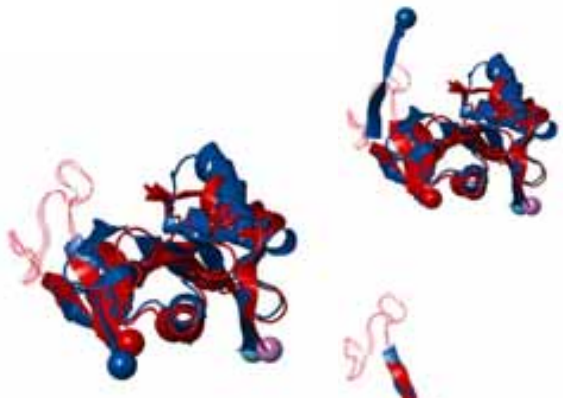
369	1m1dA (163)	170-205 (36)	170-197 (28)	173-197 (25)	C	0.44	2.22	86.58% (129/149)	13.42% (20/149)	 <p>TGCN5 histone acetyl transferase HPA2 histone acetyltransferase</p>
	1qsmB (149)	140-155 (16)	140-147 (8)	173-197 (25)						
370	1m1dA (163)	168-193 (26)	171-193 (23)	173-193 (21)	C	0.43	2.25	84.87% (129/152)	13.16% (20/152)	 <p>TGCN5 histone acetyl transferase HPA2 histone acetyltransferase</p>
	1qsmD (152)	138-146 (9)	141-146 (6)	173-193 (21)						
371	1m1dA (163)	175-202 (28)	176-202 (27)	177-195 (19)	C	0.47	2.20	89.66% (130/145)	9.66% (14/145)	 <p>TGCN5 histone acetyl transferase Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	133-143 (11)	134-143 (10)	177-195 (19)						

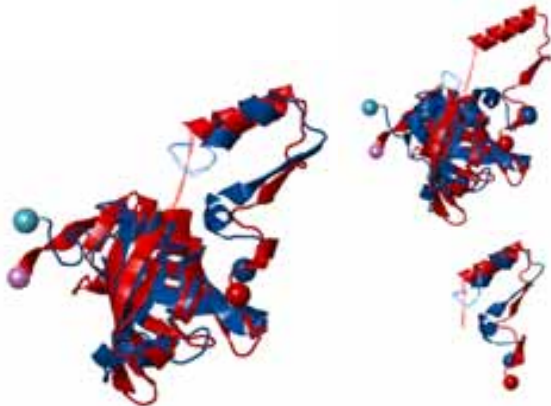
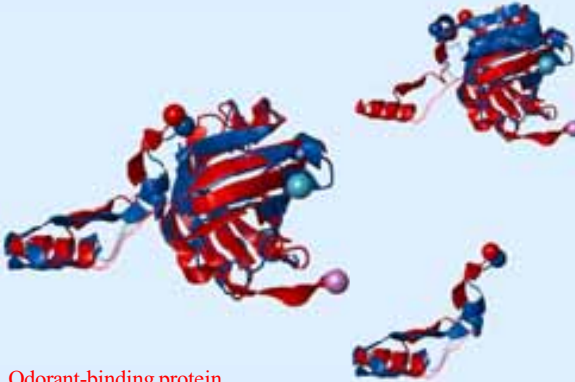
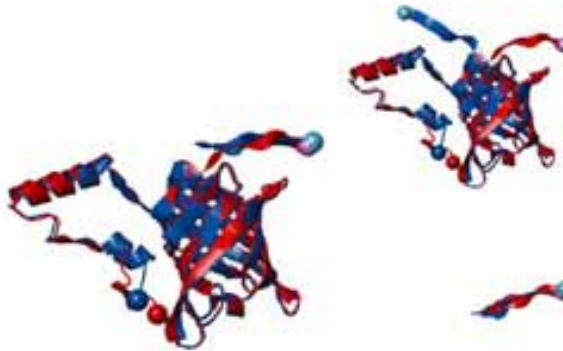
372	1m1dA (163)	173-203 (29)	176-202 (27)	177-195 (19)	C	0.44	2.16	84.31% (129/153)	8.50% (13/153)	 <p>TGCN5 histone acetyl transferase Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	133-144 (12)	134-143 (10)	177-195 (19)						
373	1m1dA (163)	175-197 (23)	176-194 (19)	176-193 (18)	C	0.39	2.46	83.23% (129/155)	9.68% (15/155)	 <p>TGCN5 histone acetyl transferase YYCN protein</p>
	1ufhA (155)	146-151 (6)	147-148 (2)	176-193 (18)						
374	1m1dA (163)	176-197 (22)	176-197 (22)	176-193 (18)	C	0.44	2.08	83.12% (128/154)	9.09% (14/154)	 <p>TGCN5 histone acetyl transferase YYCN protein</p>
	1ufhB (154)	147-151 (5)	147-151 (5)	176-193 (18)						

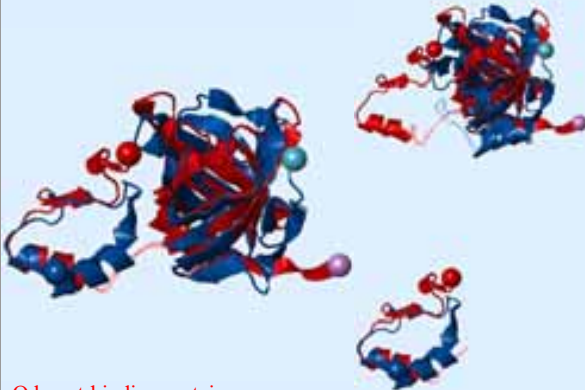
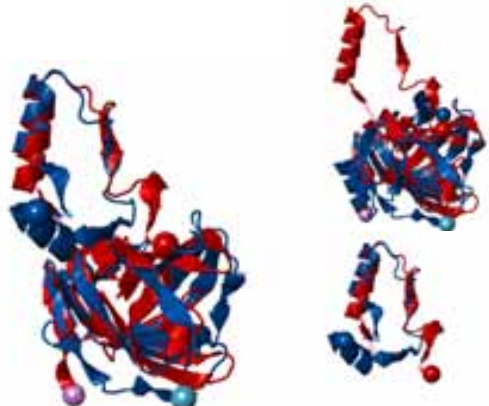
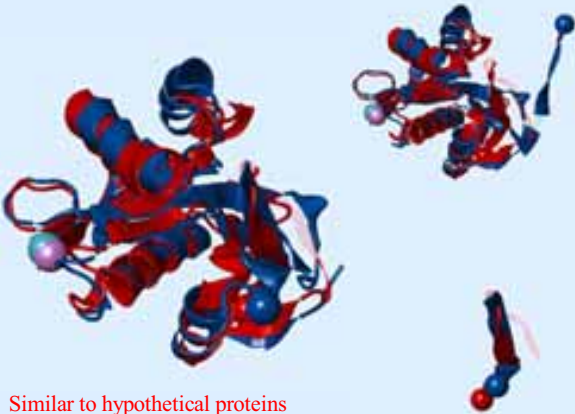
375	1m1dA (163)	173-198 (24)	176-198 (23)	176-193 (18)	C	0.45	2.10	85.91% (128/149)	12.08% (18/149)	 <p>TGCN5 histone acetyltransferase Putative acetyl transferase</p>
	1vkcA (149)	140-146 (7)	141-146 (6)	176-193 (18)						
376	1m1dA (163)	176-200 (25)	176-197 (22)	177-194 (18)	C	0.38	1.92	73.62% (120/163)	10.43% (17/163)	 <p>TGCN5 histone acetyltransferase Glucosamine 6-phosphate acetyltransferase</p>
	2vxkA (165)	181-188 (8)	181-185 (5)	177-194 (18)						
377	1mk4A (157)	125-148 (24)	125-148 (24)	127-146 (20)	C	0.51	2.01	89.66% (130/145)	20.69% (30/145)	 <p>Hypothetical protein yqjY Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	133-137 (5)	133-137 (5)	127-146 (20)						

378	lmk4A (157)	125-155 (31)	125-155 (31)	128-149 (22)	C	0.47	2.04	83.66% (128/153)	19.61% (30/153)	 <p>Hypothetical protein yqjY Aminoglycoside 6'-N-acetyltransferase</p>
	ls5kA (153)	133-142 (10)	133-142 (10)	128-149 (22)						
379	lmk4A (157)	125-153 (29)	125-150 (26)	127-148 (22)	C	0.37	2.56	80.65% (125/155)	9.68% (15/155)	 <p>Hypothetical protein yqjY YYCN protein</p>
	lufhA (155)	146-153 (8)	146-150 (5)	127-148 (22)						
380	lmk4A (157)	125-153 (29)	125-150 (26)	127-148 (22)	C	0.39	2.51	82.47% (127/154)	10.39% (16/154)	 <p>Hypothetical protein yqjY YYCN protein</p>
	lufhB (154)	146-153 (8)	146-150 (5)	127-148 (22)						

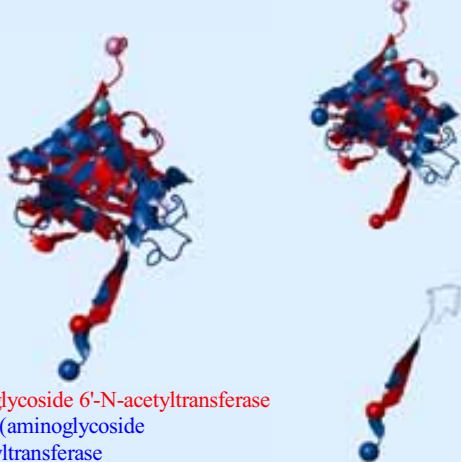
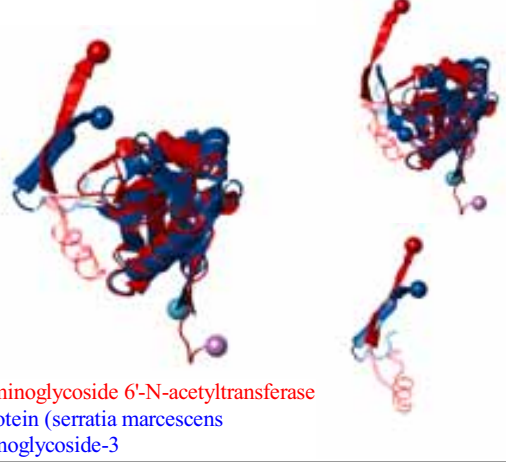
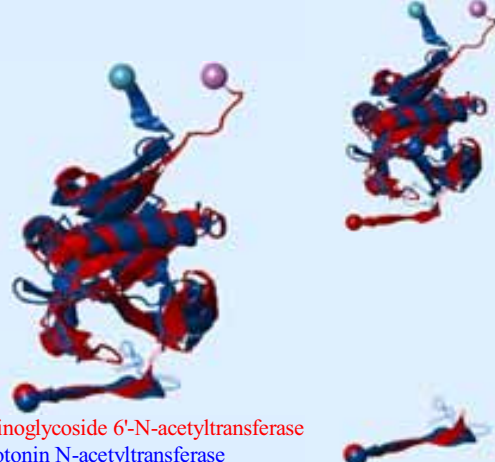
381	1mk4A (157)	122-154 (33)	125-149 (25)	127-147 (21)	C	0.47	2.26	87.33% (131/150)	18.67% (28/150)	 <p>Hypothetical protein yqjY Transcriptional regulator</p>
	1z4eA (150)	140-152 (13)	143-147 (5)	127-147 (21)						
382	1mk4A (157)	125-155 (31)	125-150 (26)	125-151 (27)	C	0.47	2.25	93.85% (122/130)	13.85% (18/130)	 <p>Hypothetical protein yqjY Hypothetical protein TTHA1254</p>
	2d4pA (130)	116-129 (14)	116-124 (9)	125-151 (27)						
383	1mk4A (157)	125-156 (32)	125-156 (32)	127-135 (9)	C	0.35	2.50	87.26% (137/157)	13.38% (21/157)	 <p>Hypothetical protein yqjY Diamine acetyltransferase 1</p>
	2g3tA (169)	146-171 (26)	146-171 (26)	127-135 (9)						

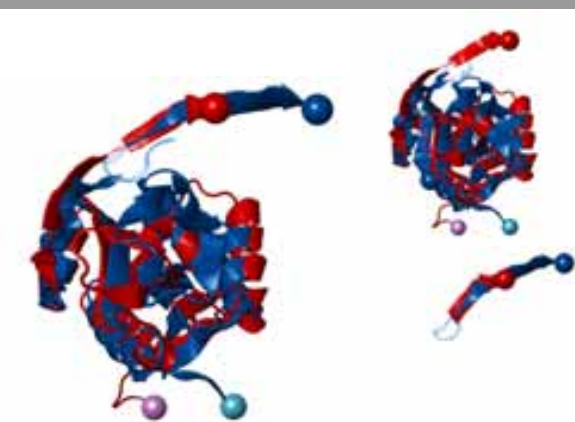

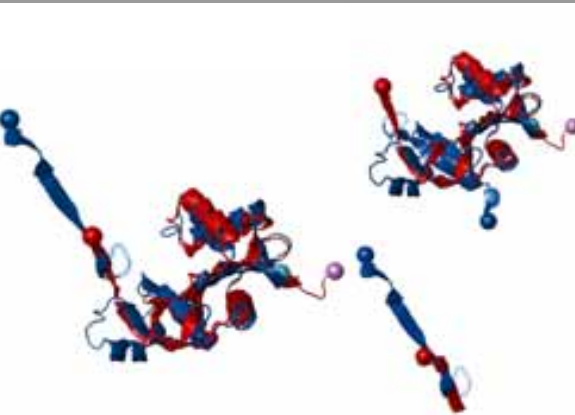
384	1mk4A (157)	125-154 (30)	125-149 (25)	127-149 (23)	C	0.40	2.23	82.17% (129/157)	13.38% (21/157)	 <p>Hypothetical protein yqjY Diamine acetyltransferase 1</p>
	2jevA (169)	146-159 (14)	146-154 (9)	127-149 (23)						
385	1mk4A (157)	125-155 (31)	125-155 (31)	128-149 (22)	C	0.47	2.16	87.07% (128/147)	20.41% (30/147)	 <p>Hypothetical protein yqjY Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	133-142 (10)	133-142 (10)	128-149 (22)						
386	1mk4A (157)	125-155 (31)	125-155 (31)	128-149 (22)	C	0.48	2.09	88.19% (127/144)	19.44% (28/144)	 <p>Hypothetical protein yqjY Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	133-142 (10)	133-142 (10)	128-149 (22)						

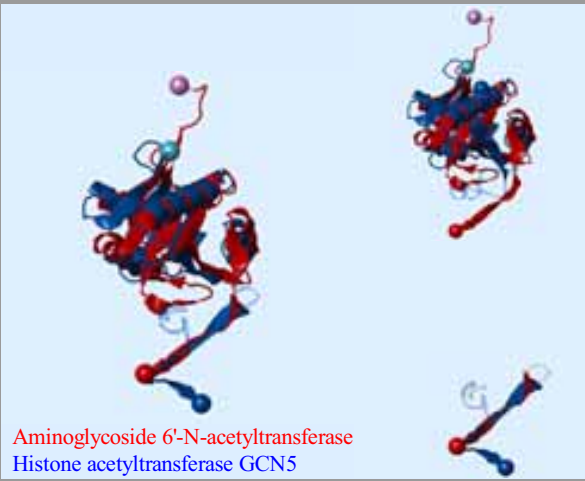
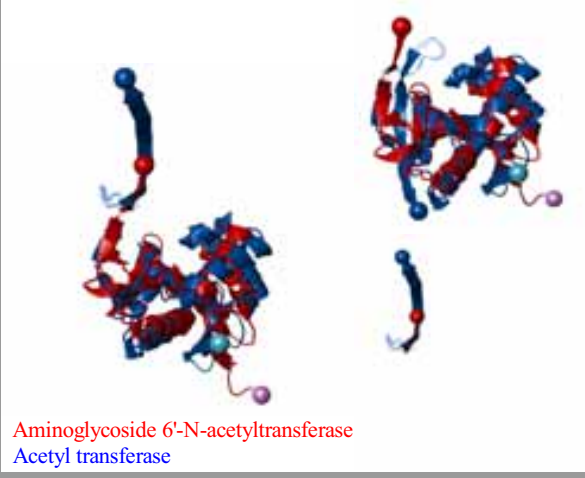
387	lobpA (158)	93-126 (34)	101-126 (26)	121-126 (6)	C	0.41	2.77	88.61% (140/158)	14.56% (23/158)	 <p>Odorant-binding protein Beta-lactoglobulin a</p>
	lclj5A (162)	96-130 (35)	105-130 (26)	121-126 (6)						
388	lobpA (158)	119-129 (11)	121-126 (6)	121-126 (6)	C	0.53	2.11	89.87% (142/158)	15.19% (24/158)	 <p>Odorant-binding protein Beta-lactoglobulin</p>
	ldv9A (162)	122-133 (12)	124-130 (7)	121-126 (6)						
389	lobpA (158)	3-12 (10)	3-10 (8)	10-10 (1)	N	0.88	0.81	97.45% (153/157)	91.72% (144/157)	 <p>Odorant-binding protein Odorant binding protein</p>
	lpboA (157)	2-12 (11)	2-10 (9)	10-10 (1)						

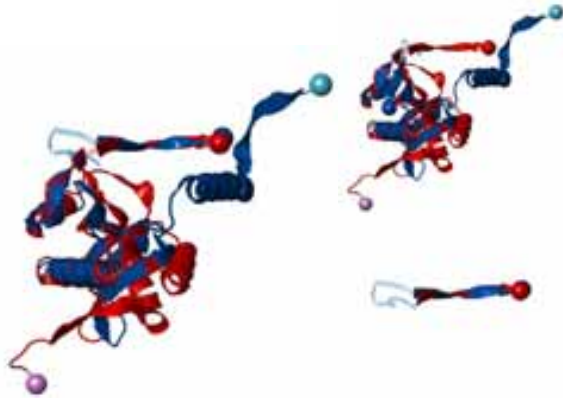
390	1obpA (158)	121-129 (9)	121-129 (9)	121-129 (9)	C	0.37	2.38	83.54% (132/158)	7.59% (12/158)	 <p>Odorant-binding protein Nitrophorin 4</p>
	1sy2A (184)	139-146 (8)	139-146 (8)	121-129 (9)						
391	1obpA (158)	107-123 (17)	121-123 (3)	121-123 (3)	C	0.33	2.55	81.65% (129/158)	6.96% (11/158)	 <p>Odorant-binding protein Nitrophorin 1</p>
	1u17A (185)	126-143 (18)	140-143 (4)	121-123 (3)						
392	1q2yA (140)	122-136 (15)	122-133 (12)	125-130 (6)	C	0.53	2.02	89.29% (125/140)	12.14% (17/140)	 <p>Similar to hypothetical proteins Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	135-144 (10)	135-141 (7)	125-130 (6)						

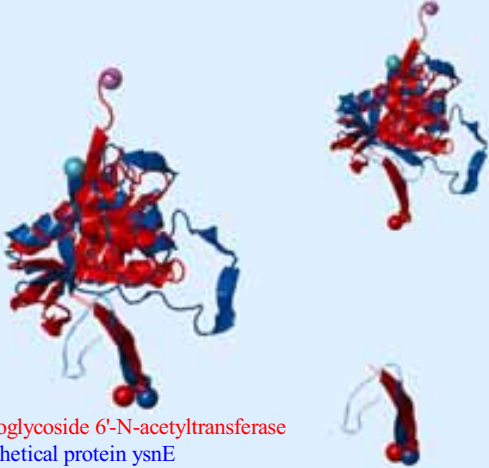
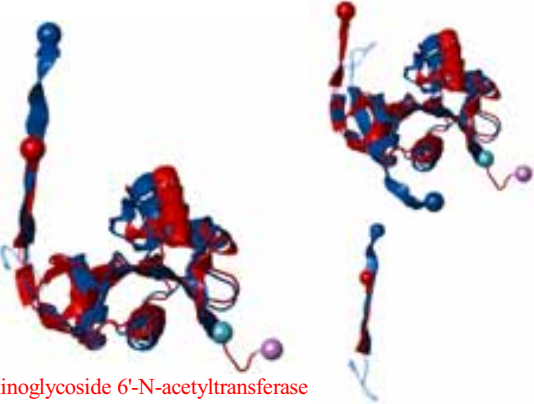
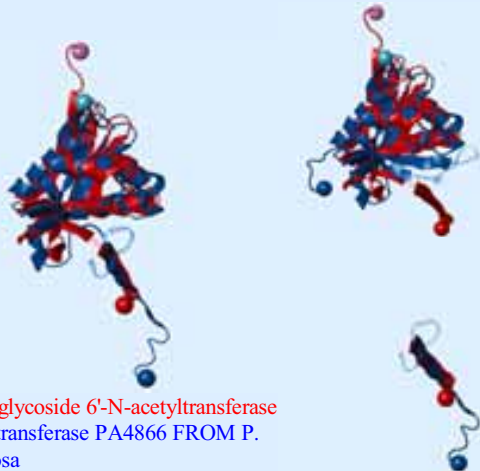
393	1q2yA (140)	122-139 (18)	122-139 (18)	122-132 (11)	C	0.35	2.20	83.57% (117/140)	15.71% (22/140)	 <p>Similar to hypothetical proteins Glucosamine 6-phosphate N-acetyltransferase</p>
	2o28A (182)	173-181 (9)	173-181 (9)	122-132 (11)						
394	1q2yA (140)	122-133 (12)	122-133 (12)	125-131 (7)	C	0.52	2.02	88.57% (124/140)	12.14% (17/140)	 <p>Similar to hypothetical proteins Aminoglycoside 6'-N-acetyltransferase</p>
	2vbkB (144)	135-140 (6)	135-140 (6)	125-131 (7)						
395	1q2yA (140)	122-139 (18)	122-137 (16)	123-135 (13)	C	0.40	2.00	82.14% (115/140)	18.57% (26/140)	 <p>Similar to hypothetical proteins Glucosamine 6-phosphate acetyltransferase</p>
	2vxkA (165)	182-187 (6)	182-185 (4)	123-135 (13)						

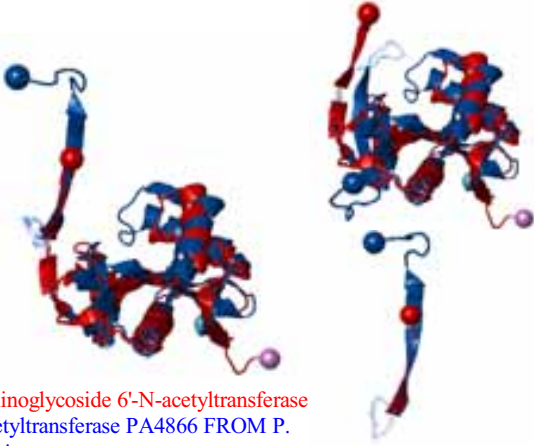
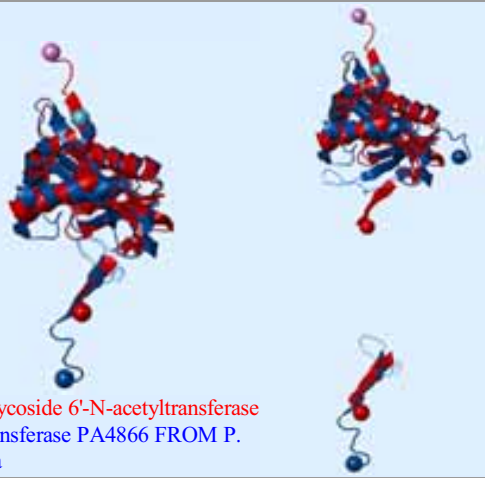
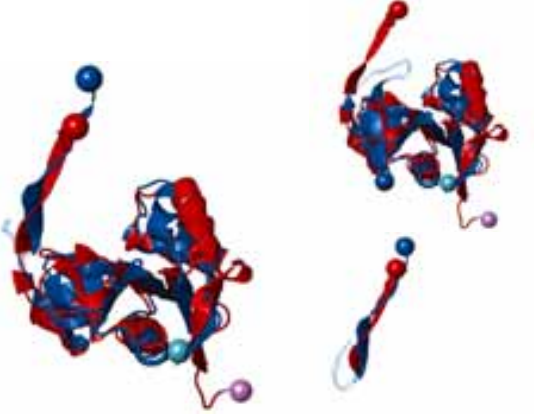
396	1s60A (152)	129-144 (16)	135-139 (5)	138-138 (1)	C	0.50	1.73	88.82% (135/152)	13.82% (21/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Protein (aminoglycoside N6'-acetyltransferase)</p>
	1b87A (181)	149-176 (28)	155-170 (16)	138-138 (1)						
397	1s60A (152)	110-145 (36)	110-145 (36)	115-136 (22)	C	0.43	2.14	88.24% (120/136)	8.82% (12/136)	 <p>Aminoglycoside 6'-N-acetyltransferase Protein (serratia marcescens aminoglycoside-3)</p>
	1bo4B (136)	140-160 (21)	140-160 (21)	115-136 (22)						
398	1s60A (152)	134-136 (3)	134-136 (3)	134-136 (3)	C	0.46	2.25	88.16% (134/152)	13.16% (20/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Serotonin N-acetyltransferase</p>
	1kuxA (166)	175-186 (12)	175-186 (12)	134-136 (3)						

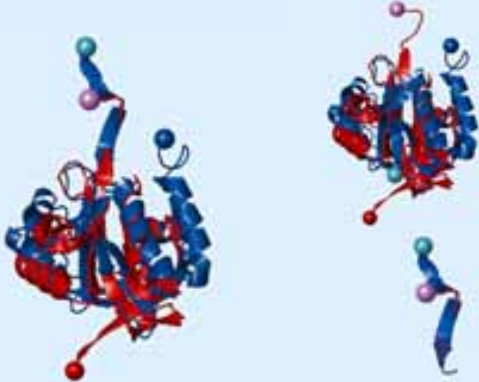
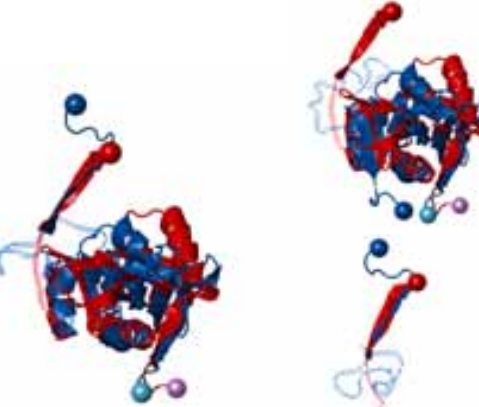
399	1s60A (152)	128-141 (14)	129-141 (13)	140-140 (1)	C	0.44	2.29	87.50% (133/152)	11.84% (18/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Serotonin N-acetyltransferase</p>
	1l0cA (166)	169-187 (19)	170-187 (18)	140-140 (1)						
400	1s60A (152)	129-141 (13)	135-141 (7)	139-139 (1)	C	0.50	1.76	88.82% (135/152)	13.82% (21/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Aac(6)-Ii</p>
	1n71A (180)	149-170 (22)	155-170 (16)	139-139 (1)						
401	1s60A (152)	129-144 (16)	135-143 (9)	139-139 (1)	C	0.44	1.84	88.82% (135/152)	13.82% (21/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Aac(6)-Ii</p>
	1n71B (179)	149-168 (20)	155-167 (13)	139-139 (1)						

402	1s60A (152)	126-144 (19)	131-138 (8)	135-136 (2)	C	0.41	2.40	84.87% (129/152)	7.89% (12/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Histone acetyltransferase GCN5</p>
	1q2dA (161)	168-203 (36)	173-197 (25)	135-136 (2)						
403	1s60A (152)	135-143 (9)	135-140 (6)	139-139 (1)	C	0.45	2.18	90.13% (137/152)	11.84% (18/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyl transferase</p>
	1s7nA (177)	153-169 (17)	153-166 (14)	139-139 (1)						
404	1s60A (152)	135-144 (10)	135-143 (9)	139-140 (2)	C	0.46	2.19	90.13% (137/152)	11.84% (18/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyl transferase</p>
	1s7nD (177)	153-172 (20)	153-171 (19)	139-140 (2)						

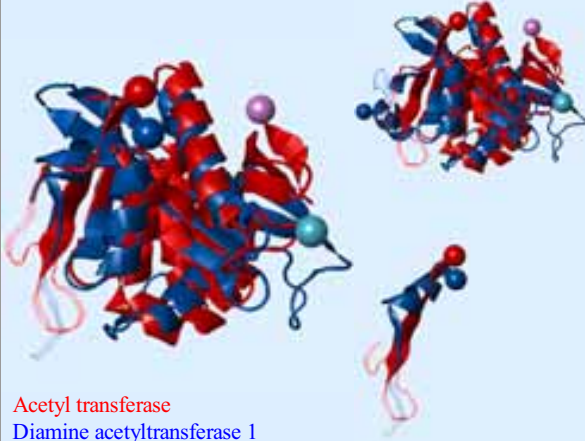
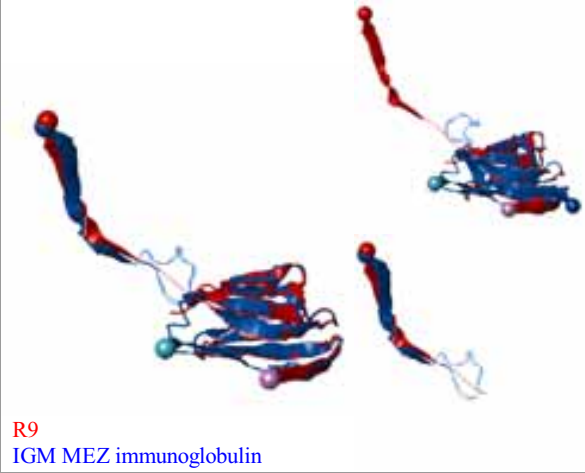
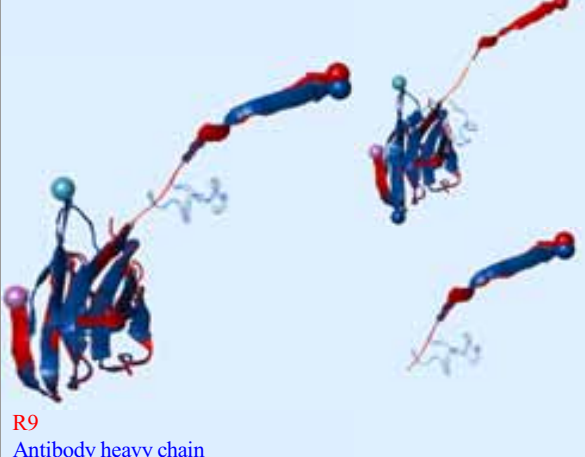
405	1s60A (152)	131-140 (10)	131-139 (9)	138-138 (1)	C	0.50	2.36	91.45% (139/152)	11.18% (17/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Hypothetical protein PH1933</p>
	1wwzB (157)	140-152 (13)	140-151 (12)	138-138 (1)						
406	1s60A (152)	18-42 (25)	20-42 (23)	20-42 (23)	N	0.42	1.95	80.71% (113/140)	11.43% (16/140)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase</p>
	1y9wA (140)	25-38 (14)	27-38 (12)	20-42 (23)						
407	1s60A (152)	135-141 (7)	135-140 (6)	137-137 (1)	C	0.33	1.50	66.43% (93/140)	12.86% (18/140)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase</p>
	1y9wA (140)	121-136 (16)	121-135 (15)	137-137 (1)						


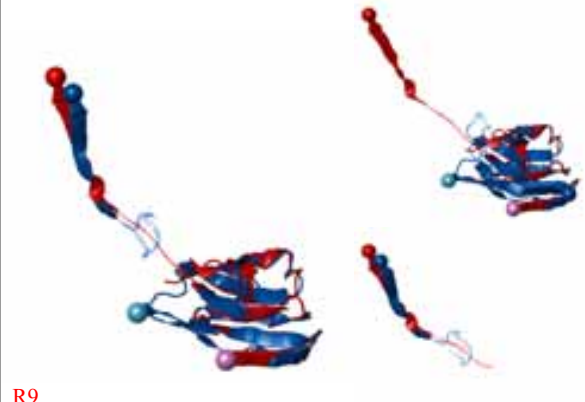
408	1s60A (152)	124-144 (21)	134-140 (7)	135-136 (2)	C	0.38	2.48	80.13% (121/151)	11.92% (18/151)	 <p>Aminoglycoside 6'-N-acetyltransferase Hypothetical protein ysnE</p>
	1yx0A (151)	121-150 (30)	131-146 (16)	135-136 (2)						
409	1s60A (152)	137-144 (8)	137-141 (5)	138-138 (1)	C	0.48	1.91	86.09% (130/151)	14.57% (22/151)	 <p>Aminoglycoside 6'-N-acetyltransferase Modification OF 30S ribosomal subunit protein</p>
	2cntA (151)	125-144 (20)	125-141 (17)	138-138 (1)						
410	1s60A (152)	131-144 (14)	135-139 (5)	138-138 (1)	C	0.43	2.06	90.13% (137/152)	17.76% (27/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase PA4866 FROM P. aeruginosa</p>
	2j8mA (171)	138-161 (24)	142-156 (15)	138-138 (1)						

411	1s60A (152)	129-139 (11)	135-139 (5)	138-138 (1)	C	0.40	2.11	90.13% (137/152)	15.79% (24/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase PA4866 FROM P. aeruginosa</p>
	2j8mB (170)	136-156 (21)	142-156 (15)	138-138 (1)						
412	1s60A (152)	129-144 (16)	135-141 (7)	137-137 (1)	C	0.45	2.05	89.47% (136/152)	16.45% (25/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Acetyltransferase PA4866 FROM P. aeruginosa</p>
	2j8nA (169)	136-163 (28)	142-160 (19)	137-137 (1)						
413	1s60A (152)	131-141 (11)	134-141 (8)	137-137 (1)	C	0.52	2.19	91.72% (133/145)	15.17% (22/145)	 <p>Aminoglycoside 6'-N-acetyltransferase Glyphosate N-acetyltransferase</p>
	2jdcA (145)	122-140 (19)	125-140 (16)	137-137 (1)						


414	1s60A (152)	-6-15 (22)	-6-15 (22)	2-2 (1)	N	0.34	2.43	84.21% (128/152)	10.53% (16/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Putative uncharacterized protein TTHA1799</p>
	2z0zA (194)	1-23 (23)	1-23 (23)	2-2 (1)						
415	1s60A (152)	105-144 (40)	131-143 (13)	131-138 (8)	C	0.35	2.37	78.95% (120/152)	7.89% (12/152)	 <p>Aminoglycoside 6'-N-acetyltransferase Histone acetyltransferase GCN5</p>
	5genA (166)	106-159 (54)	129-158 (30)	131-138 (8)						
416	1s7fA (181)	148-174 (27)	154-174 (21)	154-166 (13)	C	0.34	2.84	83.83% (140/167)	10.18% (17/167)	 <p>Acetyl transferase Diamine acetyltransferase 1</p>
	2f5iA (167)	143-168 (26)	149-168 (20)	154-166 (13)						

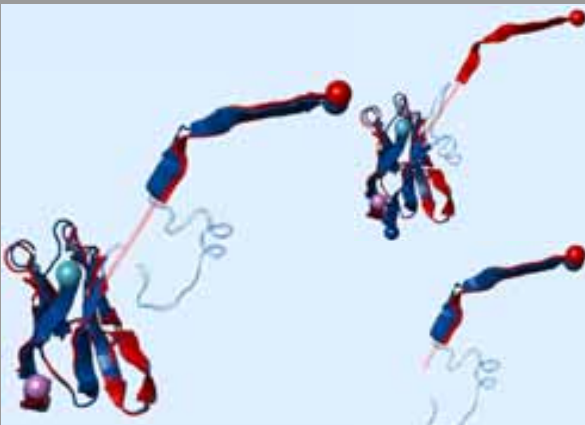
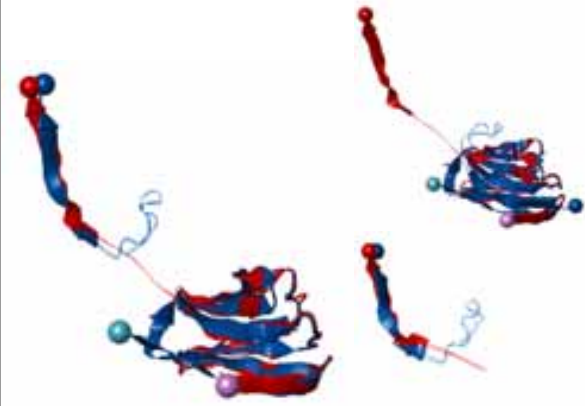
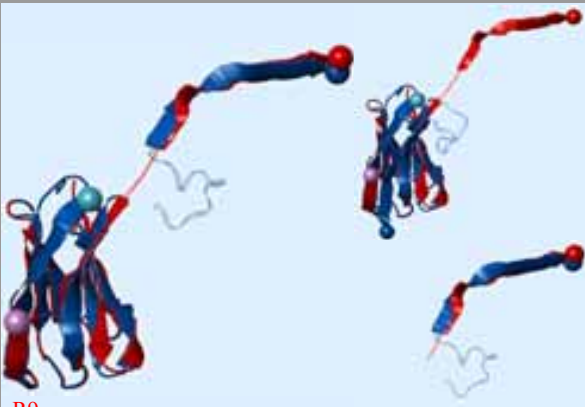
417	1s7fA (181)	-7-16 (24)	6-12 (7)	7-10 (4)	N	0.39	2.61	86.14% (143/166)	10.24% (17/166)	 <p>Acetyl transferase Probable N-acetyltransferase</p>
	2fe7B (166)	-7-8 (16)	1-4 (4)	7-10 (4)						
418	1s7fA (181)	148-175 (28)	153-171 (19)	153-168 (16)	C	0.38	2.52	83.73% (139/166)	10.84% (18/166)	 <p>Acetyl transferase Probable N-acetyltransferase</p>
	2fe7B (166)	135-152 (18)	140-145 (6)	153-168 (16)						
419	1s7fA (181)	148-175 (28)	154-175 (22)	154-165 (12)	C	0.35	2.70	82.84% (140/169)	11.24% (19/169)	 <p>Acetyl transferase Diamine acetyltransferase 1</p>
	2g3tA (169)	143-169 (27)	149-169 (21)	154-165 (12)						

420	1s7fA (181)	148-175 (28)	152-175 (24)	154-167 (14)	C	0.34	2.88	84.02% (142/169)	11.24% (19/169)	 <p>Acetyl transferase Diamine acetyltransferase 1</p>
	2jevA (169)	143-169 (27)	147-169 (23)	154-167 (14)						
421	1sjvA (102)	90-98 (9)	93-98 (6)	93-98 (6)	C	0.64	1.65	100.00% (102/102)	62.75% (64/102)	 <p>R9 IGM MEZ immunoglobulin</p>
	1dqIH (123)	95-111 (17)	98-111 (14)	93-98 (6)						
422	1sjvA (102)	93-103 (11)	94-103 (10)	95-99 (5)	C	0.65	1.34	98.04% (100/102)	69.61% (71/102)	 <p>R9 Antibody heavy chain</p>
	1f2xK (126)	896-919 (24)	897-919 (23)	95-99 (5)						

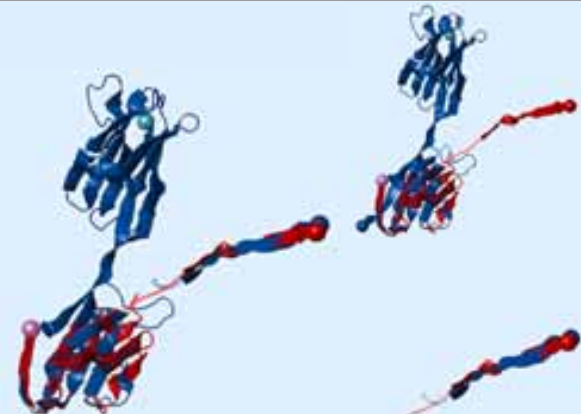
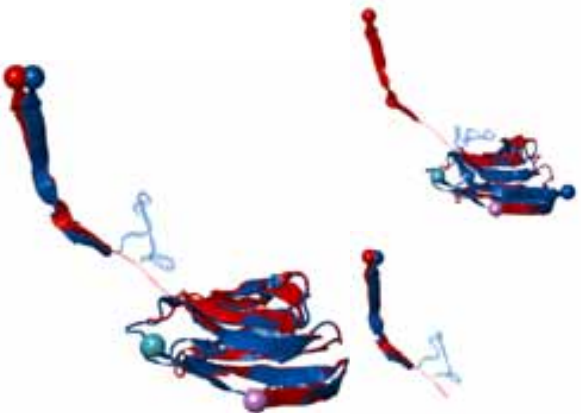

423	1sjvA (102)	93-103 (11)	94-98 (5)	94-98 (5)	C	0.65	1.43	99.02% (101/102)	69.61% (71/102)	
	1f2xL (126)	1096-1119 (24)	1097-1114 (18)	94-98 (5)						
424	1sjvA (102)	91-98 (8)	94-98 (5)	94-98 (5)	C	0.62	1.50	99.02% (101/102)	67.65% (69/102)	
	1i3vA (129)	101-117 (17)	104-117 (14)	94-98 (5)						
425	1sjvA (102)	93-99 (7)	93-99 (7)	93-99 (7)	C	0.64	1.63	98.04% (100/102)	57.84% (59/102)	
	1i8kB (119)	398-409 (12)	398-409 (12)	93-99 (7)						

426	IsjvA (102)	90-104 (15)	93-103 (11)	93-98 (6)	C	0.65	1.71	98.04% (100/102)	40.20% (41/102)	 <p>R9 IGG1 FAB chain H</p>
	lic4H (114)	94-107 (14)	97-106 (10)	93-98 (6)						
427	IsjvA (102)	90-104 (15)	93-98 (6)	93-98 (6)	C	0.66	1.66	98.04% (100/102)	40.20% (41/102)	 <p>R9 IGG1 FAB chain H</p>
	lic5H (114)	94-107 (14)	97-101 (5)	93-98 (6)						
428	IsjvA (102)	90-99 (10)	93-98 (6)	93-99 (7)	C	0.66	1.63	98.04% (100/102)	39.22% (40/102)	 <p>R9 IGG1 FAB chain H</p>
	lic7H (114)	94-102 (9)	97-101 (5)	93-99 (7)						

429	lsjvA (102)	93-98 (6)	93-98 (6)	94-98 (5)	C	0.65	1.65	98.04% (100/102)	41.18% (42/102)	
	ljhIH (116)	98-106 (9)	98-106 (9)	94-98 (5)						
430	lsjvA (102)	94-101 (8)	94-99 (6)	94-99 (6)	C	0.63	1.34	99.02% (101/102)	72.55% (74/102)	
	ljtoA (132)	99-124 (26)	99-122 (24)	94-99 (6)						
431	lsjvA (102)	94-98 (5)	94-98 (5)	94-98 (5)	C	0.65	1.13	99.02% (101/102)	72.55% (74/102)	
	ljtpA (135)	99-121 (23)	99-121 (23)	94-98 (5)						

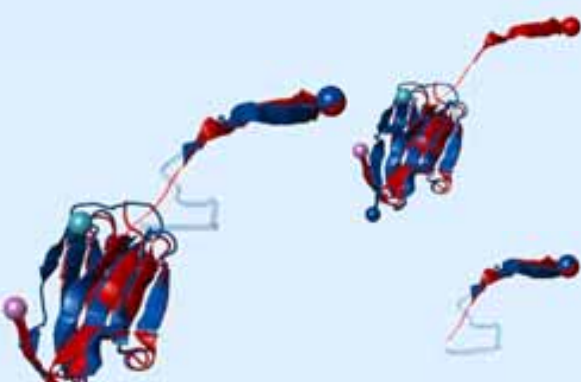
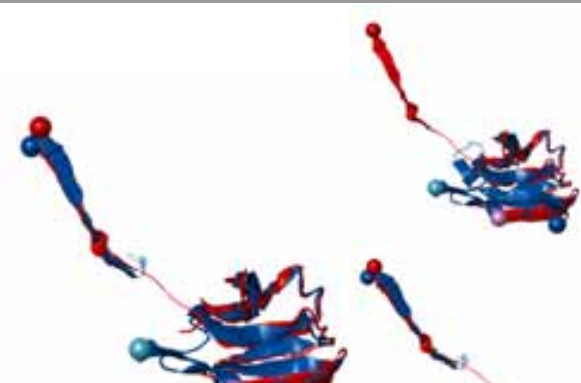
432	IsjvA (102)	94-99 (6)	94-98 (5)	94-98 (5)	C	0.66	1.13	99.02% (101/102)	73.53% (75/102)	 <p>R9 Single-domain antibody</p>
	IjtpB (133)	99-122 (24)	99-121 (23)	94-98 (5)						
433	IsjvA (102)	93-103 (11)	93-98 (6)	94-99 (6)	C	0.67	1.43	98.04% (100/102)	66.67% (68/102)	 <p>R9 Antibody VHH fragment cabamd9</p>
	IkxqE (120)	95-113 (19)	95-108 (14)	94-99 (6)						
434	IsjvA (102)	94-98 (5)	95-98 (4)	96-98 (3)	C	0.70	1.12	99.02% (101/102)	68.63% (70/102)	 <p>R9 Immunoglobulin heavy chain variable region</p>
	ImvfA (126)	99-114 (16)	100-114 (15)	96-98 (3)						

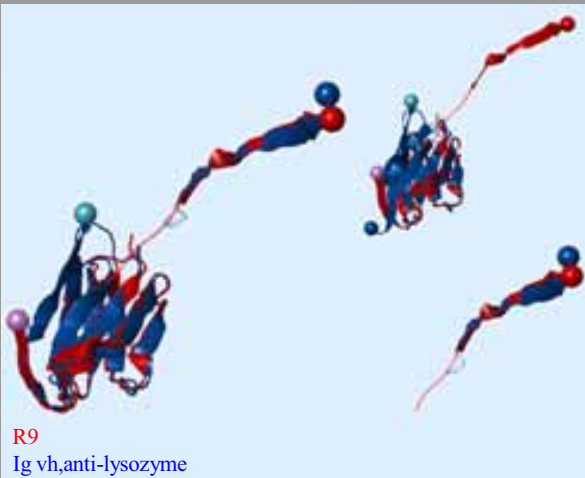
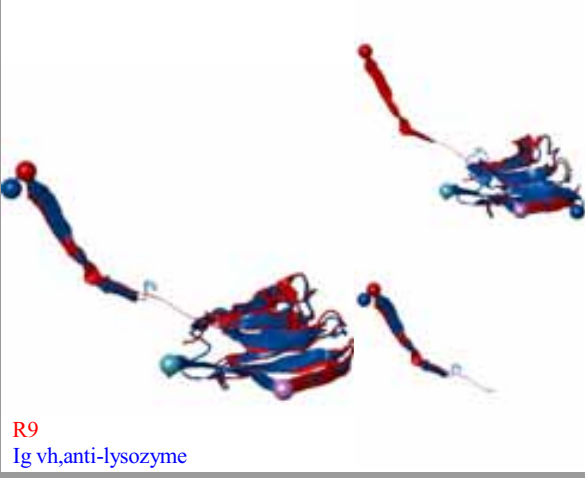
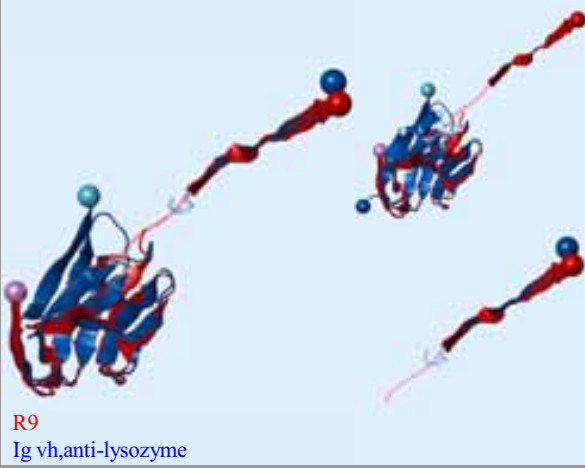
435	IsjvA (102)	93-103 (11)	93-99 (7)	94-99 (6)	C	0.67	1.55	100.00% (102/102)	44.12% (45/102)	 <p>R9 Immunoglobulin heavy chain variable region</p>
	In4xH (120)	398-413 (16)	398-409 (12)	94-99 (6)						
436	IsjvA (102)	93-106 (14)	93-105 (13)	94-105 (12)	C	0.65	1.72	100.00% (102/102)	35.29% (36/102)	 <p>R9 Immunoglobulin heavy chain variable region</p>
	In4xI (119)	398-415 (18)	398-414 (17)	94-105 (12)						
437	IsjvA (102)	87-109 (23)	91-98 (8)	94-100 (7)	C	0.63	1.69	100.00% (102/102)	41.18% (42/102)	 <p>R9 Single chain antibody</p>
	InmcH (122)	88-112 (25)	92-101 (10)	94-100 (7)						

438	IsjvA (102)	93-109 (17)	93-103 (11)	94-98 (5)	C	0.28	1.89	94.12% (96/102)	26.47% (27/102)	 <p>R9 Single-chain antibody fragment</p>
	InqbA (232)	215-232 (18)	215-226 (12)	94-98 (5)						
439	IsjvA (102)	93-104 (12)	94-103 (10)	94-98 (5)	C	0.66	1.35	98.04% (100/102)	67.65% (69/102)	 <p>R9 Camelid antibody heavy chain</p>
	Iri8A (124)	97-119 (23)	98-118 (21)	94-98 (5)						
440	IsjvA (102)	93-103 (11)	93-103 (11)	93-103 (11)	C	0.66	1.54	97.06% (99/102)	62.75% (64/102)	 <p>R9 M12-variable heavy domain</p>
	It2jA (116)	94-106 (13)	94-106 (13)	93-103 (11)						

441	1sjvA (102)	90-104 (15)	93-98 (6)	93-98 (6)	C	0.66	1.56	97.06% (99/102)	41.18% (42/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	1uacH (114)	94-107 (14)	97-101 (5)	93-98 (6)						
442	1sjvA (102)	91-109 (19)	91-108 (18)	95-102 (8)	C	0.66	1.71	99.02% (101/102)	38.24% (39/102)	 <p>R9 ANTI EGFR antibody FV region</p>
	1wt5A (115)	96-114 (19)	96-113 (18)	95-102 (8)						
443	1sjvA (102)	94-106 (13)	94-106 (13)	94-99 (6)	C	0.62	1.45	99.02% (101/102)	61.76% (63/102)	 <p>R9 Heavy chain antibody</p>
	1xfpA (131)	99-128 (30)	99-128 (30)	94-99 (6)						

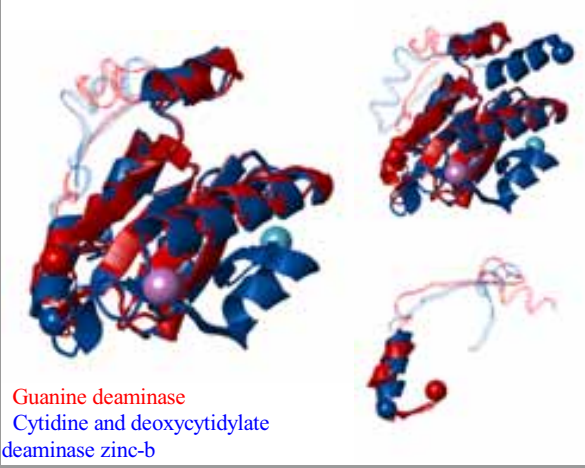
444	lsjvA (102)	94-104 (11)	94-98 (5)	94-98 (5)	C	0.62	1.43	99.02% (101/102)	69.61% (71/102)	 <p>R9 Antibody cabbcii-10:lys3</p>
	lzmyA (132)	99-127 (29)	99-121 (23)	94-98 (5)						
445	lsjvA (102)	94-98 (5)	94-98 (5)	94-98 (5)	C	0.65	1.54	98.04% (100/102)	69.61% (71/102)	 <p>R9 Immunoglobulin heavy chain antibody variable</p>
	lzv5A (119)	99-109 (11)	99-109 (11)	94-98 (5)						
446	lsjvA (102)	93-98 (6)	95-98 (4)	95-98 (4)	C	0.68	1.22	98.04% (100/102)	64.71% (66/102)	 <p>R9 Immunoglobulin heavy chain antibody variable</p>
	lzvhA (124)	98-113 (16)	100-113 (14)	95-98 (4)						

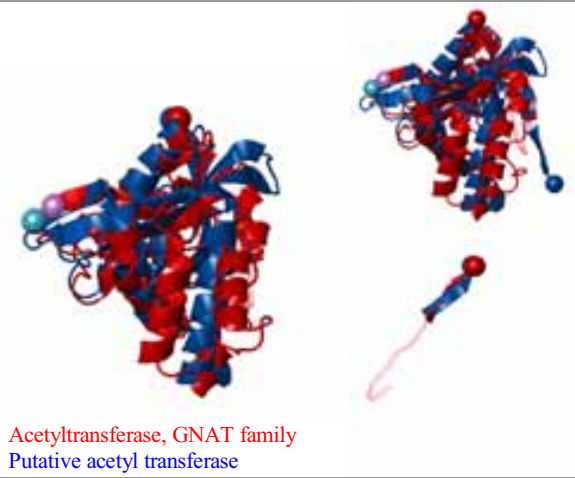
447	1sjvA (102)	95-107 (13)	95-107 (13)	95-105 (11)	C	0.64	1.41	98.04% (100/102)	52.94% (54/102)	 <p>R9 Immunoglobulin heavy chain antibody variable</p>
	1zvyA (125)	100-122 (23)	100-122 (23)	95-105 (11)						
448	1sjvA (102)	95-103 (9)	95-103 (9)	95-99 (5)	C	0.66	1.47	99.02% (101/102)	64.71% (66/102)	 <p>R9 Llama immunoglobulin</p>
	2bseD (122)	100-116 (17)	100-116 (17)	95-99 (5)						
449	1sjvA (102)	91-99 (9)	93-98 (6)	93-98 (6)	C	0.66	1.60	97.06% (99/102)	39.22% (40/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqch (114)	95-102 (8)	97-101 (5)	93-98 (6)						

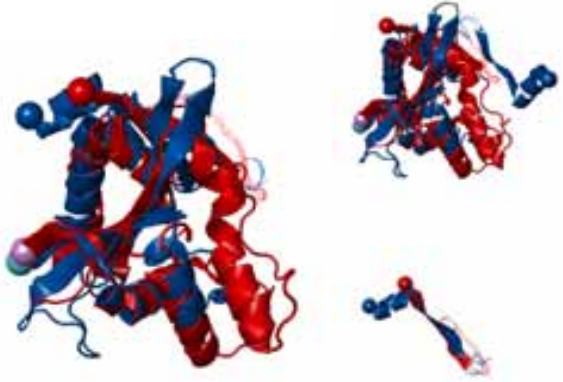
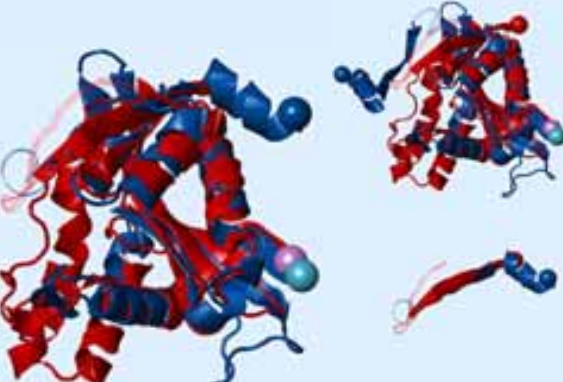
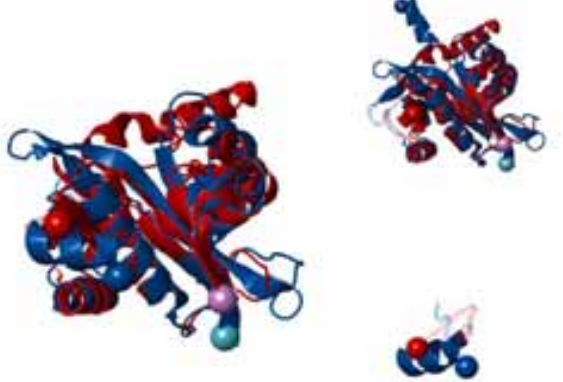
450	1sjvA (102)	91-104 (14)	93-103 (11)	93-98 (6)	C	0.66	1.56	97.06% (99/102)	40.20% (41/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqdH (114)	95-107 (13)	97-106 (10)	93-98 (6)						
451	1sjvA (102)	91-104 (14)	93-98 (6)	93-98 (6)	C	0.66	1.61	97.06% (99/102)	38.24% (39/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqeH (114)	95-107 (13)	97-101 (5)	93-98 (6)						
452	1sjvA (102)	90-98 (9)	91-98 (8)	93-98 (6)	C	0.66	1.56	97.06% (99/102)	40.20% (41/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqfB (114)	94-101 (8)	95-101 (7)	93-98 (6)						

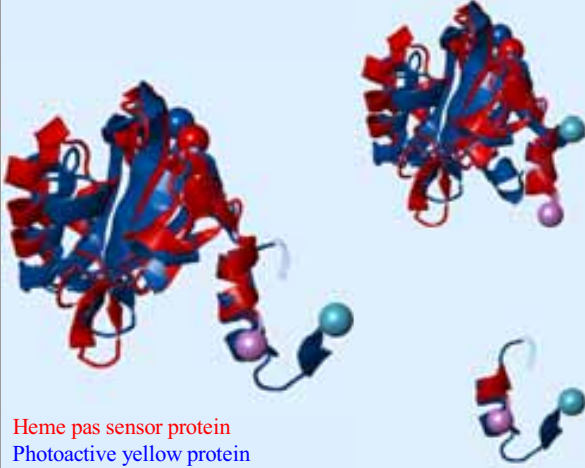
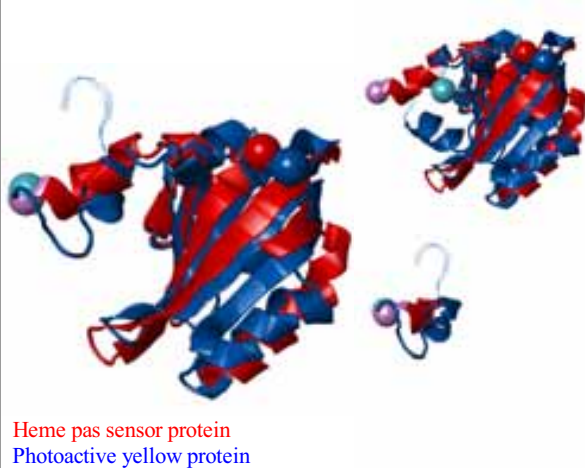
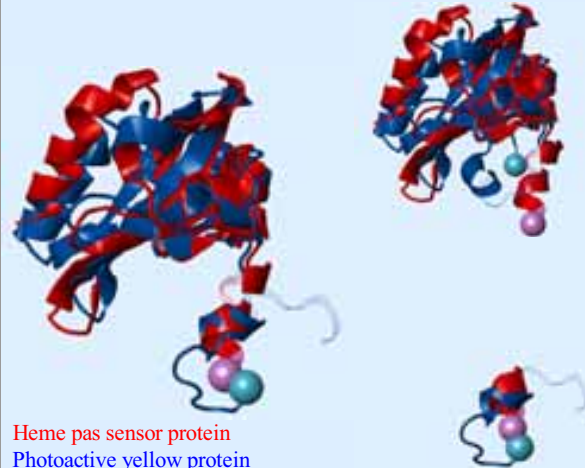
453	1sjvA (102)	91-104 (14)	93-103 (11)	93-99 (7)	C	0.65	1.69	98.04% (100/102)	41.18% (42/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqgH (114)	95-107 (13)	97-106 (10)	93-99 (7)						
454	1sjvA (102)	91-103 (13)	91-98 (8)	93-98 (6)	C	0.65	1.62	97.06% (99/102)	38.24% (39/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqhH (114)	95-106 (12)	95-101 (7)	93-98 (6)						
455	1sjvA (102)	91-99 (9)	93-98 (6)	93-98 (6)	C	0.66	1.60	97.06% (99/102)	38.24% (39/102)	 <p>R9 Ig vh,anti-lysozyme</p>
	2dqjH (114)	95-102 (8)	97-101 (5)	93-98 (6)						

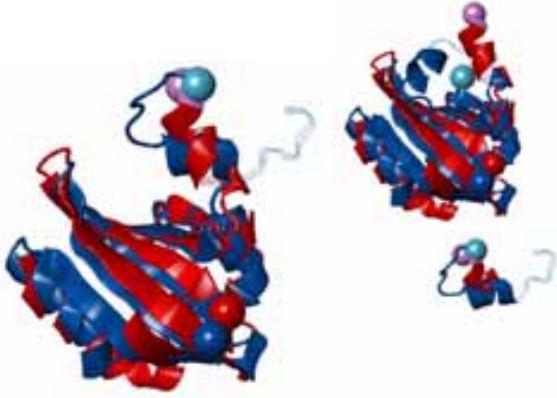
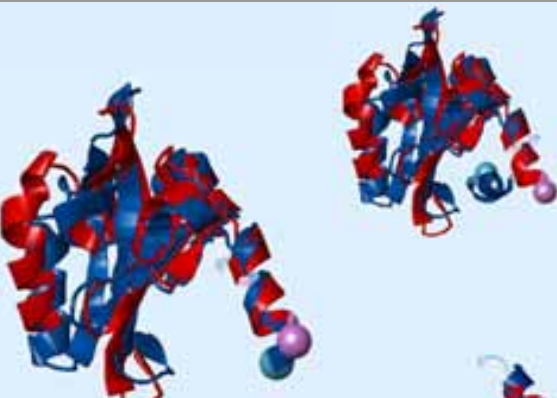
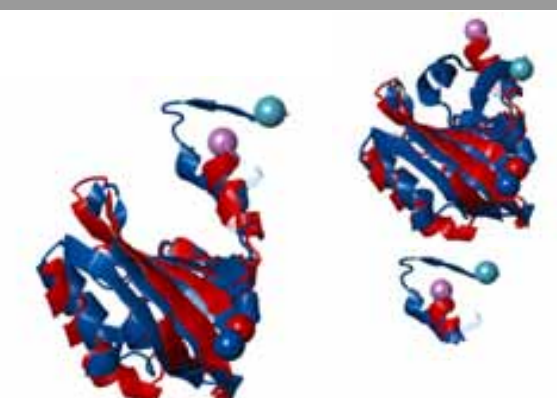
456	1sjvA (102)	90-99 (10)	93-98 (6)	93-98 (6)	C	0.66	1.71	98.04% (100/102)	41.18% (42/102)	 <p>R9 ANTI-lysozyme antibody FV region</p>
	2yssB (113)	94-102 (9)	97-101 (5)	93-98 (6)						
457	1sjvA (102)	91-103 (13)	93-99 (7)	93-103 (11)	C	0.61	1.61	99.02% (101/102)	45.10% (46/102)	 <p>R9 Heavy chain (VH) OF FV-fragment</p>
	3cx5J (127)	96-115 (20)	98-111 (14)	93-103 (11)						
458	1sndA (129)	104-124 (21)	108-121 (14)	112-121 (10)	C	0.83	1.07	100.00% (129/129)	99.22% (128/129)	 <p>Staphylococcal nuclease dimer Staphylococcal nuclease</p>
	1nsnS (138)	104-124 (21)	108-121 (14)	112-121 (10)						

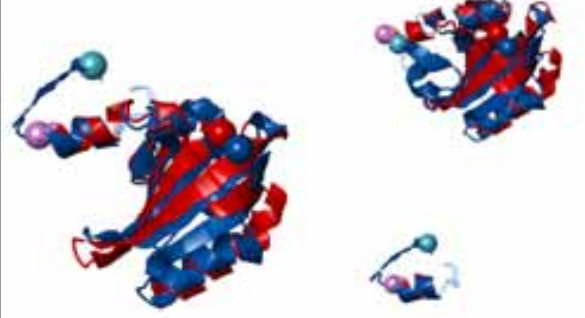
459	1tiyA (157)	101-157 (57)	104-157 (54)	104-119 (16)	C	0.25	1.53	91.54% (119/130)	30.00% (39/130)	 <p>Guanine deaminase Cytidine and deoxycytidylate deaminase</p>
	2a8nA (130)	101-131 (31)	104-131 (28)	104-119 (16)						
460	1tiyA (157)	104-143 (40)	104-133 (30)	104-133 (30)	C	0.58	1.71	89.33% (134/150)	29.33% (44/150)	 <p>Guanine deaminase TRNA adenosine deaminase</p>
	2b3jD (150)	104-137 (34)	104-127 (24)	104-133 (30)						
461	1tiyA (157)	110-141 (32)	110-141 (32)	114-141 (28)	C	0.57	1.59	91.72% (144/157)	27.39% (43/157)	 <p>Guanine deaminase Cytidine and deoxycytidylate deaminase zinc-b</p>
	2g84B (182)	139-168 (30)	139-168 (30)	114-141 (28)						

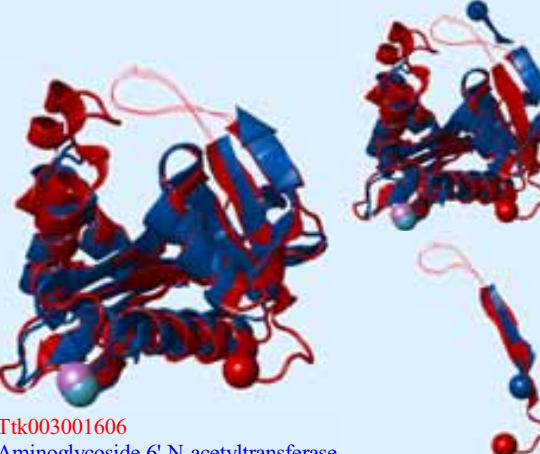
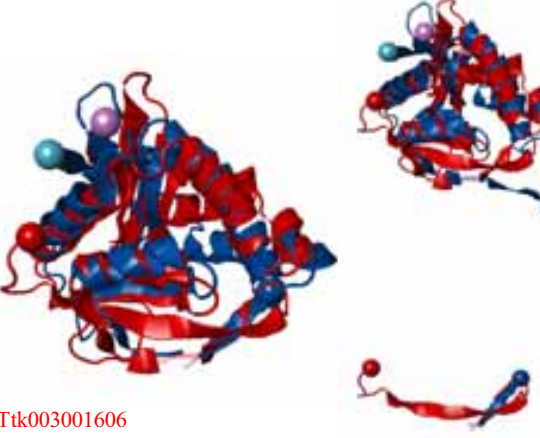
462	1tiyA (157)	87-114 (28)	94-114 (21)	103-114 (12)	C	0.33	1.97	78.32% (112/143)	18.88% (27/143)	 <p>Guanine deaminase Deoxycytidylate deaminase</p>
	2hvvA (143)	103-124 (22)	110-124 (15)	103-114 (12)						
463	1u6mA (189)	173-189 (17)	176-189 (14)	176-185 (10)	C	0.37	2.42	87.92% (131/149)	20.81% (31/149)	 <p>Acetyltransferase, GNAT family Putative acetyl transferase</p>
	1vkcA (149)	142-149 (8)	145-149 (5)	176-185 (10)						
464	1u6mA (189)	170-185 (16)	170-184 (15)	176-180 (5)	C	0.35	2.53	93.08% (121/130)	16.15% (21/130)	 <p>Acetyltransferase, GNAT family Hypothetical protein TTHA1254</p>
	2d4pA (130)	116-129 (14)	116-128 (13)	176-180 (5)						

465	1u6mA (189)	170-183 (14)	170-183 (14)	170-180 (11)	C	0.40	2.04	82.04% (137/167)	21.56% (36/167)	 <p>Acetyltransferase, GNAT family Diamine acetyltransferase 1</p>
	2f5iA (167)	146-155 (10)	146-155 (10)	170-180 (11)						
466	1u6mA (189)	171-183 (13)	171-183 (13)	171-180 (10)	C	0.42	2.00	82.14% (138/168)	22.02% (37/168)	 <p>Acetyltransferase, GNAT family Diamine acetyltransferase 1</p>
	2g3tB (168)	147-155 (9)	147-155 (9)	171-180 (10)						
467	1u6mA (189)	169-183 (15)	169-183 (15)	169-180 (12)	C	0.39	2.07	80.47% (136/169)	20.71% (35/169)	 <p>Acetyltransferase, GNAT family Diamine acetyltransferase 1</p>
	2jevA (169)	145-155 (11)	145-155 (11)	169-180 (12)						

468	1v9yA (103)	21-27 (7)	23-26 (4)	26-26 (1)	N	0.49	1.95	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1f9iA (125)	15-24 (10)	17-23 (7)	26-26 (1)						
469	1v9yA (103)	21-27 (7)	25-27 (3)	26-26 (1)	N	0.53	2.05	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1gsvA (122)	5-24 (20)	16-24 (9)	26-26 (1)						
470	1v9yA (103)	25-27 (3)	25-27 (3)	25-26 (2)	N	0.53	2.04	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1gswA (122)	15-24 (10)	15-24 (10)	25-26 (2)						

471	1v9yA (103)	25-28 (4)	25-27 (3)	26-26 (1)	N	0.53	2.06	96.12% (99/103)	13.59% (14/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1gsxA (122)	15-25 (11)	15-24 (10)	26-26 (1)						
472	1v9yA (103)	23-27 (5)	24-25 (2)	25-25 (1)	N	0.44	1.92	95.15% (98/103)	13.59% (14/103)	 <p>Heme pas sensor protein PPR</p>
	1mzuB (114)	16-24 (9)	17-22 (6)	25-25 (1)						
473	1v9yA (103)	21-28 (8)	21-26 (6)	26-26 (1)	N	0.51	2.03	96.12% (99/103)	14.56% (15/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1ot6A (125)	5-25 (21)	5-23 (19)	26-26 (1)						

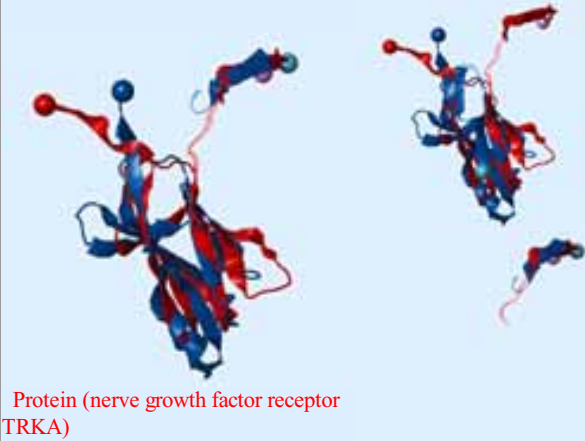
474	1v9yA (103)	21-27 (7)	21-25 (5)	25-25 (1)	N	0.39	2.05	96.12% (99/103)	14.56% (15/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	1uguA (122)	15-24 (10)	15-22 (8)	25-25 (1)						
475	1v9yA (103)	25-27 (3)	25-26 (2)	26-26 (1)	N	0.53	1.99	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	2d01A (124)	15-24 (10)	15-23 (9)	26-26 (1)						
476	1v9yA (103)	24-27 (4)	24-25 (2)	24-25 (2)	N	0.51	2.14	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	2qj7A (123)	14-24 (11)	14-22 (9)	24-25 (2)						

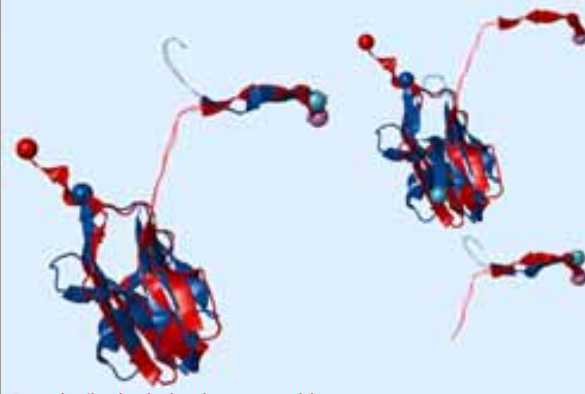
477	1v9yA (103)	21-31 (11)	25-31 (7)	26-26 (1)	N	0.48	2.29	96.12% (99/103)	15.53% (16/103)	 <p>Heme pas sensor protein Photoactive yellow protein</p>
	3phyA (125)	10-28 (19)	15-28 (14)	26-26 (1)						
478	1wk4A (174)	149-162 (14)	149-162 (14)	152-161 (10)	C	0.58	1.85	97.93% (142/145)	16.55% (24/145)	 <p>Ttk003001606 Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	136-140 (5)	136-140 (5)	152-161 (10)						
479	1wk4A (174)	139-155 (17)	149-155 (7)	150-151 (2)	C	0.35	2.96	88.39% (137/155)	10.32% (16/155)	 <p>Ttk003001606 YYCN protein</p>
	1ufhA (155)	139-155 (17)	149-155 (7)	150-151 (2)						

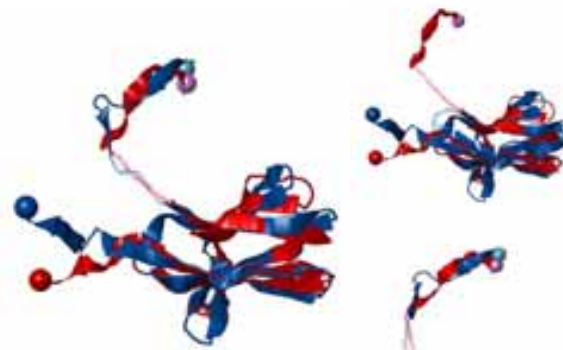
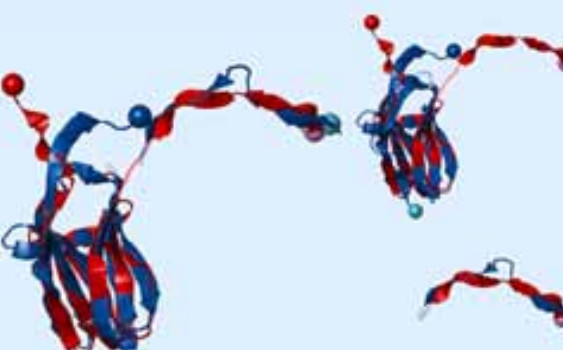

480	1wk4A (174)	139-165 (27)	140-165 (26)	152-160 (9)	C	0.43	2.25	94.62% (123/130)	16.92% (22/130)	 <p>Ttk003001606 Hypothetical protein TTHA1254</p>
	2d4pA (130)	109-129 (21)	110-129 (20)	152-160 (9)						
481	1wk4A (174)	140-173 (34)	145-162 (18)	148-161 (14)	C	0.52	2.17	91.02% (152/167)	14.97% (25/167)	 <p>Ttk003001606 Diamine acetyltransferase 1</p>
	2f5iA (167)	140-166 (27)	145-154 (10)	148-161 (14)						
482	1wk4A (174)	144-173 (30)	145-161 (17)	148-161 (14)	C	0.50	2.13	89.16% (148/166)	24.10% (40/166)	 <p>Ttk003001606 Probable N-acetyltransferase</p>
	2fe7B (166)	136-155 (20)	137-142 (6)	148-161 (14)						


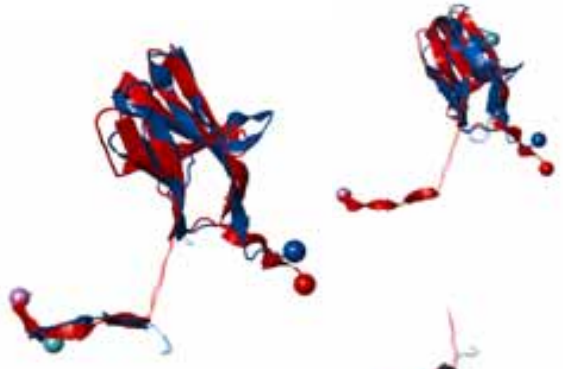
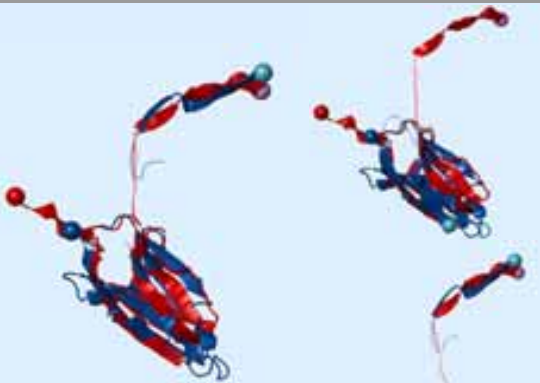
483	1wk4A (174)	139-173 (35)	145-173 (29)	148-163 (16)	C	0.51	2.30	91.12% (154/169)	13.61% (23/169)	
	2g3tA (169)	139-170 (32)	145-170 (26)	148-163 (16)						
484	1wk4A (174)	144-173 (30)	145-164 (20)	148-161 (14)	C	0.51	2.22	90.48% (152/168)	13.69% (23/168)	
	2g3tB (168)	144-169 (26)	145-158 (14)	148-161 (14)						
485	1wk4A (174)	144-173 (30)	145-173 (29)	148-160 (13)	C	0.51	2.21	89.94% (152/169)	14.79% (25/169)	
	2jevA (169)	144-166 (23)	145-166 (22)	148-160 (13)						

486	1wk4A (174)	149-173 (25)	149-173 (25)	152-164 (13)	C	0.54	2.01	96.60% (142/147)	17.01% (25/147)	 <p>Ttk003001606 Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	136-144 (9)	136-144 (9)	152-164 (13)						
487	1wk4A (174)	149-165 (17)	149-161 (13)	152-160 (9)	C	0.57	1.86	97.92% (141/144)	16.67% (24/144)	 <p>Ttk003001606 Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	136-144 (9)	136-140 (5)	152-160 (9)						
488	1wwaX (105)	282-315 (34)	295-299 (5)	295-299 (5)	N	0.49	1.94	85.71% (90/105)	18.10% (19/105)	 <p>Protein (nerve growth factor receptor TRKA) Palladin</p>
	2dm2A (110)	1-42 (42)	19-26 (8)	295-299 (5)						

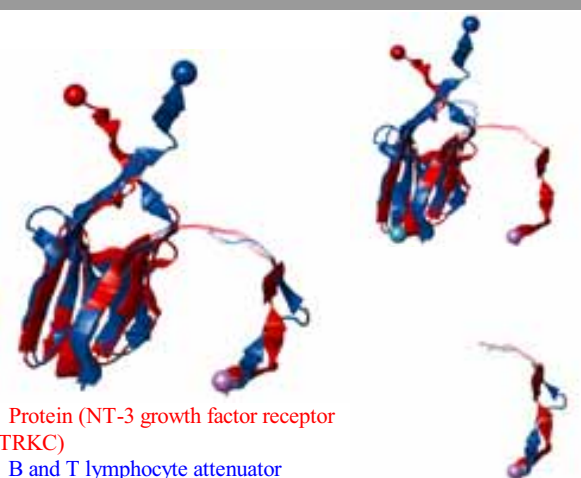
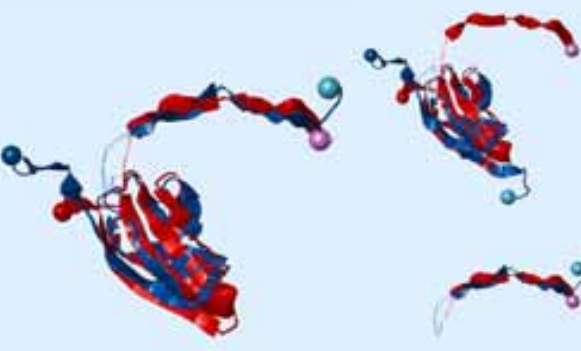
489	1wwaX (105)	286-298 (13)	286-298 (13)	295-298 (4)	N	0.45	2.18	87.62% (92/105)	9.52% (10/105)	 <p>Protein (nerve growth factor receptor TRKA) New antigen receptor ancestral</p>
	2i26O (117)	3-17 (15)	3-17 (15)	295-298 (4)						
490	1wwaX (105)	284-299 (16)	291-299 (9)	294-299 (6)	N	0.44	2.23	85.71% (90/105)	8.57% (9/105)	 <p>Protein (nerve growth factor receptor TRKA) New antigen receptor ancestral</p>
	2i26P (114)	3-18 (16)	11-18 (8)	294-299 (6)						
491	1wwbX (103)	286-305 (20)	286-301 (16)	297-299 (3)	N	0.26	2.15	81.55% (84/103)	10.68% (11/103)	 <p>Protein (brain derived neurotrophic factor Re CD2)</p>
	1hngA (175)	3-18 (16)	3-14 (12)	297-299 (3)						

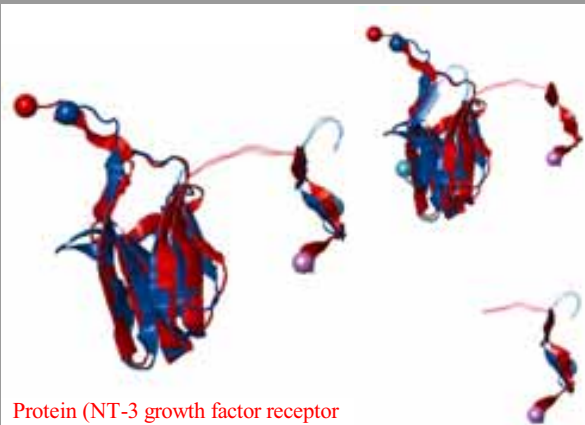
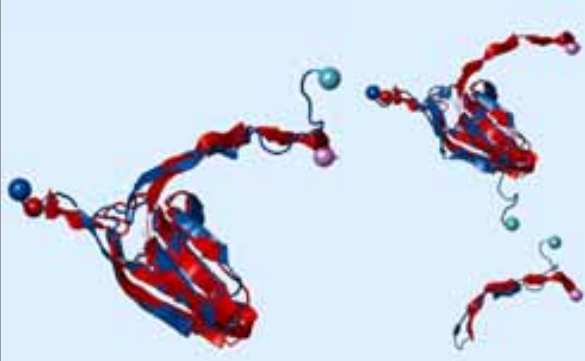
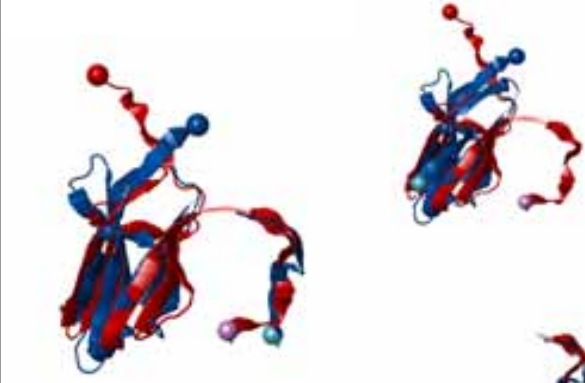
492	1wwbX (103)	298-310 (13)	298-299 (2)	298-299 (2)	N	0.50	2.04	87.38% (90/103)	13.59% (14/103)	 <p>Protein (brain derived neurotrophic factor Re) Neural cell adhesion molecule</p>
	lie5A (107)	23-40 (18)	23-29 (7)	298-299 (2)						
493	1wwbX (103)	285-353 (69)	286-315 (30)	297-301 (5)	N	0.43	2.06	85.44% (88/103)	9.71% (10/103)	 <p>Protein (brain derived neurotrophic factor Re) Antibody VHH fragment cabamd9</p>
	1kxqE (120)	2-85 (84)	3-31 (29)	297-301 (5)						
494	1wwbX (103)	285-300 (16)	293-300 (8)	293-300 (8)	N	0.41	2.29	84.47% (87/103)	7.77% (8/103)	 <p>Protein (brain derived neurotrophic factor Re) Novel antigen receptor</p>
	1sq2N (112)	3-17 (15)	11-17 (7)	293-300 (8)						

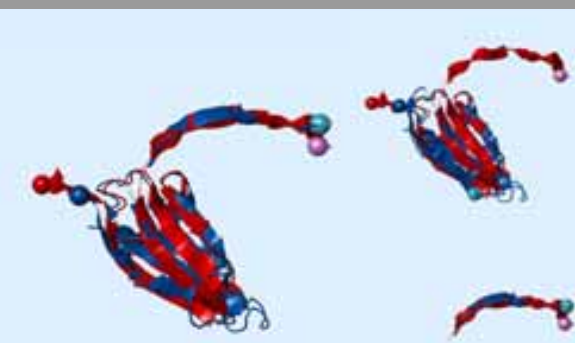
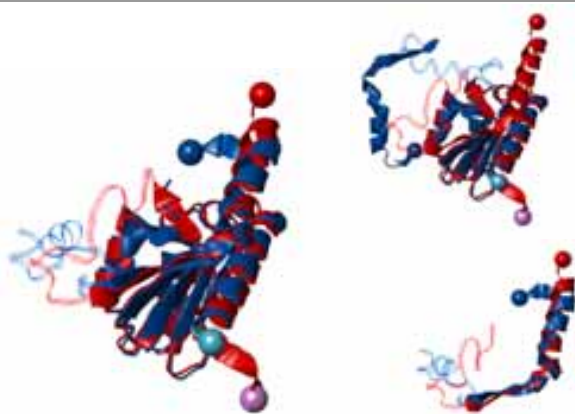
495	1wwbX (103)	284-311 (28)	285-306 (22)	294-300 (7)	N	0.53	2.25	94.17% (97/103)	13.59% (14/103)	 <p>Protein (brain derived neurotrophic factor Re B and T lymphocyte attenuator</p>
	2aw2A (110)	35-65 (31)	36-59 (24)	294-300 (7)						
496	1wwbX (103)	284-345 (62)	285-312 (28)	297-300 (4)	N	0.54	2.14	92.23% (95/103)	13.59% (14/103)	 <p>Protein (brain derived neurotrophic factor Re B and T lymphocyte attenuator</p>
	2aw2X (107)	35-99 (65)	36-66 (31)	297-300 (4)						
497	1wwbX (103)	285-345 (61)	285-315 (31)	297-301 (5)	N	0.29	2.42	94.17% (97/103)	6.80% (7/103)	 <p>Protein (brain derived neurotrophic factor Re INKT-TCR</p>
	2cdeA (192)	3-74 (72)	3-33 (31)	297-301 (5)						

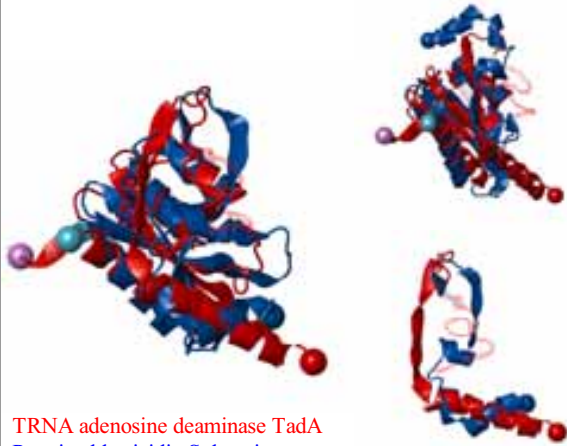
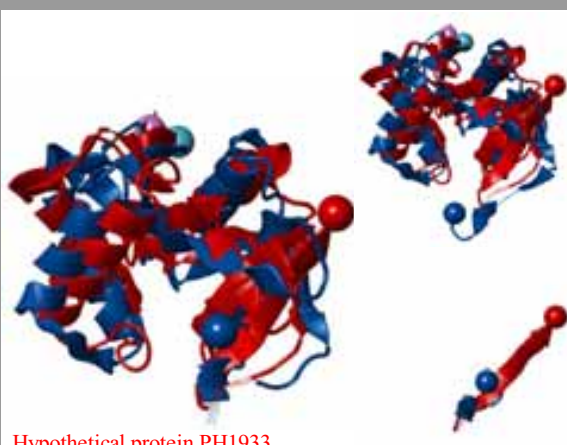
498	1wwbX (103)	287-317 (31)	287-301 (15)	298-301 (4)	N	0.48	2.21	90.29% (93/103)	6.80% (7/103)	 <p>Protein (brain derived neurotrophic factor Re) New antigen receptor ancestral</p>
	2i26P (114)	3-36 (34)	3-18 (16)	298-301 (4)						
499	1wwbX (103)	283-299 (17)	283-299 (17)	294-299 (6)	N	0.45	2.24	88.35% (91/103)	10.68% (11/103)	 <p>Protein (brain derived neurotrophic factor Re) Bence-jones protein RHE (light chain)</p>
	2rheA (114)	1-16 (16)	1-16 (16)	294-299 (6)						
500	1wwbX (103)	286-316 (31)	286-301 (16)	294-301 (8)	N	0.47	2.15	87.38% (90/103)	8.74% (9/103)	 <p>Protein (brain derived neurotrophic factor Re) New antigen receptor variable domain</p>
	2ywzA (111)	3-35 (33)	3-18 (16)	294-301 (8)						

501	1wwbX (103)	283-300 (18)	283-300 (18)	298-300 (3)	N	0.53	2.00	88.89% (88/99)	16.16% (16/99)	 <p>Protein (brain derived neurotrophic factor Re) Fibroblast growth factor receptor 2</p>
	3darA (99)	151-174 (24)	151-174 (24)	298-300 (3)						
502	1wwcA (105)	310-363 (54)	310-333 (24)	311-318 (8)	N	0.34	2.31	84.76% (89/105)	5.71% (6/105)	 <p>Protein (NT-3 growth factor receptor TRKC) B1-8 FV (light chain)</p>
	1a6wL (109)	10-75 (66)	10-35 (26)	311-318 (8)						
503	1wwcA (105)	303-331 (29)	316-331 (16)	316-318 (3)	N	0.26	2.45	91.43% (96/105)	4.76% (5/105)	 <p>Protein (NT-3 growth factor receptor TRKC) Gamma-delta T-cell receptor</p>
	1hxmA (206)	2-33 (32)	16-33 (18)	316-318 (3)						

504	1wvcA (105)	305-318 (14)	305-318 (14)	316-318 (3)	N	0.43	2.11	84.76% (89/105)	10.48% (11/105)	 <p>Protein (NT-3 growth factor receptor TRKC) Novel antigen receptor</p>
	1sq2N (112)	3-17 (15)	3-17 (15)	316-318 (3)						
505	1wvcA (105)	301-329 (29)	304-324 (21)	312-319 (8)	N	0.37	2.18	86.67% (91/105)	13.33% (14/105)	 <p>Protein (NT-3 growth factor receptor TRKC) B and T lymphocyte attenuator</p>
	2aw2A (110)	35-65 (31)	38-59 (22)	312-319 (8)						
506	1wvcA (105)	301-335 (35)	309-318 (10)	315-318 (4)	N	0.37	1.98	85.44% (88/103)	9.71% (10/103)	 <p>Protein (NT-3 growth factor receptor TRKC) KIAA1556 protein</p>
	2dkuA (103)	5-41 (37)	13-25 (13)	315-318 (4)						

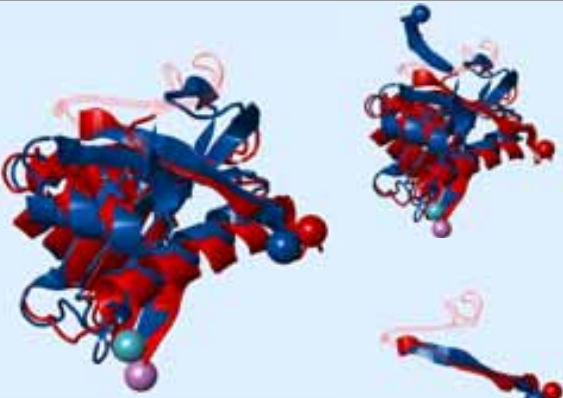
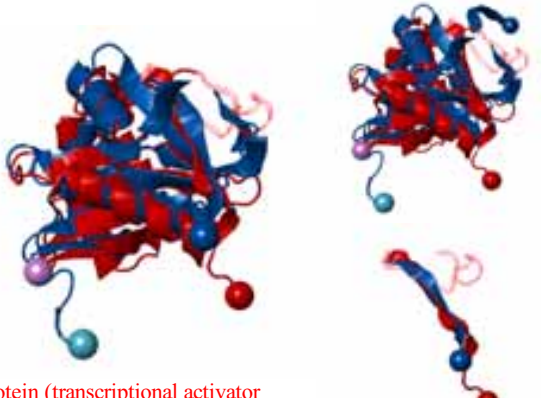
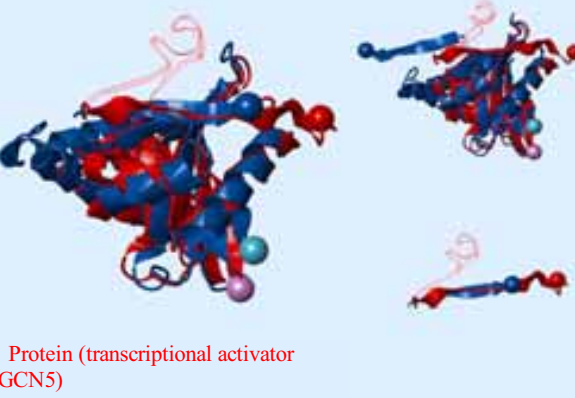
507	1wvcA (105)	310-318 (9)	310-318 (9)	312-318 (7)	N	0.37	2.31	86.67% (91/105)	10.48% (11/105)	 <p>Protein (NT-3 growth factor receptor TRKC) Bence-jones protein RHE (light chain)</p>
	2rheA (114)	10-17 (8)	10-17 (8)	312-318 (7)						
508	1wvcA (105)	309-330 (22)	309-319 (11)	318-319 (2)	N	0.46	2.02	86.00% (86/100)	12.00% (12/100)	 <p>Protein (NT-3 growth factor receptor TRKC) Myosin-binding protein C, slow-type</p>
	2yuvA (100)	12-36 (25)	12-26 (15)	318-319 (2)						
509	1wvcA (105)	304-320 (17)	304-318 (15)	316-318 (3)	N	0.46	1.94	86.67% (91/105)	8.57% (9/105)	 <p>Protein (NT-3 growth factor receptor TRKC) New antigen receptor variable domain</p>
	2ywyA (113)	2-19 (18)	2-17 (16)	316-318 (3)						


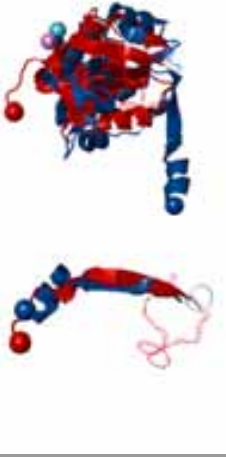
510	1wwcA (105)	304-333 (30)	304-318 (15)	316-318 (3)	N	0.47	1.93	86.67% (91/105)	8.57% (9/105)	 <p>Protein (NT-3 growth factor receptor TRKC) New antigen receptor variable domain</p>
	2ywzA (111)	2-34 (33)	2-17 (16)	316-318 (3)						
511	1wwrA (154)	100-131 (32)	100-130 (31)	104-124 (21)	C	0.58	1.56	86.36% (133/154)	29.87% (46/154)	 <p>TRNA adenosine deaminase TadA Guanine deaminase</p>
	1wkqB (155)	101-136 (36)	101-135 (35)	104-124 (21)						
512	1wwrA (154)	90-135 (46)	99-118 (20)	90-116 (27)	C	0.32	2.80	80.28% (114/142)	14.08% (20/142)	 <p>TRNA adenosine deaminase TadA Putative blasticidin S deaminase</p>
	3b8fB (142)	97-128 (32)	106-109 (4)	90-116 (27)						

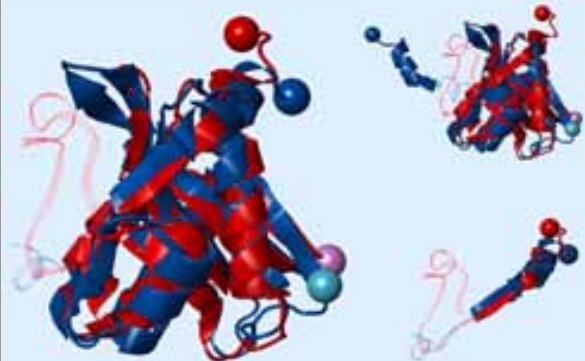
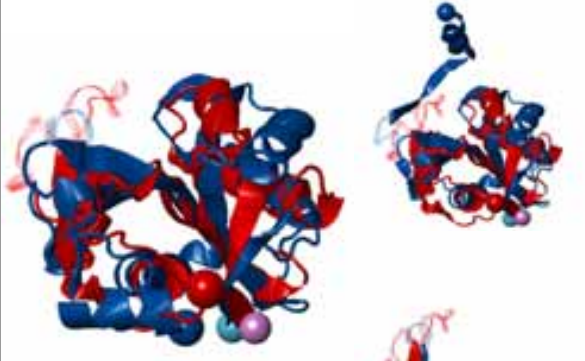
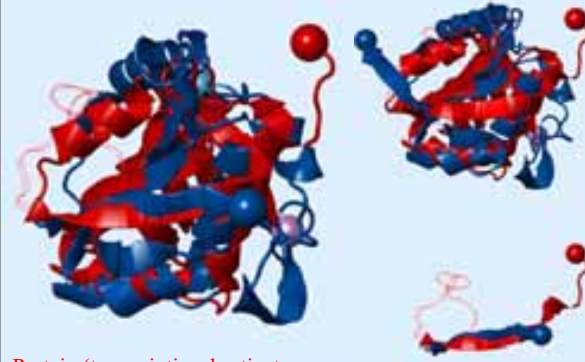
513	1wwrA (154)	90-135 (46)	99-133 (35)	97-116 (20)	C	0.31	2.88	81.43% (114/140)	14.29% (20/140)	 <p>TRNA adenosine deaminase TadA Putative blasticidin S deaminase</p>
	3b8fC (140)	97-128 (32)	106-126 (21)	97-116 (20)						
514	1wwzA (157)	138-150 (13)	138-149 (12)	146-147 (2)	C	0.46	2.54	91.33% (137/150)	18.00% (27/150)	 <p>Hypothetical protein PH1933 HPA2 histone acetyltransferase</p>
	1qsmA (150)	141-148 (8)	141-147 (7)	146-147 (2)						
515	1wwzA (157)	138-152 (18)	138-152 (15)	146-147 (2)	C	0.46	2.74	93.96% (140/149)	19.46% (29/149)	 <p>Hypothetical protein PH1933 HPA2 histone acetyltransferase</p>
	1qsmB (149)	138-155 (18)	141-155 (15)	146-147 (2)						

516	1wwzA (157)	138-149 (12)	140-149 (10)	140-148 (9)	C	0.47	2.68	93.42% (142/152)	19.74% (30/152)	 <p>Hypothetical protein PH1933 HPA2 histone acetyltransferase</p>
	1qsmD (152)	141-147 (7)	143-147 (5)	140-148 (9)						
517	1wwzA (157)	144-150 (7)	144-150 (7)	145-148 (4)	C	0.52	2.44	96.55% (140/145)	12.41% (18/145)	 <p>Hypothetical protein PH1933 Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	135-138 (4)	135-138 (4)	145-148 (4)						
518	1wwzA (157)	143-153 (11)	143-149 (7)	143-149 (7)	C	0.49	2.32	90.67% (136/150)	17.33% (26/150)	 <p>Hypothetical protein PH1933 Transcriptional regulator</p>
	1z4eA (150)	144-149 (6)	144-145 (2)	143-149 (7)						



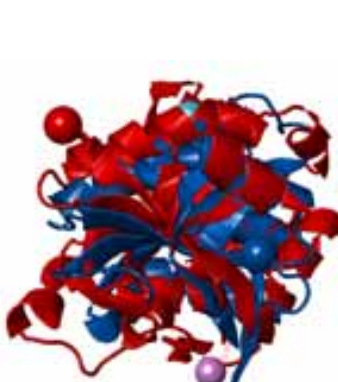

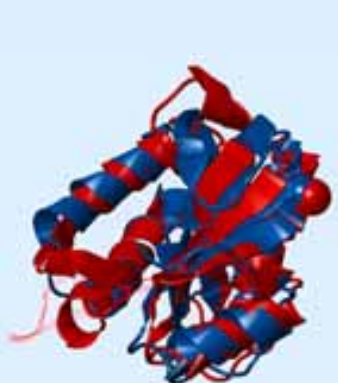

519	1wwzA (157)	143-150 (8)	143-150 (8)	144-149 (6)	C	0.46	2.31	89.17% (140/157)	15.29% (24/157)	 <p>Hypothetical protein PH1933 Diamine acetyltransferase 1</p>
	2g3tA (169)	147-154 (8)	147-154 (8)	144-149 (6)						
520	1wx7A (106)	2-20 (19)	2-19 (18)	12-16 (5)	N	0.47	1.93	96.88% (93/96)	35.42% (34/96)	 <p>Ubiquilin 3 Riken cDNA 4931431F19</p>
	1wx8A (96)	3-20 (18)	3-19 (17)	12-16 (5)						
521	1yghA (164)	228-254 (27)	228-253 (26)	229-247 (19)	C	0.32	2.43	75.78% (122/161)	11.18% (18/161)	 <p>Protein (transcriptional activator GCN5) Glucosamine-phosphate N-acetyltransferase</p>
	1ildD (161)	150-158 (9)	150-157 (8)	229-247 (19)						


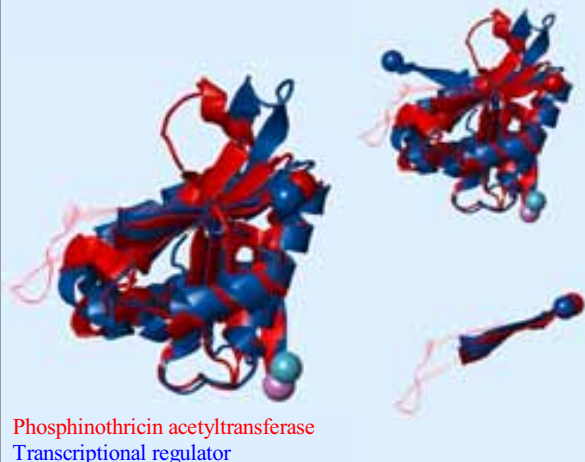
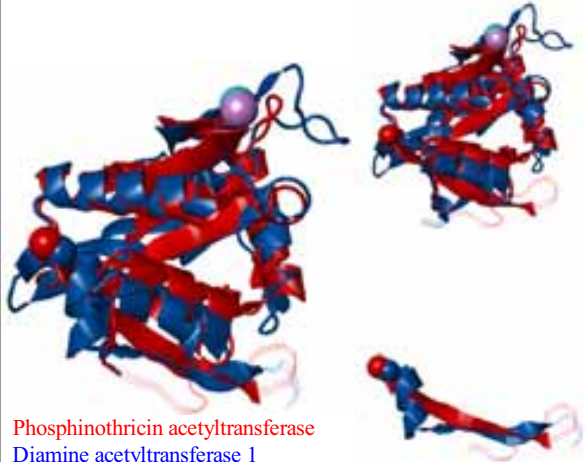
522	lyghA (164)	223-257 (33)	228-249 (22)	229-247 (19)	C	0.44	2.33	89.66% (130/145)	8.28% (12/145)	 Protein (transcriptional activator GCN5) Aminoglycoside 6'-N-acetyltransferase
	1s3zB (145)	131-144 (14)	134-137 (4)	229-247 (19)						
523	lyghA (164)	227-257 (31)	228-249 (22)	229-247 (19)	C	0.42	2.32	84.31% (129/153)	7.19% (11/153)	 Protein (transcriptional activator GCN5) Aminoglycoside 6'-N-acetyltransferase
	1s5kA (153)	133-144 (12)	134-137 (4)	229-247 (19)						
524	lyghA (164)	228-253 (26)	228-249 (22)	228-244 (17)	C	0.39	2.41	82.58% (128/155)	10.97% (17/155)	 Protein (transcriptional activator GCN5) YYCN protein
	1ufhA (155)	147-155 (9)	147-151 (5)	228-244 (17)						

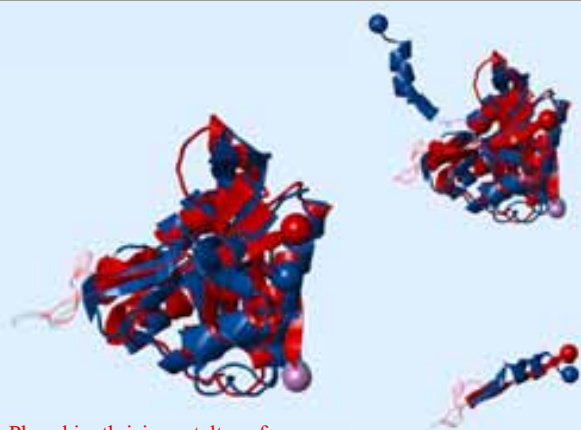
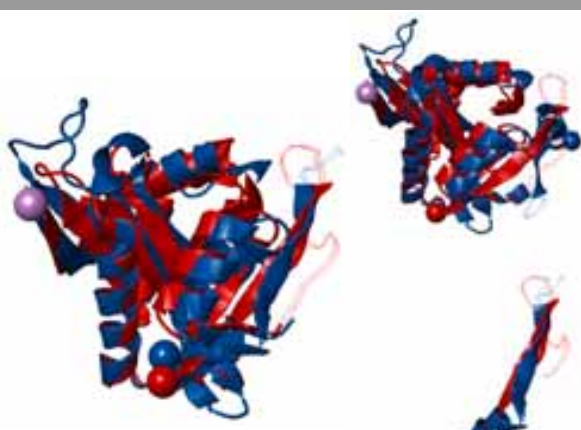
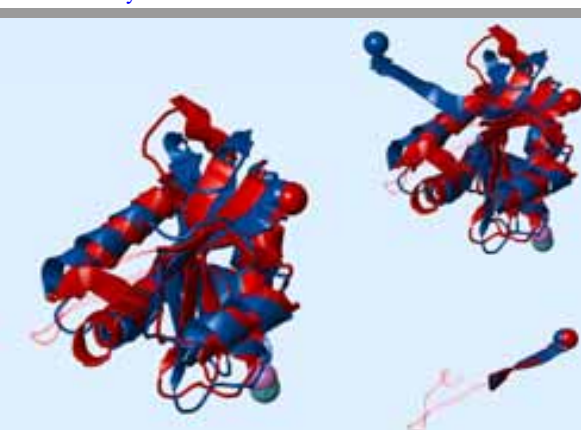
525	lyghA (164)	228-253 (26)	228-249 (22)	228-244 (17)	C	0.42	2.25	83.77% (129/154)	11.04% (17/154)	  <p>Protein (transcriptional activator GCN5) YYCN protein</p>
	lufhB (154)	147-155 (9)	147-151 (5)	228-244 (17)						
526	lyghA (164)	224-251 (28)	224-250 (27)	230-248 (19)	C	0.38	2.58	91.54% (119/130)	7.69% (10/130)	  <p>Protein (transcriptional activator GCN5) Hypothetical protein TTHA1254</p>
	2d4pA (130)	113-123 (11)	113-122 (10)	230-248 (19)						
527	lyghA (164)	226-248 (23)	228-248 (21)	228-248 (21)	C	0.41	2.36	82.93% (136/164)	9.15% (15/164)	  <p>Protein (transcriptional activator GCN5) Diamine acetyltransferase 1</p>
	2f5iA (167)	145-153 (9)	147-153 (7)	228-248 (21)						

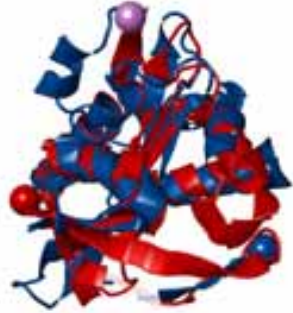



528	1yghA (164)	223-259 (35)	228-243 (16)	228-250 (23)	C	0.39	2.48	83.54% (137/164)	10.37% (17/164)	 <p>Protein (transcriptional activator GCN5) Diamine acetyltransferase 1</p>
	2g3tA (169)	144-170 (27)	147-150 (4)	228-250 (23)						
529	1yghA (164)	221-248 (28)	228-248 (21)	228-248 (21)	C	0.41	2.35	82.93% (136/164)	9.15% (15/164)	 <p>Protein (transcriptional activator GCN5) Diamine acetyltransferase 1</p>
	2g3tB (168)	140-153 (14)	147-153 (7)	228-248 (21)						
530	1yghA (164)	228-254 (27)	228-250 (23)	229-246 (18)	C	0.30	2.43	75.00% (123/164)	10.37% (17/164)	 <p>Protein (transcriptional activator GCN5) Glucosamine 6-phosphate N-acetyltransferase</p>
	2o28B (180)	172-181 (10)	172-177 (6)	229-246 (18)						

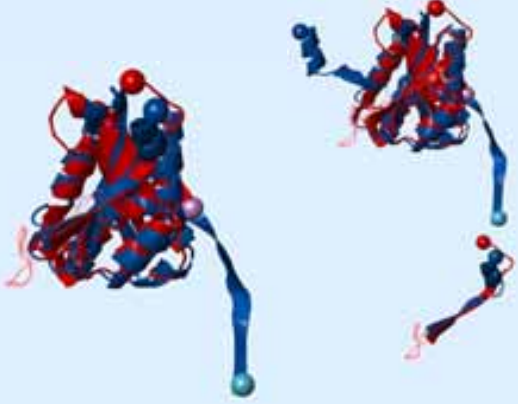
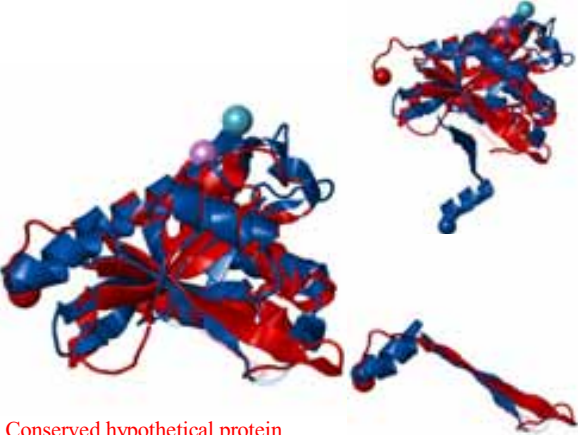
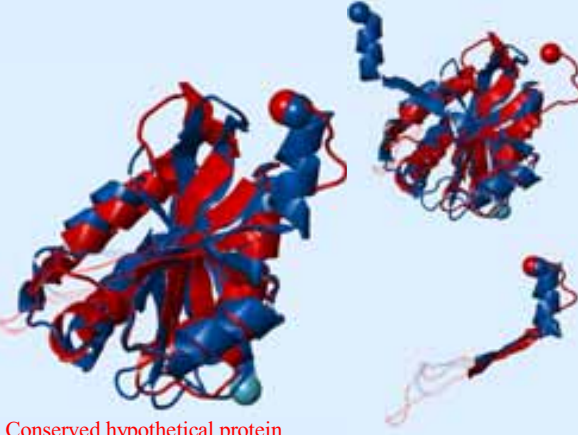
531	1yghA (164)	227-257 (31)	228-249 (22)	229-247 (19)	C	0.43	2.37	89.58% (129/144)	8.33% (12/144)	 <p>Protein (transcriptional activator GCN5) Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	133-144 (12)	134-137 (4)	229-247 (19)						
532	1yghA (164)	228-254 (27)	228-250 (23)	229-247 (19)	C	0.33	2.28	73.78% (121/164)	10.37% (17/164)	 <p>Protein (transcriptional activator GCN5) Glucosamine 6-phosphate acetyltransferase</p>
	2vxkA (165)	181-189 (9)	181-185 (5)	229-247 (19)						
533	1yk3A (198)	186-198 (13)	188-198 (11)	192-193 (2)	C	0.40	2.61	97.93% (142/145)	12.41% (18/145)	 <p>Hypothetical protein rv1347c/mt1389 Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	133-144 (12)	135-144 (10)	192-193 (2)						

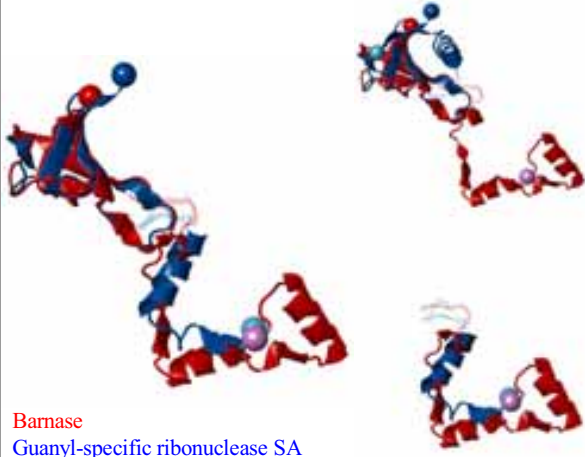
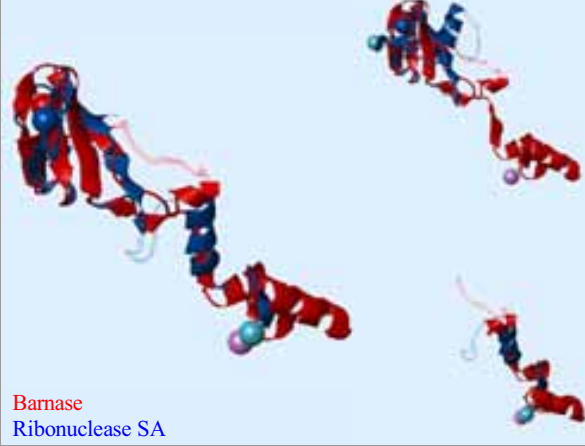
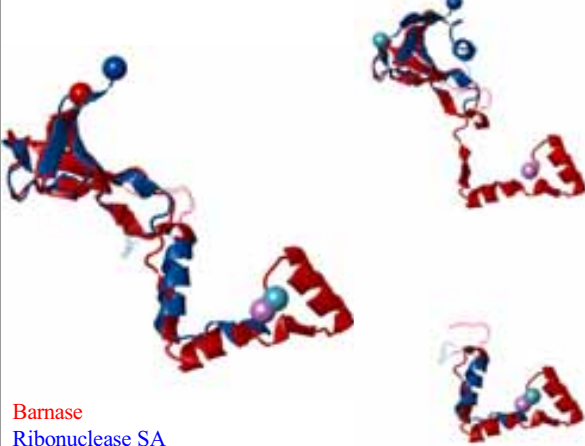
534	1yk3A (198)	183-201 (19)	192-201 (10)	192-197 (6)	C	0.40	2.58	94.77% (145/153)	13.07% (20/153)	 
	1s5kA (153)	130-144 (15)	139-144 (6)	192-197 (6)						
535	1yk3A (198)	186-198 (13)	192-198 (7)	192-193 (2)	C	0.40	2.60	97.92% (141/144)	13.19% (19/144)	 
	2vbqB (144)	133-144 (12)	139-144 (6)	192-193 (2)						
536	1yr0A (163)	143-160 (18)	144-160 (17)	146-159 (14)	C	0.54	2.04	94.48% (137/145)	16.55% (24/145)	 
	1s3zB (145)	135-139 (5)	136-139 (4)	146-159 (14)						

537	1yr0A (163)	144-160 (17)	144-160 (17)	146-159 (14)	C	0.52	2.02	89.54% (137/153)	16.99% (26/153)	 <p>Phosphinothricin acetyltransferase Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	136-139 (4)	136-139 (4)	146-159 (14)						
538	1yr0A (163)	142-159 (18)	142-159 (18)	143-158 (16)	C	0.52	2.05	90.67% (136/150)	19.33% (29/150)	 <p>Phosphinothricin acetyltransferase Transcriptional regulator</p>
	1z4eA (150)	144-147 (4)	144-147 (4)	143-158 (16)						
539	1yr0A (163)	142-165 (24)	142-155 (14)	144-155 (12)	C	0.50	2.22	88.96% (145/163)	16.56% (27/163)	 <p>Phosphinothricin acetyltransferase Diamine acetyltransferase 1</p>
	2f5iA (167)	147-168 (22)	147-153 (7)	144-155 (12)						

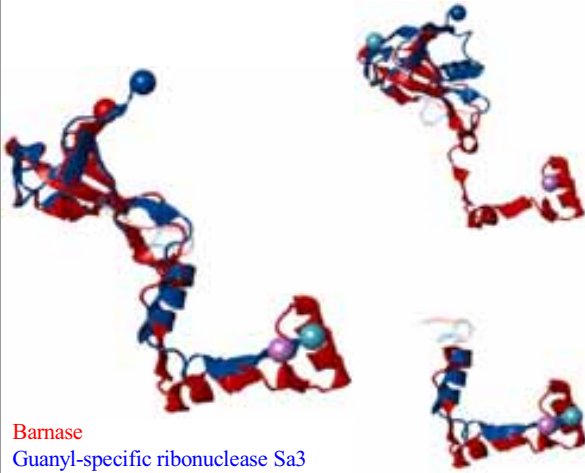
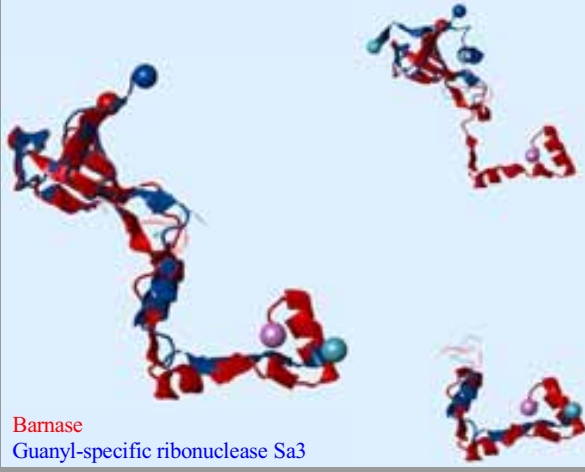
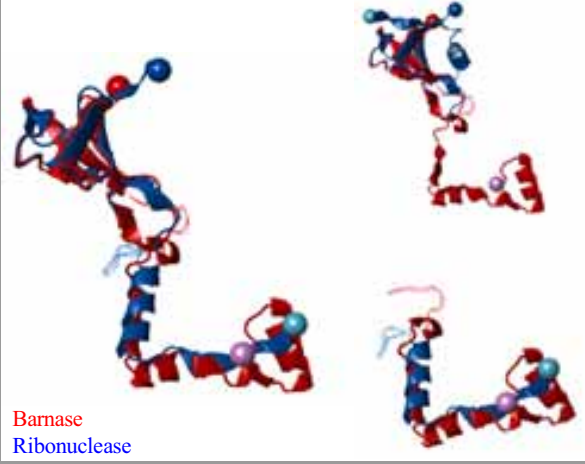
540	1yr0A (163)	142-165 (24)	142-165 (24)	144-157 (14)	C	0.49	2.21	88.34% (144/163)	16.56% (27/163)	 <p>Phosphinothricin acetyltransferase Diamine acetyltransferase 1</p>
	2g3tA (169)	147-169 (23)	147-169 (23)	144-157 (14)						
541	1yr0A (163)	142-155 (14)	142-155 (14)	144-155 (12)	C	0.51	2.11	88.34% (144/163)	15.95% (26/163)	 <p>Phosphinothricin acetyltransferase Diamine acetyltransferase 1</p>
	2g3tB (168)	147-153 (7)	147-153 (7)	144-155 (12)						
542	1yr0A (163)	144-160 (17)	144-160 (17)	146-159 (14)	C	0.53	2.13	93.88% (138/147)	17.01% (25/147)	 <p>Phosphinothricin acetyltransferase Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	136-139 (4)	136-139 (4)	146-159 (14)						

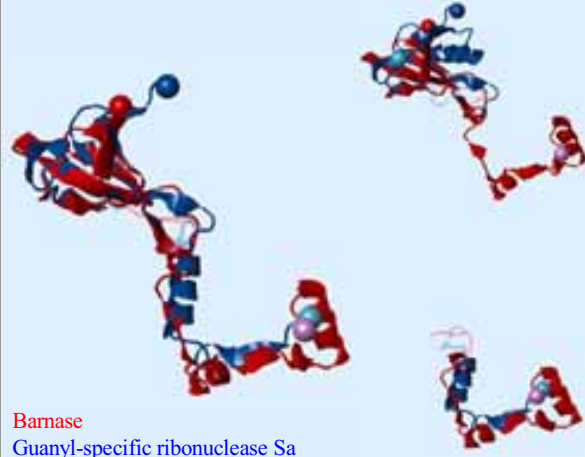
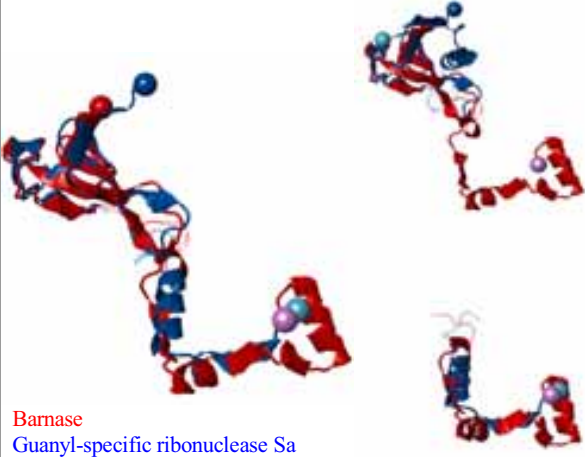
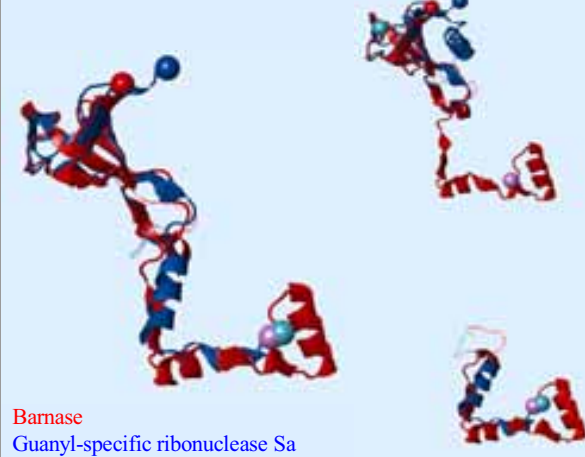
543	1yr0A (163)	143-153 (11)	143-153 (11)	145-146 (2)	C	0.38	2.32	82.21% (134/163)	14.72% (24/163)	  Phosphinothricin acetyltransferase Glucosamine 6-phosphate acetyltransferase
	2vxkA (165)	182-189 (8)	182-189 (8)	145-146 (2)						
544	1yvoA (169)	141-156 (16)	141-156 (16)	143-154 (12)	C	0.45	1.92	90.67% (136/150)	18.67% (28/150)	  Conserved hypothetical protein Transcriptional regulator
	1z4eA (150)	144-148 (5)	144-148 (5)	143-154 (12)						
545	1yvoA (169)	141-169 (29)	141-157 (17)	142-157 (16)	C	0.47	2.35	88.02% (147/167)	17.96% (30/167)	  Conserved hypothetical protein Diamine acetyltransferase 1
	2f5iA (167)	147-168 (22)	147-154 (8)	142-157 (16)						

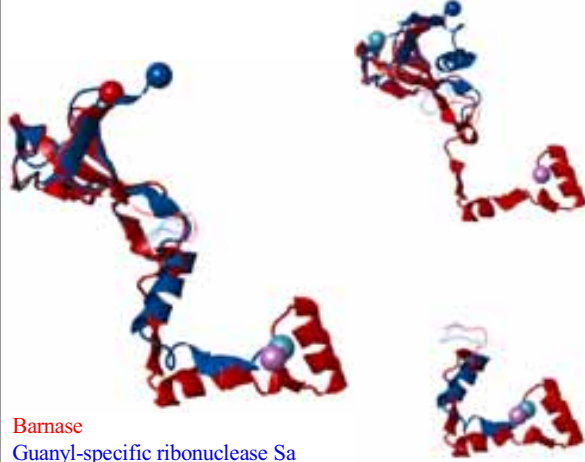
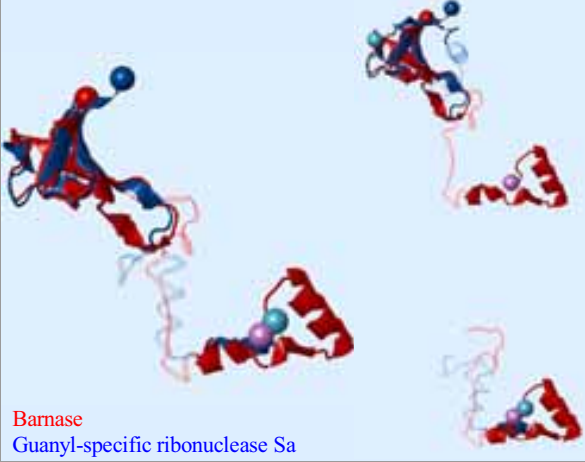
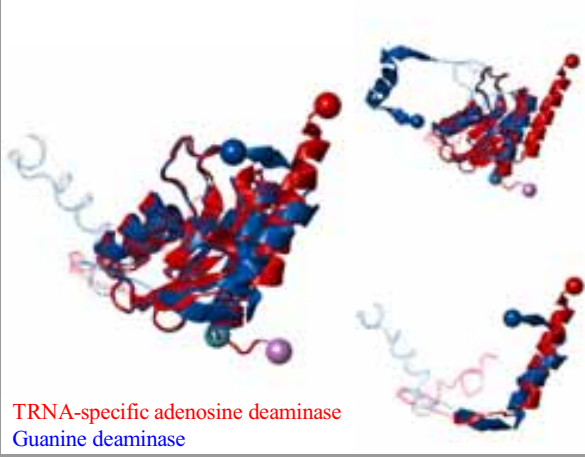
546	1yvoA (169)	142-156 (15)	142-156 (15)	142-156 (15)	C	0.47	2.38	87.95% (146/166)	18.07% (30/166)	 <p>Conserved hypothetical protein Probable N-acetyltransferase</p>
	2fe7B (166)	140-142 (3)	140-142 (3)	142-156 (15)						
547	1yvoA (169)	141-171 (31)	141-157 (17)	142-147 (6)	C	0.49	2.34	88.69% (149/168)	18.45% (31/168)	 <p>Conserved hypothetical protein Diamine acetyltransferase 1</p>
	2g3tB (168)	147-169 (23)	147-154 (8)	142-147 (6)						
548	1yvoA (169)	141-171 (31)	141-171 (31)	142-158 (17)	C	0.48	2.30	86.98% (147/169)	17.75% (30/169)	 <p>Conserved hypothetical protein Diamine acetyltransferase 1</p>
	2jevA (169)	147-169 (23)	147-169 (23)	142-158 (17)						

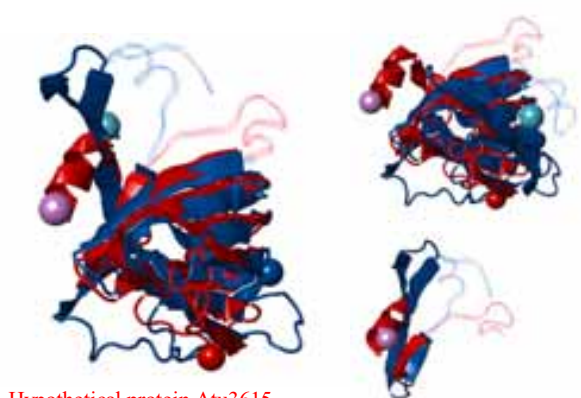
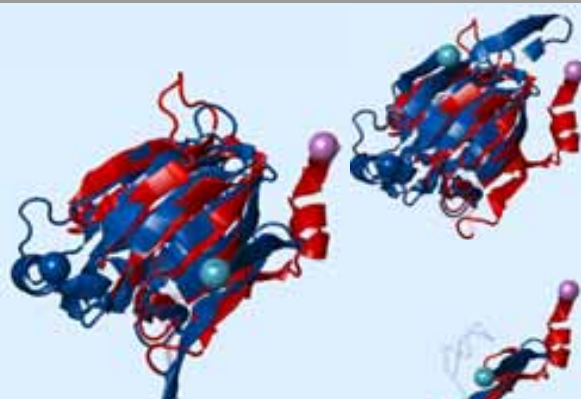
549	lyvsA (108)	45-52 (8)	45-52 (8)	46-52 (7)	N	0.39	2.48	86.32% (82/95)	22.11% (21/95)	 <p>Barnase Guanyl-specific ribonuclease SA</p>
	lboxA (95)	23-33 (11)	23-33 (11)	46-52 (7)						
550	lyvsA (108)	45-109 (65)	45-58 (14)	45-54 (10)	N	0.37	2.42	83.33% (80/96)	20.83% (20/96)	 <p>Barnase Ribonuclease SA</p>
	lc54A (96)	24-92 (69)	24-39 (16)	45-54 (10)						
551	lyvsA (108)	45-52 (8)	46-52 (7)	45-52 (8)	N	0.41	2.16	83.33% (80/96)	20.83% (20/96)	 <p>Barnase Ribonuclease SA</p>
	lgmpA (96)	24-33 (10)	25-33 (9)	45-52 (8)						

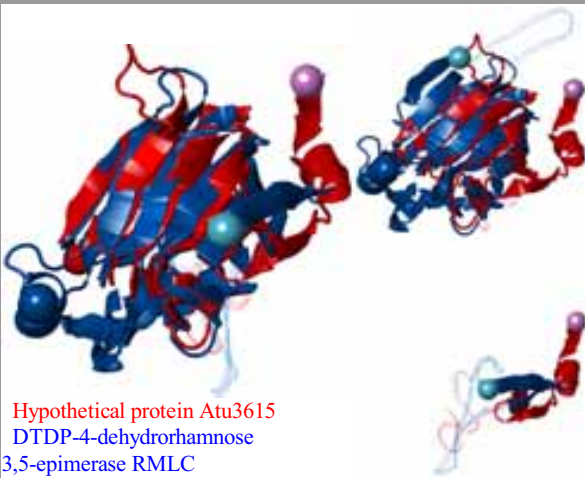
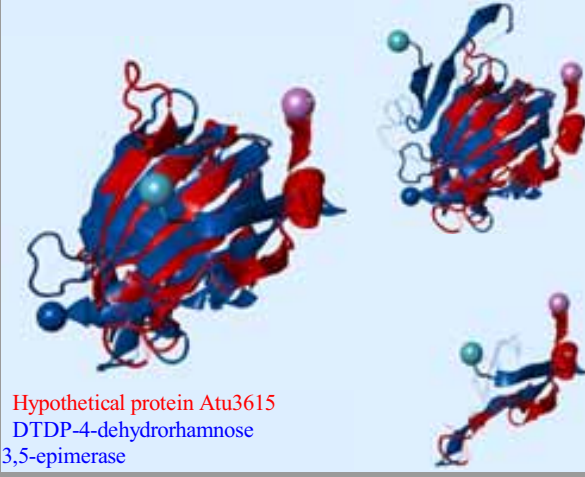
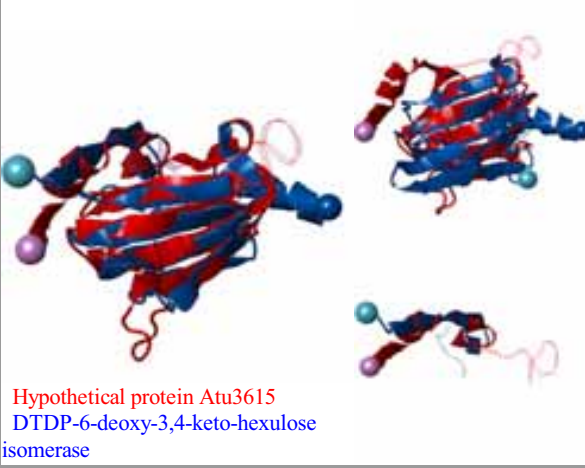
552	1yvsA (108)	26-52 (27)	28-52 (25)	26-52 (27)	N	0.40	2.33	85.42% (82/96)	22.92% (22/96)	 <p>Barnase Guanyl-specific ribonuclease SA</p>
	1i70A (96)	7-33 (27)	9-33 (25)	26-52 (27)						
553	1yvsA (108)	45-52 (8)	45-52 (8)	46-52 (7)	N	0.40	2.27	84.38% (81/96)	19.79% (19/96)	 <p>Barnase Guanyl-specific ribonuclease SA</p>
	1i8vA (96)	20-33 (14)	20-33 (14)	46-52 (7)						
554	1yvsA (108)	34-54 (21)	34-53 (20)	34-54 (21)	N	0.26	2.84	75.96% (79/104)	11.54% (12/104)	 <p>Barnase Guanyl-specific ribonuclease T1</p>
	1lovA (104)	30-40 (11)	30-39 (10)	34-54 (21)						

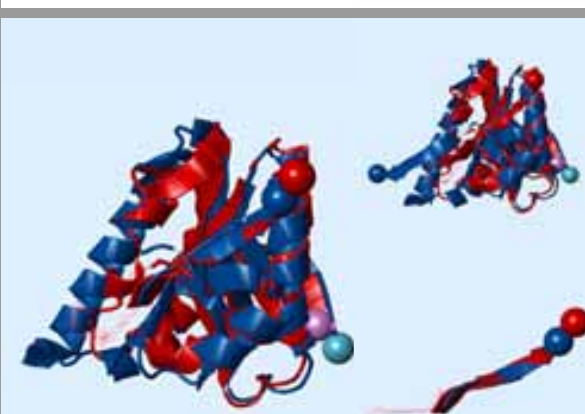
555	lyvsA (108)	45-52 (8)	45-52 (8)	46-52 (7)	N	0.41	2.43	86.60% (84/97)	22.68% (22/97)	 <p>Barnase Guanyl-specific ribonuclease Sa3</p>
	lmgrA (97)	26-36 (11)	26-36 (11)	46-52 (7)						
556	lyvsA (108)	45-52 (8)	45-52 (8)	46-52 (7)	N	0.40	2.43	84.85% (84/99)	22.22% (22/99)	 <p>Barnase Guanyl-specific ribonuclease Sa3</p>
	lmgwA (99)	26-36 (11)	26-36 (11)	46-52 (7)						
557	lyvsA (108)	26-52 (27)	45-52 (8)	45-52 (8)	N	0.42	2.19	85.42% (82/96)	20.83% (20/96)	 <p>Barnase Ribonuclease</p>
	lpylA (96)	9-35 (27)	26-35 (10)	45-52 (8)						

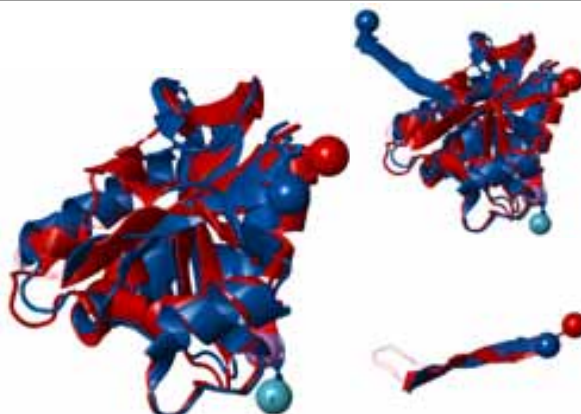
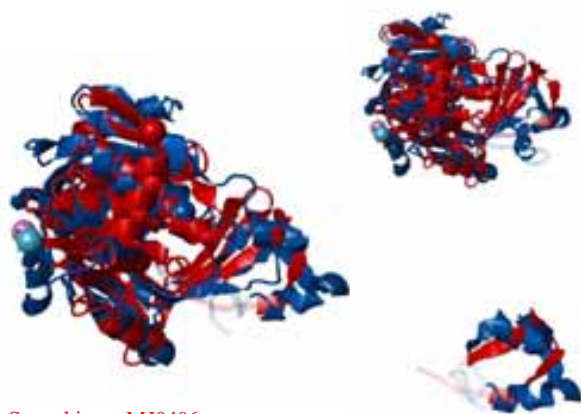
558	lyvsA (108)	45-52 (8)	45-52 (8)	46-52 (7)	N	0.40	2.53	87.50% (84/96)	22.92% (22/96)	 <p>Barnase Guanyl-specific ribonuclease Sa</p>
	lt2iA (96)	23-33 (11)	23-33 (11)	46-52 (7)						
559	lyvsA (108)	45-52 (8)	46-52 (7)	45-52 (8)	N	0.40	2.27	84.38% (81/96)	21.88% (21/96)	 <p>Barnase Guanyl-specific ribonuclease Sa</p>
	lucjA (96)	24-33 (10)	25-33 (9)	45-52 (8)						
560	lyvsA (108)	45-52 (8)	46-52 (7)	46-52 (7)	N	0.41	2.13	83.33% (80/96)	20.83% (20/96)	 <p>Barnase Guanyl-specific ribonuclease Sa</p>
	lucjA (96)	24-33 (10)	25-33 (9)	46-52 (7)						

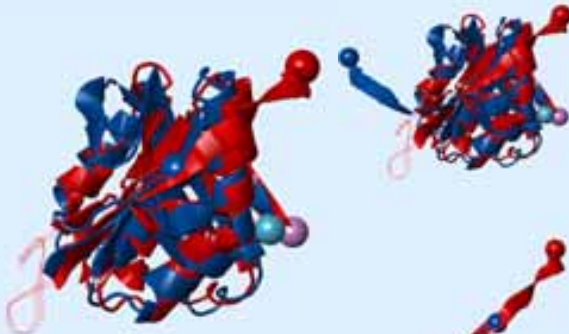
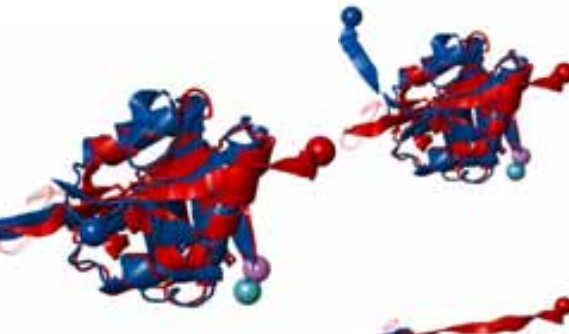
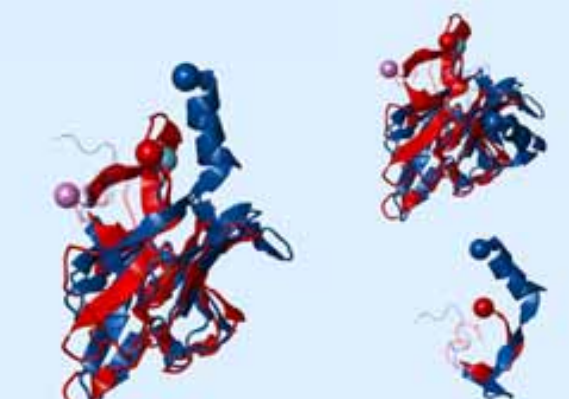
561	1yvsA (108)	45-52 (8)	45-52 (8)	46-52 (7)	N	0.41	2.36	86.46% (83/96)	21.88% (21/96)	 <p>Barnase Guanyl-specific ribonuclease Sa</p>
	1uckA (96)	23-33 (11)	23-33 (11)	46-52 (7)						
562	1yvsA (108)	5-54 (50)	46-52 (7)	30-52 (23)	N	0.39	2.37	84.38% (81/96)	21.88% (21/96)	 <p>Barnase Guanyl-specific ribonuclease Sa</p>
	1ynvX (96)	2-35 (34)	25-33 (9)	30-52 (23)						
563	1z3aA (156)	114-150 (37)	118-150 (33)	120-142 (23)	C	0.56	1.70	86.45% (134/155)	26.45% (41/155)	 <p>TRNA-specific adenosine deaminase Guanine deaminase</p>
	1wkqB (155)	99-141 (43)	103-141 (39)	120-142 (23)						

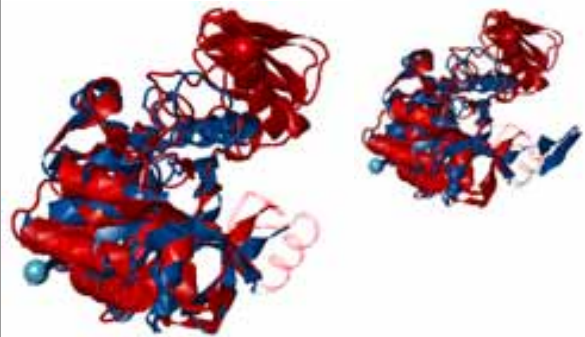

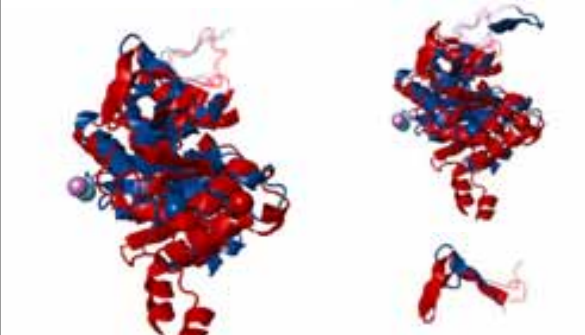
564	1z4rA (163)	617-658 (42)	626-647 (22)	626-646 (21)	C	0.44	2.19	84.87% (129/152)	14.47% (22/152)	 <p>General control of amino acid synthesis prote HPA2 histone acetyltransferase</p>
	1qsmD (152)	132-156 (25)	143-147 (5)	626-646 (21)						
565	1znpA (140)	4-56 (53)	26-40 (15)	26-40 (15)	N	0.34	2.22	82.86% (116/140)	10.71% (15/140)	 <p>Hypothetical protein Atu3615 DTPD-6-deoxy-D-XYLO-4-hexulose 3,5-epimerase</p>
	1ep0A (183)	3-64 (62)	31-48 (18)	26-40 (15)						
566	1znpA (140)	4-44 (41)	4-44 (41)	36-40 (5)	N	0.30	2.23	84.29% (118/140)	8.57% (12/140)	 <p>Hypothetical protein Atu3615 RFBC</p>
	1pm7A (199)	1-50 (50)	1-50 (50)	36-40 (5)						

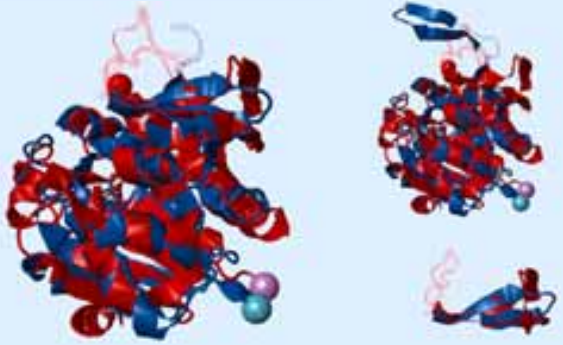
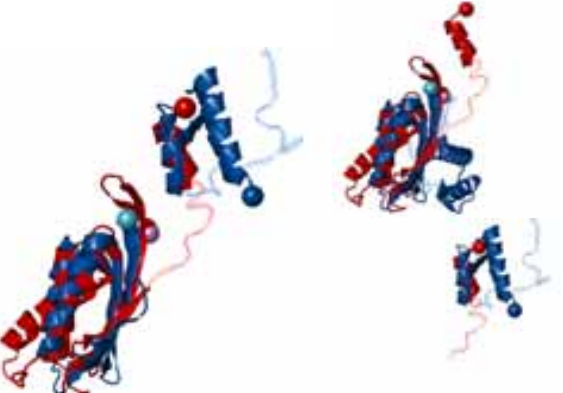
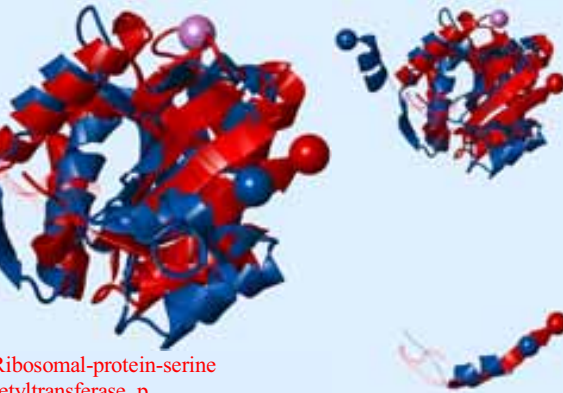
567	1znpA (140)	4-44 (41)	4-44 (41)	28-40 (13)	N	0.31	2.21	84.29% (118/140)	8.57% (12/140)	 <p>Hypothetical protein Atu3615 DTDP-4-dehydrorhamnose 3,5-epimerase RMLC</p>
	2ixcA (198)	1-50 (50)	1-50 (50)	28-40 (13)						
568	1znpA (140)	4-44 (41)	4-40 (37)	36-40 (5)	N	0.29	2.24	83.57% (117/140)	6.43% (9/140)	 <p>Hypothetical protein Atu3615 DTDP-4-dehydrorhamnose 3,5-epimerase</p>
	2ixhA (184)	1-53 (53)	1-49 (49)	36-40 (5)						
569	1znpA (140)	4-55 (52)	4-55 (52)	26-40 (15)	N	0.39	2.23	79.85% (107/134)	7.46% (10/134)	 <p>Hypothetical protein Atu3615 DTDP-6-deoxy-3,4-keto-hexulose isomerase</p>
	2pacB (134)	2-48 (47)	2-48 (47)	26-40 (15)						

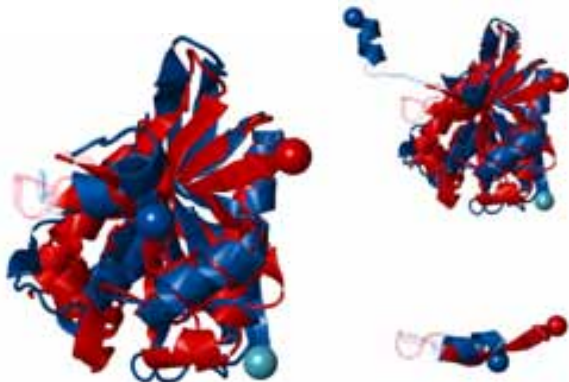
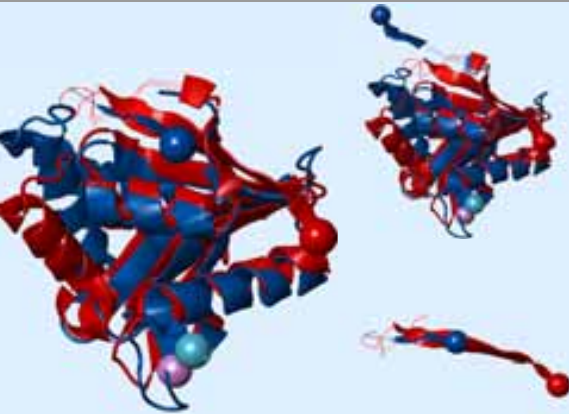
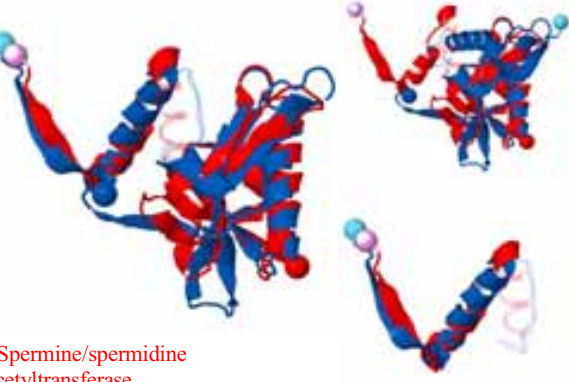
570	1zvnA (99)	1-70 (70)	1-6 (6)	4-5 (2)	N	0.28	3.18	79.80% (79/99)	7.07% (7/99)	 MN-cadherin Chagasin
	2h7wA (108)	4-82 (79)	4-12 (9)	4-5 (2)						
571	2b3jA (151)	93-135 (43)	103-135 (33)	105-135 (31)	C	0.56	1.84	90.07% (136/151)	29.80% (45/151)	 TRNA adenosine deaminase Guanine deaminase
	1wkqA (158)	93-141 (49)	103-141 (39)	105-135 (31)						
572	2bswA (145)	125-141 (17)	126-141 (16)	127-138 (12)	C	0.57	1.95	91.03% (132/145)	13.79% (20/145)	 Glyphosate N-acetyltransferase Putative acetyl transferase
	1vkcA (149)	141-146 (6)	142-146 (5)	127-138 (12)						

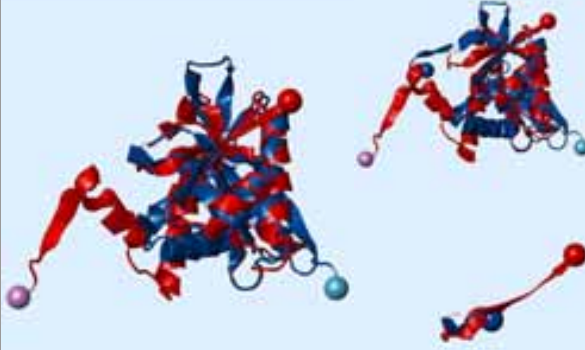
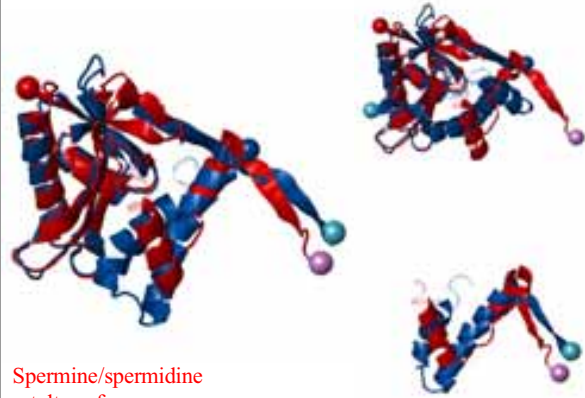
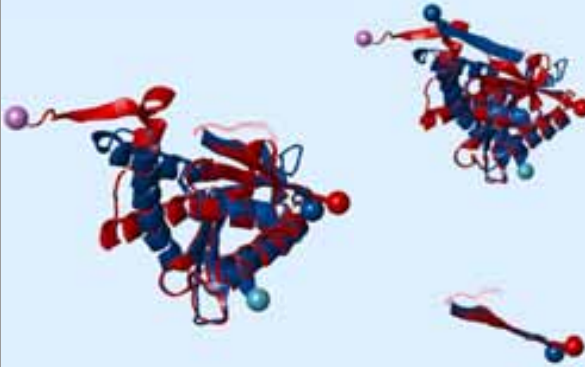
573	2bswA (145)	125-143 (19)	126-140 (15)	128-136 (9)	C	0.55	2.05	90.34% (131/145)	14.48% (21/145)	 <p>Glyphosate N-acetyltransferase Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	134-144 (11)	135-141 (7)	128-136 (9)						
574	2bswA (145)	125-142 (18)	126-142 (17)	128-136 (9)	C	0.55	2.15	91.67% (132/144)	15.28% (22/144)	 <p>Glyphosate N-acetyltransferase Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	134-144 (11)	135-144 (10)	128-136 (9)						
575	2c49A (299)	3-40 (38), 18-42 (25)	11-23 (13), 26-42 (17)	17-18 (2), 37-42 (6)	M	0.32	2.31	85.28% (255/299)	17.39% (52/299)	 <p>Sugar kinase MJ0406 Adenosine kinase</p>
	2i6bB (326)	3-57 (55), 21-63 (43)	12-29 (18), 35-63 (29)	17-18 (2), 37-42 (6)						

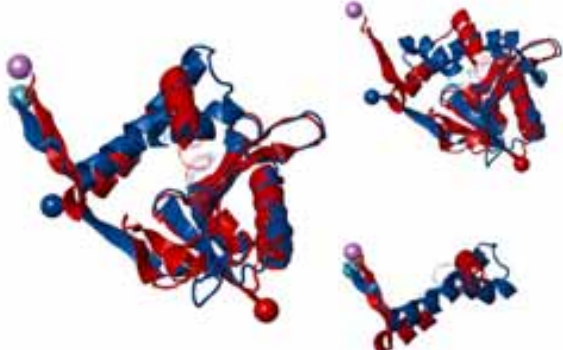
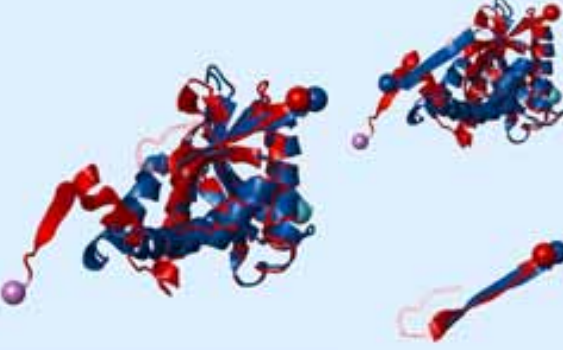
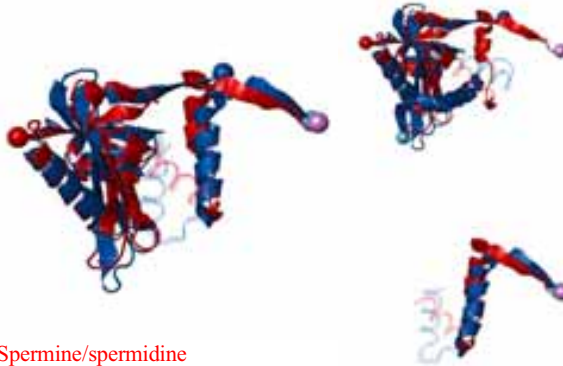
576	2cnmA (151)	123-143 (21)	126-143 (18)	126-137 (12)	C	0.45	1.88	90.34% (131/145)	14.48% (21/145)	 <p>Modification OF 30S ribosomal subunit protein Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	135-144 (10)	138-144 (7)	126-137 (12)						
577	2cnmA (151)	118-135 (18)	121-135 (15)	126-134 (9)	C	0.45	2.00	89.12% (131/147)	13.61% (20/147)	 <p>Modification OF 30S ribosomal subunit protein Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	130-140 (11)	134-140 (7)	126-134 (9)						
578	2cswA (145)	104-145 (42)	108-145 (38)	126-135 (10)	C	0.27	2.22	82.76% (120/145)	13.79% (20/145)	 <p>Ubiquitin ligase protein RNF8 Protein kinase SPK1</p>
	1j4kA (158)	676-730 (55)	680-730 (51)	126-135 (10)						

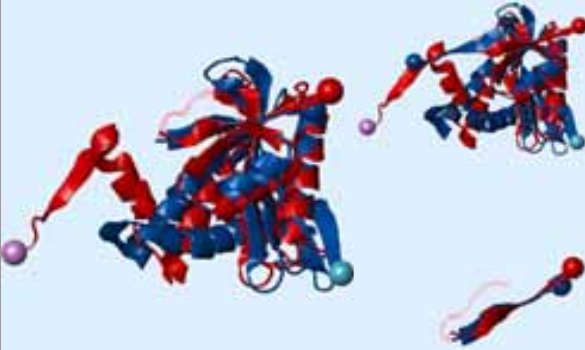
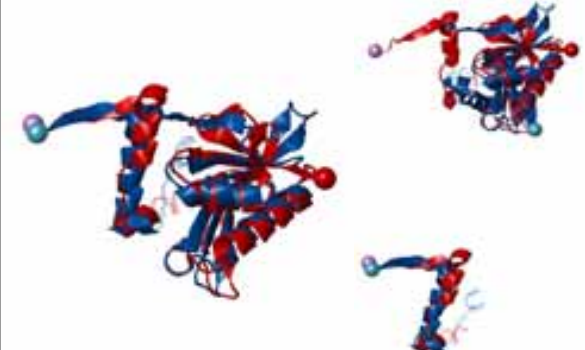
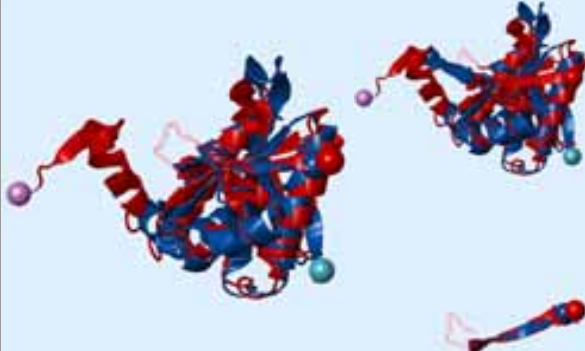
579	2cu2A (335)	142-168 (27), 149-184 (36)	143-149 (7), 152-182 (31)	143-149 (7), 167-181 (15)	M	0.35	2.39	92.76% (205/221)	18.55% (41/221)	 <p>Putative mannose-1-phosphate guanylyl transfe 2-C-methyl-D-erythritol 4-phosphate cytidyl</p>
	1vpaA (221)	133-149 (17), 135-153 (19)	134-135 (2), 138-151 (14)	143-149 (7), 167-181 (15)						
580	2cu2A (335)	142-168 (27), 149-183 (35)	142-149 (8), 152-181 (30)	143-149 (7), 168-181 (14)	M	0.34	2.44	92.73% (204/220)	16.82% (37/220)	 <p>Putative mannose-1-phosphate guanylyl transfe 2-C-methyl-D-erythritol 4-phosphate cytidyl</p>
	1vpaB (220)	133-148 (16), 135-152 (18)	133-135 (3), 138-150 (13)	143-149 (7), 168-181 (14)						
581	2e3dA (286)	159-198 (40), 178-224 (47)	170-178 (9), 181-212 (32)	173-178 (6), 197-211 (15)	M	0.43	2.47	96.00% (216/225)	15.11% (34/225)	 <p>UTP--glucose-1-phosphate uridylyltransferase 4-diphosphocytidyl- 2-C-methylerythritol synth</p>
	1iniA (225)	124-153 (30), 140-174 (35)	135-140 (6), 143-161 (19)	173-178 (6), 197-211 (15)						

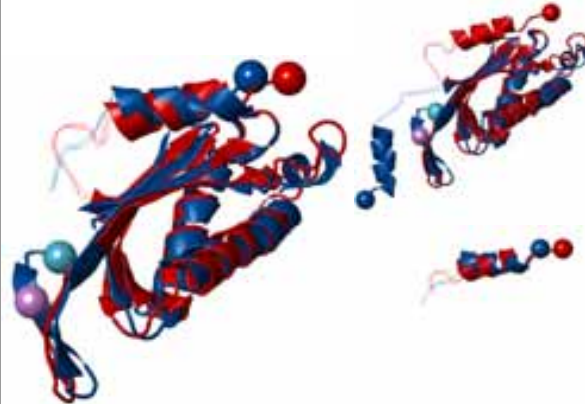
582	2e3dA (286)	159-200 (42), 177-224 (48)	172-200 (29), 177-212 (36)	172-177 (6), 199-211 (13)	M	0.44	2.35	95.93% (212/221)	14.48% (32/221)	 <p>UTP--glucose-1-phosphate uridylyltransferase 2-C-methyl-D-erythritol 4-phosphate cytidyl</p>
	1vpaA (221)	120-148 (29), 133-166 (34)	132-148 (17), 133-153 (21)	172-177 (6), 199-211 (13)						
583	2f5gA (130)	81-121 (41)	81-119 (39)	109-119 (11)	C	0.27	2.62	72.31% (94/130)	5.38% (7/130)	 <p>Transposase, putative Hypothetical protein T110078</p>
	1x0pE (141)	4067-4104 (38)	4067-4102 (36)	109-119 (11)						
584	2fckA (174)	154-174 (21)	154-174 (21)	159-170 (12)	C	0.34	3.06	84.62% (143/169)	11.24% (19/169)	 <p>Ribosomal-protein-serine acetyltransferase, p Diamine acetyltransferase 1</p>
	2g3tA (169)	147-169 (23)	147-169 (23)	159-170 (12)						

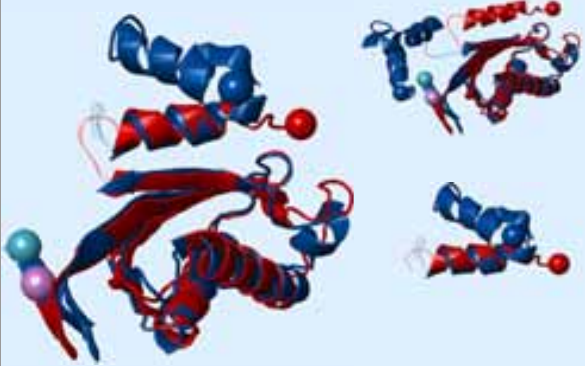
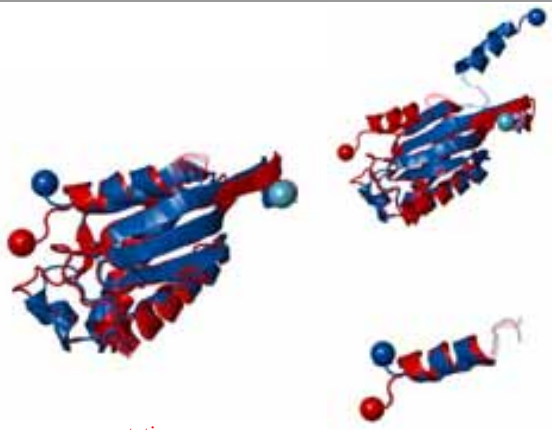
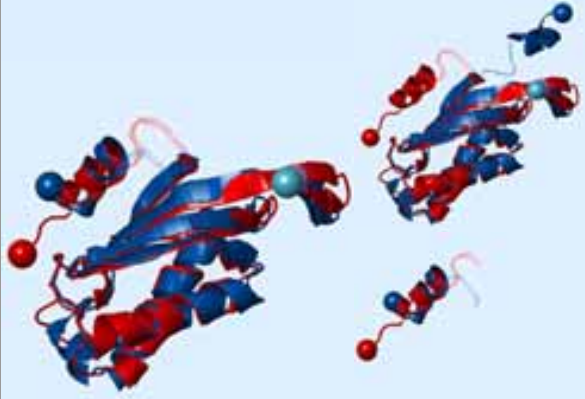
585	2fckA (174)	151-173 (23)	151-173 (23)	160-169 (10)	C	0.29	3.04	83.43% (141/169)	9.47% (16/169)	 <p>Ribosomal-protein-serine acetyltransferase, p Diamine acetyltransferase 1</p>
	2jevA (169)	143-169 (27)	143-169 (27)	160-169 (10)						
586	2fiaA (157)	136-149 (14)	137-149 (13)	137-147 (11)	C	0.43	2.43	85.06% (131/154)	14.94% (23/154)	 <p>Acetyltransferase YYCN protein</p>
	1ufhB (154)	149-154 (6)	150-154 (5)	137-147 (11)						
587	2fl4A (147)	27-37 (11)	27-37 (11)	27-37 (11)	N	0.45	2.33	86.39% (127/147)	12.24% (18/147)	 <p>Spermine/spermidine acetyltransferase HPA2 histone acetyltransferase</p>
	1qsmD (152)	33-43 (11)	33-43 (11)	27-37 (11)						

588	2fl4A (147)	119-137 (19)	126-137 (12)	133-134 (2)	C	0.34	2.29	74.15% (109/147)	9.52% (14/147)	 <p>Spermine/spermidine acetyltransferase HPA2 histone acetyltransferase</p>
	1qsmD (152)	136-152 (17)	143-152 (10)	133-134 (2)						
589	2fl4A (147)	35-48 (14)	38-47 (10)	35-44 (10)	N	0.42	2.47	85.71% (126/147)	14.97% (22/147)	 <p>Spermine/spermidine acetyltransferase YYCN protein</p>
	1ufhA (155)	48-63 (16)	50-62 (13)	35-44 (10)						
590	2fl4A (147)	130-139 (10)	130-139 (10)	130-137 (8)	C	0.36	1.80	71.43% (105/147)	14.97% (22/147)	 <p>Spermine/spermidine acetyltransferase YYCN protein</p>
	1ufhA (155)	148-150 (3)	148-150 (3)	130-137 (8)						

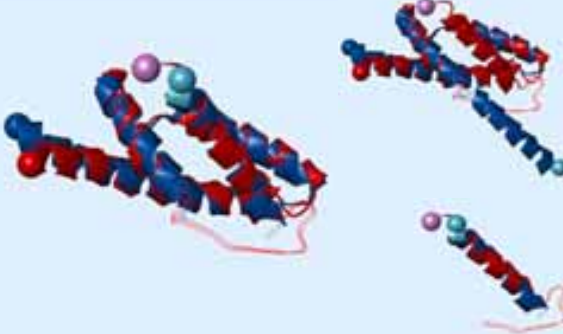
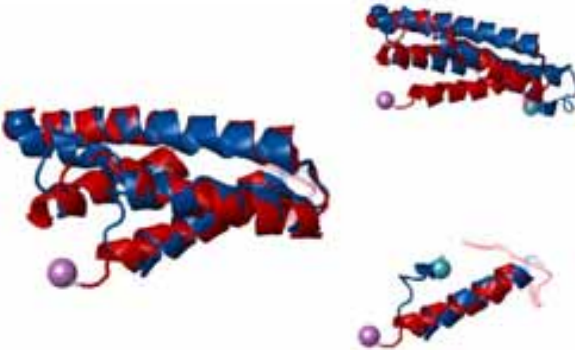

591	2fl4A (147)	35-48 (14)	38-48 (11)	35-42 (8)	N	0.41	2.56	86.39% (127/147)	14.29% (21/147)	 <p>Spermine/spermidine acetyltransferase YYCN protein</p>
	1ufhB (154)	48-63 (16)	50-63 (14)	35-42 (8)						
592	2fl4A (147)	129-145 (17)	129-140 (12)	129-138 (10)	C	0.34	2.14	73.47% (108/147)	13.61% (20/147)	 <p>Spermine/spermidine acetyltransferase YYCN protein</p>
	1ufhB (154)	147-154 (8)	147-149 (3)	129-138 (10)						
593	2fl4A (147)	18-37 (20)	18-37 (20)	26-37 (12)	N	0.39	2.56	82.31% (121/147)	11.56% (17/147)	 <p>Spermine/spermidine acetyltransferase Putative acetyl transferase</p>
	1vkcA (149)	17-45 (29)	17-45 (29)	26-37 (12)						

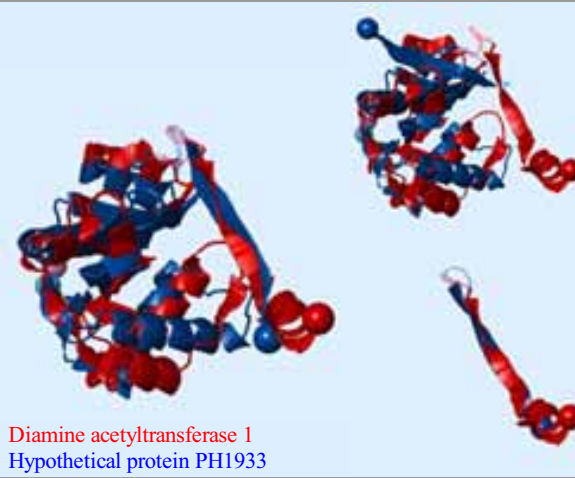
594	2fl4A (147)	129-141 (13)	129-140 (12)	129-136 (8)	C	0.34	2.38	74.83% (110/147)	12.93% (19/147)	 <p>Spermine/spermidine acetyltransferase Putative acetyl transferase</p>
	1vkcA (149)	141-146 (6)	141-145 (5)	129-136 (8)						
595	2fl4A (147)	29-36 (8)	29-36 (8)	29-36 (8)	N	0.43	2.49	86.39% (127/147)	14.29% (21/147)	 <p>Spermine/spermidine acetyltransferase Transcriptional regulator</p>
	1z4eA (150)	30-46 (17)	30-46 (17)	29-36 (8)						
596	2fl4A (147)	128-144 (17)	129-140 (12)	131-138 (8)	C	0.37	2.37	78.23% (115/147)	12.93% (19/147)	 <p>Spermine/spermidine acetyltransferase Transcriptional regulator</p>
	1z4eA (150)	143-152 (10)	144-148 (5)	131-138 (8)						

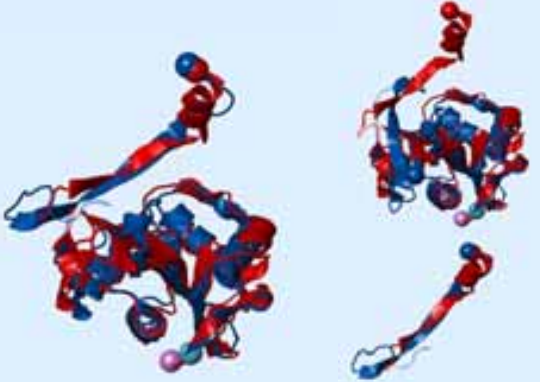
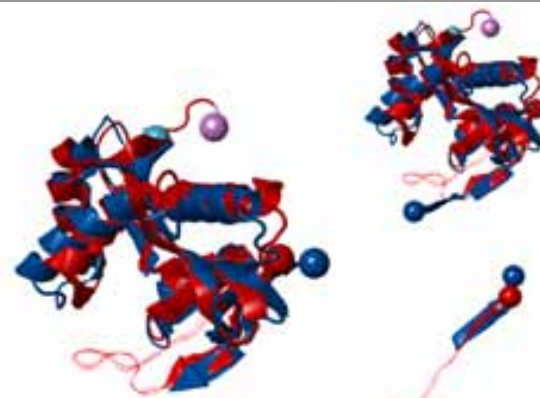
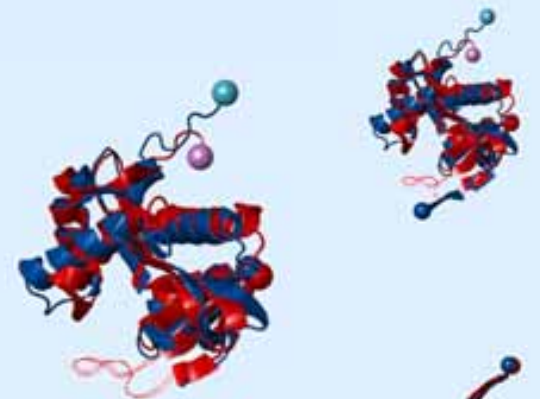
597	2fyxA (130)	112-117 (6)	112-117 (6)	112-117 (6)	C	0.76	1.51	97.69% (127/130)	33.08% (43/130)	 <p>Transposase, putative ISHp608 transposase</p>
	2a6mA (130)	116-121 (6)	116-121 (6)	112-117 (6)						
598	2fyxA (130)	111-116 (6)	111-116 (6)	111-116 (6)	C	0.73	1.68	97.69% (127/130)	40.00% (52/130)	 <p>Transposase, putative 136aa long hypothetical transposase</p>
	2ec2A (130)	112-117 (6)	112-117 (6)	111-116 (6)						
599	2fyxA (130)	111-119 (9)	112-119 (8)	112-118 (7)	C	0.78	1.42	99.21% (125/126)	34.13% (43/126)	 <p>Transposase, putative Transposase ORFA</p>
	2vhgA (126)	115-123 (9)	116-123 (8)	112-118 (7)						

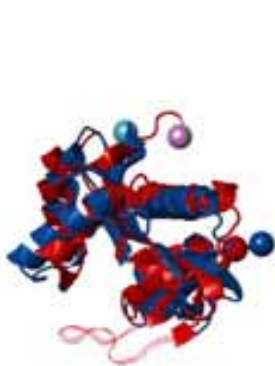



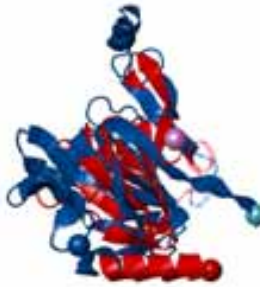
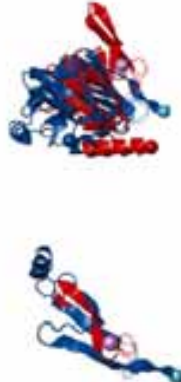
600	2fyxA (130)	112-115 (4)	112-115 (4)	112-115 (4)	C	0.64	1.54	96.92% (126/130)	30.00% (39/130)	 <p>Transposase, putative Transposase ORFA</p>
	2vihA (151)	116-120 (5)	116-120 (5)	112-115 (4)						
601	2fyxA (130)	112-116 (5)	112-116 (5)	112-116 (5)	C	0.74	1.51	96.90% (125/129)	33.33% (43/129)	 <p>Transposase, putative Transposase ORFA</p>
	2vihB (129)	116-120 (5)	116-120 (5)	112-116 (5)						
602	2fyxA (130)	112-116 (5)	112-116 (5)	112-116 (5)	C	0.72	1.58	97.60% (122/125)	33.60% (42/125)	 <p>Transposase, putative Transposase ORFA</p>
	2vjvA (125)	116-120 (5)	116-120 (5)	112-116 (5)						

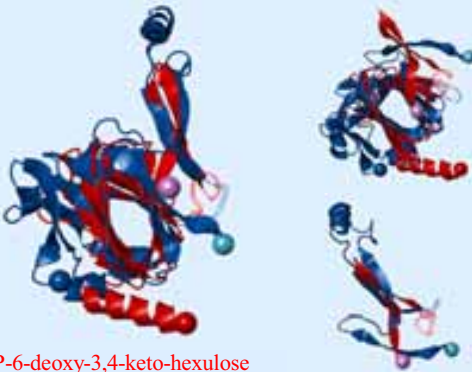
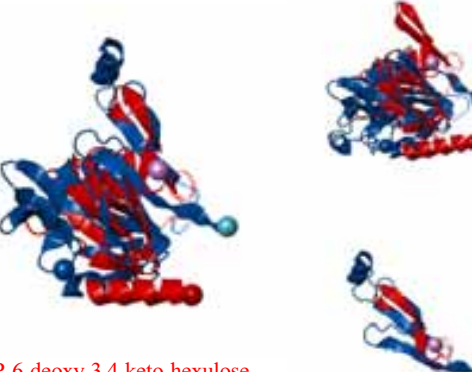
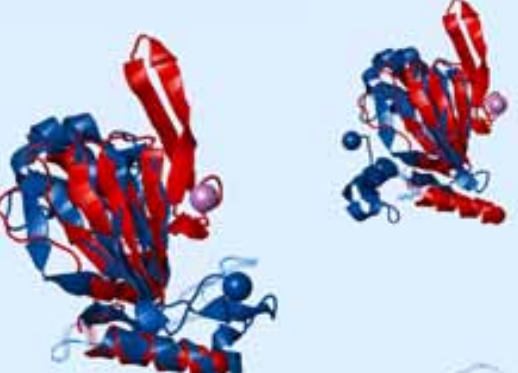
603	2g84A (189)	142-158 (17)	142-150 (9)	142-150 (9)	C	0.57	1.44	91.77% (145/158)	27.22% (43/158)	  <p>Cytidine and deoxycytidylate deaminase zinc-b Guanine deaminase</p>
	1wkqA (158)	113-129 (17)	113-124 (12)	142-150 (9)						
604	2gbzA (179)	135-162 (28)	139-162 (24)	139-162 (24)	C	0.40	2.07	78.36% (134/171)	12.87% (22/171)	  <p>Oligoribonuclease DNA polymerase III polC-type</p>
	2p1jB (171)	468-503 (36)	472-503 (32)	139-162 (24)						
605	2gtvX (104)	19-33 (15)	20-31 (12)	21-32 (12)	N	0.75	1.20	100.00% (91/91)	31.87% (29/91)	  <p>Chorismate mutase ENDO-oxabicyclic transition state analogue</p>
	1ecmA (91)	21-27 (7)	22-25 (4)	21-32 (12)						

606	2gtvX (104)	19-32 (14)	20-32 (13)	21-32 (12)	N	0.71	1.47	97.89% (93/95)	27.37% (26/95)	 <p>Chorismate mutase ENDO-oxabicyclic transition state analogue</p>
	1ecmB (95)	22-26 (5)	23-26 (4)	21-32 (12)						
607	2gtvX (104)	19-33 (15)	20-33 (14)	21-32 (12)	N	0.58	1.69	89.00% (89/100)	16.00% (16/100)	 <p>Chorismate mutase Salicylate biosynthesis protein pchB</p>
	2h9dD (100)	23-30 (8)	24-30 (7)	21-32 (12)						
608	2i79A (171)	147-166 (20)	147-166 (20)	147-159 (13)	C	0.46	2.32	86.75% (144/166)	19.28% (32/166)	 <p>Acetyltransferase, GNAT family Probable N-acetyltransferase</p>
	2fe7B (166)	140-157 (18)	140-157 (18)	147-159 (13)						

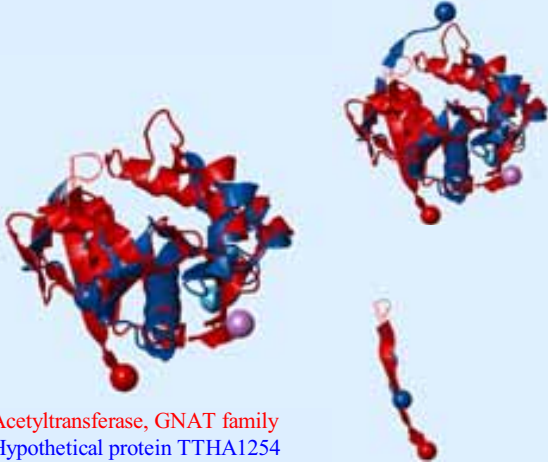
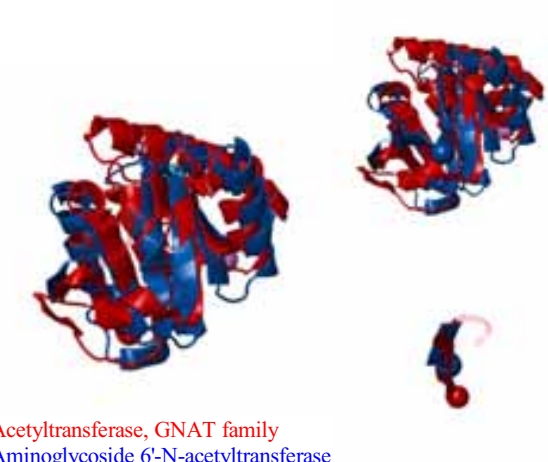
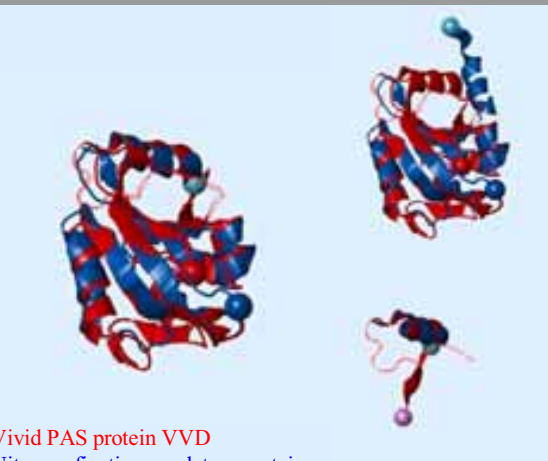
609	2i9sA (97)	78-96 (19)	78-96 (19)	91-91 (1)	C	0.41	2.43	82.47% (80/97)	6.19% (6/97)	 <p>Mesoderm development candidate 2 Acylphosphatase</p>
	2acyA (98)	65-96 (32)	65-96 (32)	91-91 (1)						
610	2jevA (169)	146-161 (16)	147-158 (12)	148-152 (5)	C	0.45	2.31	87.90% (138/157)	15.92% (25/157)	 <p>Diamine acetyltransferase 1 Hypothetical protein PH1933</p>
	1wwzB (157)	142-158 (17)	143-155 (13)	148-152 (5)						
611	2jevA (169)	147-169 (23)	147-154 (8)	148-155 (8)	C	0.48	2.29	87.57% (148/169)	18.34% (31/169)	 <p>Diamine acetyltransferase 1 Acetyltransferase PA4866 FROM P. aeruginosa</p>
	2j8mB (170)	141-171 (31)	141-157 (17)	148-155 (8)						

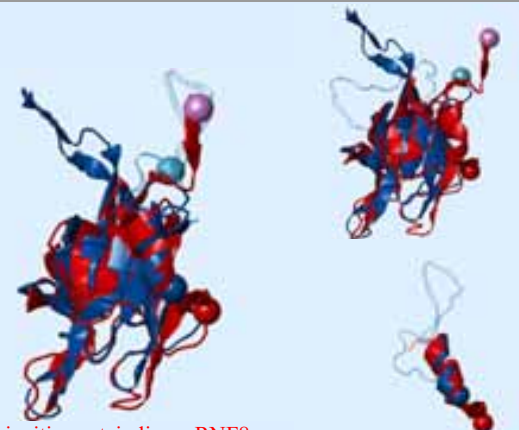
612	2jevA (169)	147-169 (23)	147-156 (10)	148-151 (4)	C	0.48	2.25	86.98% (147/169)	18.34% (31/169)	 <p>Diamine acetyltransferase 1 Acetyltransferase PA4866 FROM P. aeruginosa</p>
	2j8nA (169)	141-171 (31)	141-159 (19)	148-151 (4)						
613	2ob0A (154)	131-153 (23)	132-150 (19)	136-149 (14)	C	0.56	1.87	91.03% (132/145)	11.03% (16/145)	 <p>Human MAK3 homolog Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	134-143 (10)	135-140 (6)	136-149 (14)						
614	2ob0A (154)	132-152 (21)	135-152 (18)	135-147 (13)	C	0.54	2.00	88.89% (136/153)	10.46% (16/153)	 <p>Human MAK3 homolog Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	135-143 (9)	138-143 (6)	135-147 (13)						

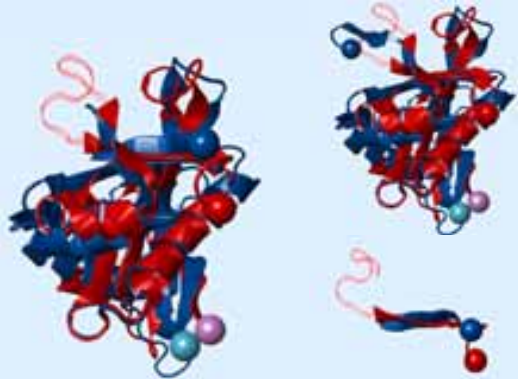
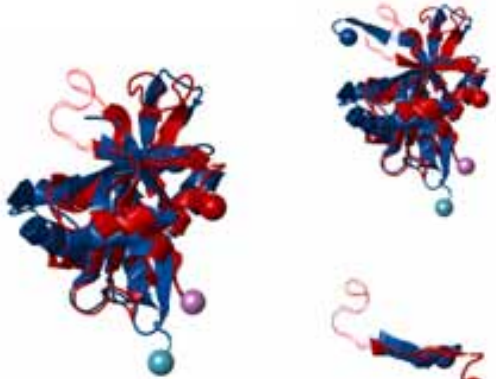
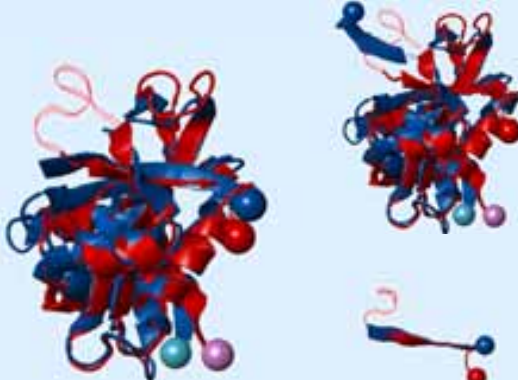
615	2ob0A (154)	131-153 (23)	134-148 (15)	134-147 (14)	C	0.54	2.06	91.16% (134/147)	11.56% (17/147)	 
	2vbqA (147)	134-143 (10)	137-138 (2)	134-147 (14)						
616	2pa4A (294)	155-179 (25), 182-224 (43)	171-179 (9), 185-217 (33)	171-178 (8), 204-211 (8)	M	0.45	2.27	96.00% (216/225)	15.11% (34/225)	 
	1i52A (225)	121-139 (19), 142-174 (33)	137-139 (3), 145-166 (22)	171-178 (8), 204-211 (8)						
617	2pa7A (135)	19-35 (37)	19-48 (30)	23-32 (10)	N	0.31	2.42	83.70% (113/135)	15.56% (21/135)	 
	1j3qA (187)	56-97 (42)	56-88 (33)	23-32 (10)						

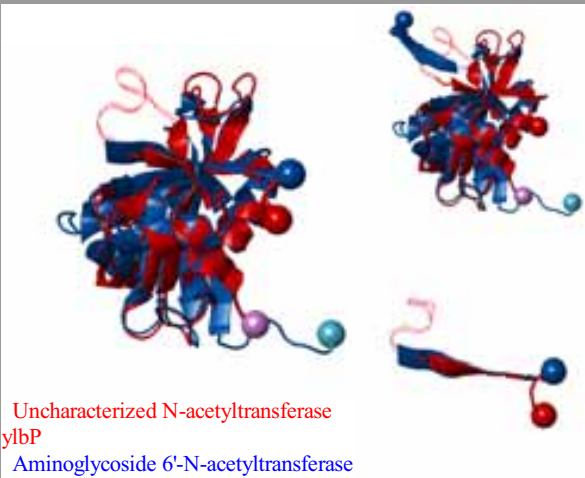
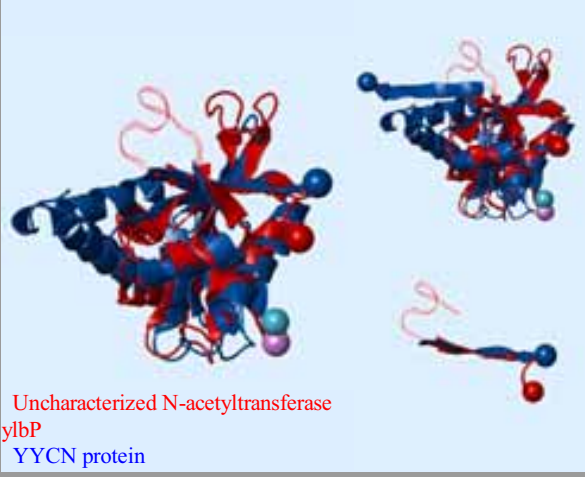
618	2pa7A (135)	2-55 (54)	19-55 (37)	23-32 (10)	N	0.32	2.37	83.70% (113/135)	15.56% (21/135)	 DTDP-6-deoxy-3,4-keto-hexulose isomerase Phosphoglucose isomerase
	lj3rB (185)	3-97 (95)	56-97 (42)	23-32 (10)						
619	2pa7A (135)	2-55 (54)	21-55 (35)	23-32 (10)	N	0.31	2.43	83.70% (113/135)	14.07% (19/135)	 DTDP-6-deoxy-3,4-keto-hexulose isomerase Glucose-6-phosphate isomerase
	lqxrA (187)	1-96 (96)	57-96 (40)	23-32 (10)						
620	2pa7A (135)	109-129 (21)	112-125 (14)	122-123 (2)	C	0.27	1.88	70.37% (95/135)	10.37% (14/135)	 DTDP-6-deoxy-3,4-keto-hexulose isomerase 3-hydroxyanthranilate 3,4-dioxygenase
	lzvfA (176)	110-150 (41)	112-146 (35)	122-123 (2)						





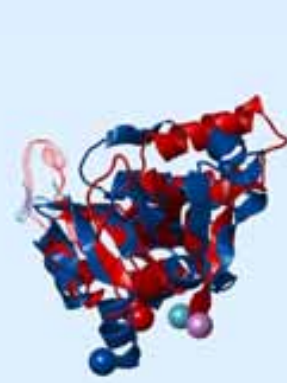

621	2pa7A (135)	16-65 (50)	21-33 (13)	21-32 (12)	N	0.25	2.52	85.93% (116/135)	13.33% (18/135)	 <p>DTDP-6-deoxy-3,4-keto-hexulose isomerase Cysteine dioxygenase type I</p>
	2b5hA (186)	57-102 (46)	62-71 (10)	21-32 (12)						
622	2pa7A (135)	19-55 (37)	23-55 (33)	19-32 (14)	N	0.30	2.49	83.70% (113/135)	13.33% (18/135)	 <p>DTDP-6-deoxy-3,4-keto-hexulose isomerase Glucose-6-phosphate isomerase</p>
	2gc1A (188)	55-96 (42)	59-96 (38)	19-32 (14)						
623	2pc1A (173)	149-159 (11)	149-158 (10)	151-157 (7)	C	0.48	2.23	94.48% (137/145)	15.86% (23/145)	 <p>Acetyltransferase, GNAT family Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	135-139 (5)	135-138 (4)	151-157 (7)						


624	2pc1A (173)	148-162 (15)	153-162 (10)	153-157 (5)	C	0.42	2.11	91.54% (119/130)	8.46% (11/130)	 <p>Acetyltransferase, GNAT family Hypothetical protein TTHA1254</p>
	2d4pA (130)	117-129 (13)	124-129 (6)	153-157 (5)						
625	2pc1A (173)	150-162 (13)	153-162 (10)	152-158 (7)	C	0.45	2.39	93.20% (137/147)	14.97% (22/147)	 <p>Acetyltransferase, GNAT family Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	136-144 (9)	140-144 (5)	152-158 (7)						
626	2pd7A (149)	58-74 (17)	58-73 (16)	58-71 (14)	N	0.48	1.52	95.80% (114/119)	23.53% (28/119)	 <p>Vivid PAS protein VVD Nitrogen fixation regulatory protein</p>
	2gj3B (119)	35-39 (5)	35-38 (4)	58-71 (14)						

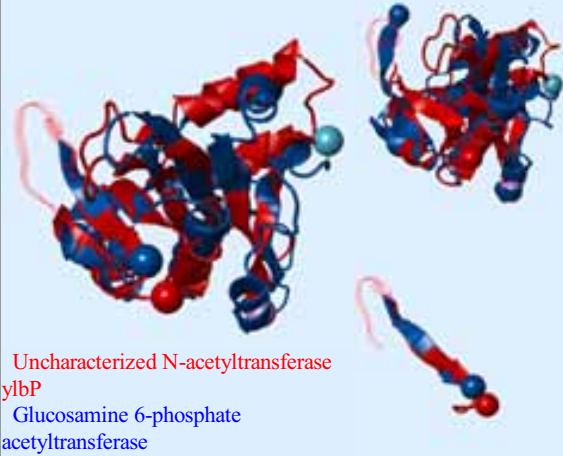
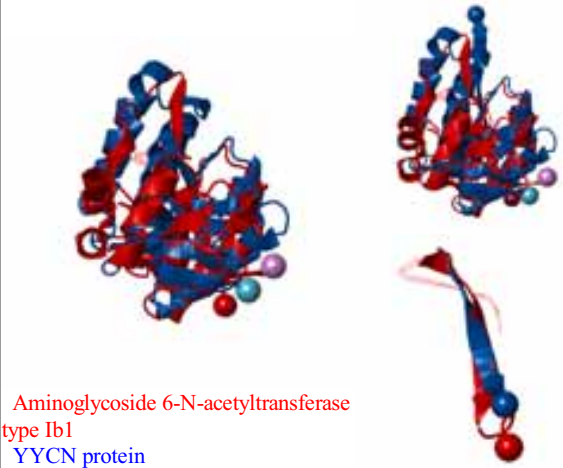
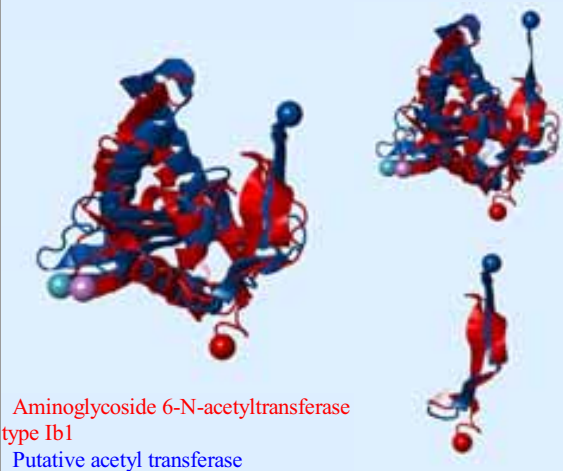
627	2pd7A (149)	54-74 (21)	54-72 (19)	54-72 (19)	N	0.40	1.57	95.04% (115/121)	30.58% (37/121)	 <p>Vivid PAS protein VVD Phototropin-1</p>
	2z6cA (121)	192-200 (9)	192-198 (7)	54-72 (19)						
628	2pieA (132)	125-128 (4)	125-128 (4)	126-128 (3)	C	0.37	2.01	84.85% (112/132)	15.15% (20/132)	 <p>E3 ubiquitin-protein ligase RNF8 Protein kinase SPK1</p>
	1j4kA (158)	695-722 (28)	695-722 (28)	126-128 (3)						
629	2pr1A (152)	105-152 (48)	122-146 (25)	133-144 (12)	C	0.40	2.24	79.33% (119/150)	9.33% (14/150)	 <p>Uncharacterized N-acetyltransferase ylbP HPA2 histone acetyltransferase</p>
	1qsmA (150)	113-156 (44)	138-151 (14)	133-144 (12)						



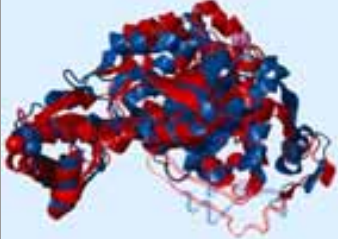
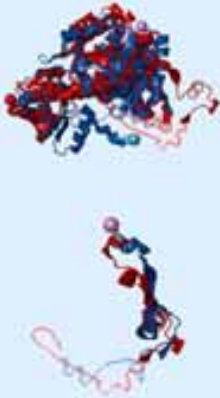
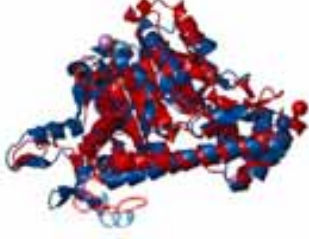

630	2pr1A (152)	118-149 (32)	124-143 (20)	132-142 (11)	C	0.40	2.41	81.88% (122/149)	10.07% (15/149)	 <p>Uncharacterized N-acetyltransferase ylbP HPA2 histone acetyltransferase</p>
	1qsmB (149)	132-155 (24)	140-149 (10)	132-142 (11)						
631	2pr1A (152)	105-143 (39)	126-143 (18)	133-142 (10)	C	0.40	2.18	78.29% (119/152)	9.21% (14/152)	 <p>Uncharacterized N-acetyltransferase ylbP HPA2 histone acetyltransferase</p>
	1qsmD (152)	113-150 (38)	142-150 (9)	133-142 (10)						
632	2pr1A (152)	131-143 (13)	131-143 (13)	132-140 (9)	C	0.45	2.28	86.21% (125/145)	8.97% (13/145)	 <p>Uncharacterized N-acetyltransferase ylbP Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	135-139 (5)	135-139 (5)	132-140 (9)						

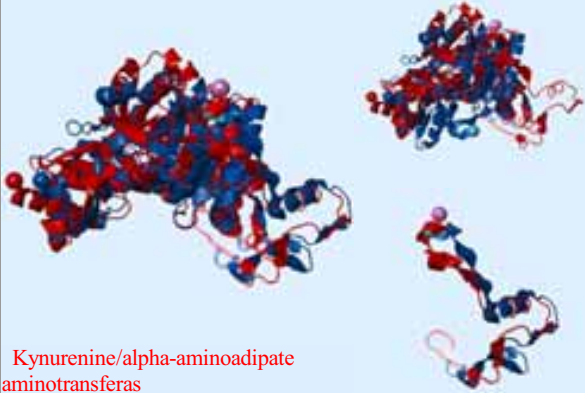
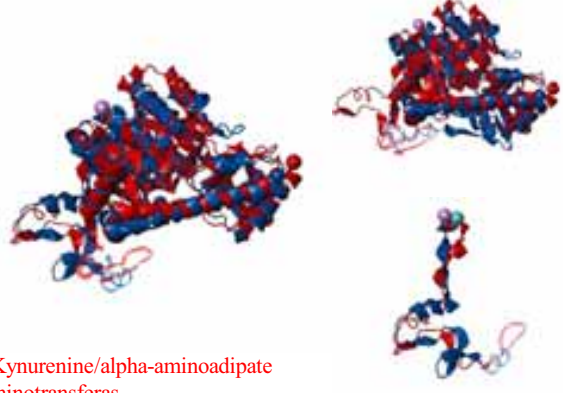
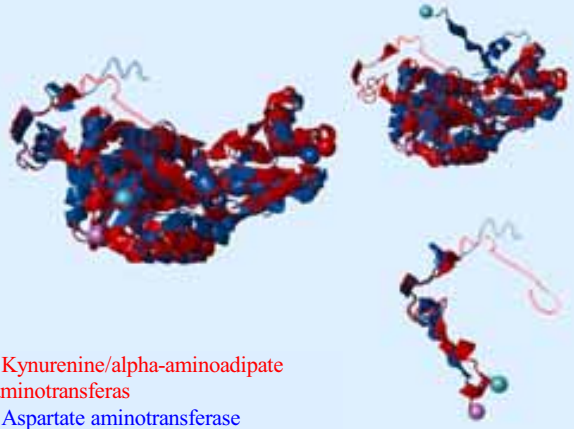
633	2pr1A (152)	131-143 (13)	131-143 (13)	132-140 (9)	C	0.43	2.28	82.24% (125/152)	8.55% (13/152)	 <p>Uncharacterized N-acetyltransferase ylbP Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	135-139 (5)	135-139 (5)	132-140 (9)						
634	2pr1A (152)	131-143 (13)	131-143 (13)	131-141 (11)	C	0.33	2.42	74.34% (113/152)	5.26% (8/152)	 <p>Uncharacterized N-acetyltransferase ylbP YYCN protein</p>
	1ufhA (155)	148-150 (3)	148-150 (3)	131-141 (11)						
635	2pr1A (152)	130-143 (14)	130-143 (14)	131-140 (10)	C	0.44	1.87	78.67% (118/150)	11.33% (17/150)	 <p>Uncharacterized N-acetyltransferase ylbP Transcriptional regulator</p>
	1z4eA (150)	144-148 (5)	144-148 (5)	131-140 (10)						

636	2pr1A (152)	125-151 (27)	130-143 (14)	132-142 (11)	C	0.39	2.47	84.87% (129/152)	10.53% (16/152)	  Uncharacterized N-acetyltransferase ylbP Diamine acetyltransferase 1
	2f5iA (167)	142-164 (23)	147-156 (10)	132-142 (11)						
637	2pr1A (152)	125-151 (27)	125-142 (18)	132-142 (11)	C	0.37	2.63	85.53% (130/152)	10.53% (16/152)	  Uncharacterized N-acetyltransferase ylbP Diamine acetyltransferase 1
	2g3tA (169)	142-168 (27)	142-155 (14)	132-142 (11)						
638	2pr1A (152)	125-151 (27)	130-142 (13)	131-142 (12)	C	0.38	2.56	85.53% (130/152)	9.87% (15/152)	  Uncharacterized N-acetyltransferase ylbP Diamine acetyltransferase 1
	2jevA (169)	142-164 (23)	147-155 (9)	131-142 (12)						

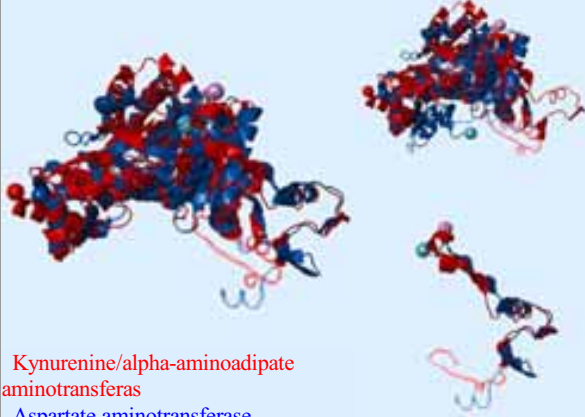
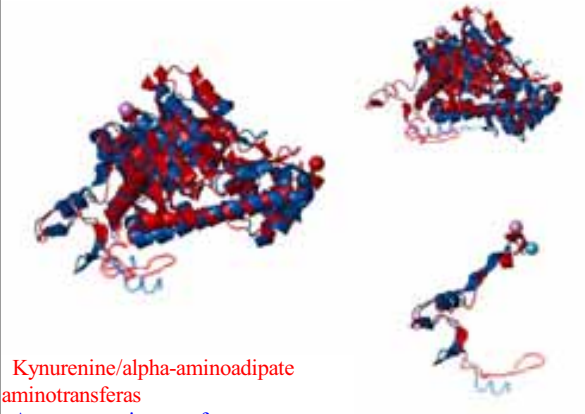
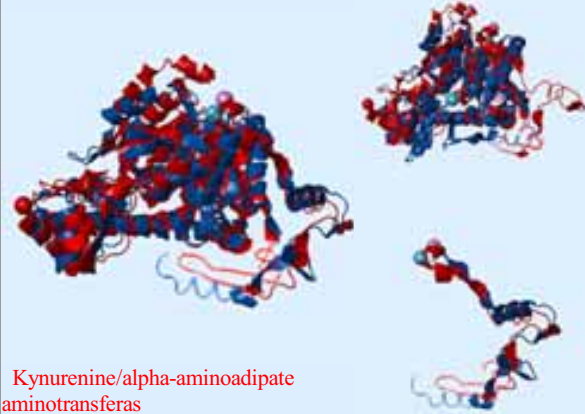
639	2pr1A (152)	132-149 (18)	132-143 (12)	133-141 (9)	C	0.35	2.32	81.58% (124/152)	8.55% (13/152)	  <p>Uncharacterized N-acetyltransferase ylbP Glucosamine 6-phosphate N-acetyltransferase</p>
	2o28A (182)	174-183 (10)	174-177 (4)	133-141 (9)						
640	2pr1A (152)	132-148 (17)	132-143 (12)	133-142 (10)	C	0.34	2.36	80.26% (122/152)	8.55% (13/152)	  <p>Uncharacterized N-acetyltransferase ylbP Glucosamine 6-phosphate N-acetyltransferase</p>
	2o28B (180)	174-181 (8)	174-176 (3)	133-142 (10)						
641	2pr1A (152)	131-143 (13)	131-143 (13)	132-140 (9)	C	0.45	2.27	86.11% (124/144)	9.03% (13/144)	  <p>Uncharacterized N-acetyltransferase ylbP Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	135-139 (5)	135-139 (5)	132-140 (9)						

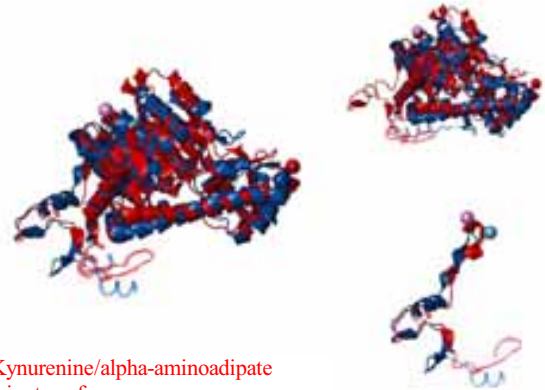
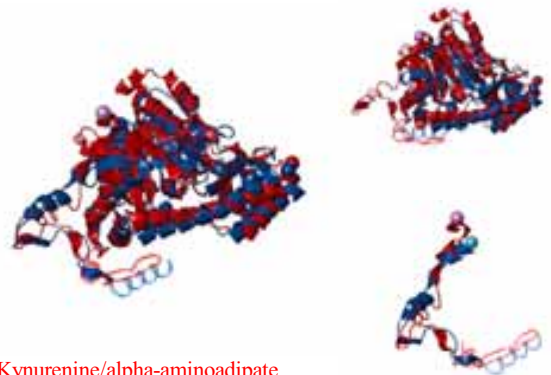
642	2pr1A (152)	131-143 (13)	131-143 (13)	131-140 (10)	C	0.36	2.34	79.61% (121/152)	10.53% (16/152)	 <p>Uncharacterized N-acetyltransferase ylbP Glucosamine 6-phosphate acetyltransferase</p>
	2vxkA (165)	182-185 (4)	182-185 (4)	131-140 (10)						
643	2pr8A (173)	161-180 (20)	161-180 (20)	161-169 (9)	C	0.35	2.56	82.58% (128/155)	12.26% (19/155)	 <p>Aminoglycoside 6-N-acetyltransferase type Ib1 YYCN protein</p>
	1ufhA (155)	147-155 (9)	147-155 (9)	161-169 (9)						
644	2pr8A (173)	154-155 (2)	154-155 (2)	154-155 (2)	C	0.36	3.09	92.62% (138/149)	12.75% (19/149)	 <p>Aminoglycoside 6-N-acetyltransferase type Ib1 Putative acetyl transferase</p>
	1vkcA (149)	134-135 (2)	134-135 (2)	154-155 (2)						

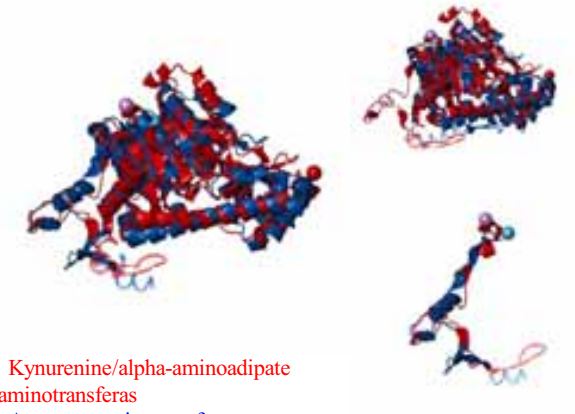
645	2pr8A (173)	162-182 (21)	162-182 (21)	164-172 (9)	C	0.41	2.78	94.56% (139/147)	14.29% (21/147)	  <p>Aminoglycoside 6-N-acetyltransferase type Ib1 Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	135-144 (10)	135-144 (10)	164-172 (9)						
646	2qlrA (425)	35-76 (42)	35-76 (42)	41-72 (32)	N	0.42	2.63	89.39% (354/396)	13.38% (53/396)	  <p>Kynurenine/alpha-aminoadipate aminotransferase Aspartate aminotransferase</p>
	1ahxA (396)	34-72 (39)	34-72 (39)	41-72 (32)						
647	2qlrA (425)	35-75 (41)	37-75 (39)	49-72 (24)	N	0.36	2.71	89.90% (356/396)	13.89% (55/396)	  <p>Kynurenine/alpha-aminoadipate aminotransferase Aspartate aminotransferase</p>
	1aiaA (396)	34-71 (38)	36-71 (36)	49-72 (24)						

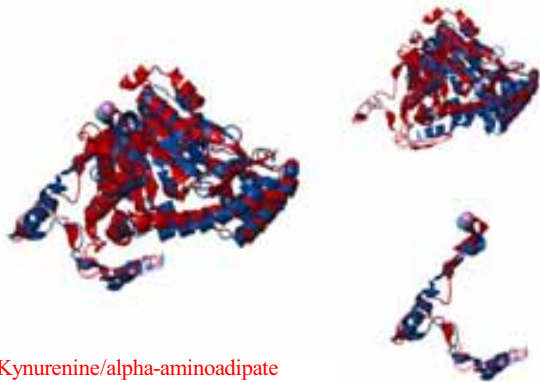
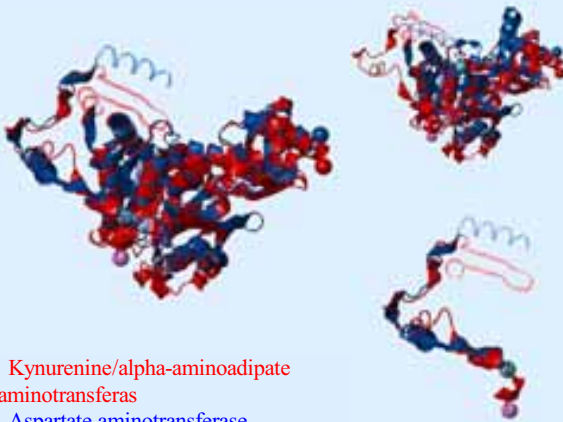
648	2qlrA (425)	3-76 (74)	16-76 (61)	51-72 (22)	N	0.33	2.72	89.65% (355/396)	12.63% (50/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1arhA (396)	6-72 (67)	13-72 (60)	51-72 (22)						
649	2qlrA (425)	3-76 (74)	3-76 (74)	49-72 (24)	N	0.34	2.61	89.14% (353/396)	12.88% (51/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1ariA (396)	6-72 (67)	6-72 (67)	49-72 (24)						
650	2qlrA (425)	35-75 (41)	38-75 (38)	43-72 (30)	N	0.42	2.67	89.39% (354/396)	13.38% (53/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1arsA (396)	34-71 (38)	37-71 (35)	43-72 (30)						

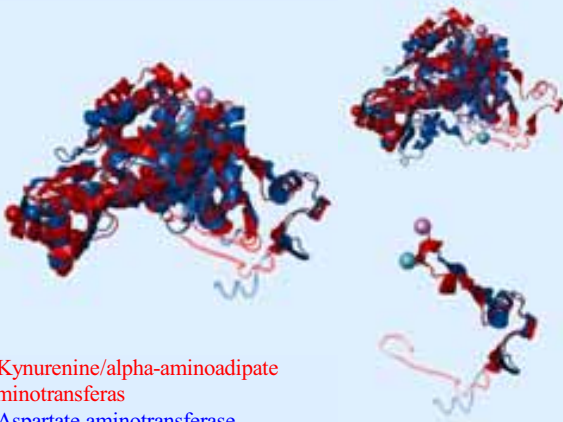
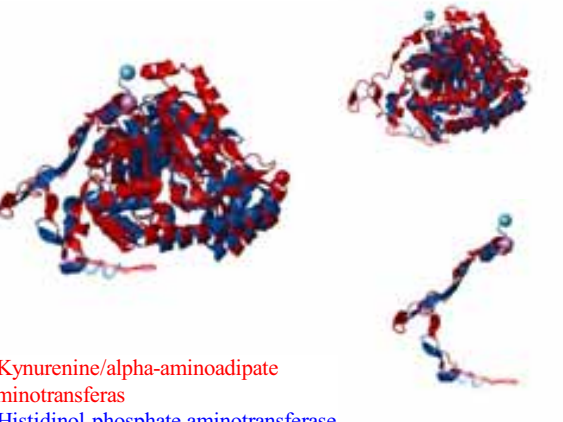
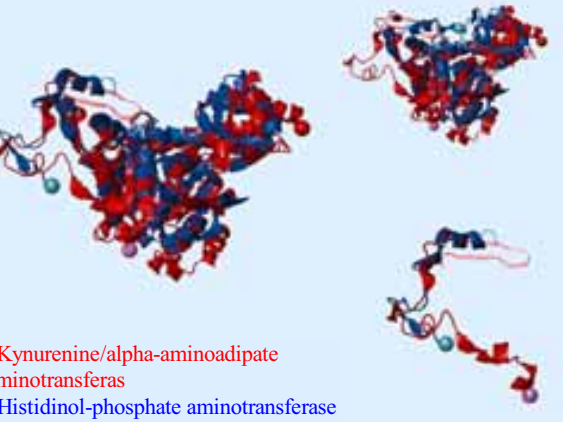
651	2qlrA (425)	33-76 (44)	33-72 (40)	49-72 (24)	N	0.36	2.78	90.40% (358/396)	12.88% (51/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1asfA (396)	39-79 (41)	39-75 (37)	49-72 (24)						
652	2qlrA (425)	15-72 (58)	16-72 (57)	17-71 (55)	N	0.53	2.10	93.98% (359/382)	20.68% (79/382)	 Kynurenine/alpha-aminoadipate aminotransferas Protein (aspartate aminotransferase)
	1b5oA (382)	12-62 (51)	13-62 (50)	17-71 (55)						
653	2qlrA (425)	15-72 (58)	16-72 (57)	20-72 (53)	N	0.48	2.00	94.50% (361/382)	20.42% (78/382)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1bkgA (382)	12-62 (51)	13-62 (50)	20-72 (53)						

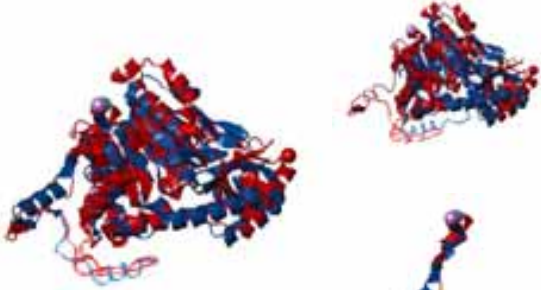
654	2qlrA (425)	35-79 (45)	37-75 (39)	43-72 (30)	N	0.41	2.66	89.14% (353/396)	12.63% (50/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1g4vA (396)	34-75 (42)	36-71 (36)	43-72 (30)						
655	2qlrA (425)	3-80 (78)	36-75 (40)	43-73 (31)	N	0.41	2.68	88.89% (352/396)	13.13% (52/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1g4xA (396)	5-76 (72)	35-71 (37)	43-73 (31)						
656	2qlrA (425)	1-79 (79)	36-75 (40)	51-73 (23)	N	0.35	2.77	88.38% (350/396)	13.89% (55/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1g7wA (396)	5-75 (71)	35-71 (37)	51-73 (23)						

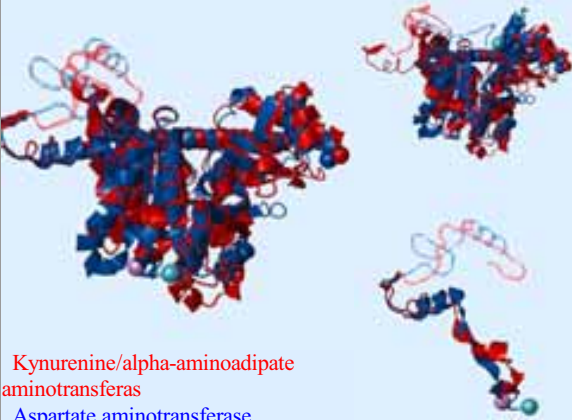
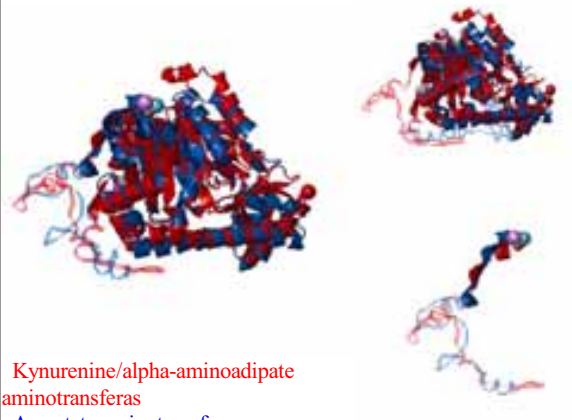
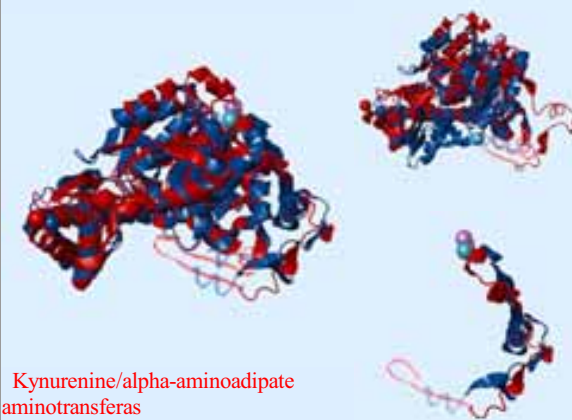
657	2qlrA (425)	3-76 (74)	37-75 (39)	43-72 (30)	N	0.41	2.71	89.39% (354/396)	12.88% (51/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1g7xA (396)	5-72 (68)	36-71 (36)	43-72 (30)						
658	2qlrA (425)	2-75 (74)	14-72 (59)	22-71 (50)	N	0.47	2.06	95.03% (363/382)	19.90% (76/382)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1gc3A (382)	2-65 (64)	11-62 (52)	22-71 (50)						
659	2qlrA (425)	15-72 (58)	44-71 (28)	49-71 (23)	N	0.41	2.21	93.56% (363/388)	20.62% (80/388)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1gdeA (388)	11-57 (47)	38-56 (19)	49-71 (23)						

660	2qlrA (425)	10-73 (64)	43-73 (31)	54-73 (20)	N	0.30	2.67	94.35% (334/354)	13.84% (49/354)	 Kynurenine/alpha-aminoadipate aminotransferas Histidinol phosphate aminotransferase
	lijiA (354)	13-54 (42)	40-54 (15)	54-73 (20)						
661	2qlrA (425)	35-76 (42)	37-75 (39)	47-72 (26)	N	0.41	2.68	88.89% (352/396)	13.38% (53/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	lix6A (396)	34-72 (39)	36-71 (36)	47-72 (26)						
662	2qlrA (425)	3-76 (74)	3-75 (73)	53-73 (21)	N	0.33	2.78	88.38% (350/396)	13.13% (52/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	lix8A (396)	6-72 (67)	6-71 (66)	53-73 (21)						

663	2qlrA (425)	3-72 (70)	14-72 (59)	53-71 (19)	N	0.46	2.07	94.33% (366/388)	16.49% (64/388)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1j32A (388)	2-61 (60)	10-61 (52)	53-71 (19)						
664	2qlrA (425)	38-76 (39)	38-72 (35)	47-72 (26)	N	0.47	2.07	92.00% (345/375)	18.67% (70/375)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1o4sA (375)	36-64 (29)	36-60 (25)	47-72 (26)						
665	2qlrA (425)	3-76 (74)	3-76 (74)	43-72 (30)	N	0.42	2.66	89.65% (355/396)	12.63% (50/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1qirA (396)	6-72 (67)	6-72 (67)	43-72 (30)						

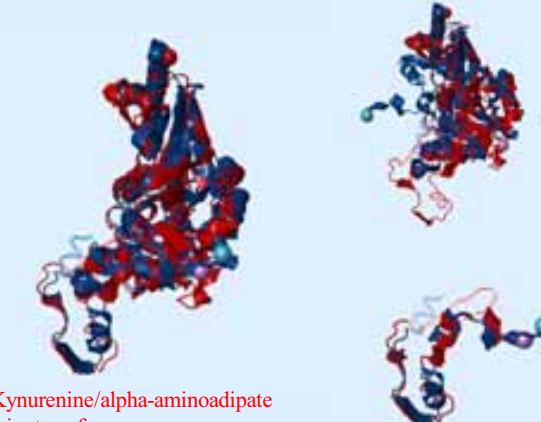
666	2qlrA (425)	35-76 (42)	35-75 (41)	43-72 (30)	N	0.42	2.64	88.89% (352/396)	12.88% (51/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	1spaA (396)	34-72 (39)	34-71 (38)	43-72 (30)						
667	2qlrA (425)	4-69 (66)	4-69 (66)	49-67 (19)	N	0.26	2.72	93.13% (312/335)	11.64% (39/335)	 Kynurenine/alpha-aminoadipate aminotransferas Histidinol-phosphate aminotransferase
	1uu1C (335)	1-48 (48)	1-48 (48)	49-67 (19)						
668	2qlrA (425)	1-79 (79)	42-69 (28)	51-67 (17)	N	0.31	2.58	93.15% (299/321)	12.77% (41/321)	 Kynurenine/alpha-aminoadipate aminotransferas Histidinol-phosphate aminotransferase
	1uu2A (321)	14-57 (44)	30-48 (19)	51-67 (17)						

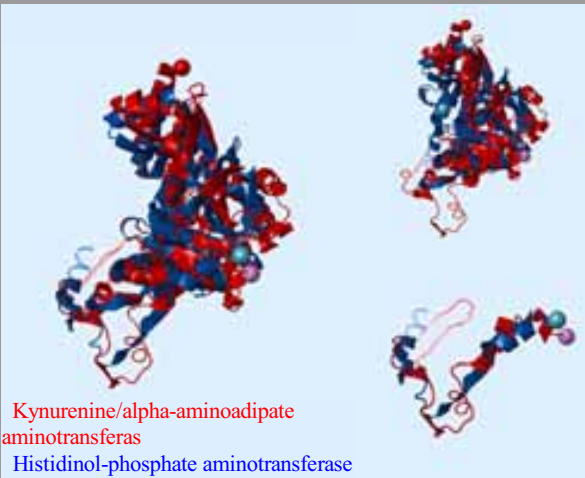
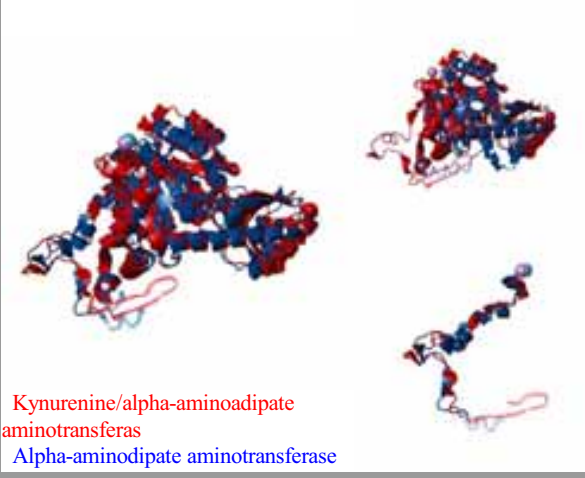
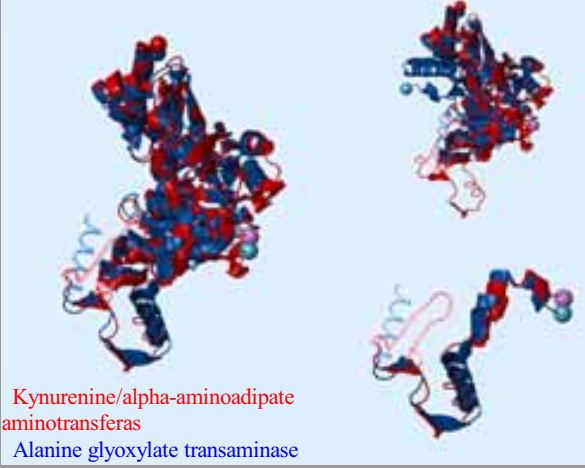
669	2qlrA (425)	14-75 (62)	17-71 (55)	39-71 (33)	N	0.52	2.15	95.10% (349/367)	20.44% (75/367)	 Kynurenine/alpha-aminoadipate aminotransferas Glutamine aminotransferase
	1v2fB (367)	10-58 (49)	13-54 (42)	39-71 (33)						
670	2qlrA (425)	47-80 (34)	47-71 (25)	47-71 (25)	N	0.60	1.69	94.04% (379/403)	29.28% (118/403)	 Kynurenine/alpha-aminoadipate aminotransferas Multiple substrate aminotransferase
	1wstA (403)	57-85 (29)	57-76 (20)	47-71 (25)						
671	2qlrA (425)	47-72 (26)	47-71 (25)	47-71 (25)	N	0.59	1.74	94.54% (381/403)	29.28% (118/403)	 Kynurenine/alpha-aminoadipate aminotransferas Aminotransferase II homologue
	1x0mA (403)	72-92 (21)	72-91 (20)	47-71 (25)						

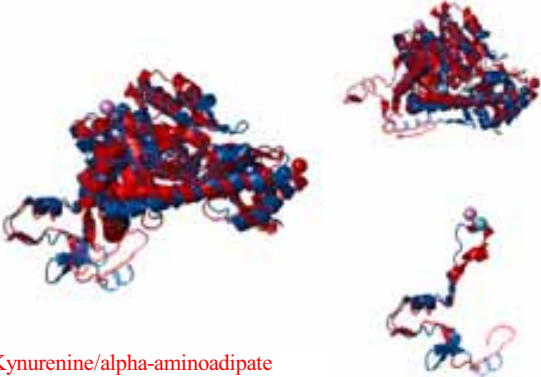
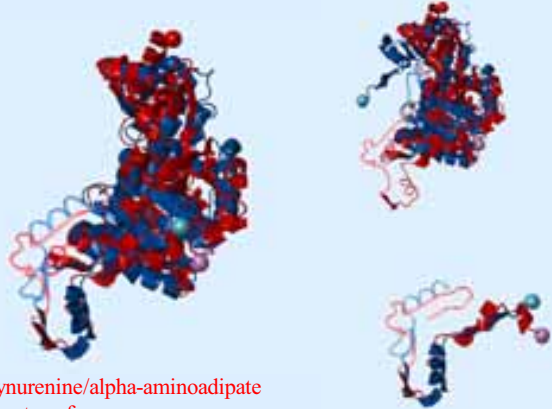
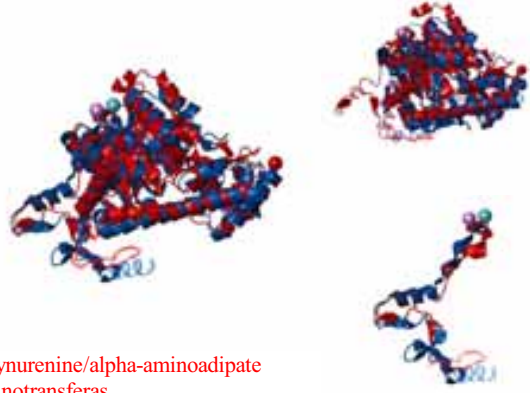
672	2qlrA (425)	2-76 (75)	2-75 (74)	36-68 (33)	N	0.42	2.59	87.14% (359/412)	10.44% (43/412)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1yaaA (412)	4-72 (69)	4-71 (68)	36-68 (33)						
673	2qlrA (425)	3-80 (78)	6-76 (71)	18-72 (55)	N	0.41	2.70	89.65% (355/396)	12.63% (50/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	1yooA (396)	6-76 (71)	9-72 (64)	18-72 (55)						
674	2qlrA (425)	3-76 (74)	3-75 (73)	49-72 (24)	N	0.35	2.67	89.65% (355/396)	12.63% (50/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	2d5yA (396)	6-72 (67)	6-71 (66)	49-72 (24)						



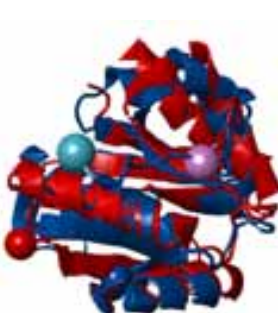


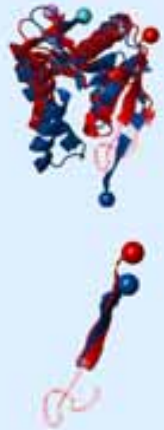
675	2qlrA (425)	35-76 (42)	48-75 (28)	48-72 (25)	N	0.39	2.61	88.38% (350/396)	14.14% (56/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	2d61A (396)	34-72 (39)	52-71 (20)	48-72 (25)						
676	2qlrA (425)	3-76 (74)	35-75 (41)	41-72 (32)	N	0.41	2.70	89.65% (355/396)	13.89% (55/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	2d64A (396)	6-72 (67)	34-71 (38)	41-72 (32)						
677	2qlrA (425)	3-76 (74)	3-75 (73)	43-72 (30)	N	0.42	2.68	89.65% (355/396)	12.63% (50/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase</p>
	2d66A (396)	6-72 (67)	6-71 (66)	43-72 (30)						

678	2qlrA (425)	1-83 (83)	1-68 (68)	35-68 (34)	N	0.50	2.13	93.82% (349/372)	17.47% (65/372)	 Kynurenine/alpha-aminoadipate aminotransferas Probable N-succinyldiaminopimelate aminotrans
	2douA (372)	4-68 (65)	4-53 (50)	35-68 (34)						
679	2qlrA (425)	17-83 (67)	17-68 (52)	44-68 (25)	N	0.51	2.18	94.84% (349/368)	17.66% (65/368)	 Kynurenine/alpha-aminoadipate aminotransferas Probable N-succinyldiaminopimelate aminotrans
	2douB (368)	9-68 (60)	9-53 (45)	44-68 (25)						
680	2qlrA (425)	47-69 (23)	47-64 (18)	47-64 (18)	N	0.56	1.82	96.94% (380/392)	27.30% (107/392)	 Kynurenine/alpha-aminoadipate aminotransferas Alpha-aminodipate aminotransferase
	2egyA (392)	48-65 (18)	48-60 (13)	47-64 (18)						

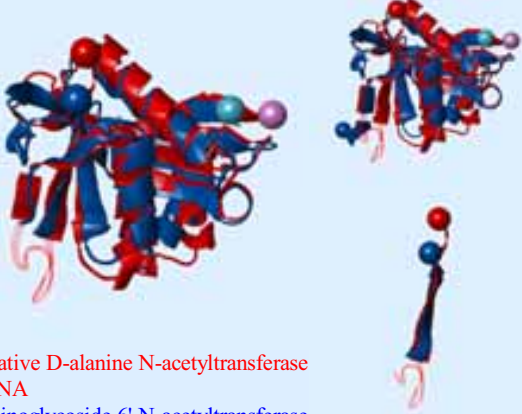

681	2qlrA (425)	47-70 (24)	47-70 (24)	48-67 (20)	N	0.52	1.78	96.19% (379/394)	26.65% (105/394)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Alpha-aminodipate aminotransferase</p>
	2egyB (394)	48-66 (19)	48-66 (19)	48-67 (20)						
682	2qlrA (425)	47-67 (21)	47-67 (21)	48-67 (20)	N	0.53	1.78	96.72% (383/396)	27.27% (108/396)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Alpha-aminodipate aminotransferase</p>
	2egyC (396)	48-63 (16)	48-63 (16)	48-67 (20)						
683	2qlrA (425)	44-70 (27)	44-68 (25)	45-67 (23)	N	0.52	1.67	96.16% (376/391)	27.37% (107/391)	 <p>Kynurenine/alpha-aminoadipate aminotransferas Alpha-aminodipate aminotransferase</p>
	2egyD (391)	45-66 (22)	45-64 (20)	45-67 (23)						

684	2qlrA (425)	13-68 (56)	13-68 (56)	49-67 (19)	N	0.26	2.69	93.13% (312/335)	11.64% (39/335)	 Kynurenine/alpha-aminoadipate aminotransferas Histidinol-phosphate aminotransferase
	2f8jA (335)	9-47 (39)	9-47 (39)	49-67 (19)						
685	2qlrA (425)	47-70 (24)	47-67 (21)	47-67 (21)	N	0.54	1.90	96.70% (381/394)	25.63% (101/394)	 Kynurenine/alpha-aminoadipate aminotransferas Alpha-aminoadipate aminotransferase
	2z1yB (394)	48-66 (19)	48-63 (16)	47-67 (21)						
686	2qlrA (425)	44-72 (29)	47-69 (23)	46-69 (24)	N	0.56	2.04	95.06% (385/405)	28.15% (114/405)	 Kynurenine/alpha-aminoadipate aminotransferas Alanine glyoxylate transaminase
	2zc0A (405)	47-69 (23)	50-66 (17)	46-69 (24)						

687	2qlrA (425)	4-76 (73)	4-75 (72)	49-72 (24)	N	0.35	2.72	89.14% (353/396)	12.37% (49/396)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	3aatA (396)	7-72 (66)	7-71 (65)	49-72 (24)						
688	2qlrA (425)	6-74 (69)	36-74 (39)	36-72 (37)	N	0.40	2.78	89.17% (354/397)	12.34% (49/397)	 Kynurenine/alpha-aminoadipate aminotransferas Tyrosine aminotransferase
	3tatA (397)	6-70 (65)	35-70 (36)	36-72 (37)						
689	2qlrA (425)	2-75 (74)	41-75 (35)	51-72 (22)	N	0.33	2.79	86.53% (347/401)	14.46% (58/401)	 Kynurenine/alpha-aminoadipate aminotransferas Aspartate aminotransferase
	7aatA (401)	4-71 (68)	38-71 (34)	51-72 (22)						


690	2r7hA (157)	158-172 (15)	158-172 (15)	158-168 (11)	C	0.55	2.17	95.17% (138/145)	18.62% (27/145)	  <p>Putative D-alanine N-acetyltransferase of GNA Aminoglycoside 6'-N-acetyltransferase</p>
	1s3zB (145)	138-142 (5)	138-142 (5)	158-168 (11)						
691	2r7hA (157)	157-169 (13)	158-169 (12)	159-160 (2)	C	0.52	2.20	90.20% (138/153)	15.69% (24/153)	  <p>Putative D-alanine N-acetyltransferase of GNA Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	137-144 (8)	138-144 (7)	159-160 (2)						
692	2r7hA (157)	154-173 (20)	157-173 (17)	157-168 (12)	C	0.39	2.52	81.94% (127/155)	12.26% (19/155)	  <p>Putative D-alanine N-acetyltransferase of GNA YYCN protein</p>
	1ufhA (155)	147-155 (9)	150-155 (6)	157-168 (12)						

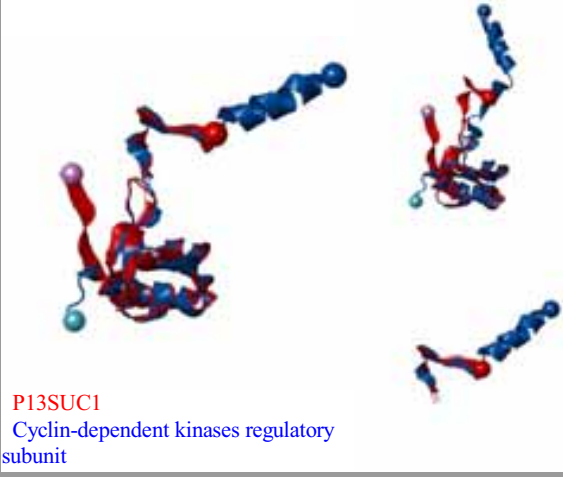
693	2r7hA (157)	154-173 (20)	154-173 (20)	154-166 (13)	C	0.43	2.45	85.06% (131/154)	12.99% (20/154)	 <p>Putative D-alanine N-acetyltransferase of GNA YYCN protein</p>
	1ufhB (154)	147-155 (9)	147-155 (9)	154-166 (13)						
694	2r7hA (157)	154-167 (14)	154-167 (14)	154-167 (14)	C	0.50	2.19	90.45% (142/157)	15.92% (25/157)	 <p>Putative D-alanine N-acetyltransferase of GNA Probable N-acetyltransferase</p>
	2fe7B (166)	139-142 (4)	139-142 (4)	154-167 (14)						
695	2r7hA (157)	154-169 (16)	158-169 (13)	159-160 (2)	C	0.52	2.27	93.88% (138/147)	16.33% (24/147)	 <p>Putative D-alanine N-acetyltransferase of GNA Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqA (147)	134-144 (11)	138-144 (7)	159-160 (2)						

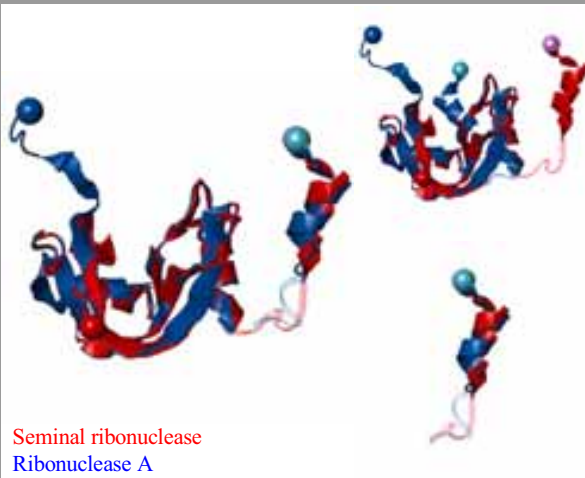
696	2r7hA (157)	154-173 (20)	158-168 (11)	158-167 (10)	C	0.54	2.20	95.14% (137/144)	16.67% (24/144)	 <p>Putative D-alanine N-acetyltransferase of GNA Aminoglycoside 6'-N-acetyltransferase</p>
	2vbqB (144)	134-144 (11)	138-139 (2)	158-167 (10)						
697	2rbbA (129)	72-105 (34)	72-104 (33)	84-104 (21)	C	0.44	1.86	82.95% (107/129)	12.40% (16/129)	 <p>Glyoxalase/bleomycin resistance protein/dioxy Methylmalonyl-CoA epimerase</p>
	1jc5D (145)	50-91 (42)	50-90 (41)	84-104 (21)						
698	2vi7A (163)	140-170 (31)	142-170 (29)	147-158 (12)	C	0.45	2.40	88.82% (135/152)	17.11% (26/152)	 <p>Acetyltransferase PA1377 HPA2 histone acetyltransferase</p>
	1qsmD (152)	141-156 (16)	143-156 (14)	147-158 (12)						





699	2vi7A (163)	146-166 (21)	148-166 (19)	148-159 (12)	C	0.46	2.27	89.54% (137/153)	15.03% (23/153)	 <p>Acetyltransferase PA1377 Aminoglycoside 6'-N-acetyltransferase</p>
	1s5kA (153)	135-144 (10)	137-144 (8)	148-159 (12)						
700	2vi7A (163)	146-170 (25)	146-170 (25)	146-158 (13)	C	0.45	2.29	84.66% (138/163)	20.86% (34/163)	 <p>Acetyltransferase PA1377 Probable N-acetyltransferase</p>
	2fe7B (166)	140-158 (19)	140-158 (19)	146-158 (13)						
701	2vi7A (163)	145-170 (26)	145-158 (14)	147-158 (12)	C	0.44	2.51	87.73% (143/163)	11.66% (19/163)	 <p>Acetyltransferase PA1377 Diamine acetyltransferase 1</p>
	2g3tA (169)	147-171 (25)	147-153 (7)	147-158 (12)						

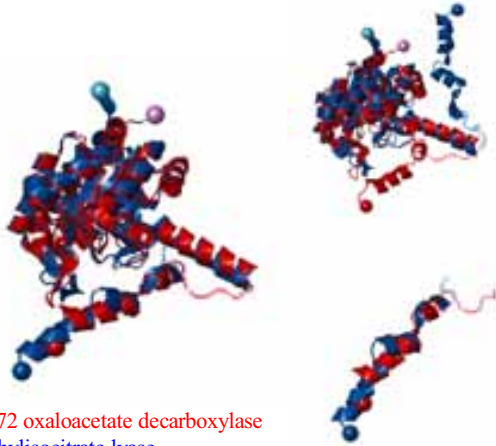
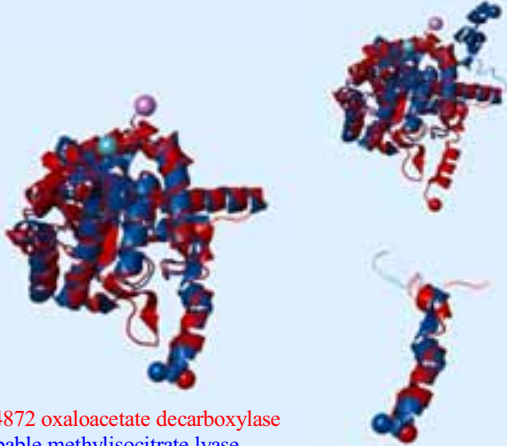
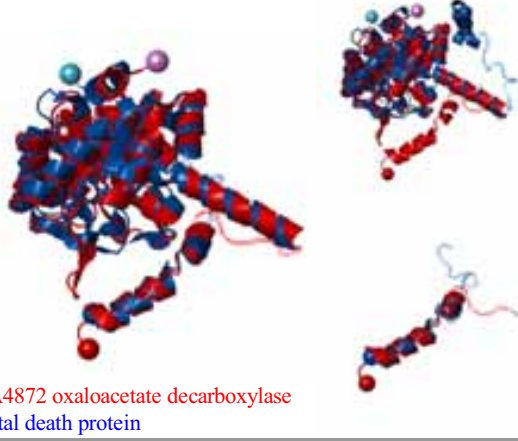
702	2vi7A (163)	147-166 (20)	147-166 (20)	147-160 (14)	C	0.48	1.85	82.21% (134/163)	19.02% (31/163)	  <p>Acetyltransferase PA1377 Glucosamine 6-phosphate acetyltransferase</p>
	2vxkA (165)	183-189 (7)	183-189 (7)	147-160 (14)						
703	5croA (61)	54-60 (7)	54-60 (7)	55-56 (2)	C	0.86	0.93	100.00% (61/61)	91.80% (56/61)	  <p>CRO repressor protein Lambda CRO repressor</p>
	1d1mB (65)	54-64 (11)	54-64 (11)	55-56 (2)						
704	5croA (61)	42-60 (19)	52-60 (9)	54-54 (1)	C	0.58	2.03	95.08% (58/61)	19.67% (12/61)	  <p>CRO repressor protein SN4m</p>
	2cw1A (65)	42-64 (23)	52-64 (13)	54-54 (1)						





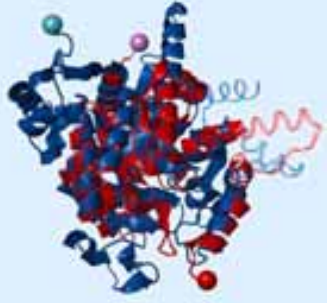

705	5croA (61)	44-60 (17)	45-60 (16)	55-55 (1)	C	0.69	1.49	100.00% (61/61)	93.44% (57/61)	 
	2orcA (71)	44-61 (18)	45-61 (17)	55-55 (1)						
706	1gheA (170)	132-151 (20)	145-151 (7)	149-150 (2)	C	0.50	2.04	90.13% (137/152)	13.16% (20/152)	 
	1qsmD (152)	129-148 (20)	143-148 (6)	149-150 (2)						
707	1k53A (72)	40-58 (19)	40-58 (19)	52-57 (6)	C	0.40	2.36	83.33% (60/72)	8.33% (6/72)	 
	2hj1A (77)	50-80 (31)	50-80 (31)	52-57 (6)						

708	2c5jA (82)	28-41 (14)	32-41 (10)	32-41 (10)	N	0.32	1.64	93.90% (77/82)	3.66% (3/82)	 <p>T-snare affecting a LATE golgi compartment PR Trp operon repressor</p>
	1mi7R (103)	27-44 (18)	31-44 (14)	32-41 (10)						
709	1pucA (101)	86-90 (5)	86-88 (3)	86-88 (3)	C	0.72	0.73	95.05% (96/101)	71.29% (72/101)	 <p>P13SUC1 Cyclin-dependent kinases regulatory subunit</p>
	1qb3A (113)	89-93 (5)	89-91 (3)	86-88 (3)						
710	3bcoA (124)	16-22 (7)	16-22 (7)	16-22 (7)	N	0.64	0.33	100.00% (119/119)	100.00% (119/119)	 <p>Seminal ribonuclease Seminit</p>
	3bcmA (119)	16-22 (7)	16-22 (7)	16-22 (7)						


711	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.43	0.93	91.13% (113/124)	74.19% (92/124)	 <p>Seminal ribonuclease Ribonuclease A</p>
	ljs0A (124)	15-22 (8)	15-22 (8)	15-22 (8)						
712	3bcoA (124)	111-115 (5)	112-113 (2)	112-113 (2)	C	0.55	0.83	83.87% (104/124)	69.35% (86/124)	 <p>Seminal ribonuclease Ribonuclease A</p>
	ljs0A (124)	111-115 (5)	112-113 (2)	112-113 (2)						
713	3bcoA (124)	16-22 (7)	16-22 (7)	16-22 (7)	N	0.62	0.55	100.00% (122/122)	96.72% (118/122)	 <p>Seminal ribonuclease Ribonuclease, seminal</p>
	lr3mB (122)	16-22 (7)	16-22 (7)	16-22 (7)						


714	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.90	1.01	100.00% (124/124)	82.26% (102/124)	  <p>Seminal ribonuclease Ribonuclease A</p>
	1a2wA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
715	3bcoA (124)	15-24 (10)	15-23 (9)	15-23 (9)	N	0.86	1.09	99.19% (123/124)	74.19% (92/124)	  <p>Seminal ribonuclease Ribonuclease I</p>
	1h8xA (125)	115-124 (10)	115-123 (9)	15-23 (9)						
716	1a2wA (124)	15-23 (9)	15-22 (8)	15-22 (8)	N	0.91	0.86	99.19% (123/124)	80.65% (100/124)	  <p>Ribonuclease A Protein (ribonuclease, seminal)</p>
	11baA (124)	15-23 (9)	15-22 (8)	15-22 (8)						

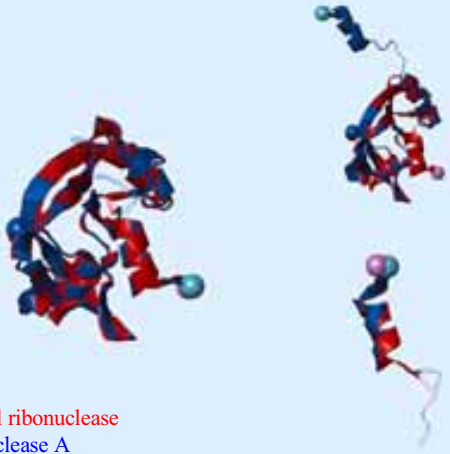
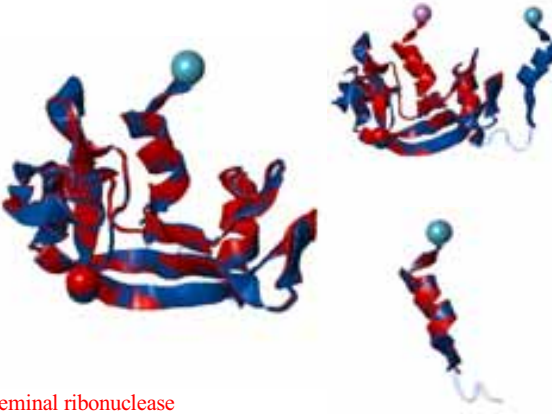
717	3b8iA (283)	254-271 (18)	254-271 (18)	254-264 (11)	C	0.62	1.91	94.70% (268/283)	26.15% (74/283)	 <p>PA4872 oxaloacetate decarboxylase 2-methylisocitrate lyase</p>
	1oqfA (290)	255-268 (14)	255-268 (14)	254-264 (11)						
718	3b8iA (283)	254-271 (18)	254-263 (10)	254-264 (11)	C	0.65	1.63	94.10% (255/271)	25.83% (70/271)	 <p>PA4872 oxaloacetate decarboxylase Probable methylisocitrate lyase</p>
	1o5qA (271)	256-269 (14)	256-263 (8)	254-264 (11)						
719	3b8iA (283)	250-265 (16)	254-264 (11)	254-264 (11)	C	0.59	1.95	91.87% (260/283)	23.67% (67/283)	 <p>PA4872 oxaloacetate decarboxylase Petal death protein</p>
	1zlpA (284)	273-293 (21)	277-292 (16)	254-264 (11)						

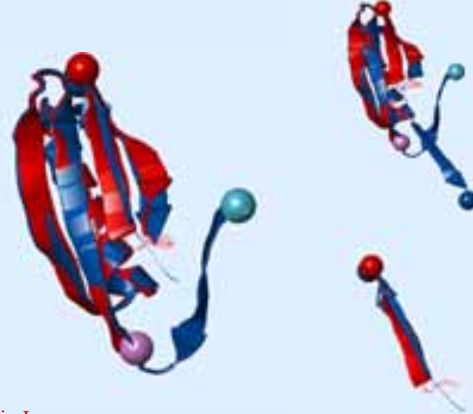
720	3b8iA (283)	246-265 (20)	246-265 (20)	246-265 (20)	C	0.39	2.12	92.58% (262/283)	19.43% (55/283)	  PA4872 oxaloacetate decarboxylase Isocitrate lyase
	1f61A (418)	359-392 (34)	359-392 (34)	246-265 (20)						
721	3b8iA (283)	245-266 (22)	245-265 (21)	245-263 (19)	C	0.37	2.05	90.81% (257/283)	19.08% (54/283)	  PA4872 oxaloacetate decarboxylase Isocitrate lyase
	1f8mA (427)	358-393 (36)	358-392 (35)	245-263 (19)						
722	3b8iA (283)	242-265 (24)	242-265 (24)	242-265 (24)	C	0.38	2.03	90.81% (257/283)	19.43% (55/283)	  PA4872 oxaloacetate decarboxylase Isocitrate lyase
	1f8iA (427)	355-392 (38)	355-392 (38)	242-265 (24)						

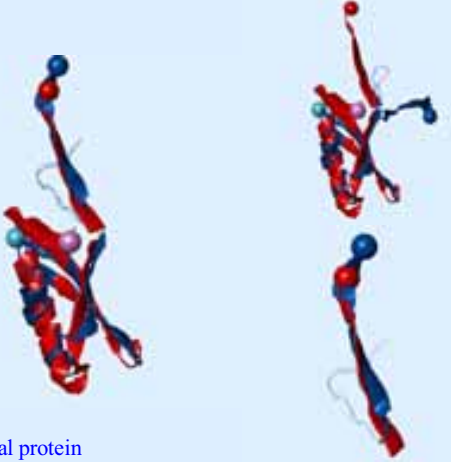
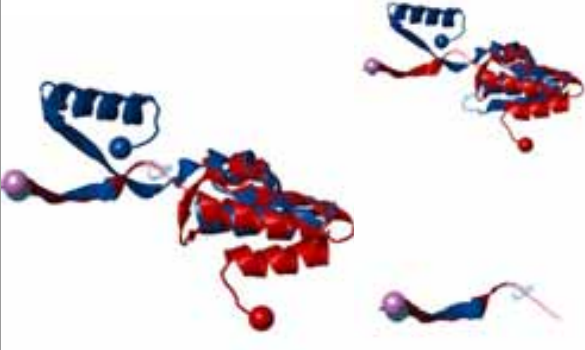
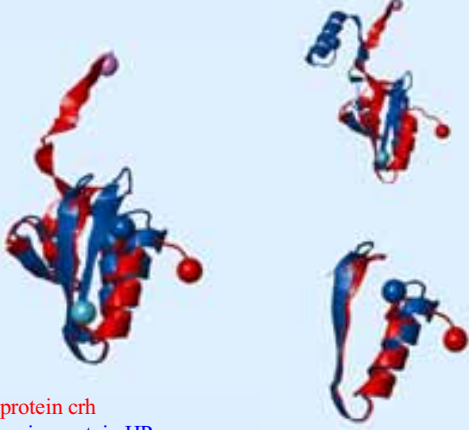
723	1k51A (72)	39-49 (21)	39-57 (19)	54-54 (1)	C	0.41	2.30	83.33% (60/72)	4.17% (3/72)	 <p>Protein L Hypothetical protein</p>
	2hj1A (77)	49-80 (32)	49-78 (30)	54-54 (1)						
724	1k52A (72)	39-63 (25)	40-57 (18)	52-54 (3)	C	0.41	2.21	81.94% (59/72)	6.94% (5/72)	 <p>Protein L Hypothetical protein</p>
	2hj1A (77)	49-84 (36)	50-78 (29)	52-54 (3)						
725	1mo1A (87)	10-15 (6)	10-15 (6)	10-15 (6)	N	0.28	1.57	59.77% (52/87)	24.14% (21/87)	 <p>Hpr-like protein crh Phosphocarrier protein HPr</p>
	1y50A (87)	10-15 (6)	10-15 (6)	10-15 (6)						

726	1mo1A (87)	51-56 (6)	52-56 (5)	52-56 (5)	C	0.50	1.63	80.46% (70/87)	31.03% (27/87)	 <p>Hpr-like protein crh Phosphocarrier protein HPr</p>
	1y50A (87)	51-56 (6)	52-56 (5)	52-56 (5)						
727	3bcmA (119)	16-24 (9)	16-22 (7)	16-22 (7)	N	0.62	0.39	100.00% (119/119)	98.32% (117/119)	 <p>Seminal ribonuclease Ribonuclease, seminal</p>
	1r5cA (124)	16-24 (9)	16-22 (7)	16-22 (7)						
728	3bcmA (119)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.74	0.59	100.00% (119/119)	83.19% (99/119)	 <p>Seminal ribonuclease Ribonuclease A</p>
	1js0A (124)	112-113 (2)	112-113 (2)	112-113 (2)						

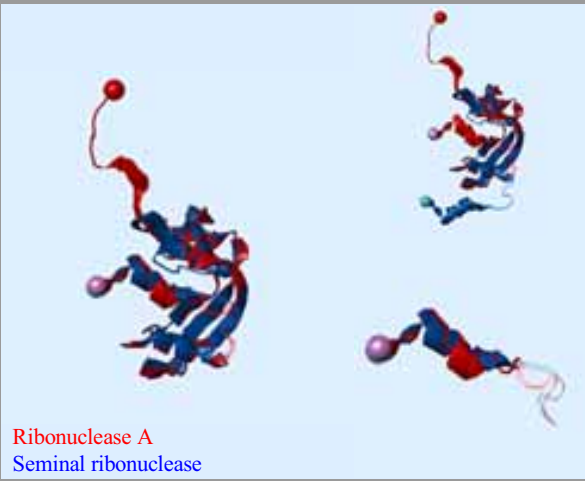
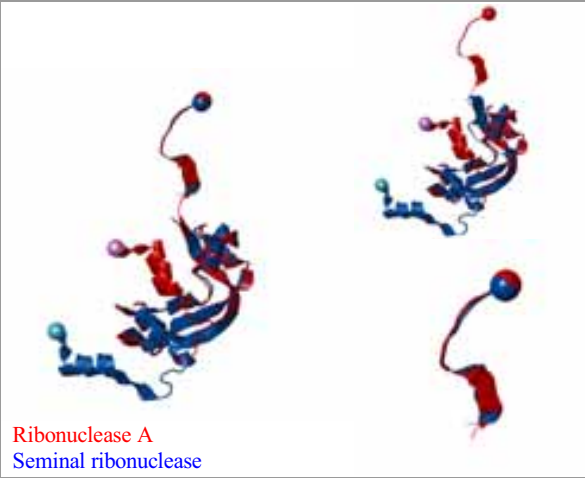
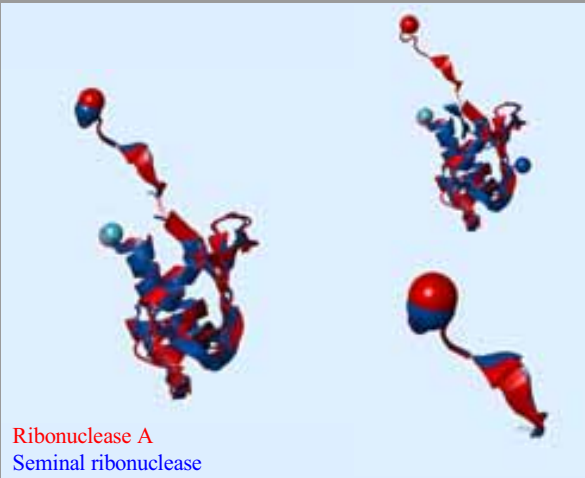
729	3bcmA (119)	16-24 (9)	16-22 (7)	16-22 (7)	N	0.59	0.42	100.00% (119/119)	98.32% (117/119)	  Seminal ribonuclease Protein (bovine seminal ribonuclease)
	11bgA (124)	16-24 (9)	16-22 (7)	16-22 (7)						
730	3bcmA (119)	15-22 (8)	16-22 (7)	16-22 (7)	N	0.87	0.41	100.00% (119/119)	96.64% (115/119)	  Seminal ribonuclease Ribonuclease, seminal
	1tq9A (124)	15-22 (8)	16-22 (7)	16-22 (7)						
731	3bcmA (119)	16-24 (9)	16-22 (7)	16-22 (7)	N	0.58	0.44	100.00% (119/119)	98.32% (117/119)	  Seminal ribonuclease Ribonuclease, seminal
	1r5dA (124)	16-24 (9)	16-22 (7)	16-22 (7)						

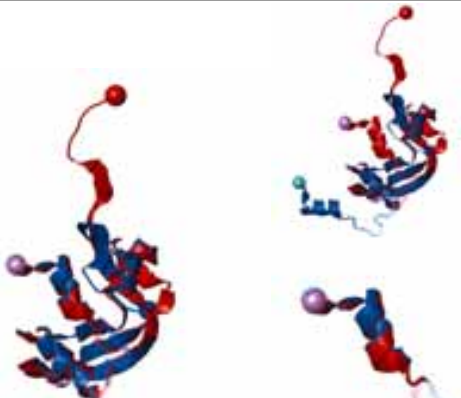
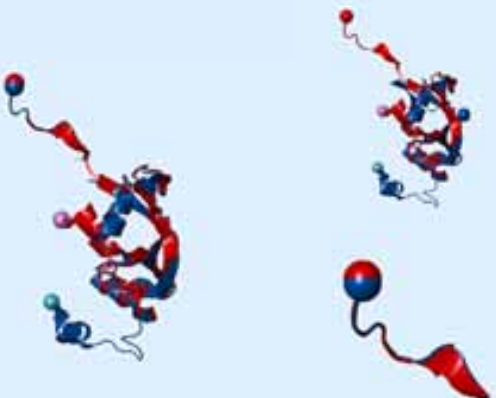
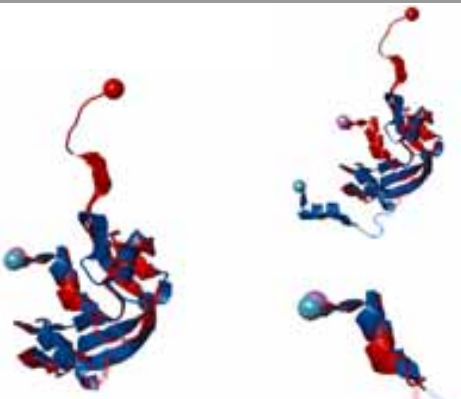
732	3bcmA (119)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.93	0.58	100.00% (119/119)	83.19% (99/119)	 <p>Seminal ribonuclease Ribonuclease A</p>
	1a2wA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
733	3bcmA (119)	16-24 (9)	16-22 (7)	16-22 (7)	N	0.59	0.36	100.00% (119/119)	98.32% (117/119)	 <p>Seminal ribonuclease Protein (ribonuclease, seminal)</p>
	11baA (124)	16-24 (9)	16-22 (7)	16-22 (7)						
734	3bcmA (119)	15-23 (9)	15-23 (9)	15-23 (9)	N	0.85	1.04	100.00% (119/119)	75.63% (90/119)	 <p>Seminal ribonuclease Ribonuclease 1</p>
	1h8xA (125)	115-123 (9)	115-123 (9)	15-23 (9)						

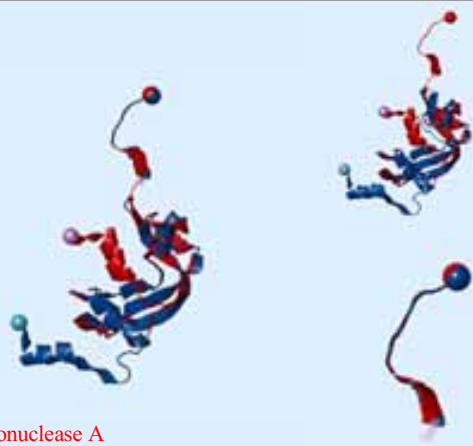
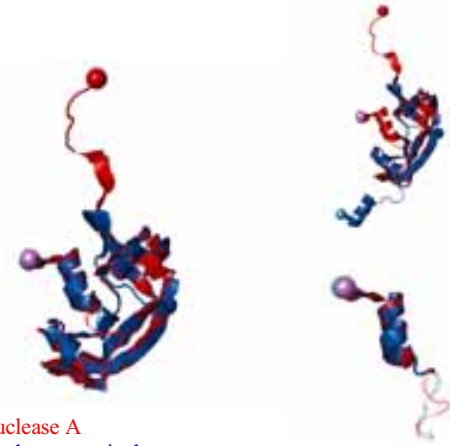
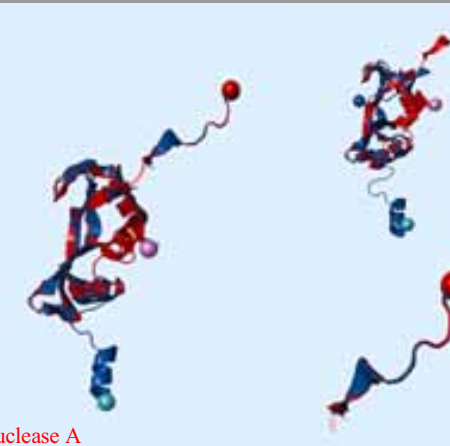
735	1tq9A (124)	16-22 (7)	16-22 (7)	18-22 (5)	N	0.81	0.62	100.00% (122/122)	98.36% (120/122)	 <p>Ribonuclease, seminal Ribonuclease, seminal</p>
	1r3mB (122)	16-22 (7)	16-22 (7)	18-22 (5)						
736	1k50A (63)	50-56 (7)	50-56 (7)	53-56 (4)	C	0.76	1.15	100.00% (63/63)	96.83% (61/63)	 <p>Protein L Protein L</p>
	1k51A (72)	50-56 (7)	50-56 (7)	53-56 (4)						
737	1k50A (63)	50-56 (7)	50-56 (7)	52-56 (5)	C	0.76	1.19	100.00% (63/63)	93.65% (59/63)	 <p>Protein L Protein L</p>
	1jmlA (72)	50-56 (7)	50-56 (7)	52-56 (5)						

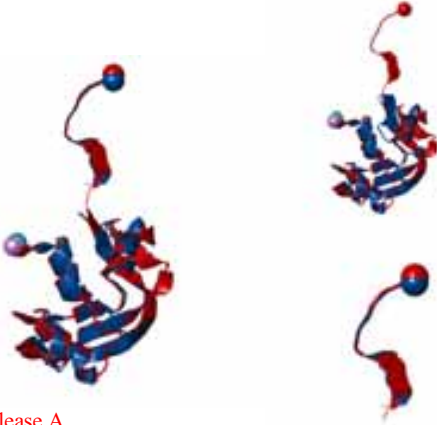
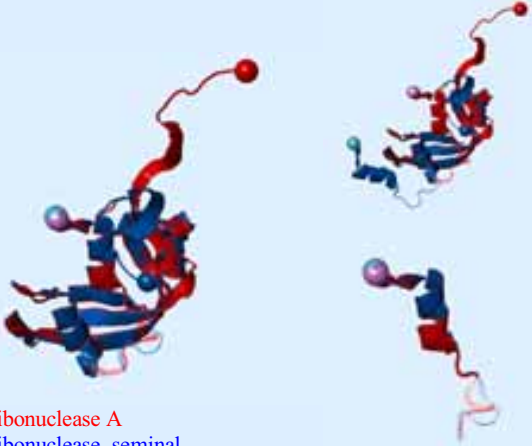
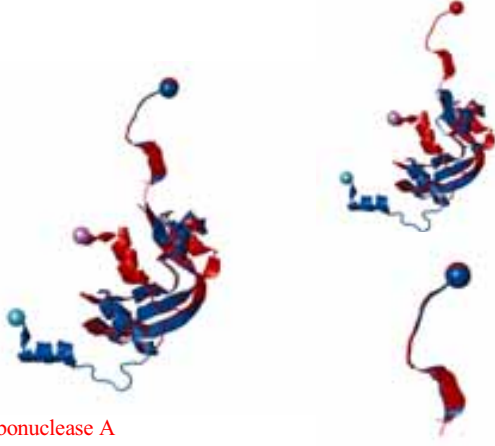
738	1jmlA (72)	39-49 (21)	40-57 (18)	54-54 (1)	C	0.40	2.36	83.33% (60/72)	4.17% (3/72)	 <p>Protein L Hypothetical protein</p>
	2hj1A (77)	49-80 (32)	50-78 (29)	54-54 (1)						
739	1mu4A (86)	10-15 (6)	10-15 (6)	10-15 (6)	N	0.28	1.55	60.47% (52/86)	26.74% (23/86)	 <p>HPr-like protein crh Phosphocarrier protein HPr</p>
	1y50A (87)	10-15 (6)	10-15 (6)	10-15 (6)						
740	1mu4A (86)	51-56 (6)	52-56 (5)	53-55 (3)	C	0.50	1.75	82.56% (71/86)	34.88% (30/86)	 <p>HPr-like protein crh Phosphocarrier protein HPr</p>
	1y50A (87)	51-56 (6)	52-56 (5)	53-55 (3)						

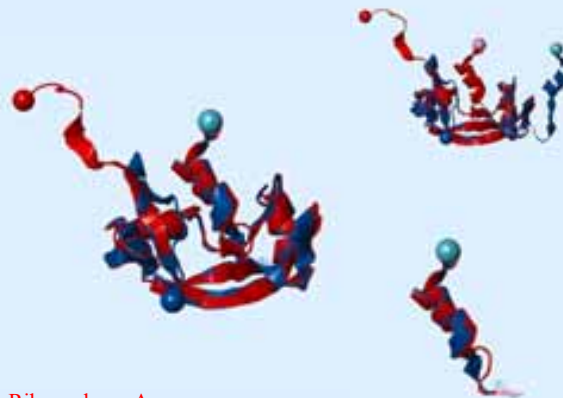
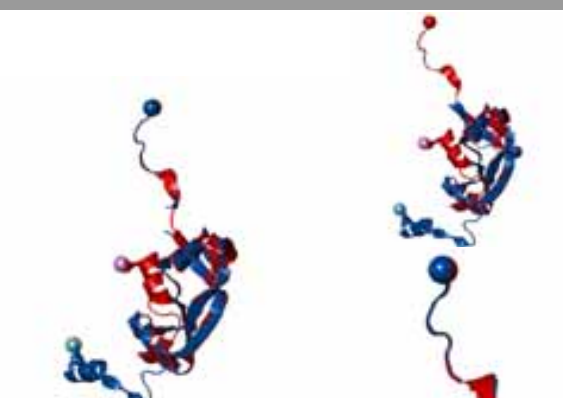

741	2ck2B (96)	2-68 (67)	2-21 (20)	14-19 (6)	N	0.31	2.90	81.25% (78/96)	9.38% (9/96)	 <p>Human fibronectin Protein (nerve growth factor receptor TRKA)</p>
	1wwaX (105)	284-357 (74)	284-302 (19)	14-19 (6)						
742	1f0vA (124)	15-25 (11)	15-25 (11)	16-22 (7)	N	0.74	1.04	91.13% (113/124)	74.19% (92/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	3bcpA (124)	15-25 (11)	15-25 (11)	16-22 (7)						
743	1f0vA (124)	109-113 (5)	111-113 (3)	112-113 (2)	C	0.65	0.83	83.87% (104/124)	69.35% (86/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	3bcpA (124)	109-113 (5)	111-113 (3)	112-113 (2)						

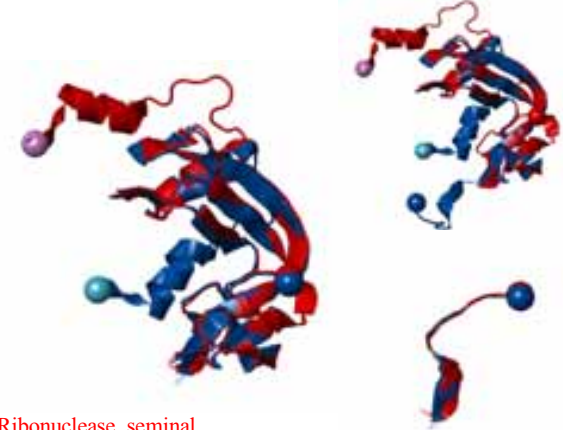
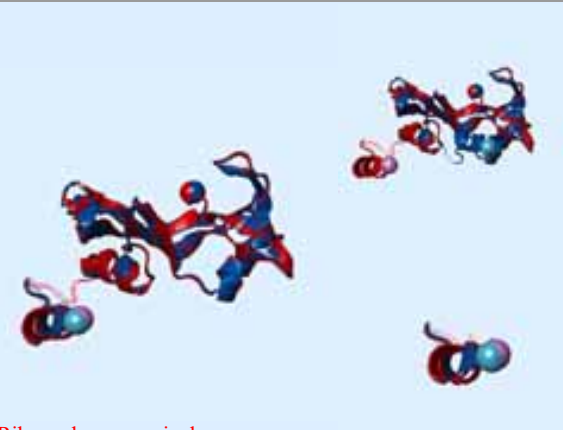
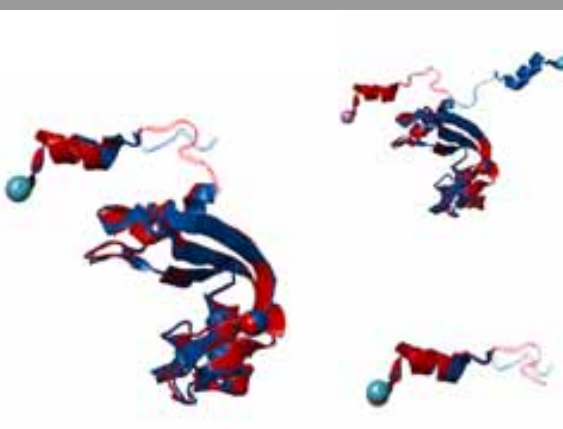
744	1f0vA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.44	0.91	91.13% (113/124)	74.19% (92/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
745	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.65	0.83	83.87% (104/124)	69.35% (86/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	3bcoA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
746	1f0vA (124)	109-113 (5)	111-113 (3)	112-113 (2)	C	0.92	0.59	100.00% (119/119)	83.19% (99/119)	 <p>Ribonuclease A Seminal ribonuclease</p>
	3bcmA (119)	109-113 (5)	111-113 (3)	112-113 (2)						

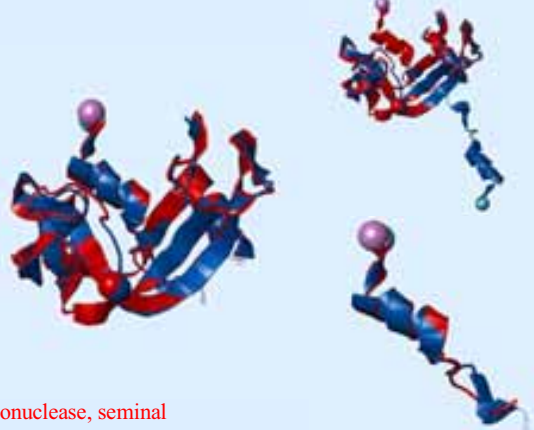
747	1f0vA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.42	0.84	90.32% (112/124)	72.58% (90/124)	
	1r5cA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
748	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.66	0.65	83.06% (103/124)	68.55% (85/124)	
	1r5cA (124)	111-113 (3)	111-113 (3)	112-113 (2)						
749	1f0vA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.44	0.93	91.13% (113/124)	73.39% (91/124)	
	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)						

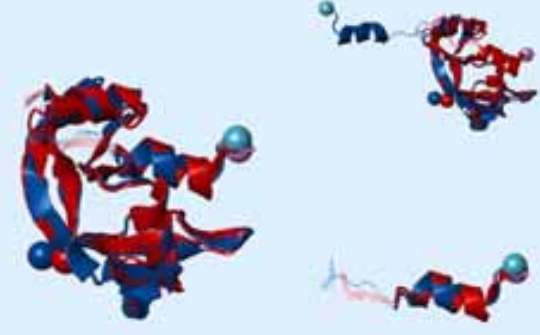
750	1f0vA (124)	111-115 (5)	112-114 (3)	113-114 (2)	C	0.65	0.82	83.87% (104/124)	69.35% (86/124)	 <p>Ribonuclease A Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	111-115 (5)	112-114 (3)	113-114 (2)						
751	1f0vA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.69	0.93	91.13% (113/124)	73.39% (91/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1tq9A (124)	15-22 (8)	15-22 (8)	15-22 (8)						
752	1f0vA (124)	111-115 (5)	111-113 (3)	112-113 (2)	C	0.67	0.66	83.87% (104/124)	69.35% (86/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1tq9A (124)	111-115 (5)	111-113 (3)	112-113 (2)						

753	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.92	0.79	100.00% (122/122)	81.15% (99/122)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1r3mB (122)	111-113 (3)	111-113 (3)	112-113 (2)						
754	1f0vA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.42	0.84	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1r5dA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
755	1f0vA (124)	111-113 (3)	111-113 (3)	112-113 (2)	C	0.66	0.66	83.06% (103/124)	68.55% (85/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1r5dA (124)	111-113 (3)	111-113 (3)	112-113 (2)						

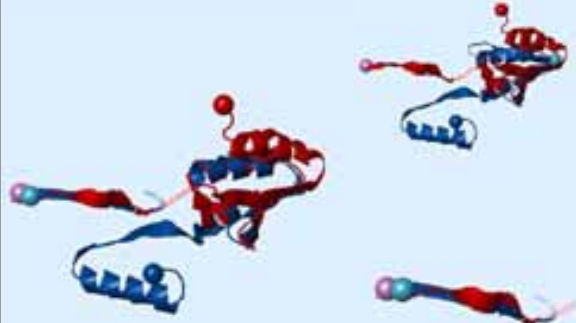
756	1f0vA (124)	15-22 (8)	15-22 (8)	19-22 (4)	N	0.40	0.75	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease A Protein (ribonuclease, seminal)</p>
	11baA (124)	15-22 (8)	15-22 (8)	19-22 (4)						
757	1f0vA (124)	111-115 (5)	111-113 (3)	112-113 (2)	C	0.67	0.55	83.06% (103/124)	68.55% (85/124)	 <p>Ribonuclease A Protein (ribonuclease, seminal)</p>
	11baA (124)	111-115 (5)	111-113 (3)	112-113 (2)						
758	1r5cA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.41	0.88	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease, seminal Ribonuclease A</p>
	ljs0A (124)	15-22 (8)	15-22 (8)	15-22 (8)						







759	1r5cA (124)	111-115 (5)	112-113 (2)	112-113 (2)	C	0.54	0.67	83.06% (103/124)	68.55% (85/124)	 <p>Ribonuclease, seminal Ribonuclease A</p>
	1js0A (124)	111-115 (5)	112-113 (2)	112-113 (2)						
760	1r5cA (124)	15-23 (9)	16-22 (7)	16-22 (7)	N	0.59	0.51	100.00% (122/122)	98.36% (120/122)	 <p>Ribonuclease, seminal Ribonuclease, seminal</p>
	1r3mB (122)	15-23 (9)	16-22 (7)	16-22 (7)						
761	1r5cA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.90	0.92	99.19% (123/124)	80.65% (100/124)	 <p>Ribonuclease, seminal Ribonuclease A</p>
	1a2wA (124)	15-22 (8)	15-22 (8)	15-22 (8)						

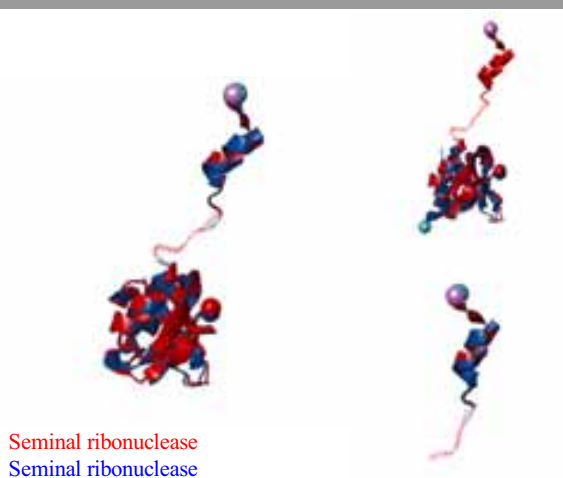
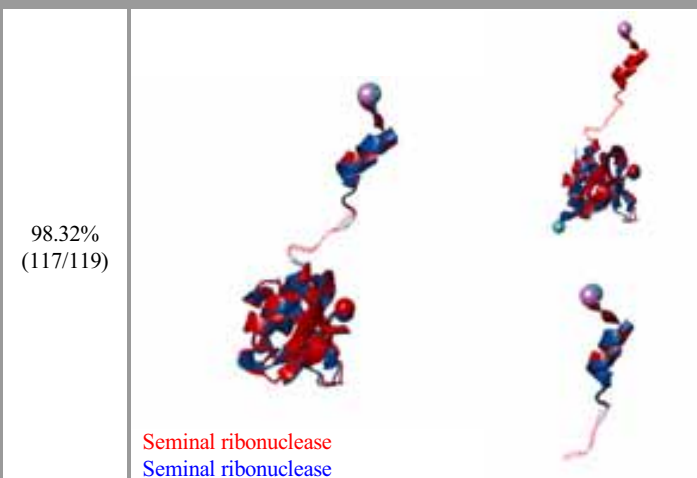
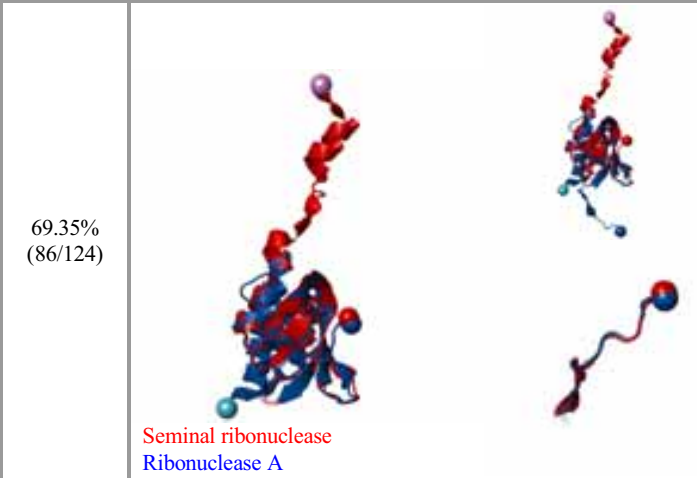
762	1r5cA (124)	15-24 (10)	15-23 (9)	15-23 (9)	N	0.87	1.00	98.39% (122/124)	71.77% (89/124)	 <p>Ribonuclease, seminal Ribonuclease 1</p>
	1h8xA (125)	115-124 (10)	115-123 (9)	15-23 (9)						
763	1r3mB (122)	15-22 (8)	16-22 (7)	16-22 (7)	N	0.61	0.53	100.00% (122/122)	99.18% (121/122)	 <p>Ribonuclease, seminal Ribonuclease, seminal</p>
	1r5dA (124)	15-22 (8)	16-22 (7)	16-22 (7)						
764	1r3mB (122)	15-23 (9)	15-22 (8)	19-22 (4)	N	0.93	0.76	100.00% (122/122)	81.15% (99/122)	 <p>Ribonuclease, seminal Ribonuclease A</p>
	1a2wA (124)	15-23 (9)	15-22 (8)	19-22 (4)						

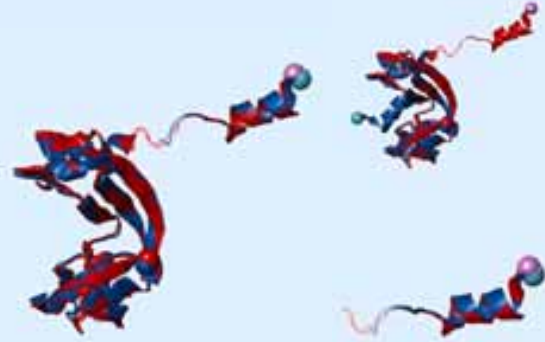
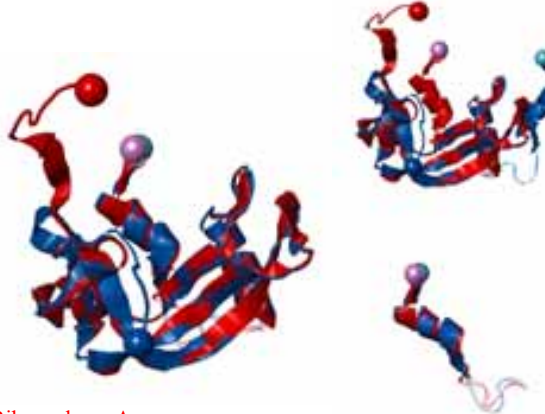
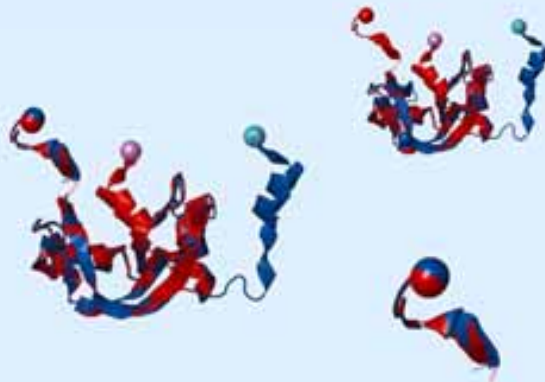
765	1r3mB (122)	15-22 (8)	15-22 (8)	16-22 (7)	N	0.56	0.61	100.00% (122/122)	99.18% (121/122)	
	11baA (124)	15-22 (8)	15-22 (8)	16-22 (7)						
766	1r3mB (122)	15-23 (9)	15-23 (9)	15-23 (9)	N	0.86	0.92	98.36% (120/122)	73.77% (90/122)	
	1h8xA (125)	115-123 (9)	115-123 (9)	15-23 (9)						
767	1dz3A (123)	105-114 (10)	105-110 (6)	105-109 (5)	C	0.27	2.52	78.86% (97/123)	8.94% (11/123)	
	2ieyA (164)	162-171 (10)	162-167 (6)	105-109 (5)						

768	1q10A (56)	36-55 (20)	37-50 (14)	38-41 (4)	C	0.54	2.28	98.21% (55/56)	5.36% (3/56)	 <p>Immunoglobulin G binding protein G Protein L</p>
	1k50A (63)	39-61 (23)	40-56 (17)	38-41 (4)						
769	1q10A (56)	36-55 (20)	37-54 (18)	38-41 (4)	C	0.49	2.18	98.21% (55/56)	5.36% (3/56)	 <p>Immunoglobulin G binding protein G Protein L</p>
	1k53A (72)	39-61 (23)	40-60 (21)	38-41 (4)						
770	1q10A (56)	36-55 (20)	37-43 (7)	38-42 (5)	C	0.50	2.15	98.21% (55/56)	16.07% (9/56)	 <p>Immunoglobulin G binding protein G Protein L</p>
	1k52A (72)	39-63 (25)	40-47 (8)	38-42 (5)						

771	1q10A (56)	33-43 (11)	33-42 (10)	34-43 (10)	C	0.29	2.91	87.50% (49/56)	1.79% (1/56)	 <p>Immunoglobulin G binding protein G Hypothetical protein</p>
	2hj1A (77)	46-63 (18)	46-62 (17)	34-43 (10)						
772	2rlzA (85)	3-16 (14)	3-16 (14)	11-14 (4)	N	0.27	1.92	62.35% (53/85)	27.06% (23/85)	 <p>HPr-like protein crh Phosphocarrier protein HPr</p>
	1y50A (87)	3-16 (14)	3-16 (14)	11-14 (4)						
773	2rlzA (85)	50-56 (7)	51-56 (6)	52-55 (4)	C	0.50	2.00	85.88% (73/85)	35.29% (30/85)	 <p>HPr-like protein crh Phosphocarrier protein HPr</p>
	1y50A (87)	50-56 (7)	51-56 (6)	52-55 (4)						

774	1wwaX (105)	378-381 (4)	378-381 (4)	379-379 (1)	C	0.90	0.88	100.00% (105/105)	91.43% (96/105)	  <p>Protein (nerve growth factor receptor TRKA) HIGH affinity nerve growth factor receptor</p>
	1he7A (107)	378-383 (6)	378-383 (6)	379-379 (1)						
775	1wwcA (105)	393-399 (7)	395-399 (5)	396-396 (1)	C	0.56	1.51	84.76% (89/105)	36.19% (38/105)	  <p>Protein (NT-3 growth factor receptor TRKC) HIGH affinity nerve growth factor receptor</p>
	1he7A (107)	376-383 (8)	378-383 (6)	396-396 (1)						
776	3bcpA (124)	15-25 (11)	15-25 (11)	15-22 (8)	N	0.90	0.97	100.00% (124/124)	98.39% (122/124)	  <p>Seminal ribonuclease Seminal ribonuclease</p>
	3bcoA (124)	15-25 (11)	15-25 (11)	15-22 (8)						



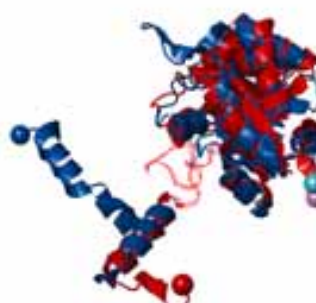



777	3bcpA (124)	15-25 (11)	15-24 (10)	15-22 (8)	N	0.91	0.72	100.00% (119/119)	98.32% (117/119)	
	3bcmA (119)	15-25 (11)	15-24 (10)	15-22 (8)						
778	3bcpA (124)	15-25 (11)	15-25 (11)	16-22 (7)	N	0.73	1.03	90.32% (112/124)	74.19% (92/124)	
	ljs0A (124)	15-25 (11)	15-25 (11)	16-22 (7)						
779	3bcpA (124)	108-116 (9)	112-113 (2)	112-113 (2)	C	0.54	0.91	83.87% (104/124)	69.35% (86/124)	
	ljs0A (124)	108-116 (9)	112-113 (2)	112-113 (2)						

780	3bcpA (124)	15-25 (11)	15-24 (10)	16-22 (7)	N	0.91	0.85	100.00% (122/122)	95.90% (117/122)	 <p>Seminal ribonuclease Ribonuclease, seminal</p>
	1r3mB (122)	15-25 (11)	15-24 (10)	16-22 (7)						
781	1js0A (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.43	0.78	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease A Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
782	1js0A (124)	112-115 (4)	112-113 (2)	112-113 (2)	C	0.56	0.74	83.87% (104/124)	69.35% (86/124)	 <p>Ribonuclease A Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	112-115 (4)	112-113 (2)	112-113 (2)						

783	ljs0A (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.73	0.78	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	ltq9A (124)	15-22 (8)	15-22 (8)	15-22 (8)						
784	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.57	0.66	83.87% (104/124)	69.35% (86/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	ltq9A (124)	112-113 (2)	112-113 (2)	112-113 (2)						
785	ljs0A (124)	111-113 (3)	112-113 (2)	112-113 (2)	C	0.76	0.79	100.00% (122/122)	81.15% (99/122)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	lr3mB (122)	111-113 (3)	112-113 (2)	112-113 (2)						

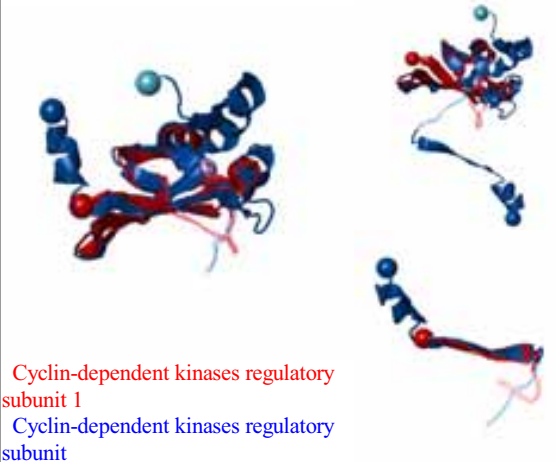
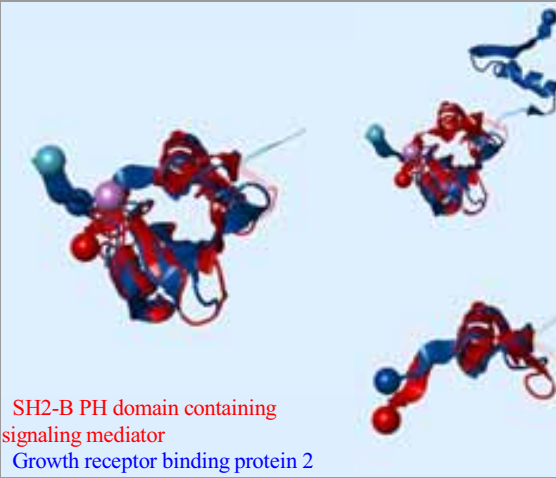
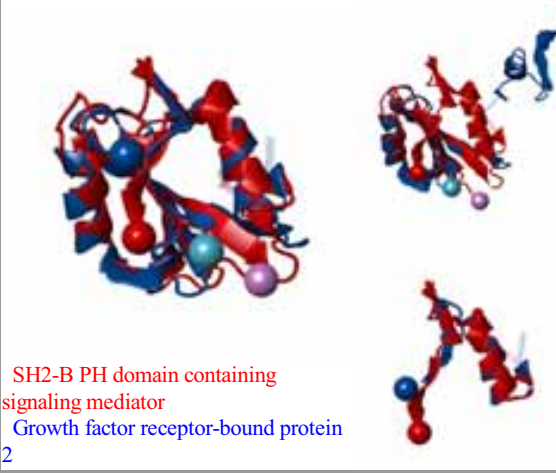
786	ljs0A (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.44	0.91	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1r5dA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
787	ljs0A (124)	112-113 (2)	112-113 (2)	112-113 (2)	C	0.53	0.70	83.06% (103/124)	68.55% (85/124)	 <p>Ribonuclease A Ribonuclease, seminal</p>
	1r5dA (124)	112-113 (2)	112-113 (2)	112-113 (2)						
788	ljs0A (124)	15-22 (8)	15-22 (8)	19-22 (4)	N	0.41	0.76	90.32% (112/124)	72.58% (90/124)	 <p>Ribonuclease A Protein (ribonuclease, seminal)</p>
	11baA (124)	15-22 (8)	15-22 (8)	19-22 (4)						

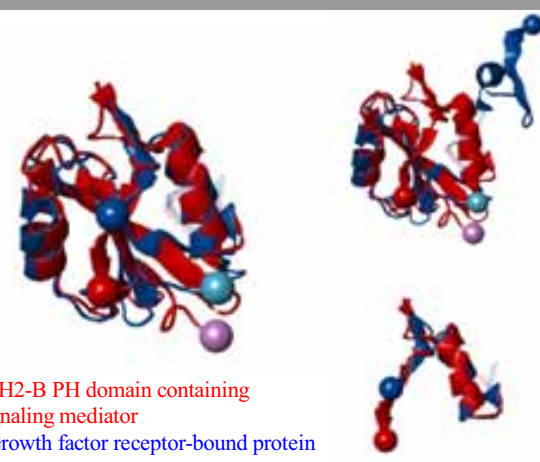
789	1js0A (124)	111-115 (5)	112-113 (2)	112-113 (2)	C	0.57	0.50	83.06% (103/124)	68.55% (85/124)	 <p>Ribonuclease A Protein (ribonuclease, seminal)</p>
	1lbaA (124)	111-115 (5)	112-113 (2)	112-113 (2)						
790	1r5dA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.90	0.92	99.19% (123/124)	80.65% (100/124)	 <p>Ribonuclease, seminal Ribonuclease A</p>
	1a2wA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
791	1r5dA (124)	15-24 (10)	15-23 (9)	15-23 (9)	N	0.86	1.01	98.39% (122/124)	71.77% (89/124)	 <p>Ribonuclease, seminal Ribonuclease 1</p>
	1h8xA (125)	115-124 (10)	115-123 (9)	15-23 (9)						

792	1g85A (159)	121-123 (3)	121-123 (3)	121-123 (3)	C	0.76	0.88	97.32% (145/149)	92.62% (138/149)	  <p>Odorant-binding protein Odorant-binding protein</p>
	2hivA (149)	121-123 (3)	121-123 (3)	121-123 (3)						
793	1oy0A (248)	217-254 (38)	220-254 (35)	230-254 (25)	C	0.30	2.26	83.87% (208/248)	15.32% (38/248)	  <p>Ketopantoate hydroxymethyltransferase PA4872 oxaloacetate decarboxylase</p>
	3b8iA (283)	207-237 (31)	210-237 (28)	230-254 (25)						
794	1dktB (71)	60-74 (15)	60-65 (6)	60-65 (6)	C	0.79	1.18	100.00% (71/71)	84.51% (60/71)	  <p>Cyclin dependent kinase subunit, TYPE 1 Cyclin-dependent kinase subunit, TYPE 2</p>
	1cksB (78)	60-74 (15)	60-65 (6)	60-65 (6)						


795	1dktB (71)	56-65 (10)	56-63 (8)	57-63 (7)	C	0.50	1.31	95.77% (68/71)	53.52% (38/71)	  <p>Cyclin dependent kinase subunit, TYPE 1 Cyclin-dependent kinases regulatory subunit</p>
	1qb3C (109)	487-496 (10)	487-494 (8)	57-63 (7)						
796	1buhB (70)	59-65 (7)	59-65 (7)	60-65 (6)	C	0.79	1.11	100.00% (70/70)	84.29% (59/70)	  <p>Protein (ckshs1 human) Cyclin-dependent kinase subunit, TYPE 2</p>
	1cksB (78)	59-65 (7)	59-65 (7)	60-65 (6)						
797	1buhB (70)	56-64 (9)	57-64 (8)	57-63 (7)	C	0.49	1.59	98.57% (69/70)	55.71% (39/70)	  <p>Protein (ckshs1 human) Cyclin-dependent kinases regulatory subunit</p>
	1qb3C (109)	487-495 (9)	488-495 (8)	57-63 (7)						

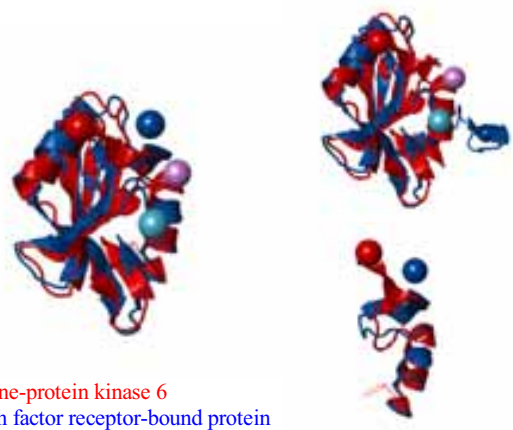
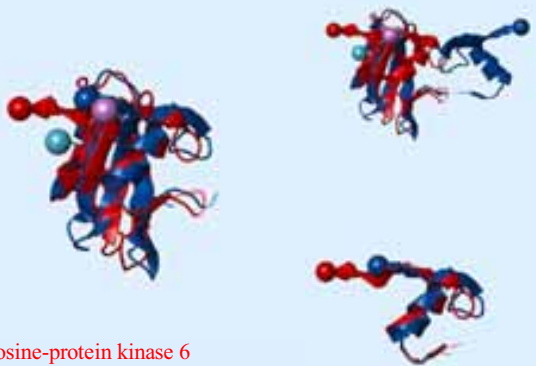
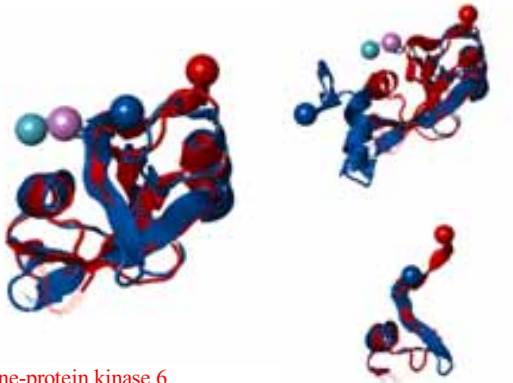
798	1dktA (72)	60-70 (11)	60-66 (7)	61-65 (5)	C	0.82	1.09	100.00% (72/72)	83.33% (60/72)	  Cyclin dependent kinase subunit, TYPE 1 Cyclin-dependent kinase subunit, TYPE 2
	1cksB (78)	60-70 (11)	60-66 (7)	61-65 (5)						
799	1dktA (72)	56-64 (9)	57-63 (7)	57-63 (7)	C	0.47	1.58	95.83% (69/72)	54.17% (39/72)	  Cyclin dependent kinase subunit, TYPE 1 Cyclin-dependent kinases regulatory subunit
	1qb3C (109)	487-495 (9)	488-494 (7)	57-63 (7)						
800	2astC (69)	3060-3065 (6)	3060-3065 (6)	3060-3065 (6)	C	0.79	1.01	100.00% (69/69)	84.06% (58/69)	  Cyclin-dependent kinases regulatory subunit 1 Cyclin-dependent kinase subunit, TYPE 2
	1cksB (78)	60-65 (6)	60-65 (6)	3060-3065 (6)						

801	2astC (69)	3056-3063 (8)	3057-3063 (7)	3057-3063 (7)	C	0.48	1.62	98.55% (68/69)	56.52% (39/69)	 <p>Cyclin-dependent kinases regulatory subunit 1 Cyclin-dependent kinases regulatory subunit</p>
	1qb3C (109)	487-494 (8)	488-494 (7)	3057-3063 (7)						
802	2hdxA (108)	587-593 (7)	587-593 (7)	588-593 (6)	C	0.57	2.00	94.90% (93/98)	23.47% (23/98)	 <p>SH2-B PH domain containing signaling mediator Growth receptor binding protein 2</p>
	2h46E (98)	118-124 (7)	118-124 (7)	588-593 (6)						
803	2hdxA (108)	568-593 (26)	579-593 (15)	588-593 (6)	C	0.61	1.82	96.88% (93/96)	21.88% (21/96)	 <p>SH2-B PH domain containing signaling mediator Growth factor receptor-bound protein 2</p>
	2h5kB (96)	99-124 (26)	110-124 (15)	588-593 (6)						

804	2hdxA (108)	531-596 (46)	588-593 (6)	588-593 (6)	C	0.45	1.83	96.77% (90/93)	22.58% (21/93)	 <p>SH2-B PH domain containing signaling mediator Growth factor receptor-bound protein 2</p>
	2aobB (93)	82-127 (46)	119-124 (6)	588-593 (6)						
805	2hdxA (108)	556-593 (38)	588-593 (6)	588-593 (6)	C	0.48	1.68	95.83% (92/96)	21.88% (21/96)	 <p>SH2-B PH domain containing signaling mediator Growth factor receptor-bound protein 2</p>
	2aobA (96)	87-124 (38)	119-124 (6)	588-593 (6)						
806	2hdxA (108)	560-593 (34)	588-593 (6)	588-593 (6)	C	0.48	1.62	96.77% (90/93)	22.58% (21/93)	 <p>SH2-B PH domain containing signaling mediator Growth factor receptor-bound protein 2</p>
	2aoaA (93)	91-124 (34)	119-124 (6)	588-593 (6)						

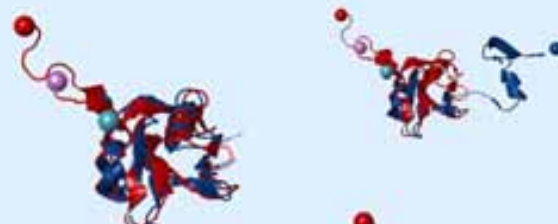
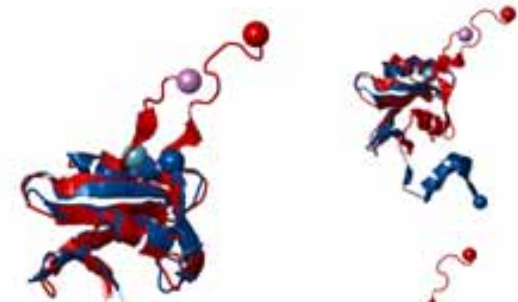
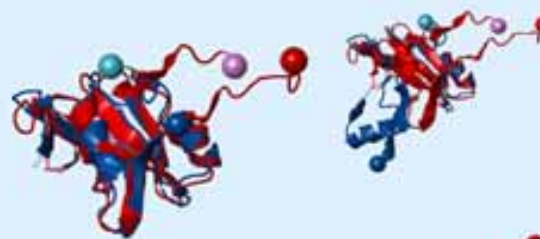
807	1p13A (102)	223-232 (10)	223-232 (10)	229-232 (4)	C	0.63	1.74	96.94% (95/98)	29.59% (29/98)	   Proto-oncogene tyrosine-protein kinase Src Growth receptor binding protein 2
	2h46E (98)	116-124 (9)	116-124 (9)	229-232 (4)						
808	1p13A (102)	219-232 (14)	223-232 (10)	228-232 (5)	C	0.66	1.65	97.92% (94/96)	29.17% (28/96)	   Proto-oncogene tyrosine-protein kinase Src Growth factor receptor-bound protein 2
	2h5kB (96)	112-124 (13)	116-124 (9)	228-232 (5)						
809	1p13A (102)	228-232 (5)	229-232 (4)	229-232 (4)	C	0.66	1.28	97.85% (91/93)	32.26% (30/93)	   Proto-oncogene tyrosine-protein kinase Src Growth factor receptor-bound protein 2
	2aobB (93)	121-124 (4)	122-124 (3)	229-232 (4)						

810	1p13A (102)	228-232 (5)	228-232 (5)	229-232 (4)	C	0.58	1.79	97.92% (94/96)	30.21% (29/96)	  Proto-oncogene tyrosine-protein kinase Src Growth factor receptor-bound protein 2
	2aobA (96)	121-124 (4)	121-124 (4)	229-232 (4)						
811	1p13A (102)	227-232 (6)	228-232 (5)	229-232 (4)	C	0.58	1.68	98.92% (92/93)	31.18% (29/93)	  Proto-oncogene tyrosine-protein kinase Src Growth factor receptor-bound protein 2
	2aoaA (93)	120-124 (5)	121-124 (4)	229-232 (4)						
812	1rjaA (100)	45-74 (30)	56-73 (18)	66-70 (5)	C	0.60	1.90	92.86% (91/98)	38.78% (38/98)	  Tyrosine-protein kinase 6 Growth receptor binding protein 2
	2h46E (98)	100-128 (29)	111-127 (17)	66-70 (5)						

813	IrjaA (100)	56-76 (21)	56-69 (14)	66-70 (5)	C	0.62	1.90	94.79% (91/96)	39.58% (38/96)	 <p>Tyrosine-protein kinase 6 Growth factor receptor-bound protein 2</p>
	2h5kB (96)	111-130 (20)	111-123 (13)	66-70 (5)						
814	IrjaA (100)	45-75 (31)	57-70 (14)	67-70 (4)	C	0.42	1.84	94.62% (88/93)	39.78% (37/93)	 <p>Tyrosine-protein kinase 6 Growth factor receptor-bound protein 2</p>
	2aobB (93)	100-129 (30)	112-124 (13)	67-70 (4)						
815	IrjaA (100)	45-75 (31)	57-70 (14)	66-70 (5)	C	0.43	1.62	92.71% (89/96)	38.54% (37/96)	 <p>Tyrosine-protein kinase 6 Growth factor receptor-bound protein 2</p>
	2aobA (96)	100-129 (30)	112-124 (13)	66-70 (5)						

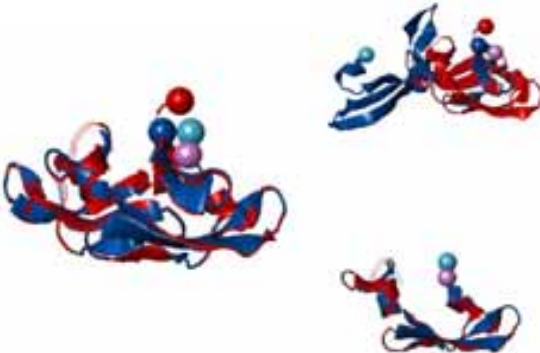
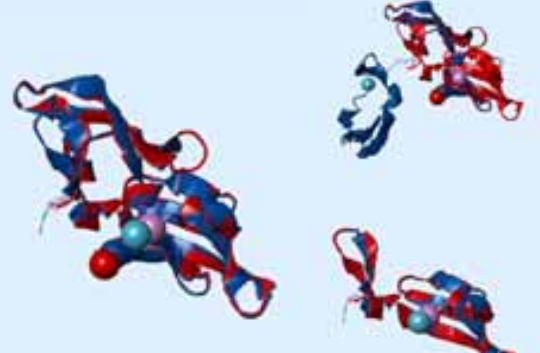

816	1rjaA (100)	45-72 (28)	57-72 (16)	66-70 (5)	C	0.43	1.72	95.70% (89/93)	38.71% (36/93)	  <p>Tyrosine-protein kinase 6 Growth factor receptor-bound protein 2</p>
	2aoaA (93)	100-126 (27)	112-126 (15)	66-70 (5)						
817	1r1pB (100)	120-122 (3)	120-122 (3)	120-122 (3)	C	0.83	0.97	96.94% (95/98)	52.04% (51/98)	  <p>GRB2-related adaptor protein 2 Growth receptor binding protein 2</p>
	2h46E (98)	121-123 (3)	121-123 (3)	120-122 (3)						
818	1r1pB (100)	117-125 (9)	118-122 (5)	120-122 (3)	C	0.84	0.79	96.88% (93/96)	53.13% (51/96)	  <p>GRB2-related adaptor protein 2 Growth factor receptor-bound protein 2</p>
	2h5kB (96)	118-126 (9)	119-123 (5)	120-122 (3)						

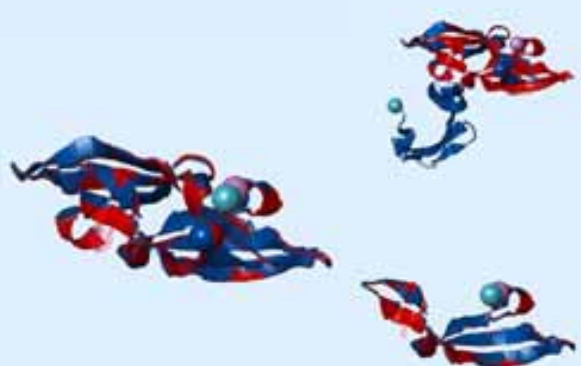
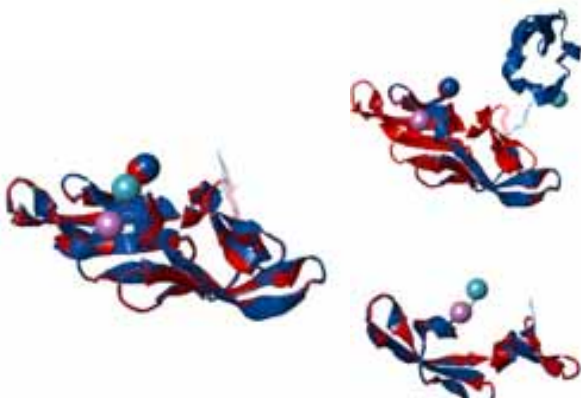
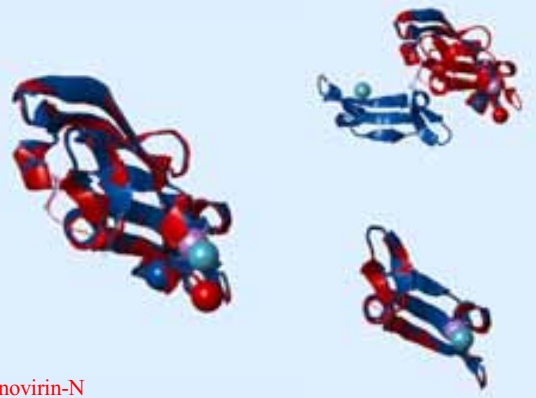
819	1r1pB (100)	120-123 (4)	120-123 (4)	120-122 (3)	C	0.75	1.22	96.77% (90/93)	53.76% (50/93)	 <p>GRB2-related adaptor protein 2 Growth factor receptor-bound protein 2</p>
	2aobB (93)	121-124 (4)	121-124 (4)	120-122 (3)						
820	1r1pB (100)	119-125 (7)	120-123 (4)	120-122 (3)	C	0.82	1.05	97.92% (94/96)	53.13% (51/96)	 <p>GRB2-related adaptor protein 2 Growth factor receptor-bound protein 2</p>
	2aobA (96)	120-126 (7)	121-124 (4)	120-122 (3)						
821	1r1pB (100)	120-123 (4)	120-123 (4)	120-122 (3)	C	0.82	0.98	98.92% (92/93)	55.91% (52/93)	 <p>GRB2-related adaptor protein 2 Growth factor receptor-bound protein 2</p>
	2aobA (93)	121-124 (4)	121-124 (4)	120-122 (3)						

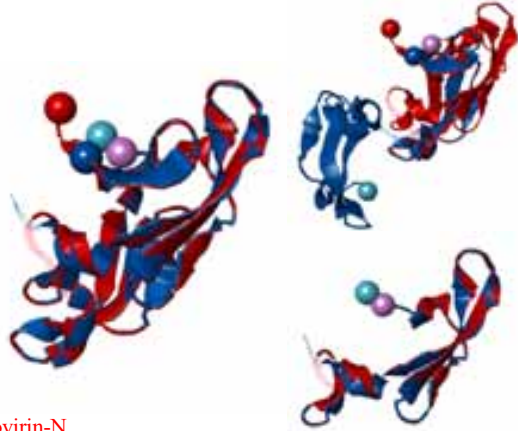
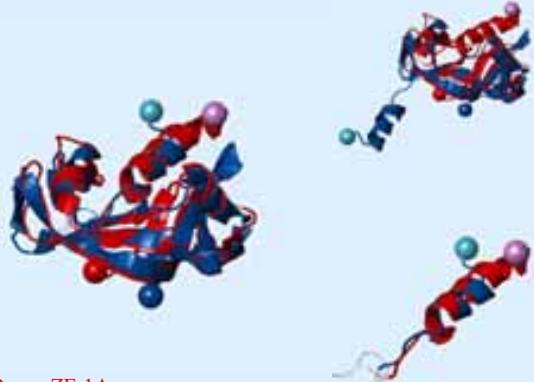
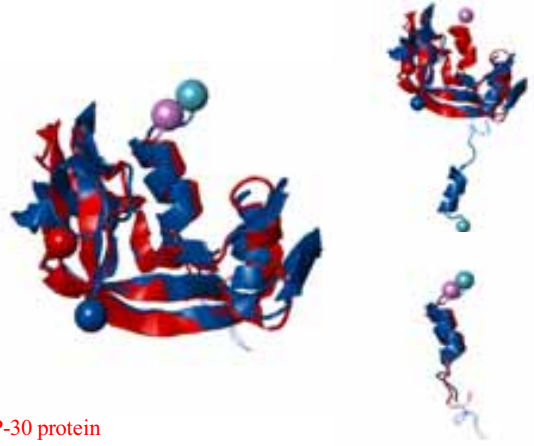
822	1fhsA (112)	61-76 (16)	61-74 (14)	70-73 (4)	C	0.45	1.73	97.92% (94/96)	90.63% (87/96)	 <p>Growth factor receptor bound protein-2 Growth factor receptor-bound protein 2</p>
	2h5kB (96)	112-127 (16)	112-125 (14)	70-73 (4)						
823	1fhsA (112)	57-76 (20)	58-74 (17)	69-72 (4)	C	0.29	1.50	98.92% (92/93)	95.70% (89/93)	 <p>Growth factor receptor bound protein-2 Growth factor receptor-bound protein 2</p>
	2aobB (93)	108-127 (20)	109-125 (17)	69-72 (4)						
824	1fhsA (112)	56-76 (21)	61-74 (14)	70-72 (3)	C	0.27	1.70	96.88% (93/96)	91.67% (88/96)	 <p>Growth factor receptor bound protein-2 Growth factor receptor-bound protein 2</p>
	2aobA (96)	107-127 (21)	112-125 (14)	70-72 (3)						

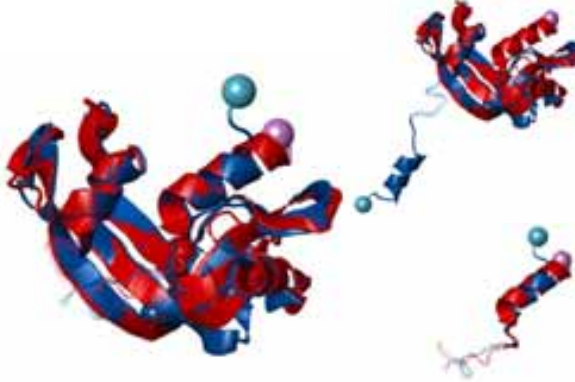
825	1fhsA (112)	61-80 (20)	61-76 (16)	69-73 (5)	C	0.26	1.57	97.85% (91/93)	92.47% (86/93)	  Growth factor receptor bound protein-2 Growth factor receptor-bound protein 2
	2aooA (93)	112-131 (20)	112-127 (16)	69-73 (5)						
826	2jziA (116)	35-55 (21)	50-55 (6)	50-55 (6)	C	0.54	1.27	99.01% (100/101)	25.74% (26/101)	  Cyanovirin-N homolog Cyanovirin-N
	115eA (101)	34-54 (21)	49-54 (6)	50-55 (6)						
827	2z21A (102)	49-54 (6)	49-54 (6)	50-54 (5)	N	0.91	0.79	99.01% (100/101)	94.06% (95/101)	  Cyanovirin-N Cyanovirin-N
	115eA (101)	49-54 (6)	49-54 (6)	50-54 (5)						

828	2z21A (102)	49-53 (5)	49-53 (5)	50-53 (4)	N	0.89	0.71	99.01% (100/101)	94.06% (95/101)	 Cyanovirin-N Cyanovirin-N
	1lomA (101)	49-53 (5)	49-53 (5)	50-53 (4)						
829	2rdkA (101)	49-54 (6)	49-54 (6)	50-54 (5)	N	0.90	0.79	98.02% (99/101)	93.07% (94/101)	 Cyanovirin-N Cyanovirin-N
	115eA (101)	49-54 (6)	49-54 (6)	50-54 (5)						
830	2rdkA (101)	49-53 (5)	49-53 (5)	50-53 (4)	N	0.83	0.69	98.02% (99/101)	93.07% (94/101)	 Cyanovirin-N Cyanovirin-N
	1lomA (101)	49-53 (5)	49-53 (5)	50-53 (4)						

831	2z21B (102)	49-56 (8)	49-54 (6)	50-54 (5)	N	0.90	0.74	98.02% (99/101)	93.07% (94/101)	 Cyanovirin-N Cyanovirin-N
	115eA (101)	49-56 (8)	49-54 (6)	50-54 (5)						
832	2z21B (102)	49-53 (5)	49-53 (5)	50-53 (4)	N	0.87	0.65	98.02% (99/101)	93.07% (94/101)	 Cyanovirin-N Cyanovirin-N
	11omA (101)	49-53 (5)	49-53 (5)	50-53 (4)						
833	2jzkA (103)	48-70 (23)	49-55 (7)	51-55 (5)	N	0.71	1.43	94.06% (95/101)	25.74% (26/101)	 Cyanovirin-N homolog Cyanovirin-N
	115eA (101)	47-68 (22)	48-54 (7)	51-55 (5)						

834	2rdkB (99)	49-57 (9)	49-54 (6)	50-54 (5)	N	0.91	0.73	98.99% (98/99)	93.94% (93/99)	 Cyanovirin-N Cyanovirin-N
	115eA (101)	49-57 (9)	49-54 (6)	50-54 (5)						
835	2rdkB (99)	49-53 (5)	49-53 (5)	50-53 (4)	N	0.90	0.64	98.99% (98/99)	93.94% (93/99)	 Cyanovirin-N Cyanovirin-N
	11omA (101)	49-53 (5)	49-53 (5)	50-53 (4)						
836	2pysB (103)	49-57 (9)	49-54 (6)	50-54 (5)	N	0.89	0.73	98.02% (99/101)	93.07% (94/101)	 Cyanovirin-N Cyanovirin-N
	115eA (101)	49-57 (9)	49-54 (6)	50-54 (5)						



837	2pysB (103)	49-53 (5)	49-53 (5)	50-53 (4)	N	0.86	0.63	98.02% (99/101)	93.07% (94/101)	 Cyanovirin-N Cyanovirin-N
	1lomA (101)	49-53 (5)	49-53 (5)	50-53 (4)						
838	2vq8A (128)	21-25 (5)	24-25 (2)	23-25 (3)	N	0.56	1.71	87.20% (109/125)	25.60% (32/125)	 Rnase ZF-1A Ribonuclease 1
	1h8xA (125)	117-125 (9)	120-125 (6)	23-25 (3)						
839	1pu3A (105)	8-19 (12)	13-19 (7)	16-19 (4)	N	0.56	1.58	92.38% (97/105)	21.90% (23/105)	 P-30 protein Ribonuclease 1
	1h8xA (125)	109-125 (17)	114-125 (12)	16-19 (4)						

840	1un4A (119)	14-24 (11)	15-24 (10)	17-24 (8)	N	0.65	1.48	92.44% (110/119)	34.45% (41/119)	 Angiogenin Ribonuclease 1
	1h8xA (125)	113-124 (12)	114-124 (11)	17-24 (8)						
841	1mfA (120)	16-24 (9)	16-23 (8)	16-23 (8)	N	0.73	1.37	95.83% (115/120)	41.67% (50/120)	 Protein (ribonuclease 4) Ribonuclease 1
	1h8xA (125)	116-125 (10)	116-124 (9)	16-23 (8)						
842	2j4tA (119)	12-24 (13)	16-23 (8)	16-23 (8)	N	0.68	1.56	94.96% (113/119)	36.13% (43/119)	 Angiogenin-4 Ribonuclease 1
	1h8xA (125)	112-125 (14)	116-124 (9)	16-23 (8)						

843	1b1eA (123)	13-24 (12)	17-24 (8)	17-24 (8)	N	0.63	1.63	91.06% (112/123)	32.52% (40/123)	 <p>Hydrolase angiogenin Ribonuclease 1</p>
	1h8xA (125)	112-124 (13)	116-124 (9)	17-24 (8)						
844	2hkyA (129)	11-22 (12)	11-22 (12)	16-22 (7)	N	0.57	1.78	88.80% (111/125)	33.60% (42/125)	 <p>Ribonuclease 7 Ribonuclease 1</p>
	1h8xA (125)	108-125 (18)	108-125 (18)	16-22 (7)						
845	1m58A (106)	12-19 (8)	12-19 (8)	15-19 (5)	N	0.50	2.07	93.40% (99/106)	23.58% (25/106)	 <p>RC-mase2 ribonuclease Ribonuclease 1</p>
	1h8xA (125)	113-125 (13)	113-125 (13)	15-19 (5)						

846	2e0oB (125)	16-24 (9)	16-24 (9)	17-24 (8)	N	0.85	0.95	96.80% (121/125)	86.40% (108/125)	  Ribonuclease Ribonuclease 1
	1h8xA (125)	116-124 (9)	116-124 (9)	17-24 (8)						
847	1ymnA (124)	15-24 (10)	15-23 (9)	17-23 (7)	N	0.84	1.13	98.39% (122/124)	69.35% (86/124)	  Ribonuclease pancreatic Ribonuclease 1
	1h8xA (125)	115-124 (10)	115-123 (9)	17-23 (7)						
848	1a5pA (124)	15-24 (10)	15-23 (9)	17-23 (7)	N	0.85	1.05	98.39% (122/124)	68.55% (85/124)	  Ribonuclease A Ribonuclease 1
	1h8xA (125)	115-124 (10)	115-123 (9)	17-23 (7)						

849	2bw1A (118)	13-24 (12)	15-24 (10)	17-24 (8)	N	0.68	1.56	95.76% (113/118)	37.29% (44/118)	 <p>Angiogenin Ribonuclease 1</p>
	1h8xA (125)	112-124 (13)	114-124 (11)	17-24 (8)						
850	1gv7A (123)	12-24 (13)	17-24 (8)	17-24 (8)	N	0.68	1.67	95.12% (117/123)	40.65% (50/123)	 <p>Angiogenin Ribonuclease 1</p>
	1h8xA (125)	111-124 (14)	116-124 (9)	17-24 (8)						
851	1rraA (124)	16-23 (8)	17-23 (7)	17-23 (7)	N	0.84	1.14	98.39% (122/124)	62.10% (77/124)	 <p>Protein (ribonuclease) Ribonuclease 1</p>
	1h8xA (125)	116-123 (8)	117-123 (7)	17-23 (7)						

852	2q4gX (126)	15-25 (11)	15-24 (10)	17-23 (7)	N	0.83	1.11	97.60% (122/125)	89.60% (112/125)	 
	1h8xA (125)	115-125 (11)	115-124 (10)	17-23 (7)						
853	2k11A (127)	10-30 (21)	10-24 (15)	15-23 (9)	N	0.73	1.58	97.60% (122/125)	89.60% (112/125)	 
	1h8xA (125)	110-130 (21)	110-124 (15)	15-23 (9)						
854	2aasA (124)	12-25 (14)	12-25 (14)	20-25 (6)	N	0.78	1.32	96.77% (120/124)	70.16% (87/124)	 
	1h8xA (125)	112-125 (14)	112-125 (14)	20-25 (6)						

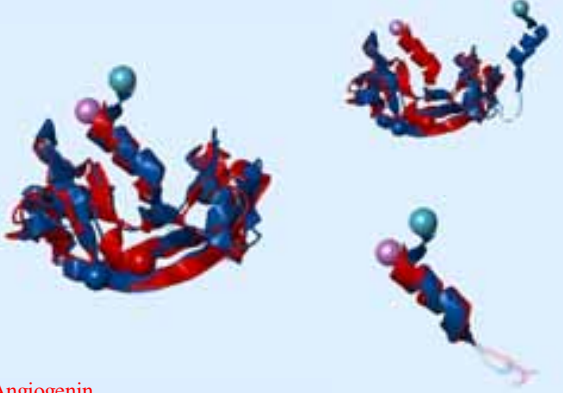
855	2nuiA (124)	15-24 (10)	15-23 (9)	16-23 (8)	N	0.86	1.04	98.39% (122/124)	68.55% (85/124)	  <p>Ribonuclease pancreatic Ribonuclease 1</p>
	1h8xA (125)	115-124 (10)	115-123 (9)	16-23 (8)						
856	1qwqA (124)	12-24 (13)	12-24 (13)	19-24 (6)	N	0.68	1.68	95.16% (118/124)	70.97% (88/124)	  <p>Ribonuclease Ribonuclease 1</p>
	1h8xA (125)	112-124 (13)	112-124 (13)	19-24 (6)						
857	lizpA (124)	15-23 (9)	15-23 (9)	20-23 (4)	N	0.86	0.95	97.58% (121/124)	68.55% (85/124)	  <p>Ribonuclease A Ribonuclease 1</p>
	1h8xA (125)	115-123 (9)	115-123 (9)	20-23 (4)						

858	2vq8A (128)	17-25 (9)	19-25 (7)	19-25 (7)	N	0.39	1.67	87.10% (108/124)	22.58% (28/124)	 <p>Rnase ZF-1A Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	13-25 (13)	15-25 (11)	19-25 (7)						
859	2vq8A (128)	19-25 (7)	19-25 (7)	23-25 (3)	N	0.34	1.69	87.90% (109/124)	23.39% (29/124)	 <p>Rnase ZF-1A Seminal ribonuclease</p>
	1y92B (124)	15-25 (11)	15-25 (11)	23-25 (3)						
860	2vq8A (128)	19-25 (7)	19-25 (7)	19-25 (7)	N	0.38	1.78	87.90% (109/124)	22.58% (28/124)	 <p>Rnase ZF-1A Seminal ribonuclease</p>
	3bcoA (124)	15-25 (11)	15-25 (11)	19-25 (7)						

861	2vq8A (128)	17-25 (9)	19-25 (7)	19-25 (7)	N	0.36	1.76	87.90% (109/124)	22.58% (28/124)	  Rnase ZF-1A Seminal ribonuclease
	1y94A (124)	13-25 (13)	15-25 (11)	19-25 (7)						
862	1kvzA (107)	13-42 (30)	13-22 (10)	14-20 (7)	N	0.35	2.11	92.52% (99/107)	24.30% (26/107)	  RC-mase4 Protein (bovine seminal ribonuclease)
	11bgA (124)	14-51 (38)	14-28 (15)	14-20 (7)						
863	1kvzA (107)	9-42 (34)	11-22 (12)	13-20 (8)	N	0.30	2.04	91.59% (98/107)	23.36% (25/107)	  RC-mase4 Seminal ribonuclease
	1y92B (124)	9-51 (43)	11-28 (18)	13-20 (8)						

864	1kvzA (107)	13-43 (31)	13-22 (10)	14-20 (7)	N	0.37	2.10	92.52% (99/107)	24.30% (26/107)	 RC-mase4 Seminal ribonuclease
	3bcoA (124)	14-52 (39)	14-28 (15)	14-20 (7)						
865	1kvzA (107)	13-42 (30)	13-20 (8)	14-20 (7)	N	0.35	2.15	93.46% (100/107)	24.30% (26/107)	 RC-mase4 Seminal ribonuclease
	1y94A (124)	14-51 (38)	14-26 (13)	14-20 (7)						
866	1pu3A (105)	12-19 (8)	13-19 (7)	13-19 (7)	N	0.37	1.82	93.33% (98/105)	23.81% (25/105)	 P-30 protein Protein (bovine seminal ribonuclease)
	11bgA (124)	13-25 (13)	14-25 (12)	13-19 (7)						

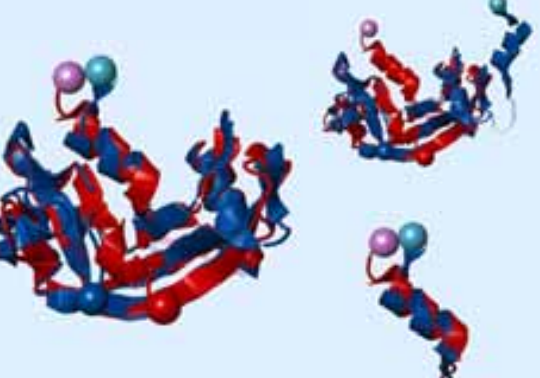
867	1pu3A (105)	8-19 (12)	13-19 (7)	13-19 (7)	N	0.35	1.77	93.33% (98/105)	23.81% (25/105)	 <p>P-30 protein Seminal ribonuclease</p>
	1y92B (124)	9-25 (17)	14-25 (12)	13-19 (7)						
868	1pu3A (105)	8-21 (14)	13-19 (7)	13-19 (7)	N	0.36	1.68	92.38% (97/105)	23.81% (25/105)	 <p>P-30 protein Seminal ribonuclease</p>
	3bcoA (124)	9-27 (19)	14-25 (12)	13-19 (7)						
869	1pu3A (105)	8-21 (14)	13-19 (7)	13-19 (7)	N	0.36	1.63	92.38% (97/105)	23.81% (25/105)	 <p>P-30 protein Seminal ribonuclease</p>
	1y94A (124)	9-27 (19)	14-25 (12)	13-19 (7)						

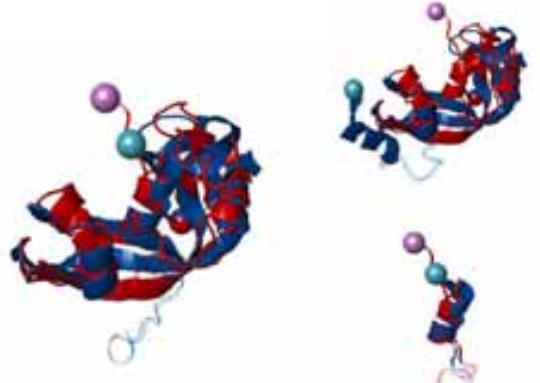
870	1un4A (119)	14-24 (11)	15-24 (10)	16-22 (7)	N	0.52	1.37	93.28% (111/119)	32.77% (39/119)	 <p>Angiogenin Protein (bovine seminal ribonuclease)</p>
	1lbgA (124)	13-24 (12)	14-24 (11)	16-22 (7)						
871	1un4A (119)	15-24 (10)	16-24 (9)	19-22 (4)	N	0.50	1.35	93.28% (111/119)	30.25% (36/119)	 <p>Angiogenin Seminal ribonuclease</p>
	1y92B (124)	14-24 (11)	15-24 (10)	19-22 (4)						
872	1un4A (119)	15-24 (10)	15-24 (10)	16-22 (7)	N	0.49	1.50	94.12% (112/119)	31.93% (38/119)	 <p>Angiogenin Seminal ribonuclease</p>
	3bcoA (124)	14-24 (11)	14-24 (11)	16-22 (7)						







873	1un4A (119)	14-24 (11)	15-24 (10)	16-22 (7)	N	0.48	1.47	93.28% (111/119)	31.09% (37/119)	 <p>Angiogenin Seminal ribonuclease</p>
	1y94A (124)	13-24 (12)	14-24 (11)	16-22 (7)						
874	1mfA (120)	15-24 (10)	15-23 (9)	18-22 (5)	N	0.51	1.41	97.50% (117/120)	43.33% (52/120)	 <p>Protein (ribonuclease 4) Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	15-25 (11)	15-24 (10)	18-22 (5)						
875	1mfA (120)	15-24 (10)	17-23 (7)	18-23 (6)	N	0.56	1.20	96.67% (116/120)	42.50% (51/120)	 <p>Protein (ribonuclease 4) Seminal ribonuclease</p>
	1y92B (124)	15-25 (11)	17-24 (8)	18-23 (6)						

876	1mfA (120)	15-24 (10)	15-23 (9)	15-22 (8)	N	0.51	1.40	97.50% (117/120)	41.67% (50/120)	 
	3bcoA (124)	15-25 (11)	15-24 (10)	15-22 (8)						
877	1mfA (120)	15-24 (10)	15-23 (9)	18-22 (5)	N	0.46	1.41	97.50% (117/120)	42.50% (51/120)	 
	1y94A (124)	15-25 (11)	15-24 (10)	18-22 (5)						
878	2j4tA (119)	12-24 (13)	15-23 (9)	15-21 (7)	N	0.52	1.29	94.12% (112/119)	34.45% (41/119)	 
	11bgA (124)	12-25 (14)	15-24 (10)	15-21 (7)						

879	2j4tA (119)	13-24 (12)	15-23 (9)	18-21 (4)	N	0.51	1.40	94.96% (113/119)	33.61% (40/119)	 <p>Angiogenin-4 Seminal ribonuclease</p>
	1y92B (124)	13-25 (13)	15-24 (10)	18-21 (4)						
880	2j4tA (119)	12-24 (13)	15-23 (9)	15-21 (7)	N	0.50	1.43	94.96% (113/119)	33.61% (40/119)	 <p>Angiogenin-4 Seminal ribonuclease</p>
	3bcoA (124)	12-25 (14)	15-24 (10)	15-21 (7)						
881	2j4tA (119)	13-23 (12)	14-23 (10)	15-21 (7)	N	0.49	1.34	94.12% (112/119)	33.61% (40/119)	 <p>Angiogenin-4 Seminal ribonuclease</p>
	1y94A (124)	12-24 (13)	14-24 (11)	15-21 (7)						

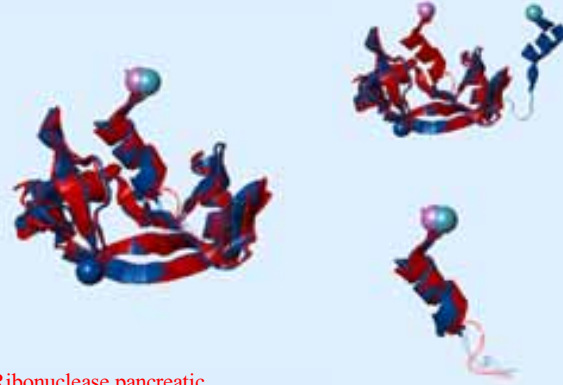
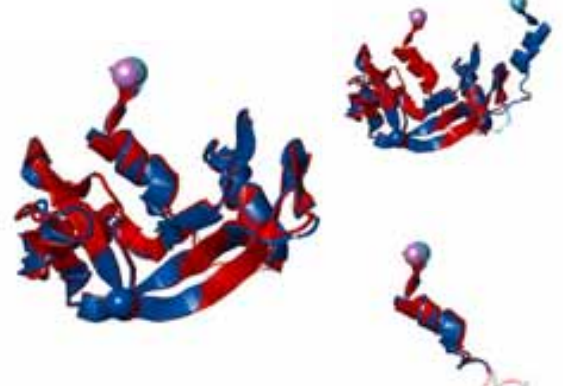
882	1b1eA (123)	14-24 (11)	15-24 (10)	16-22 (7)	N	0.48	1.34	90.24% (111/123)	30.89% (38/123)	
	11bgA (124)	13-24 (12)	14-24 (11)	16-22 (7)						
883	1b1eA (123)	14-24 (11)	16-24 (9)	19-22 (4)	N	0.48	1.46	91.06% (112/123)	28.46% (35/123)	
	1y92B (124)	13-24 (12)	15-24 (10)	19-22 (4)						
884	1b1eA (123)	14-25 (12)	15-24 (10)	16-22 (7)	N	0.45	1.39	90.24% (111/123)	28.46% (35/123)	
	3bcoA (124)	13-25 (13)	14-24 (11)	16-22 (7)						

885	1b1eA (123)	13-24 (12)	15-24 (10)	16-23 (8)	N	0.44	1.37	89.43% (110/123)	28.46% (35/123)	 <p>Hydrolase angiogenin Seminal ribonuclease</p>
	1y94A (124)	12-24 (13)	14-24 (11)	16-23 (8)						
886	2hkyA (129)	11-22 (12)	11-22 (12)	16-22 (7)	N	0.33	1.91	91.13% (113/124)	35.48% (44/124)	 <p>Ribonuclease 7 Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	8-25 (18)	8-25 (18)	16-22 (7)						
887	2hkyA (129)	11-22 (12)	15-22 (8)	17-22 (6)	N	0.31	1.68	91.13% (113/124)	35.48% (44/124)	 <p>Ribonuclease 7 Seminal ribonuclease</p>
	1y92B (124)	8-25 (18)	12-25 (14)	17-22 (6)						

888	2hkyA (129)	11-22 (12)	11-22 (12)	17-22 (6)	N	0.28	1.86	91.13% (113/124)	35.48% (44/124)	 
	3bcoA (124)	8-25 (18)	8-25 (18)	17-22 (6)						
889	2hkyA (129)	11-22 (12)	11-22 (12)	16-22 (7)	N	0.31	1.82	91.13% (113/124)	36.29% (45/124)	 
	1y94A (124)	8-25 (18)	8-25 (18)	16-22 (7)						
890	1m58A (106)	12-19 (8)	12-19 (8)	17-19 (3)	N	0.37	1.97	91.51% (97/106)	23.58% (25/106)	 
	11bgA (124)	13-25 (13)	13-25 (13)	17-19 (3)						

891	1m58A (106)	12-19 (8)	12-19 (8)	13-19 (7)	N	0.37	2.06	93.40% (99/106)	23.58% (25/106)	
	1y92B (124)	13-25 (13)	13-25 (13)	13-19 (7)						
892	1m58A (106)	12-19 (8)	12-19 (8)	18-19 (2)	N	0.34	2.08	92.45% (98/106)	23.58% (25/106)	
	3bcoA (124)	13-25 (13)	13-25 (13)	18-19 (2)						
893	1m58A (106)	12-19 (8)	12-19 (8)	13-19 (7)	N	0.36	2.02	92.45% (98/106)	23.58% (25/106)	
	1y94A (124)	13-25 (13)	13-25 (13)	13-19 (7)						

894	2e0oB (125)	15-24 (10)	15-24 (10)	17-23 (7)	N	0.57	1.01	99.19% (123/124)	69.35% (86/124)	 
	11bgA (124)	15-24 (10)	15-24 (10)	17-23 (7)						
895	2e0oB (125)	15-24 (10)	15-24 (10)	18-23 (6)	N	0.58	0.89	100.00% (124/124)	70.16% (87/124)	 
	1y92B (124)	15-24 (10)	15-24 (10)	18-23 (6)						
896	2e0oB (125)	15-24 (10)	15-24 (10)	18-23 (6)	N	0.51	0.93	99.19% (123/124)	69.35% (86/124)	 
	3bc0A (124)	15-24 (10)	15-24 (10)	18-23 (6)						

897	2e0oB (125)	15-25 (11)	20-24 (5)	15-23 (9)	N	0.49	0.98	99.19% (123/124)	68.55% (85/124)	 <p>Ribonuclease Seminal ribonuclease</p>
	1y94A (124)	15-25 (11)	20-24 (5)	15-23 (9)						
898	1ymnA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.55	1.10	100.00% (124/124)	80.65% (100/124)	 <p>Ribonuclease pancreatic Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
899	1ymnA (124)	15-23 (9)	15-23 (9)	17-22 (6)	N	0.65	0.99	100.00% (124/124)	80.65% (100/124)	 <p>Ribonuclease pancreatic Seminal ribonuclease</p>
	1y92B (124)	15-23 (9)	15-23 (9)	17-22 (6)						

900	1ymnA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.55	1.09	100.00% (124/124)	81.45% (101/124)	 <p>Ribonuclease pancreatic Seminal ribonuclease</p>
	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
901	1ymnA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.51	1.15	100.00% (124/124)	83.06% (103/124)	 <p>Ribonuclease pancreatic Seminal ribonuclease</p>
	1y94A (124)	15-22 (8)	15-22 (8)	15-22 (8)						
902	1a5pA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.55	0.91	100.00% (124/124)	79.84% (99/124)	 <p>Ribonuclease A Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)						

903	1a5pA (124)	15-23 (9)	21-23 (3)	17-22 (6)	N	0.65	0.89	100.00% (124/124)	79.84% (99/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	1y92B (124)	15-23 (9)	21-23 (3)	17-22 (6)						
904	1a5pA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.57	0.89	100.00% (124/124)	80.65% (100/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
905	1a5pA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.55	0.97	100.00% (124/124)	82.26% (102/124)	 <p>Ribonuclease A Seminal ribonuclease</p>
	1y94A (124)	15-22 (8)	15-22 (8)	15-22 (8)						

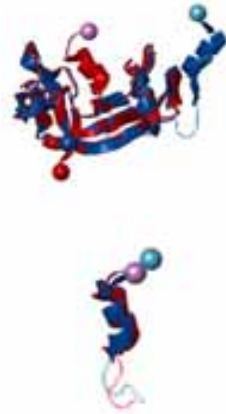
906	1z5fA (105)	1-32 (32)	10-18 (9)	17-18 (2)	N	0.30	2.32	91.43% (96/105)	21.90% (23/105)	 
	11bgA (124)	1-42 (42)	12-25 (14)	17-18 (2)						
907	1z5fA (105)	2-32 (31)	11-18 (8)	11-18 (8)	N	0.39	2.27	91.43% (96/105)	20.95% (22/105)	 
	1y92B (124)	3-42 (40)	12-25 (14)	11-18 (8)						
908	1z5fA (105)	2-32 (31)	11-18 (8)	12-18 (7)	N	0.34	2.47	92.38% (97/105)	20.00% (21/105)	 
	3bcoA (124)	3-42 (40)	12-25 (14)	12-18 (7)						

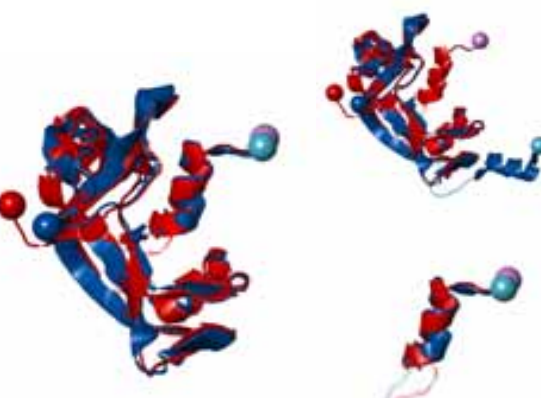
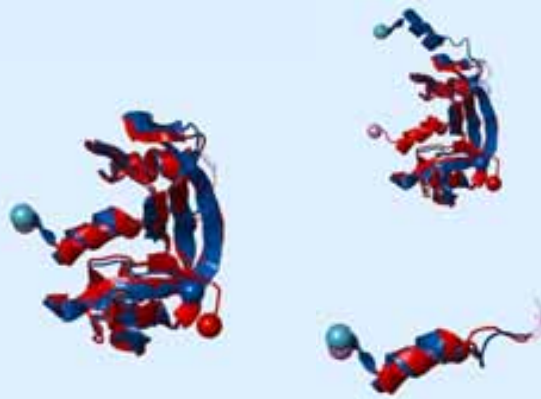
909	2bw1A (118)	15-24 (10)	15-24 (10)	16-23 (8)	N	0.42	1.46	95.76% (113/118)	35.59% (42/118)	 <p>Angiogenin Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	14-24 (11)	14-24 (11)	16-23 (8)						
910	2bw1A (118)	15-24 (10)	17-24 (8)	18-24 (7)	N	0.45	1.59	96.61% (114/118)	34.75% (41/118)	 <p>Angiogenin Seminal ribonuclease</p>
	1y92B (124)	14-24 (11)	16-24 (9)	18-24 (7)						
911	2bw1A (118)	15-24 (10)	15-24 (10)	16-23 (8)	N	0.39	1.54	95.76% (113/118)	35.59% (42/118)	 <p>Angiogenin Seminal ribonuclease</p>
	3bcoA (124)	14-24 (11)	14-24 (11)	16-23 (8)						

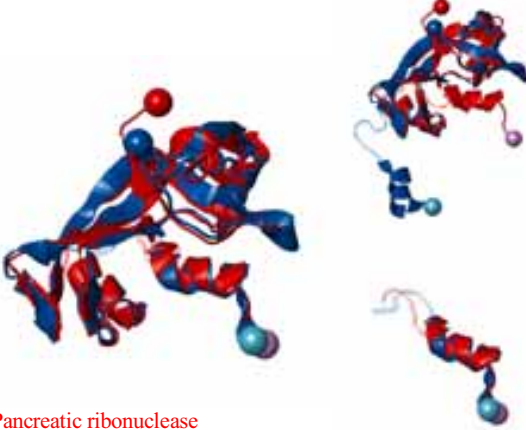
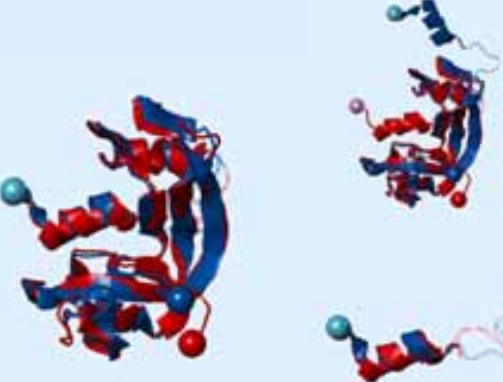
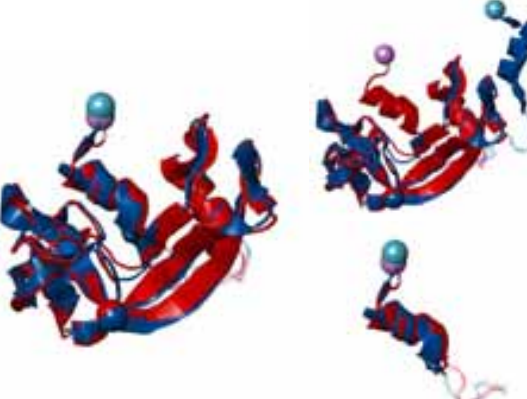
912	2bw1A (118)	15-24 (10)	15-24 (10)	16-23 (8)	N	0.45	1.42	94.92% (112/118)	33.90% (40/118)	  Angiogenin Seminal ribonuclease
	1y94A (124)	14-24 (11)	14-24 (11)	16-23 (8)						
913	1gv7A (123)	12-24 (13)	16-24 (9)	16-22 (7)	N	0.46	1.42	95.12% (117/123)	40.65% (50/123)	  Angiogenin Protein (bovine seminal ribonuclease)
	11bgA (124)	11-24 (14)	15-24 (10)	16-22 (7)						
914	1gv7A (123)	12-24 (13)	16-24 (9)	18-24 (7)	N	0.52	1.28	93.50% (115/123)	39.02% (48/123)	  Angiogenin Seminal ribonuclease
	1y92B (124)	11-24 (14)	15-24 (10)	18-24 (7)						

915	1gv7A (123)	11-25 (15)	16-24 (9)	16-23 (8)	N	0.47	1.36	93.50% (115/123)	39.84% (49/123)	  Angiogenin Seminal ribonuclease
	3bcoA (124)	10-25 (16)	15-24 (10)	16-23 (8)						
916	1gv7A (123)	11-24 (14)	15-24 (10)	16-23 (8)	N	0.47	1.36	93.50% (115/123)	39.84% (49/123)	  Angiogenin Seminal ribonuclease
	1y94A (124)	10-24 (15)	14-24 (11)	16-23 (8)						
917	1rraA (124)	15-24 (10)	15-22 (8)	15-22 (8)	N	0.54	1.18	100.00% (124/124)	66.13% (82/124)	  Protein (ribonuclease) Protein (bovine seminal ribonuclease)
	11bgA (124)	15-24 (10)	15-22 (8)	15-22 (8)						

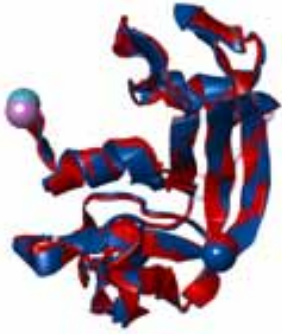



918	IrraA (124)	20-23 (4)	20-23 (4)	21-22 (2)	N	0.55	0.76	100.00% (124/124)	65.32% (81/124)	 <p>Protein (ribonuclease) Seminal ribonuclease</p>
	1y92B (124)	20-23 (4)	20-23 (4)	21-22 (2)						
919	IrraA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.54	1.13	100.00% (124/124)	66.13% (82/124)	 <p>Protein (ribonuclease) Seminal ribonuclease</p>
	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
920	IrraA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.53	1.16	100.00% (124/124)	65.32% (81/124)	 <p>Protein (ribonuclease) Seminal ribonuclease</p>
	1y94A (124)	15-22 (8)	15-22 (8)	15-22 (8)						

921	2q4gX (126)	15-25 (11)	15-22 (8)	15-22 (8)	N	0.52	0.85	98.39% (122/124)	69.35% (86/124)	 
	11bgA (124)	15-25 (11)	15-22 (8)	15-22 (8)						
922	2q4gX (126)	14-25 (12)	19-24 (6)	20-22 (3)	N	0.59	0.75	99.19% (123/124)	70.16% (87/124)	 
	1y92B (124)	14-25 (12)	19-24 (6)	20-22 (3)						
923	2q4gX (126)	15-24 (10)	15-22 (8)	15-22 (8)	N	0.53	0.95	99.19% (123/124)	70.97% (88/124)	 
	3bcoA (124)	15-24 (10)	15-22 (8)	15-22 (8)						

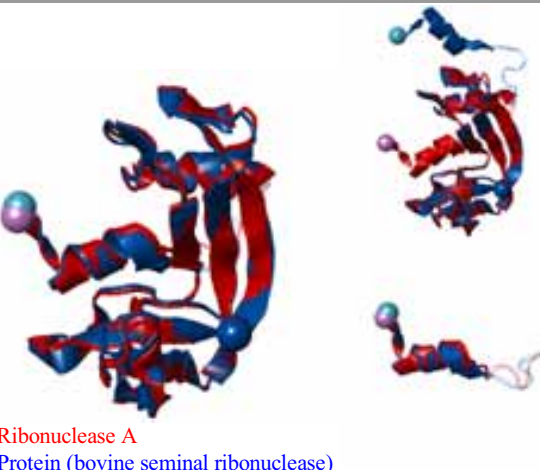
924	2q4gX (126)	15-25 (11)	15-22 (8)	15-22 (8)	N	0.49	1.03	99.19% (123/124)	69.35% (86/124)	
	1y94A (124)	15-25 (11)	15-22 (8)	15-22 (8)						
925	2k11A (127)	10-32 (23)	10-24 (15)	14-24 (11)	N	0.53	1.31	97.58% (121/124)	67.74% (84/124)	
	11bgA (124)	10-32 (23)	10-24 (15)	14-24 (11)						
926	2k11A (127)	10-32 (23)	19-24 (6)	19-23 (5)	N	0.45	1.43	100.00% (124/124)	70.97% (88/124)	
	1y92B (124)	10-32 (23)	19-24 (6)	19-23 (5)						

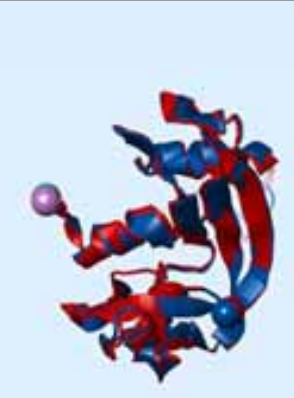
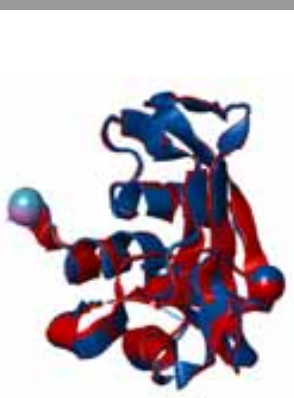
927	2k11A (127)	10-24 (15)	10-24 (15)	14-24 (11)	N	0.48	1.31	97.58% (121/124)	68.55% (85/124)	 Pancreatic ribonuclease Seminal ribonuclease
	3bcoA (124)	10-24 (15)	10-24 (15)	14-24 (11)						
928	2k11A (127)	10-32 (23)	10-24 (15)	14-23 (10)	N	0.48	1.33	97.58% (121/124)	67.74% (84/124)	 Pancreatic ribonuclease Seminal ribonuclease
	1y94A (124)	10-32 (23)	10-24 (15)	14-23 (10)						
929	2aasA (124)	11-24 (14)	12-24 (13)	15-24 (10)	N	0.49	1.42	100.00% (124/124)	81.45% (101/124)	 Ribonuclease A Protein (bovine seminal ribonuclease)
	11bgA (124)	11-24 (14)	12-24 (13)	15-24 (10)						

930	2aasA (124)	10-24 (15)	21-24 (4)	17-24 (8)	N	0.61	1.38	100.00% (124/124)	81.45% (101/124)	 Ribonuclease A Seminal ribonuclease
	1y92B (124)	10-24 (15)	21-24 (4)	17-24 (8)						
931	2aasA (124)	12-24 (13)	12-24 (13)	19-24 (6)	N	0.51	1.41	100.00% (124/124)	82.26% (102/124)	 Ribonuclease A Seminal ribonuclease
	3bcoA (124)	12-24 (13)	12-24 (13)	19-24 (6)						
932	2aasA (124)	12-24 (13)	12-24 (13)	15-24 (10)	N	0.52	1.47	100.00% (124/124)	83.87% (104/124)	 Ribonuclease A Seminal ribonuclease
	1y94A (124)	12-24 (13)	12-24 (13)	15-24 (10)						

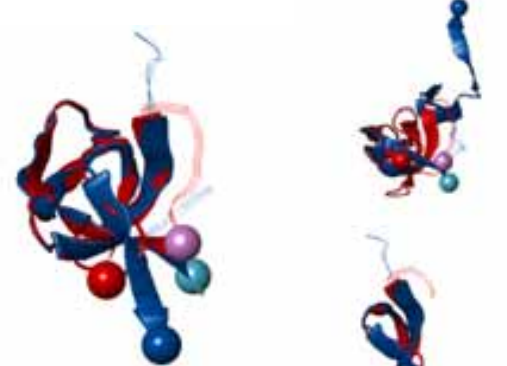
933	2nuiA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.60	0.84	100.00% (124/124)	80.65% (100/124)	 
	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
934	2nuiA (124)	15-23 (9)	15-23 (9)	17-22 (6)	N	0.66	0.87	100.00% (124/124)	80.65% (100/124)	 
	1y92B (124)	15-23 (9)	15-23 (9)	17-22 (6)						
935	2nuiA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.58	0.83	100.00% (124/124)	81.45% (101/124)	 
	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)						

936	2nuiA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.56	0.89	100.00% (124/124)	83.06% (103/124)	 <p>Ribonuclease pancreatic Seminal ribonuclease</p>
	1y94A (124)	15-22 (8)	15-22 (8)	15-22 (8)						
937	1qwqA (124)	12-29 (18)	12-24 (13)	13-24 (12)	N	0.65	1.79	97.58% (121/124)	92.74% (115/124)	 <p>Ribonuclease Protein (bovine seminal ribonuclease)</p>
	11bgA (124)	12-29 (18)	12-24 (13)	13-24 (12)						
938	1qwqA (124)	12-26 (15)	12-24 (13)	19-24 (6)	N	0.54	1.59	99.19% (123/124)	98.39% (122/124)	 <p>Ribonuclease Seminal ribonuclease</p>
	1y92B (124)	12-26 (15)	12-24 (13)	19-24 (6)						

939	1qwqA (124)	12-29 (18)	12-24 (13)	13-24 (12)	N	0.62	1.78	97.58% (121/124)	92.74% (115/124)	 Ribonuclease Seminal ribonuclease
	3bcoA (124)	12-29 (18)	12-24 (13)	13-24 (12)						
940	1qwqA (124)	12-24 (13)	12-24 (13)	13-24 (12)	N	0.63	1.79	98.39% (122/124)	95.97% (119/124)	 Ribonuclease Seminal ribonuclease
	1y94A (124)	12-24 (13)	12-24 (13)	13-24 (12)						
941	lizpA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.57	0.89	100.00% (124/124)	80.65% (100/124)	 Ribonuclease A Protein (bovine seminal ribonuclease)
	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)						

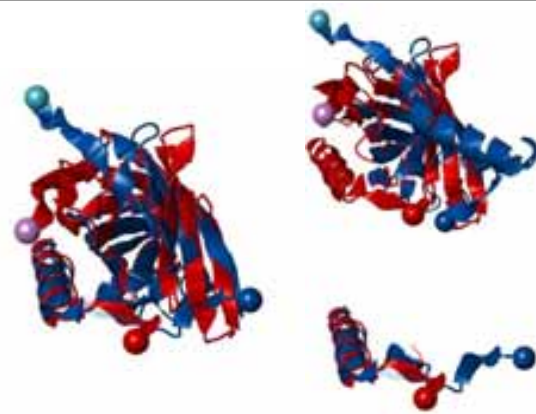
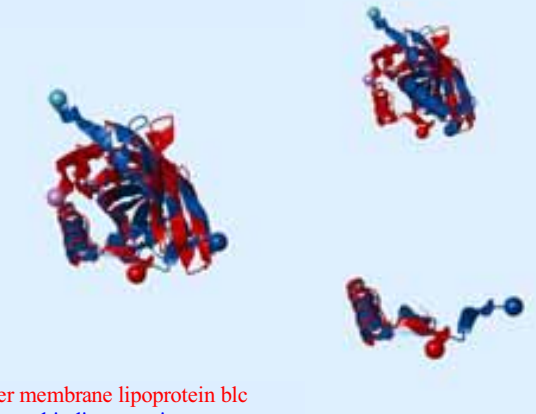
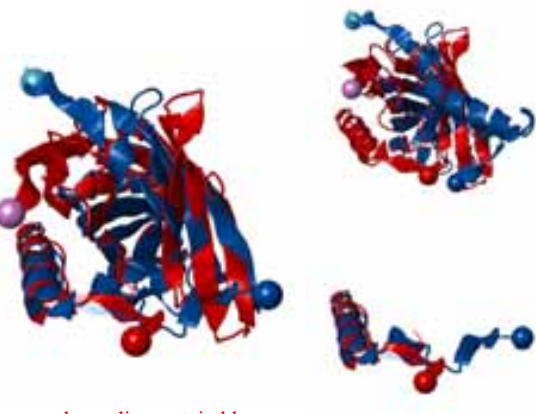
942	lizpA (124)	15-23 (9)	15-22 (8)	17-22 (6)	N	0.65	0.86	100.00% (124/124)	80.65% (100/124)	 
	1y92B (124)	15-23 (9)	15-22 (8)	17-22 (6)						
943	lizpA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.58	0.85	100.00% (124/124)	81.45% (101/124)	 
	3bcoA (124)	15-22 (8)	15-22 (8)	15-22 (8)						
944	lizpA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.53	0.95	100.00% (124/124)	83.06% (103/124)	 
	1y94A (124)	15-22 (8)	15-22 (8)	15-22 (8)						









945	2v1qB (58)	27-38 (12)	30-38 (9)	30-37 (8)	C	0.72	1.12	91.38% (53/58)	31.03% (18/58)	  <p>Cytoskeleton assembly control protein SLA1 Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	31-40 (10)	34-40 (7)	30-37 (8)						
946	1sshA (60)	31-42 (12)	31-39 (9)	31-39 (9)	C	0.65	1.41	89.83% (53/59)	27.12% (16/59)	  <p>Hypothetical 40.4 kDa protein in PES4-HIS2 in Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	34-42 (9)	34-39 (6)	31-39 (9)						
947	1h3hA (60)	46-53 (8)	46-53 (8)	50-53 (4)	C	0.69	1.48	93.22% (55/59)	30.51% (18/59)	  <p>GRB2-related adaptor protein 2 Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	34-40 (7)	34-40 (7)	50-53 (4)						

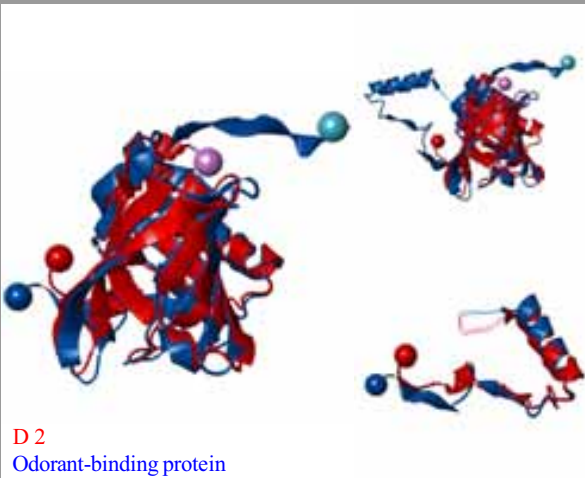
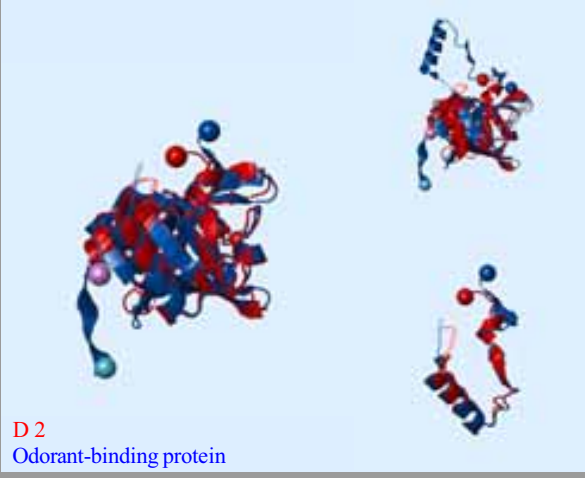
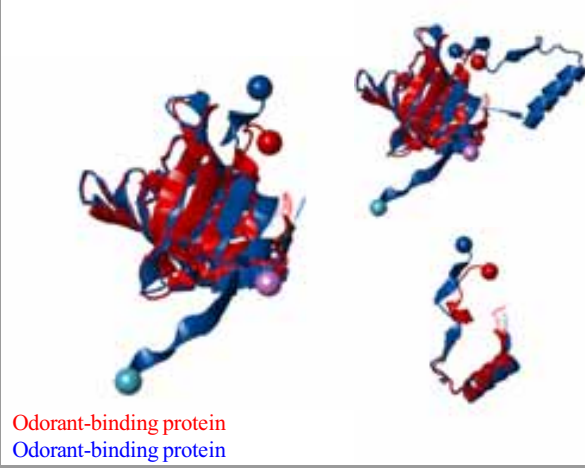
948	2semB (59)	284-302 (19)	284-291 (8)	284-291 (8)	C	0.75	1.35	94.92% (56/59)	22.03% (13/59)	 <p>Protein (SEX muscle abnormal protein 5) Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	34-52 (19)	34-40 (7)	284-291 (8)						
949	1jo8A (58)	25-35 (11)	26-34 (9)	26-34 (9)	C	0.70	1.41	93.10% (54/58)	22.41% (13/58)	 <p>Actin binding protein Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	31-40 (10)	32-39 (8)	26-34 (9)						
950	4hckA (61)	90-137 (48)	108-114 (7)	110-114 (5)	N	0.72	1.52	96.61% (57/59)	27.12% (16/59)	 <p>Hematopoietic cell kinase Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	16-62 (47)	34-40 (7)	110-114 (5)						

951	1m7A (112)	57-63 (9)	58-63 (6)	58-61 (4)	N	0.56	0.92	99.09% (109/110)	52.73% (58/110)	 <p>Cystatin D Cystatin C</p>
	1r4cA (110)	56-63 (8)	57-61 (5)	58-61 (4)						
952	1yvbI (111)	48-64 (17)	53-59 (7)	55-57 (3)	C	0.82	1.24	98.18% (108/110)	44.55% (49/110)	 <p>Cystatin Cystatin C</p>
	1r4cA (110)	50-66 (17)	55-61 (7)	55-57 (3)						
953	1yupE (154)	120-129 (10)	124-129 (6)	124-129 (6)	C	0.56	1.94	90.91% (140/154)	16.23% (25/154)	 <p>Beta-lactoglobulin Odorant-binding protein</p>
	1g85A (159)	117-125 (9)	121-125 (5)	124-129 (6)						

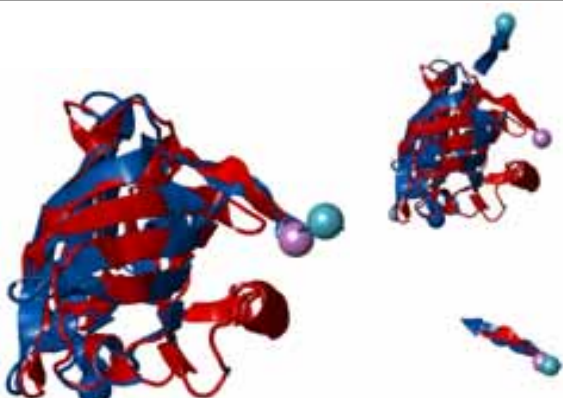
954	1yupE (154)	120-129 (10)	124-129 (6)	124-128 (5)	C	0.59	1.89	91.39% (138/151)	16.56% (25/151)	 Beta-lactoglobulin Odorant binding protein
	1pboB (151)	117-125 (9)	121-125 (5)	124-128 (5)						
955	1yupE (154)	124-129 (6)	124-129 (6)	124-129 (6)	C	0.56	1.94	90.91% (140/154)	16.23% (25/154)	 Beta-lactoglobulin Odorant-binding protein
	1gt3A (159)	121-125 (5)	121-125 (5)	124-129 (6)						
956	1yupE (154)	121-129 (9)	124-129 (6)	124-129 (6)	C	0.56	2.03	91.56% (141/154)	16.23% (25/154)	 Beta-lactoglobulin Odorant-binding protein
	1gt1A (158)	118-125 (8)	121-125 (5)	124-129 (6)						

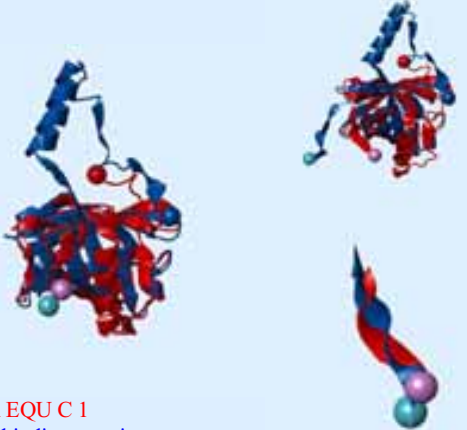
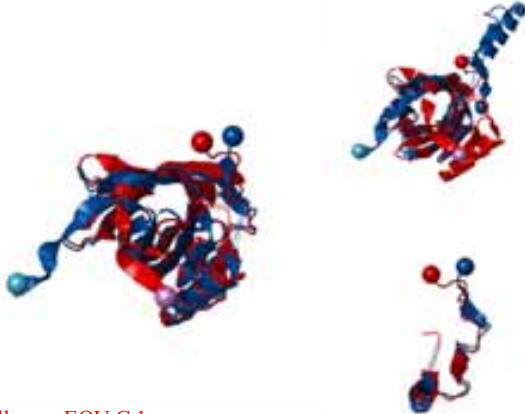
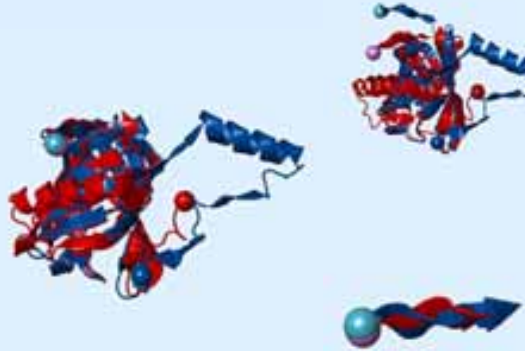
957	IqwdA (167)	142-147 (6)	143-147 (5)	143-147 (5)	C	0.35	2.34	77.36% (123/159)	8.18% (13/159)	
	Ig85A (159)	120-124 (5)	121-124 (4)	143-147 (5)						
958	IqwdA (167)	142-147 (6)	143-147 (5)	143-147 (5)	C	0.36	2.33	77.36% (123/159)	8.18% (13/159)	
	Igt3A (159)	120-124 (5)	121-124 (4)	143-147 (5)						
959	IqwdA (167)	142-147 (6)	143-147 (5)	143-147 (5)	C	0.36	2.40	78.48% (124/158)	8.23% (13/158)	
	Igt1A (158)	120-124 (5)	121-124 (4)	143-147 (5)						

960	2q39B (151)	306-329 (24)	324-329 (6)	324-329 (6)	C	0.59	1.99	92.05% (139/151)	15.89% (24/151)	   <p>Beta-lactoglobulin Odorant binding protein</p>
	1pboB (151)	102-125 (24)	121-125 (5)	324-329 (6)						
961	1bj7A (150)	113-123 (11)	119-123 (5)	119-123 (5)	C	0.67	1.80	98.00% (147/150)	26.67% (40/150)	   <p>D 2 Odorant-binding protein</p>
	1g85A (159)	115-124 (10)	121-124 (4)	119-123 (5)						
962	1bj7A (150)	113-124 (12)	119-122 (4)	119-123 (5)	C	0.70	1.81	98.00% (147/150)	26.67% (40/150)	   <p>D 2 Odorant binding protein</p>
	1pboB (151)	115-125 (11)	121-123 (3)	119-123 (5)						









963	1bj7A (150)	115-124 (10)	119-123 (5)	119-123 (5)	C	0.67	1.79	98.00% (147/150)	27.33% (41/150)	 <p>D 2 Odorant-binding protein</p>
	1gt3A (159)	117-125 (9)	121-124 (4)	119-123 (5)						
964	1bj7A (150)	113-124 (12)	119-123 (5)	119-123 (5)	C	0.67	1.80	98.00% (147/150)	27.33% (41/150)	 <p>D 2 Odorant-binding protein</p>
	1gt1A (158)	115-125 (11)	121-124 (4)	119-123 (5)						
965	1dzkA (148)	117-125 (9)	119-124 (6)	119-123 (5)	C	0.74	1.41	98.65% (146/148)	42.57% (63/148)	 <p>Odorant-binding protein Odorant-binding protein</p>
	1g85A (159)	118-125 (8)	120-124 (5)	119-123 (5)						






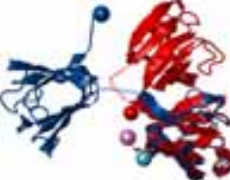
966	1dzkA (148)	119-125 (7)	119-124 (6)	119-123 (5)	C	0.78	1.43	98.65% (146/148)	43.24% (64/148)	 Odorant-binding protein Odorant binding protein
	1pboB (151)	120-125 (6)	120-124 (5)	119-123 (5)						
967	1dzkA (148)	117-125 (9)	119-124 (6)	119-123 (5)	C	0.74	1.40	98.65% (146/148)	41.89% (62/148)	 Odorant-binding protein Odorant-binding protein
	1gt3A (159)	118-125 (8)	120-124 (5)	119-123 (5)						
968	1dzkA (148)	119-125 (7)	119-124 (6)	119-123 (5)	C	0.74	1.42	98.65% (146/148)	41.89% (62/148)	 Odorant-binding protein Odorant-binding protein
	1gt1A (158)	120-125 (6)	120-124 (5)	119-123 (5)						

969	lew3A (159)	24-32 (9)	24-32 (9)	30-30 (1)	N	0.30	1.83	75.47% (120/159)	16.35% (26/159)	 <p>Allergen EQU C 1 Odorant-binding protein</p>
	lg85A (159)	3-12 (10)	3-12 (10)	30-30 (1)						
970	lew3A (159)	140-145 (6)	141-145 (5)	141-145 (5)	C	0.62	1.89	93.08% (148/159)	22.01% (35/159)	 <p>Allergen EQU C 1 Odorant-binding protein</p>
	lg85A (159)	120-124 (5)	121-124 (4)	141-145 (5)						
971	lew3A (159)	140-146 (7)	141-145 (5)	141-145 (5)	C	0.65	1.91	98.01% (148/151)	23.18% (35/151)	 <p>Allergen EQU C 1 Odorant binding protein</p>
	lpboB (151)	120-125 (6)	121-124 (4)	141-145 (5)						

972	lew3A (159)	24-35 (12)	24-32 (9)	30-30 (1)	N	0.30	1.83	75.47% (120/159)	16.98% (27/159)	 <p>Allergen EQU C 1 Odorant-binding protein</p>
	lgt3A (159)	3-15 (13)	3-12 (10)	30-30 (1)						
973	lew3A (159)	141-145 (5)	141-145 (5)	141-145 (5)	C	0.62	1.89	93.08% (148/159)	22.64% (36/159)	 <p>Allergen EQU C 1 Odorant-binding protein</p>
	lgt3A (159)	121-124 (4)	121-124 (4)	141-145 (5)						
974	lew3A (159)	24-32 (9)	29-32 (4)	30-30 (1)	N	0.31	1.83	75.95% (120/158)	17.09% (27/158)	 <p>Allergen EQU C 1 Odorant-binding protein</p>
	lgt1A (158)	3-12 (10)	8-12 (5)	30-30 (1)						

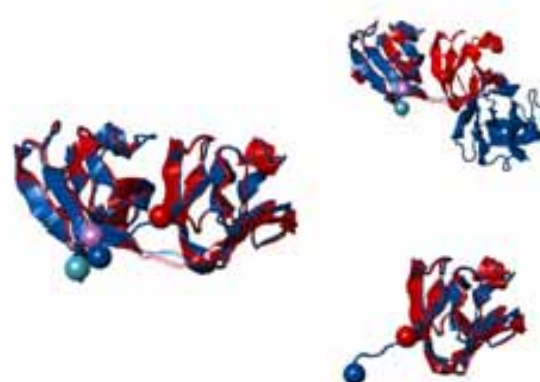
975	1ew3A (159)	140-145 (6)	141-145 (5)	141-145 (5)	C	0.63	1.89	93.67% (148/158)	22.78% (36/158)	 <p>Allergen EQU C 1 Odorant-binding protein</p>
	1gt1A (158)	120-124 (5)	121-124 (4)	141-145 (5)						
976	2a2uA (158)	122-129 (8)	122-129 (8)	122-129 (8)	C	0.70	1.47	95.36% (144/151)	26.49% (40/151)	 <p>Protein (alpha-2U-globulin) Odorant binding protein</p>
	1pboB (151)	121-127 (7)	121-127 (7)	122-129 (8)						
977	1hcFX (101)	298-301 (4)	298-300 (3)	298-300 (3)	N	0.73	1.29	96.04% (97/101)	45.54% (46/101)	 <p>Bdnf/nt-3 growth factors receptor HIGH affinity nerve growth factor receptor</p>
	1he7A (107)	296-299 (4)	296-298 (3)	298-300 (3)						

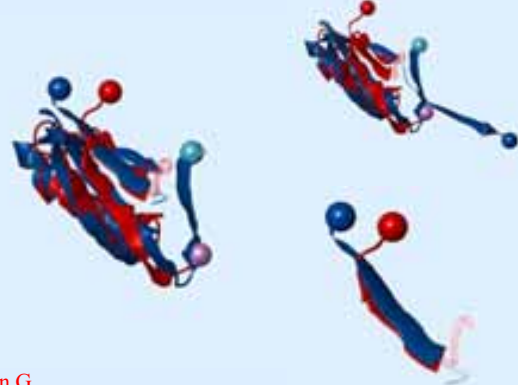

978	1fhgA (102)	50-65 (16)	50-58 (9)	50-57 (8)	N	0.56	1.99	92.16% (94/102)	14.71% (15/102)	   Telokin HIGH affinity nerve growth factor receptor
	1he7A (107)	295-305 (11)	295-298 (4)	50-57 (8)						
979	2dm3A (110)	7-44 (38)	7-31 (25)	21-25 (5)	N	0.55	1.90	88.79% (95/107)	18.69% (20/107)	  KIAA0992 protein HIGH affinity nerve growth factor receptor
	1he7A (107)	283-316 (34)	283-303 (21)	21-25 (5)						
980	1g1cA (98)	5-28 (24)	5-21 (17)	20-21 (2)	N	0.63	1.75	95.92% (94/98)	17.35% (17/98)	   Immunoglobulin-LIKE domain I1 FROM titin HIGH affinity nerve growth factor receptor
	1he7A (107)	283-304 (22)	283-297 (15)	20-21 (2)						

981	1u2hA (96)	19-40 (22)	19-36 (18)	34-35 (2)	N	0.67	1.46	95.83% (92/96)	19.79% (19/96)	  Aortic preferentially expressed protein 1 HIGH affinity nerve growth factor receptor
	1he7A (107)	283-302 (20)	283-298 (16)	34-35 (2)						
982	2a5mA (177)	86-93 (8)	86-92 (7)	89-92 (4)	C	0.77	1.42	98.31% (174/177)	33.90% (60/177)	  Gamma crystallin S Beta crystallin B2
	1ytqA (181)	100-106 (7)	100-105 (6)	89-92 (4)						
983	2a5mA (177)	83-93 (11)	84-93 (10)	89-93 (5)	C	0.77	1.43	98.31% (174/177)	33.90% (60/177)	  Gamma crystallin S Beta B2-crystallin
	2bb2A (181)	79-88 (10)	80-88 (9)	89-93 (5)						

984	1a45A (173)	79-91 (13)	82-89 (8)	82-88 (7)	C	0.74	1.51	98.27% (170/173)	35.26% (61/173)	 <p>Gamma crystallin Beta crystallin B2</p>
	lytqA (181)	97-109 (13)	100-107 (8)	82-88 (7)						
985	2v2uA (173)	79-89 (11)	79-87 (9)	84-87 (4)	N	0.80	1.22	98.84% (171/173)	35.84% (62/173)	 <p>Gamma crystallin C Beta B2-crystallin</p>
	2bb2A (181)	79-90 (12)	79-88 (10)	84-87 (4)						
986	1ammA (174)	79-90 (12)	79-87 (9)	84-87 (4)	C	0.80	1.23	98.85% (172/174)	36.78% (64/174)	 <p>Gamma B-crystallin Beta B2-crystallin</p>
	2bb2A (181)	79-90 (12)	79-87 (9)	84-87 (4)						



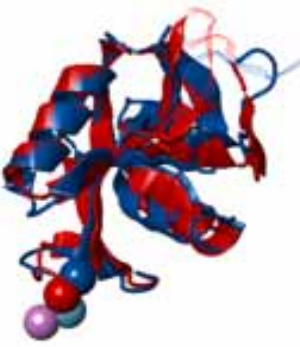



987	IzwmA (177)	86-93 (8)	86-92 (7)	89-92 (4)	C	0.77	1.45	98.31% (174/177)	33.90% (60/177)	 <p>Gamma crystallin S Beta crystallin B2</p>
	lytqA (181)	100-106 (7)	100-105 (6)	89-92 (4)						
988	2jdfA (175)	79-91 (13)	82-89 (8)	82-87 (6)	C	0.79	1.30	98.29% (172/175)	34.86% (61/175)	 <p>Gamma crystallin B Beta crystallin B2</p>
	lytqA (181)	97-109 (13)	100-107 (8)	82-87 (6)						
989	2jdfA (175)	79-90 (13)	80-88 (9)	82-87 (6)	C	0.78	1.31	98.29% (172/175)	34.86% (61/175)	 <p>Gamma crystallin B Beta B2-crystallin</p>
	2bb2A (181)	79-90 (12)	80-88 (9)	82-87 (6)						

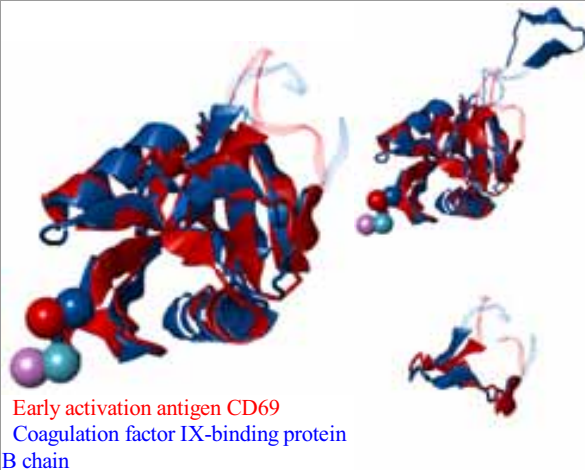
990	1h4aX (173)	77-89 (13)	79-88 (10)	82-88 (7)	N	0.80	1.23	98.84% (171/173)	34.68% (60/173)	 <p>Gamma crystallin D Beta B2-crystallin</p>
	2bb2A (181)	77-89 (13)	79-88 (10)	82-88 (7)						
991	2jdgA (171)	80-90 (11)	82-90 (9)	82-88 (7)	C	0.80	1.29	100.00% (171/171)	34.50% (59/171)	 <p>Gamma crystallin B Beta crystallin B2</p>
	1ytqA (181)	98-108 (11)	100-108 (9)	82-88 (7)						
992	1ez3B (124)	104-114 (11)	104-114 (11)	104-114 (11)	C	0.41	1.59	85.39% (76/89)	12.36% (11/89)	 <p>Syntaxin-1A T-snare affecting a LATE golgi compartment PR</p>
	2c5jB (89)	77-78 (2)	77-78 (2)	104-114 (11)						


993	1lvfA (106)	70-76 (7)	70-76 (7)	70-76 (7)	C	0.59	1.90	98.88% (88/89)	22.47% (20/89)	 <p>Syntaxin 6 T-snare affecting a LATE golgi compartment PR</p>
	2c5jB (89)	61-62 (2)	61-62 (2)	70-76 (7)						
994	2iggA (64)	40-64 (25)	41-55 (15)	51-55 (5)	C	0.51	2.10	92.19% (59/64)	7.81% (5/64)	 <p>Protein G Protein L</p>
	1k51A (72)	38-64 (27)	39-55 (17)	51-55 (5)						
995	2igdA (61)	49-60 (12)	49-60 (12)	52-52 (1)	C	0.53	2.02	95.08% (58/61)	14.75% (9/61)	 <p>Protein G Protein L</p>
	1k51A (72)	50-63 (14)	50-63 (14)	52-52 (1)						

996	1mhhE (63)	868-877 (10)	868-874 (7)	869-874 (6)	C	0.77	0.93	98.41% (62/63)	58.73% (37/63)	 Protein L domain C Protein L
	1k51A (72)	51-59 (9)	51-56 (6)	869-874 (6)						
997	1kh0A (65)	45-58 (14)	50-58 (9)	55-57 (3)	C	0.78	0.86	96.92% (63/65)	78.46% (51/65)	 Protein L Protein L
	1k51A (72)	45-56 (12)	50-56 (7)	55-57 (3)						
998	1hz6B (63)	49-57 (9)	50-56 (7)	53-57 (5)	C	0.74	1.29	100.00% (63/63)	98.41% (62/63)	 Protein L Protein L
	1k51A (72)	49-57 (9)	50-56 (7)	53-57 (5)						

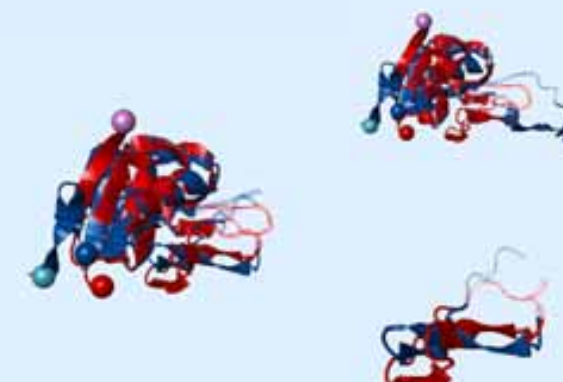
999	1le4A (139)	39-56 (18)	39-56 (18)	41-56 (16)	N	0.27	2.31	82.84% (111/134)	11.94% (16/134)	 <p>Apolipoprotein E4 Focal adhesion kinase 1</p>
	1ow6A (134)	941-950 (10)	941-950 (10)	41-56 (16)						
1000	1k40A (126)	942-950 (9)	942-950 (9)	943-944 (2)	N	0.64	1.05	100.00% (126/126)	96.83% (122/126)	 <p>Adhesion kinase Focal adhesion kinase 1</p>
	1ow6A (134)	942-950 (9)	942-950 (9)	943-944 (2)						
1001	1e87A (117)	133-154 (22), 161-183 (23)	150-153 (4), 161-182 (22)	150-153 (4), 168-173 (6)	M	0.67	1.65	95.73% (112/117)	21.37% (25/117)	 <p>Early activation antigen CD69 Echicetin B-chain</p>
	1oz7B (123)	52-78 (27), 85-108 (24)	73-77 (5), 85-107 (23)	150-153 (4), 168-173 (6)						

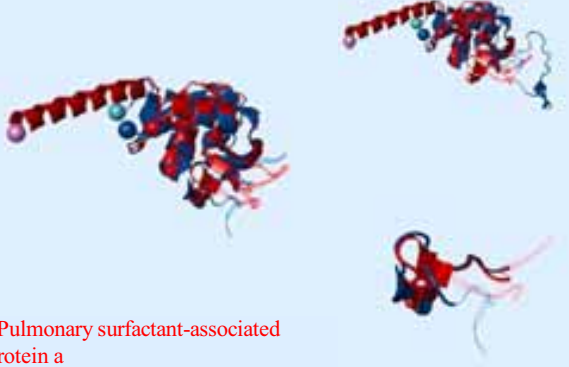
1002	1e87A (117)	145-155 (11), 162-172 (11)	145-152 (8), 162-172 (11)	146-149 (4), 168-172 (5)	M	0.65	1.67	94.87% (111/117)	22.22% (26/117)	  <p>Early activation antigen CD69 EMS16 B chain</p>
	1ukmB (124)	67-78 (12), 85-94 (10)	67-75 (9), 85-94 (10)	146-149 (4), 168-172 (5)						
1003	1e87A (117)	147-153 (7), 162-171 (10)	147-153 (7), 162-171 (10)	149-153 (5), 169-171 (3)	M	0.65	1.60	96.58% (113/117)	24.79% (29/117)	  <p>Early activation antigen CD69 EMS16 a chain</p>
	1ukmA (131)	74-83 (10), 92-102 (11)	74-83 (10), 92-102 (11)	149-153 (5), 169-171 (3)						
1004	1e87A (117)	146-155 (10), 161-183 (23)	147-153 (7), 161-171 (11)	149-153 (5), 168-171 (4)	M	0.66	1.64	95.73% (112/117)	26.50% (31/117)	  <p>Early activation antigen CD69 Bitiscetin alpha chain</p>
	1uexA (125)	71-83 (13), 89-114 (26)	72-81 (10), 89-98 (10)	149-153 (5), 168-171 (4)						


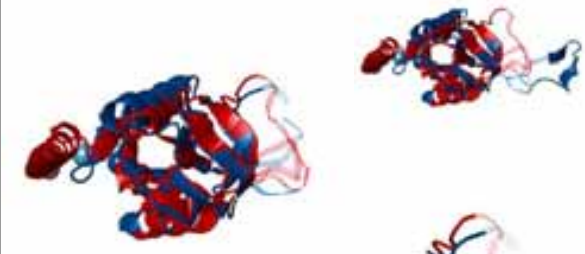

1005	1e87A (117)	147-155 (9), 161-172 (12)	147-152 (6), 161-172 (12)	147-152 (6), 168-172 (5)	M	0.69	1.62	96.58% (113/117)	23.08% (27/117)	 <p>Early activation antigen CD69 Coagulation factor IX-binding protein B chain</p>
	1j34B (123)	270-279 (10), 285-295 (11)	270-276 (7), 285-295 (11)	147-152 (6), 168-172 (5)						
1006	1e87A (117)	147-155 (9), 161-183 (23)	147-153 (7), 161-172 (12)	149-153 (5), 168-172 (5)	M	0.69	1.67	97.44% (114/117)	19.66% (23/117)	 <p>Early activation antigen CD69 Platelet aggregation inducer</p>
	1jwiB (123)	72-81 (10), 87-110 (24)	72-79 (8), 87-97 (11)	149-153 (5), 168-172 (5)						
1007	1e87A (117)	133-155 (23), 158-189 (32)	146-153 (8), 161-172 (12)	147-153 (7), 167-172 (6)	M	0.66	1.81	98.29% (115/117)	22.22% (26/117)	 <p>Early activation antigen CD69 Mucroctin beta chain</p>
	1v4IB (125)	254-281 (28), 284-316 (33)	271-279 (9), 287-297 (11)	147-153 (7), 167-172 (6)						


1008	1e87A (117)	147-154 (8), 161-171 (11)	147-154 (8), 162-171 (10)	149-152 (4), 169-171 (3)	M	0.65	1.50	94.87% (111/117)	23.08% (27/117)	 <p>Early activation antigen CD69 Coagulation factor X binding protein</p>
	liodA (129)	72-82 (11), 89-100 (12)	72-82 (11), 90-100 (11)	149-152 (4), 169-171 (3)						
1009	1e87A (117)	144-153 (10), 161-183 (23)	144-153 (10), 161-183 (23)	147-153 (7), 169-171 (3)	M	0.65	1.58	97.44% (114/117)	26.50% (31/117)	 <p>Early activation antigen CD69 Convulxin alpha</p>
	luosA (133)	69-81 (13), 89-116 (28)	69-81 (13), 89-116 (28)	147-153 (7), 169-171 (3)						
1010	1e87A (117)	144-153 (10), 162-183 (22)	144-153 (10), 162-171 (10)	147-153 (7), 166-171 (6)	M	0.63	1.50	93.16% (109/117)	21.37% (25/117)	 <p>Early activation antigen CD69 Coagulation factor IX-binding protein a chain</p>
	lj34A (129)	69-81 (13), 90-116 (27)	69-81 (13), 90-100 (11)	147-153 (7), 166-171 (6)						

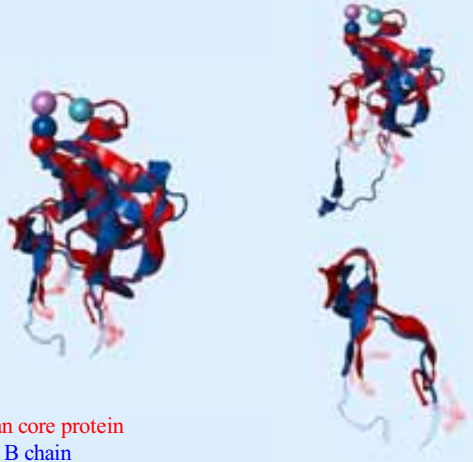
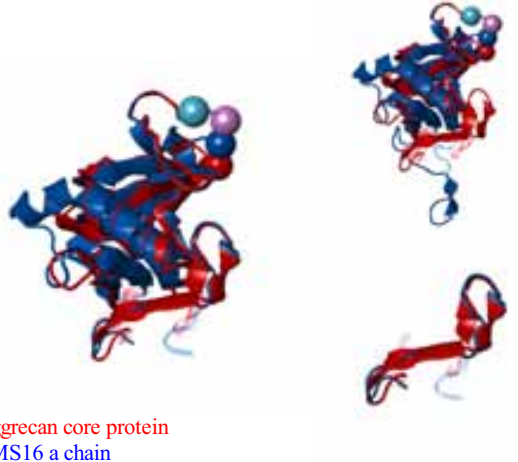
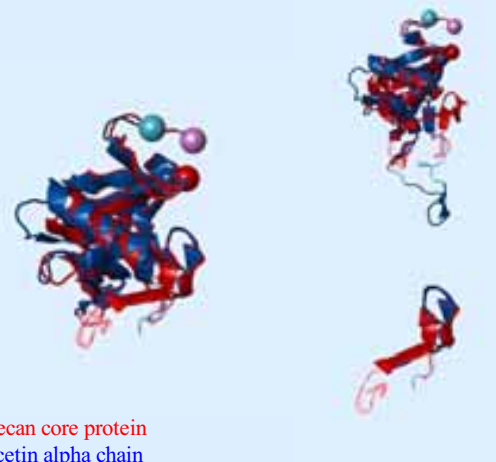
1011	1p4ID (122)	197-208 (12), 213-232 (20)	198-208 (11), 213-232 (20)	202-208 (7), 220-232 (13)	M	0.51	2.10	90.16% (110/122)	19.67% (24/122)	 LY49-C EMS16 a chain
	lukmA (131)	70-82 (13), 88-104 (17)	71-82 (12), 88-104 (17)	202-208 (7), 220-232 (13)						
1012	1p4ID (122)	197-207 (11), 210-256 (47)	198-207 (10), 216-232 (17)	201-207 (7), 223-232 (10)	M	0.54	2.06	89.34% (109/122)	15.57% (19/122)	 LY49-C Coagulation factor IX-binding protein B chain
	1j34B (123)	266-276 (11), 279-322 (44)	267-276 (10), 282-296 (15)	201-207 (7), 223-232 (10)						
1013	1p4ID (122)	198-210 (13), 213-232 (20)	199-207 (9), 213-232 (20)	206-207 (2), 219-232 (14)	M	0.61	1.70	90.16% (110/122)	16.39% (20/122)	 LY49-C Platelet aggregation inducer
	ljwiB (123)	69-81 (13), 84-98 (15)	70-78 (9), 84-98 (15)	206-207 (2), 219-232 (14)						



1014	1p4ID (122)	198-207 (10), 210-243 (34)	198-203 (6), 216-233 (18)	201-203 (3), 223-232 (10)	M	0.53	2.05	89.34% (109/122)	17.21% (21/122)	
	1v4IB (125)	269-278 (10), 281-311 (31)	269-274 (6), 284-299 (16)	201-203 (3), 223-232 (10)						
1015	1p4ID (122)	187-224 (38), 206-254 (49)	198-209 (12), 213-232 (20)	202-207 (6), 220-232 (13)	M	0.51	2.09	89.34% (109/122)	19.67% (24/122)	
	liodA (129)	52-98 (47), 79-128 (50)	69-82 (14), 86-102 (17)	202-207 (6), 220-232 (13)						
1016	1r13A (145)	167-194 (28), 176-227 (52)	169-177 (9), 191-218 (28)	170-177 (8), 193-202 (10)	M	0.48	2.03	92.68% (114/123)	17.07% (21/123)	
	1oz7B (123)	66-93 (28), 74-120 (47)	68-75 (8), 90-111 (22)	170-177 (8), 193-202 (10)						




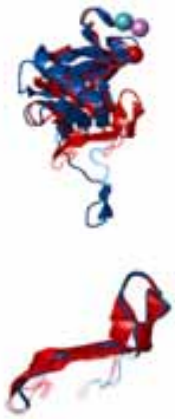
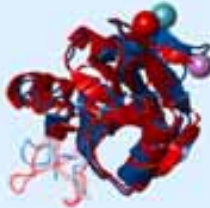
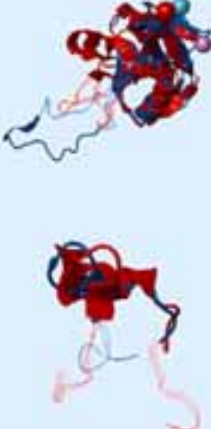
1017	1r13A (145)	160-180 (21), 190-205 (16)	168-180 (13), 190-205 (16)	169-178 (10), 192-203 (12)	M	0.48	1.93	88.71% (110/124)	19.35% (24/124)	 <p>Pulmonary surfactant-associated protein a EMS16 B chain</p>
	1ukmB (124)	56-78 (23), 88-96 (9)	66-78 (13), 88-96 (9)	169-178 (10), 192-203 (12)						
1018	1r13A (145)	167-178 (12), 194-211 (18)	168-178 (11), 194-211 (18)	172-178 (7), 194-202 (9)	M	0.50	1.86	87.79% (115/131)	18.32% (24/131)	 <p>Pulmonary surfactant-associated protein a EMS16 a chain</p>
	1ukmA (131)	70-82 (13), 99-114 (16)	71-82 (12), 99-114 (16)	172-178 (7), 194-202 (9)						
1019	1r13A (145)	167-180 (14), 186-212 (27)	167-178 (12), 192-211 (20)	172-176 (5), 192-203 (12)	M	0.52	1.79	90.40% (113/125)	16.80% (21/125)	 <p>Pulmonary surfactant-associated protein a Bitiscetin alpha chain</p>
	1uexA (125)	68-83 (16), 89-111 (23)	68-81 (14), 95-110 (16)	172-176 (5), 192-203 (12)						

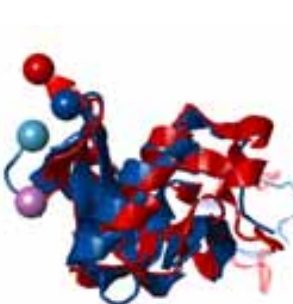



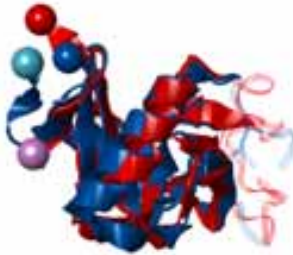

1020	1r13A (145)	168-180 (13), 192-224 (33)	168-178 (11), 192-211 (20)	171-178 (8), 192-203 (12)	M	0.52	1.88	92.68% (114/123)	17.07% (21/123)	 <p>Pulmonary surfactant-associated protein a Coagulation factor IX-binding protein B chain</p>
	1j34B (123)	267-279 (13), 291-317 (27)	267-277 (11), 291-304 (14)	171-178 (8), 192-203 (12)						
1021	1r13A (145)	159-180 (22), 190-205 (16)	169-178 (10), 191-204 (14)	171-178 (8), 193-203 (11)	M	0.53	1.85	92.68% (114/123)	15.45% (19/123)	 <p>Pulmonary surfactant-associated protein a Platelet aggregation inducer</p>
	1jwiB (123)	58-81 (24), 91-99 (9)	70-79 (10), 92-98 (7)	171-178 (8), 193-203 (11)						
1022	1r13A (145)	155-180 (26), 183-218 (36)	167-178 (12), 192-207 (16)	170-176 (7), 192-203 (12)	M	0.49	2.01	90.40% (113/125)	19.20% (24/125)	 <p>Pulmonary surfactant-associated protein a Mucroctin beta chain</p>
	1v4iB (125)	254-281 (28), 284-313 (30)	268-279 (12), 293-301 (9)	170-176 (7), 192-203 (12)						

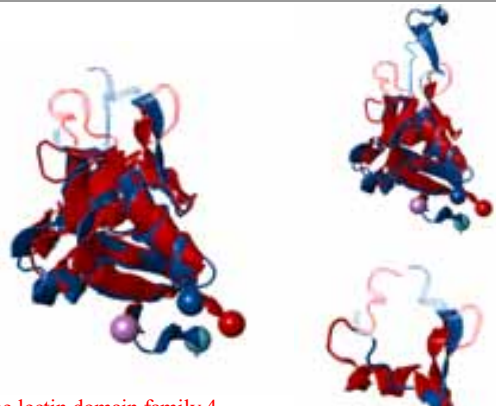
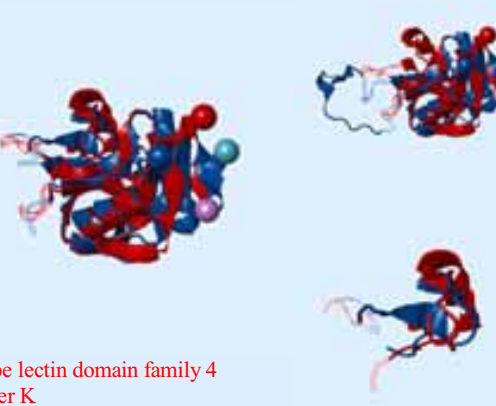
1023	1r13A (145)	167-179 (13), 192-218 (27)	172-177 (6), 193-218 (26)	172-177 (6), 193-202 (10)	M	0.51	1.94	89.92% (116/129)	18.60% (24/129)	  Pulmonary surfactant-associated protein a Coagulation factor X binding protein
	1iodA (129)	68-82 (15), 95-119 (25)	73-80 (8), 96-119 (24)	172-177 (6), 193-202 (10)						
1024	1r13A (145)	167-179 (13), 192-220 (29)	172-178 (7), 192-204 (13)	172-178 (7), 193-201 (9)	M	0.51	1.84	89.15% (115/129)	19.38% (25/129)	  Pulmonary surfactant-associated protein a Coagulation factor IX-binding protein a chain
	1j34A (129)	68-82 (15), 95-121 (27)	73-81 (9), 95-102 (8)	172-178 (7), 193-201 (9)						
1025	1tdqB (126)	51-72 (22), 79-112 (34)	53-71 (19), 80-101 (22)	65-71 (7), 84-98 (15)	M	0.67	1.36	91.06% (112/123)	29.27% (36/123)	  Aggrecan core protein Echicetin B-chain
	1oz7B (123)	52-78 (27), 85-108 (24)	54-77 (24), 86-98 (13)	65-71 (7), 84-98 (15)						

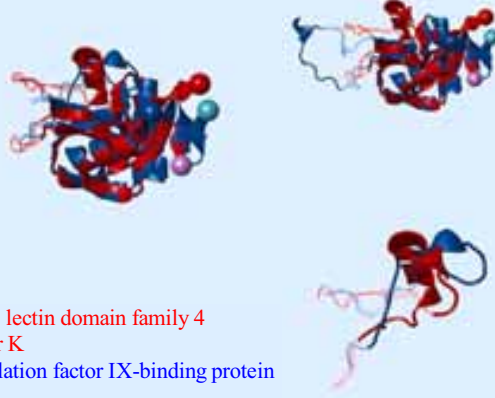
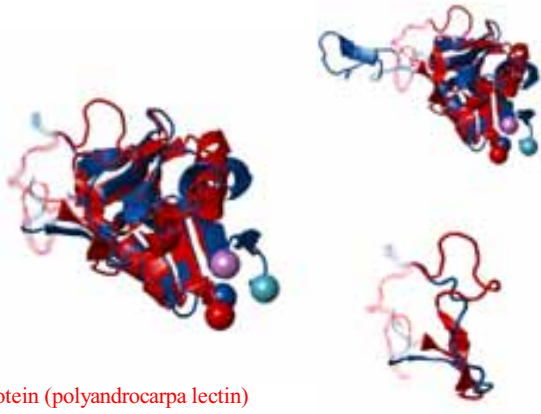
1026	ltdqB (126)	61-69 (9), 79-100 (22)	62-69 (8), 81-98 (18)	62-69 (8), 91-98 (8)	M	0.62	1.54	89.52% (111/124)	32.26% (40/124)	 <p>Aggrecan core protein EMS16 B chain</p>
	lukmB (124)	66-74 (9), 84-96 (13)	67-74 (8), 85-94 (10)	62-69 (8), 91-98 (8)						
1027	ltdqB (126)	61-73 (13), 87-108 (22)	64-73 (10), 87-97 (11)	66-71 (6), 89-97 (9)	M	0.68	1.38	92.86% (117/126)	30.95% (39/126)	 <p>Aggrecan core protein EMS16 a chain</p>
	lukmA (131)	71-85 (15), 99-114 (16)	74-85 (12), 99-102 (4)	66-71 (6), 89-97 (9)						
1028	ltdqB (126)	61-73 (13), 80-109 (30)	61-73 (13), 80-97 (18)	64-71 (8), 84-93 (10)	M	0.62	1.77	92.00% (115/125)	35.20% (44/125)	 <p>Aggrecan core protein Bitiscetin alpha chain</p>
	luexA (125)	69-83 (15), 90-111 (22)	69-83 (15), 90-98 (9)	64-71 (8), 84-93 (10)						

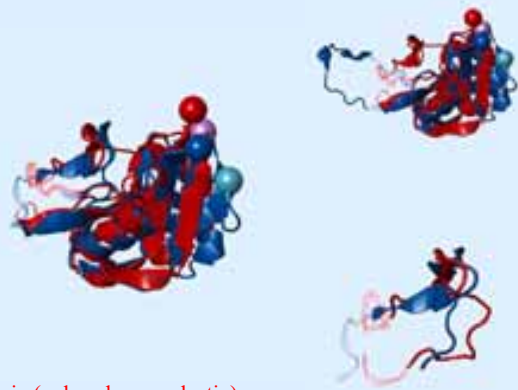
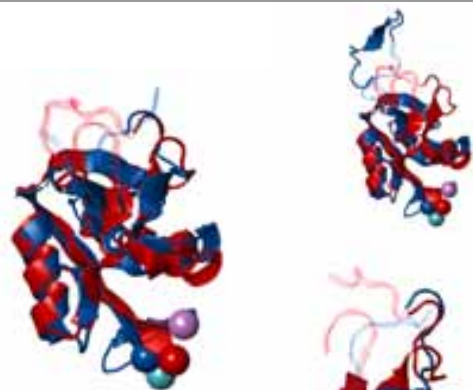
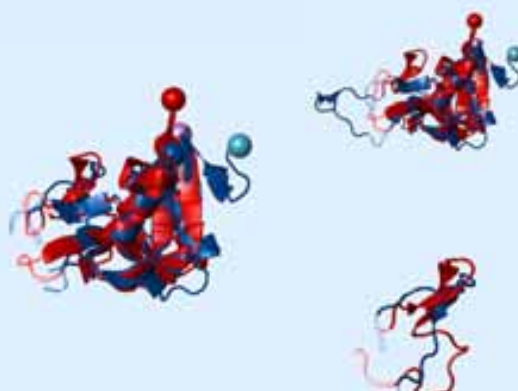
1029	ltdqB (126)	61-70 (10), 80-98 (19)	61-70 (10), 80-98 (19)	64-69 (6), 84-98 (15)	M	0.68	1.36	91.87% (113/123)	32.52% (40/123)	 
	ljwiB (123)	69-78 (10), 88-97 (10)	69-78 (10), 88-97 (10)	64-69 (6), 84-98 (15)						
1030	ltdqB (126)	53-70 (18), 76-109 (34)	55-69 (15), 81-109 (29)	62-69 (8), 81-97 (17)	M	0.64	1.59	91.20% (114/125)	28.80% (36/125)	 
	1v4lB (125)	256-278 (23), 284-307 (24)	258-277 (20), 288-307 (20)	62-69 (8), 81-97 (17)						
1031	ltdqB (126)	62-76 (15), 80-103 (24)	64-72 (9), 85-98 (14)	66-70 (5), 86-96 (11)	M	0.68	1.43	92.06% (116/126)	31.75% (40/126)	 
	liodA (129)	70-86 (17), 90-106 (17)	72-82 (11), 95-101 (7)	66-70 (5), 86-96 (11)						

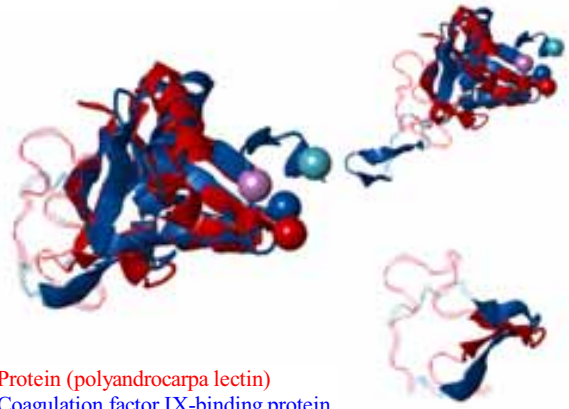
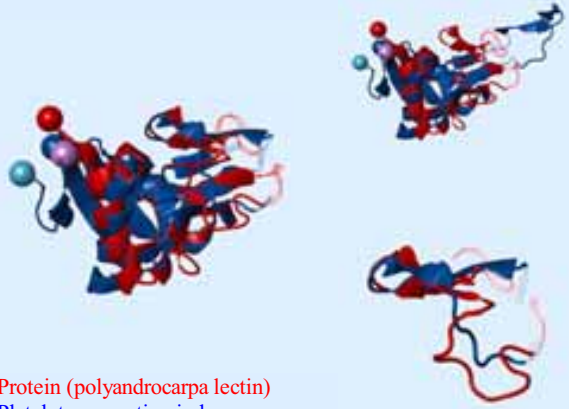
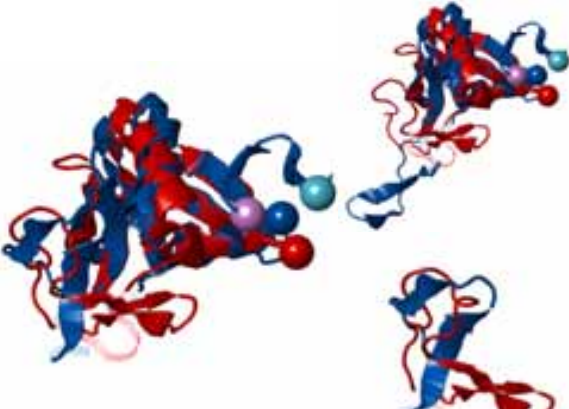
1032	1tdqB (126)	63-73 (11), 82-108 (27)	64-71 (8), 82-108 (27)	64-70 (7), 90-96 (7)	M	0.61	1.55	90.48% (114/126)	28.57% (36/126)	  Aggregan core protein Convulxin alpha
	1uosA (133)	71-83 (13), 92-112 (21)	72-80 (9), 92-112 (21)	64-70 (7), 90-96 (7)						
1033	1tdqB (126)	64-73 (10), 80-98 (19)	64-71 (8), 85-98 (14)	64-71 (8), 86-96 (11)	M	0.67	1.51	92.86% (117/126)	34.92% (44/126)	  Aggregan core protein Coagulation factor IX-binding protein alpha chain
	1j34A (129)	72-83 (12), 90-101 (12)	72-80 (9), 95-101 (7)	64-71 (8), 86-96 (11)						
1034	3bc7C (128)	244-280 (37), 284-307 (24)	253-280 (28), 284-296 (13)	255-264 (10), 284-295 (12)	M	0.56	1.75	88.62% (109/123)	26.02% (32/123)	  C-type lectin domain family 4 member K Echicetin B-chain
	1oz7B (123)	53-89 (37), 92-107 (16)	66-89 (24), 92-97 (6)	255-264 (10), 284-295 (12)						

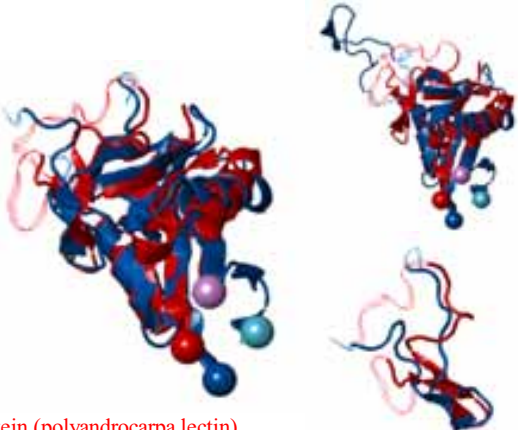
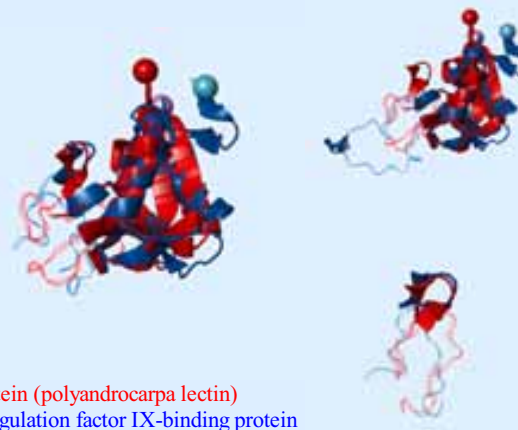
1035	3bc7C (128)	255-266 (12), 274-308 (35)	255-263 (9), 274-306 (33)	256-263 (8), 287-294 (8)	M	0.59	1.60	88.71% (110/124)	25.81% (32/124)	  <p>C-type lectin domain family 4 member K EMS16 B chain</p>
	lukmB (124)	67-78 (12), 85-109 (25)	67-75 (9), 85-107 (23)	256-263 (8), 287-294 (8)						
1036	3bc7C (128)	255-266 (12), 274-292 (19)	257-266 (10), 274-292 (19)	258-265 (8), 287-292 (6)	M	0.55	1.89	89.06% (114/128)	22.66% (29/128)	  <p>C-type lectin domain family 4 member K EMS16 a chain</p>
	lukmA (131)	72-85 (14), 92-101 (10)	74-85 (12), 92-101 (10)	258-265 (8), 287-292 (6)						
1037	3bc7C (128)	254-266 (13), 272-309 (38)	255-263 (9), 272-294 (23)	257-263 (7), 273-294 (22)	M	0.59	1.72	90.24% (111/123)	24.39% (30/123)	  <p>C-type lectin domain family 4 member K Coagulation factor IX-binding protein B chain</p>
	lj34B (123)	267-279 (13), 285-309 (25)	268-276 (9), 285-295 (11)	257-263 (7), 273-294 (22)						

1038	3bc7C (128)	253-266 (14), 270-294 (25)	254-265 (12), 270-294 (25)	257-263 (7), 287-294 (8)	M	0.57	1.80	90.24% (111/123)	27.64% (34/123)	 <p>C-type lectin domain family 4 member K Platelet aggregation inducer</p>
	1jwiB (123)	68-81 (14), 84-97 (14)	69-80 (12), 84-97 (14)	257-263 (7), 287-294 (8)						
1039	3bc7C (128)	242-266 (25), 272-313 (42)	255-266 (12), 272-306 (35)	255-261 (7), 285-294 (10)	M	0.58	1.62	87.20% (109/125)	22.40% (28/125)	 <p>C-type lectin domain family 4 member K Mucroctin beta chain</p>
	1v41B (125)	253-281 (29), 287-315 (29)	270-281 (12), 287-308 (22)	255-261 (7), 285-294 (10)						
1040	3bc7C (128)	255-287 (33), 261-292 (32)	258-266 (9), 269-292 (24)	258-264 (7), 287-292 (6)	M	0.55	1.85	87.50% (112/128)	22.66% (29/128)	 <p>C-type lectin domain family 4 member K Coagulation factor X binding protein</p>
	1iodA (129)	70-96 (27), 75-99 (25)	73-83 (11), 86-99 (14)	258-264 (7), 287-292 (6)						

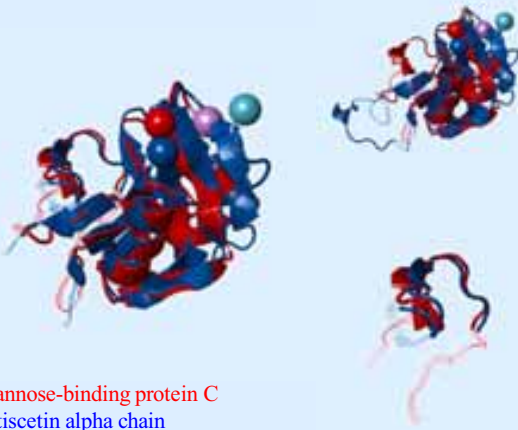
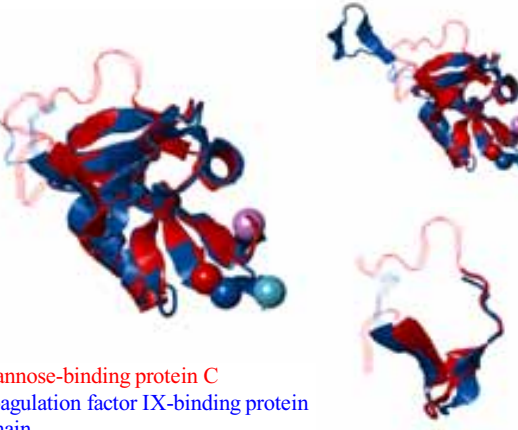
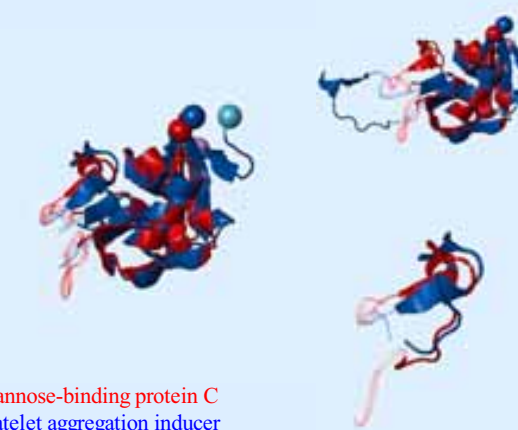
1041	3bc7C (128)	258-288 (31), 262-308 (47)	258-288 (31), 262-292 (31)	258-265 (8), 287-292 (6)	M	0.46	1.77	88.28% (113/128)	20.31% (26/128)	 <p>C-type lectin domain family 4 member K Convulxin alpha</p>
	1uosA (133)	73-96 (24), 76-116 (41)	73-96 (24), 76-99 (24)	258-265 (8), 287-292 (6)						
1042	3bc7C (128)	257-289 (33), 261-293 (33)	258-289 (32), 261-292 (32)	258-266 (9), 287-292 (6)	M	0.42	1.79	85.94% (110/128)	21.88% (28/128)	 <p>C-type lectin domain family 4 member K Coagulation factor IX-binding protein a chain</p>
	1j34A (129)	72-97 (26), 75-100 (26)	73-97 (25), 75-99 (25)	258-266 (9), 287-292 (6)						
1043	1byfA (123)	44-68 (25), 75-100 (26)	57-68 (12), 75-98 (24)	58-66 (9), 88-95 (8)	M	0.53	1.81	85.37% (105/123)	21.14% (26/123)	 <p>Protein (polyandrocampa lectin) Echicetin B-chain</p>
	1oz7B (123)	53-78 (26), 85-100 (16)	68-78 (11), 85-98 (14)	58-66 (9), 88-95 (8)						

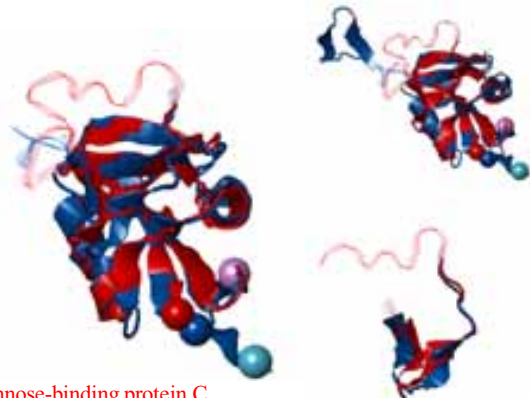
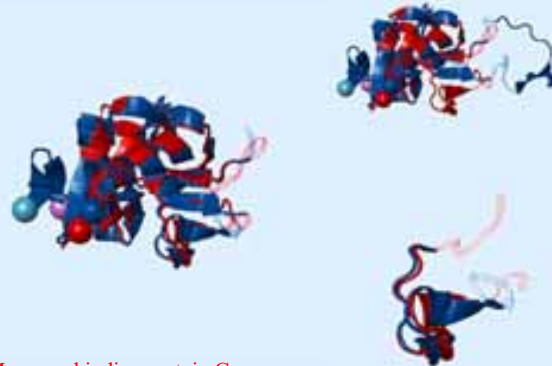
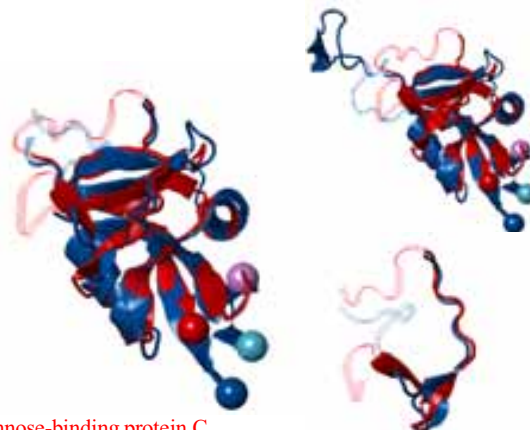
1044	lbyfA (123)	56-66 (11), 72-94 (23)	56-66 (11), 76-92 (17)	58-64 (7), 88-92 (5)	M	0.51	1.96	85.37% (105/123)	12.20% (15/123)	 <p>Protein (polyandrocampa lectin) EMS16 B chain</p>
	lukmB (124)	66-75 (10), 81-93 (13)	66-75 (10), 85-91 (7)	58-64 (7), 88-92 (5)						
1045	lbyfA (123)	56-68 (13), 85-95 (11)	56-67 (12), 85-95 (11)	61-67 (7), 86-95 (10)	M	0.54	1.88	89.43% (110/123)	16.26% (20/123)	 <p>Protein (polyandrocampa lectin) EMS16 a chain</p>
	lukmA (131)	71-84 (14), 99-103 (5)	71-83 (13), 99-103 (5)	61-67 (7), 86-95 (10)						
1046	lbyfA (123)	56-69 (14), 73-117 (45)	59-69 (11), 73-99 (27)	60-64 (5), 88-93 (6)	M	0.53	1.95	87.80% (108/123)	14.63% (18/123)	 <p>Protein (polyandrocampa lectin) Bitiscetin alpha chain</p>
	luexA (125)	69-83 (15), 86-123 (38)	72-83 (12), 86-103 (18)	60-64 (5), 88-93 (6)						

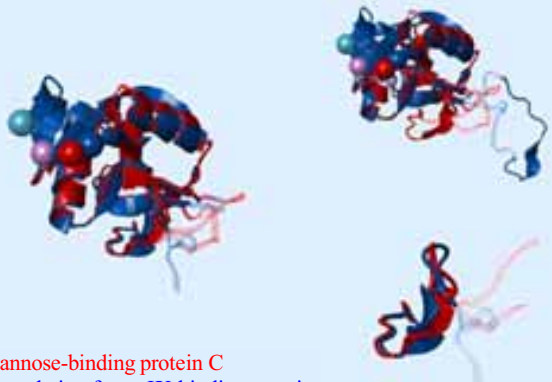
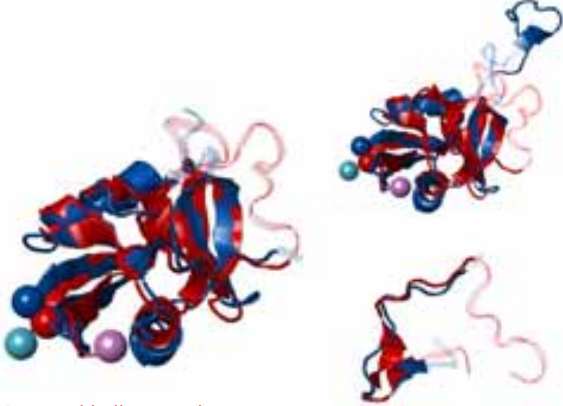
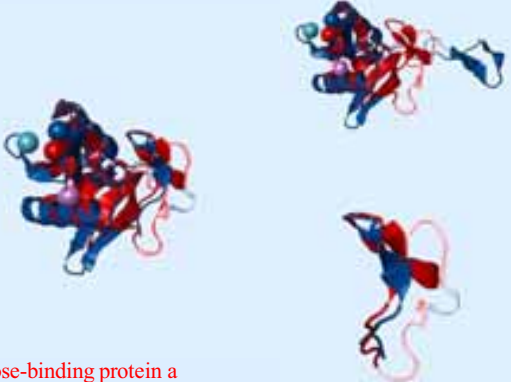
1047	1byfA (123)	56-65 (10), 75-94 (20)	57-65 (9), 76-94 (19)	59-65 (7), 76-94 (19)	M	0.51	2.10	86.99% (107/123)	18.70% (23/123)	 <p>Protein (polyandrocarpa lectin) Coagulation factor IX-binding protein B chain</p>
	1j34B (123)	267-274 (8), 285-294 (10)	268-274 (7), 286-294 (9)	59-65 (7), 76-94 (19)						
1048	1byfA (123)	56-66 (11), 73-94 (22)	59-65 (7), 76-94 (19)	59-65 (7), 88-93 (6)	M	0.52	1.95	86.18% (106/123)	15.45% (19/123)	 <p>Protein (polyandrocarpa lectin) Platelet aggregation inducer</p>
	1jwiB (123)	69-78 (10), 85-96 (12)	72-75 (4), 88-96 (9)	59-65 (7), 88-93 (6)						
1049	1byfA (123)	56-78 (23), 81-114 (34)	56-78 (23), 92-94 (3)	58-64 (7), 92-93 (2)	M	0.45	2.46	87.80% (108/123)	17.07% (21/123)	 <p>Protein (polyandrocarpa lectin) Mucroctin beta chain</p>
	1v4iB (125)	269-280 (12), 283-316 (34)	269-280 (12), 294-296 (3)	58-64 (7), 92-93 (2)						

1050	lbyfA (123)	56-68 (13), 71-95 (25)	56-68 (13), 76-95 (20)	61-67 (7), 84-95 (12)	M	0.53	1.89	87.80% (108/123)	16.26% (20/123)	 <p>Protein (polyandrocarpa lectin) Coagulation factor X binding protein</p>
	liodA (129)	69-82 (14), 85-101 (17)	69-82 (14), 90-101 (12)	61-67 (7), 84-95 (12)						
1051	lbyfA (123)	56-69 (14), 76-100 (25)	56-67 (12), 84-100 (17)	59-64 (6), 84-96 (13)	M	0.50	2.04	88.62% (109/123)	14.63% (18/123)	 <p>Protein (polyandrocarpa lectin) Convulxin alpha</p>
	luosA (133)	69-83 (15), 90-106 (17)	69-81 (13), 96-106 (11)	59-64 (6), 84-96 (13)						
1052	lbyfA (123)	56-68 (13), 76-95 (20)	56-67 (12), 76-95 (20)	59-67 (9), 76-95 (20)	M	0.51	2.01	87.80% (108/123)	13.82% (17/123)	 <p>Protein (polyandrocarpa lectin) Coagulation factor IX-binding protein alpha chain</p>
	lj34A (129)	69-82 (14), 90-101 (12)	69-81 (13), 90-101 (12)	59-67 (9), 76-95 (20)						

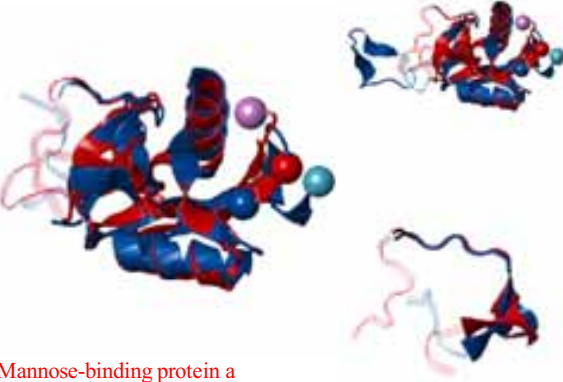
1053	lkza1 (115)	142-182 (41), 185-210 (26)	165-175 (11), 185-210 (26)	167-173 (7), 188-200 (13)	M	0.60	1.68	92.17% (106/115)	19.13% (22/115)	 <p>Mannose-binding protein C Echicetin B-chain</p>
	loz7B (123)	41-86 (46), 89-107 (19)	69-79 (11), 89-107 (19)	167-173 (7), 188-200 (13)						
1054	lkza1 (115)	163-172 (10), 175-211 (37)	163-172 (10), 185-201 (17)	165-172 (8), 187-199 (13)	M	0.61	1.64	92.17% (106/115)	16.52% (19/115)	 <p>Mannose-binding protein C EMS16 B chain</p>
	lukmB (124)	66-75 (10), 78-109 (32)	66-75 (10), 88-96 (9)	165-172 (8), 187-199 (13)						
1055	lkza1 (115)	163-182 (20), 189-207 (19)	164-176 (13), 189-197 (9)	168-174 (7), 189-197 (9)	M	0.63	1.34	93.04% (107/115)	22.61% (26/115)	 <p>Mannose-binding protein C EMS16 a chain</p>
	lukmA (131)	71-92 (22), 99-114 (16)	72-86 (15), 99-101 (3)	168-174 (7), 189-197 (9)						

1056	lkza1 (115)	166-186 (21), 171-208 (38)	166-175 (10), 186-197 (12)	168-173 (6), 186-197 (12)	M	0.61	1.53	91.30% (105/115)	19.13% (22/115)	 <p>Mannose-binding protein C Bitiscetin alpha chain</p>
	luexA (125)	72-94 (23), 79-111 (33)	72-83 (12), 94-97 (4)	168-173 (6), 186-197 (12)						
1057	lkza1 (115)	166-172 (7), 186-212 (27)	166-172 (7), 186-207 (22)	166-171 (6), 186-199 (14)	M	0.59	1.68	91.30% (105/115)	17.39% (20/115)	 <p>Mannose-binding protein C Coagulation factor IX-binding protein B chain</p>
	lj34B (123)	270-276 (7), 290-309 (20)	270-276 (7), 290-304 (15)	166-171 (6), 186-199 (14)						
1058	lkza1 (115)	166-172 (7), 185-200 (16)	166-172 (7), 186-199 (14)	166-172 (7), 190-199 (10)	M	0.59	1.69	91.30% (105/115)	16.52% (19/115)	 <p>Mannose-binding protein C Platelet aggregation inducer</p>
	ljwiB (123)	72-78 (7), 91-98 (8)	72-78 (7), 92-97 (6)	166-172 (7), 190-199 (10)						

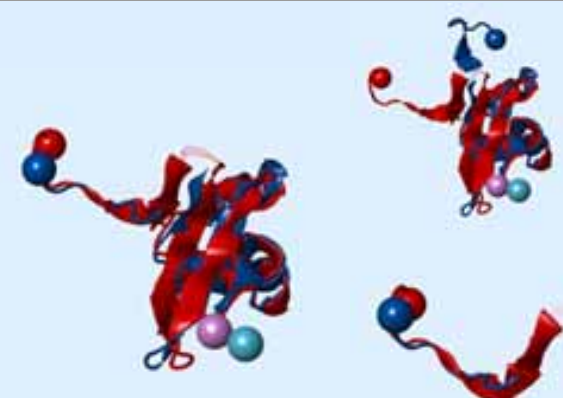
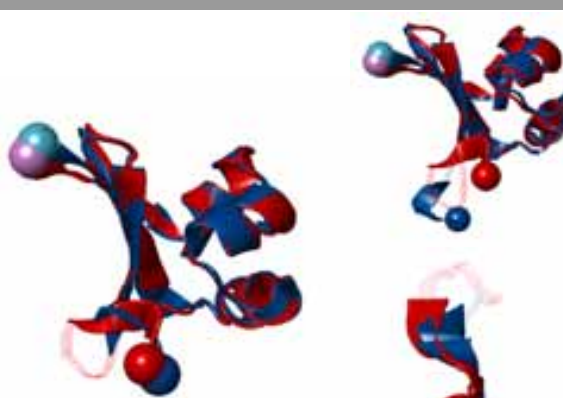
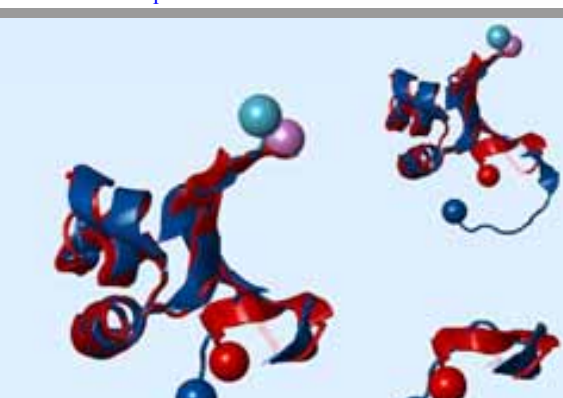
1059	lkza1 (115)	154-176 (23), 179-208 (30)	163-172 (10), 187-207 (21)	166-172 (7), 187-199 (13)	M	0.62	1.56	92.17% (106/115)	17.39% (20/115)	 <p>Mannose-binding protein C Mucroctein beta chain</p>
	lv4IB (125)	255-282 (28), 285-307 (23)	269-278 (10), 293-306 (14)	166-172 (7), 187-199 (13)						
1060	lkza1 (115)	163-183 (21), 187-210 (24)	163-175 (13), 188-210 (23)	168-172 (5), 188-196 (9)	M	0.61	1.53	93.04% (107/115)	17.39% (20/115)	 <p>Mannose-binding protein C Coagulation factor X binding protein</p>
	liodA (129)	69-91 (23), 95-115 (21)	69-83 (15), 96-115 (20)	168-172 (5), 188-196 (9)						
1061	lkza1 (115)	162-185 (24), 188-208 (21)	163-175 (13), 188-207 (20)	166-171 (6), 188-196 (9)	M	0.60	1.36	91.30% (105/115)	15.65% (18/115)	 <p>Mannose-binding protein C Convulxin alpha</p>
	luosA (133)	68-93 (26), 96-113 (18)	69-83 (15), 96-112 (17)	166-171 (6), 188-196 (9)						

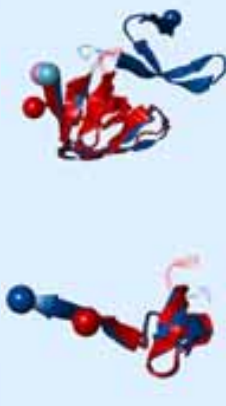
1062	1kza1 (115)	163-181 (19), 187-199 (13)	163-175 (13), 187-198 (12)	166-173 (8), 188-198 (11)	M	0.61	1.53	93.04% (107/115)	20.87% (24/115)	 <p>Mannose-binding protein C Coagulation factor IX-binding protein alpha chain</p>
	1j34A (129)	69-89 (21), 95-101 (7)	69-83 (15), 95-100 (6)	166-173 (8), 188-198 (11)						
1063	lyttA (115)	137-169 (33), 180-205 (26)	160-169 (10), 180-196 (17)	160-168 (9), 183-194 (12)	M	0.55	1.75	92.17% (106/115)	19.13% (22/115)	 <p>Mannose-binding protein a Echicetin B-chain</p>
	1oz7B (123)	41-78 (38), 89-107 (19)	69-78 (10), 89-97 (9)	160-168 (9), 183-194 (12)						
1064	lyttA (115)	157-166 (10), 180-206 (27)	158-166 (9), 180-196 (17)	159-166 (8), 182-194 (13)	M	0.56	1.80	90.43% (104/115)	17.39% (20/115)	 <p>Mannose-binding protein a EMS16 B chain</p>
	lukmB (124)	65-74 (10), 88-109 (22)	66-74 (9), 88-96 (9)	159-166 (8), 182-194 (13)						







1065	lyttA (115)	158-170 (13), 184-202 (19)	158-168 (11), 184-193 (10)	163-168 (6), 184-192 (9)	M	0.59	1.61	93.04% (107/115)	19.13% (22/115)	 <p>Mannose-binding protein a EMS16 a chain</p>
	lukmA (131)	71-85 (15), 99-114 (16)	71-82 (12), 99-102 (4)	163-168 (6), 184-192 (9)						
1066	lyttA (115)	158-167 (10), 182-207 (26)	161-167 (7), 182-207 (26)	161-167 (7), 182-194 (13)	M	0.59	1.74	92.17% (106/115)	17.39% (20/115)	 <p>Mannose-binding protein a Coagulation factor IX-binding protein B chain</p>
	lj34B (123)	267-276 (10), 291-309 (19)	270-276 (7), 291-309 (19)	161-167 (7), 182-194 (13)						
1067	lyttA (115)	158-167 (10), 173-195 (23)	161-167 (7), 173-194 (22)	161-166 (6), 177-194 (18)	M	0.53	2.05	91.30% (105/115)	15.65% (18/115)	 <p>Mannose-binding protein a Platelet aggregation inducer</p>
	ljwiB (123)	69-78 (10), 84-98 (15)	72-78 (7), 84-97 (14)	161-166 (6), 177-194 (18)						

1068	lyttA (115)	148-167 (20), 179-203 (25)	158-167 (10), 182-203 (22)	161-167 (7), 182-194 (13)	M	0.59	1.72	92.17% (106/115)	16.52% (19/115)	 <p>Mannose-binding protein a Mucroctin beta chain</p>
	lv4IB (125)	254-278 (25), 290-307 (18)	269-278 (10), 293-307 (15)	161-167 (7), 182-194 (13)						
1069	lyttA (115)	158-169 (12), 182-207 (26)	158-169 (12), 182-205 (24)	163-167 (5), 183-193 (11)	M	0.57	1.69	92.17% (106/115)	12.17% (14/115)	 <p>Mannose-binding protein a Coagulation factor X binding protein</p>
	liodA (129)	69-82 (14), 95-117 (23)	69-82 (14), 95-115 (21)	163-167 (5), 183-193 (11)						
1070	lyttA (115)	157-170 (14), 183-202 (20)	158-168 (11), 183-202 (20)	161-166 (6), 183-191 (9)	M	0.56	1.80	93.91% (108/115)	14.78% (17/115)	 <p>Mannose-binding protein a Convulxin alpha</p>
	luosA (133)	68-83 (16), 96-112 (17)	69-81 (13), 96-112 (17)	161-166 (6), 183-191 (9)						

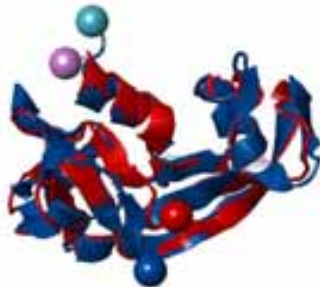

1071	lyttA (115)	158-169 (12), 182-195 (14)	158-168 (11), 182-194 (13)	161-168 (8), 183-193 (11)	M	0.58	1.59	91.30% (105/115)	14.78% (17/115)	 <p>Mannose-binding protein a Coagulation factor IX-binding protein a chain</p>
	1j34A (129)	69-82 (14), 95-102 (8)	69-81 (13), 95-101 (7)	161-168 (8), 183-193 (11)						
1072	2cw1A (65)	42-64 (23)	51-64 (14)	54-58 (5)	C	0.57	2.11	95.08% (58/61)	19.67% (12/61)	 <p>SN4m Lambda CRO repressor</p>
	1d11A (61)	42-60 (19)	51-60 (10)	54-58 (5)						
1073	2cw1A (65)	42-62 (21)	51-62 (12)	55-59 (5)	C	0.55	2.14	95.00% (57/60)	20.00% (12/60)	 <p>SN4m Phage lambda Cro</p>
	2ecsA (60)	42-59 (18)	51-59 (9)	55-59 (5)						

1074	2orcA (71)	43-63 (21)	49-63 (15)	56A-56B (1)	C	0.62	1.71	100.00% (66/66)	81.82% (54/66)	
	2a63A (66)	43-65 (23)	49-65 (17)	56A-56B (1)						
1075	1d1mB (65)	54-64 (11)	54-64 (11)	55-60 (6)	C	0.86	0.91	100.00% (61/61)	91.80% (56/61)	
	1d11A (61)	54-60 (7)	54-60 (7)	55-60 (6)						
1076	1d1mB (65)	45-64 (20)	46-64 (19)	55-56 (2)	C	0.70	1.37	98.46% (64/65)	81.54% (53/65)	
	2a63A (66)	45-64 (20)	46-64 (19)	55-56 (2)						


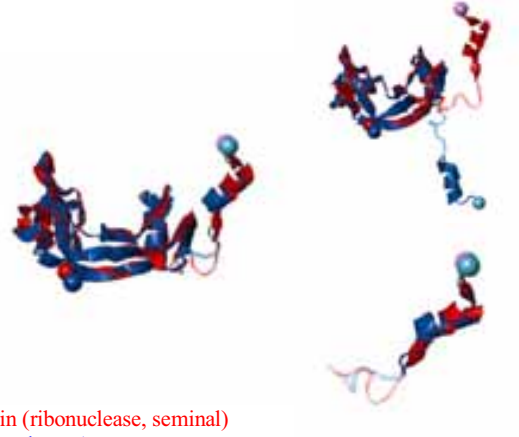
1077	1gcpA (65)	627-635 (9)	628-635 (8)	628-635 (8)	N	0.62	1.46	91.53% (54/59)	18.64% (11/59)	  <p>VAV proto-oncogene Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	33-39 (7)	34-39 (6)	628-635 (8)						
1078	1ckaA (57)	162-169 (8)	162-169 (8)	162-168 (7)	C	0.78	0.82	92.98% (53/57)	26.32% (15/57)	  <p>C-CRK N-terminal SH3 domain Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	34-40 (7)	34-40 (7)	162-168 (7)						
1079	1m3aA (57)	136-190 (55)	162-169 (8)	162-169 (8)	C	0.65	1.59	92.98% (53/57)	26.32% (15/57)	  <p>Proto-oncogene C-crk Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	8-61 (54)	34-40 (7)	162-169 (8)						

1080	1zuyA (58)	30-36 (7)	30-36 (7)	30-36 (7)	C	0.68	1.53	93.10% (54/58)	24.14% (14/58)	  Myosin-5 isoform Epidermal growth factor receptor kinase subst
	1i07A (59)	34-39 (6)	34-39 (6)	30-36 (7)						
1081	1bu1C (56)	108-115 (8)	108-114 (7)	108-113 (6)	C	0.77	0.72	92.86% (52/56)	26.79% (15/56)	  Protein (hemopoietic cell kinase) Epidermal growth factor receptor kinase subst
	1i07A (59)	34-41 (8)	34-40 (7)	108-113 (6)						
1082	1avzC (57)	102-120 (19)	105-120 (16)	112-119 (8)	C	0.73	1.13	92.98% (53/57)	28.07% (16/57)	  FYN tyrosine kinase Epidermal growth factor receptor kinase subst
	1i07A (59)	24-41 (18)	27-41 (15)	112-119 (8)						

1083	2ebpA (73)	13-56 (44)	39-56 (18)	39-46 (8)	C	0.55	1.55	93.22% (55/59)	16.95% (10/59)	  <p>SAM and SH3 domain-containing protein 1 Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	10-51 (42)	34-51 (18)	39-46 (8)						
1084	2eyxA (67)	265-284 (20)	265-284 (20)	267-274 (8)	N	0.65	1.54	96.61% (57/59)	13.56% (8/59)	  <p>V-crk sarcoma virus CT10 oncogene homolog iso Epidermal growth factor receptor kinase subst</p>
	1i07A (59)	32-51 (20)	32-51 (20)	267-274 (8)						
1085	2vq9A (123)	21-25 (5)	21-25 (5)	23-25 (3)	N	0.62	1.66	91.06% (112/123)	30.89% (38/123)	  <p>Rnase 1 Ribonuclease 1</p>
	1h8xA (125)	117-125 (9)	117-125 (9)	23-25 (3)						

1086	1yv7A (102)	10-20 (11)	12-18 (7)	15-18 (4)	N	0.56	1.67	95.10% (97/102)	24.51% (25/102)	 
	1h8xA (125)	112-127 (16)	114-125 (12)	15-18 (4)						
1087	1k5aA (118)	13-24 (12)	14-24 (11)	17-24 (8)	N	0.67	1.50	94.07% (111/118)	34.75% (41/118)	 
	1h8xA (125)	112-124 (13)	113-124 (12)	17-24 (8)						
1088	1un5A (121)	13-24 (12)	15-24 (10)	17-24 (8)	N	0.66	1.52	92.56% (112/121)	35.54% (43/121)	 
	1h8xA (125)	112-124 (13)	114-124 (11)	17-24 (8)						

1089	1a5qA (124)	15-23 (9)	16-23 (8)	17-23 (7)	N	0.86	1.03	98.39% (122/124)	69.35% (86/124)	 Ribonuclease A Ribonuclease 1
	1h8xA (125)	115-123 (9)	116-123 (8)	17-23 (7)						
1090	11bgA (124)	16-22 (7)	16-22 (7)	16-22 (7)	N	0.61	0.70	100.00% (122/122)	99.18% (121/122)	 Protein (bovine seminal ribonuclease) Ribonuclease, seminal
	1r3mB (122)	16-22 (7)	16-22 (7)	16-22 (7)						
1091	11bgA (124)	15-22 (8)	15-22 (8)	15-22 (8)	N	0.90	0.90	99.19% (123/124)	80.65% (100/124)	 Protein (bovine seminal ribonuclease) Ribonuclease A
	1a2wA (124)	15-22 (8)	15-22 (8)	15-22 (8)						

1092	11bgA (124)	15-24 (10)	15-23 (9)	15-23 (9)	N	0.86	1.05	98.39% (122/124)	71.77% (89/124)	 <p>Protein (bovine seminal ribonuclease) Ribonuclease 1</p>
	1h8xA (125)	115-124 (10)	115-123 (9)	15-23 (9)						
1093	11baA (124)	15-24 (10)	15-23 (9)	15-23 (9)	N	0.85	1.16	99.19% (123/124)	74.19% (92/124)	 <p>Protein (ribonuclease, seminal) Ribonuclease 1</p>
	1h8xA (125)	115-124 (10)	115-123 (9)	15-23 (9)						