

Zinc Finger Practice Scoring Event

Team Number			1	2	3	4
1	Topology: N - β 1- loop 1- β 2 - loop 2 - α 1 - C	5				
2a	Blue endcap next to beta strand	0.5				
2b	Red endcap adjacent to helix	0.5				
3a	N terminus at base of V, in front, pointing to 7 o'clock.	0.5				
3b	C terminus at top of V, on right, pointing to 2 o'clock.	0.5				
4a	model is proportional	0.5				
4b	model is to scale	0.5				
5a	one helix	0.5				
5b	helix has 3-4 turns	1				
5c	helix is right handed	1				
5d	helix is uniform in diameter	0.5				
5e	coils in helix are evenly spaced	0.5				
6a	beta strands are distinguishable from loops	1				
6b	two beta strands	1				
6c	two beta strands form one beta sheet	0.5				
6d	beta strands are about half the length of alpha helix	0.5				
6e	beta strands lie parallel to each other	1				
6f	beta strands are antiparallel	0.5				
6g	beta sheet is a flat plane (not twisted)	1				
7a	helix lies on top of beta sheet base	0.5				
7b	C terminus is the highest point of model	0.5				
7c.1	two beta strands form lower portion of one side of V	0.5				
7c.2	two beta strands "frame" alpha helix - not much wider	1				
7d	in V orientation, with helix on right, beta strand 1 is in front	0.5				
7e.1	loop 1 forms base of V	0.5				
7e.2	loop 2 forms upper half of one side of V	0.5				
8	overall shape resembles that of pdb structure	1				
9a	two sides of V should be equal length	1				
9b	angle between helix and sheet should be V, not I or L	1				
10a	cys7 on beta strand 1, midway up V	0.5				
10b	cys12 on loop 1, next to beta strand 2	0.5				
10c	his25 on alpha helix 1, midway up V	0.5				
10d	his29 on alpha helix 1, near C terminus	0.5				
10e	arg18 in loop 2 at base of V	1				
11a	cys7, cys12, his25, his29 face interior of V, pointing towards each other	2				
11b	arg18 pointing outside V, positioned below alpha helix	1				
TOTAL (30 points max.)		30				