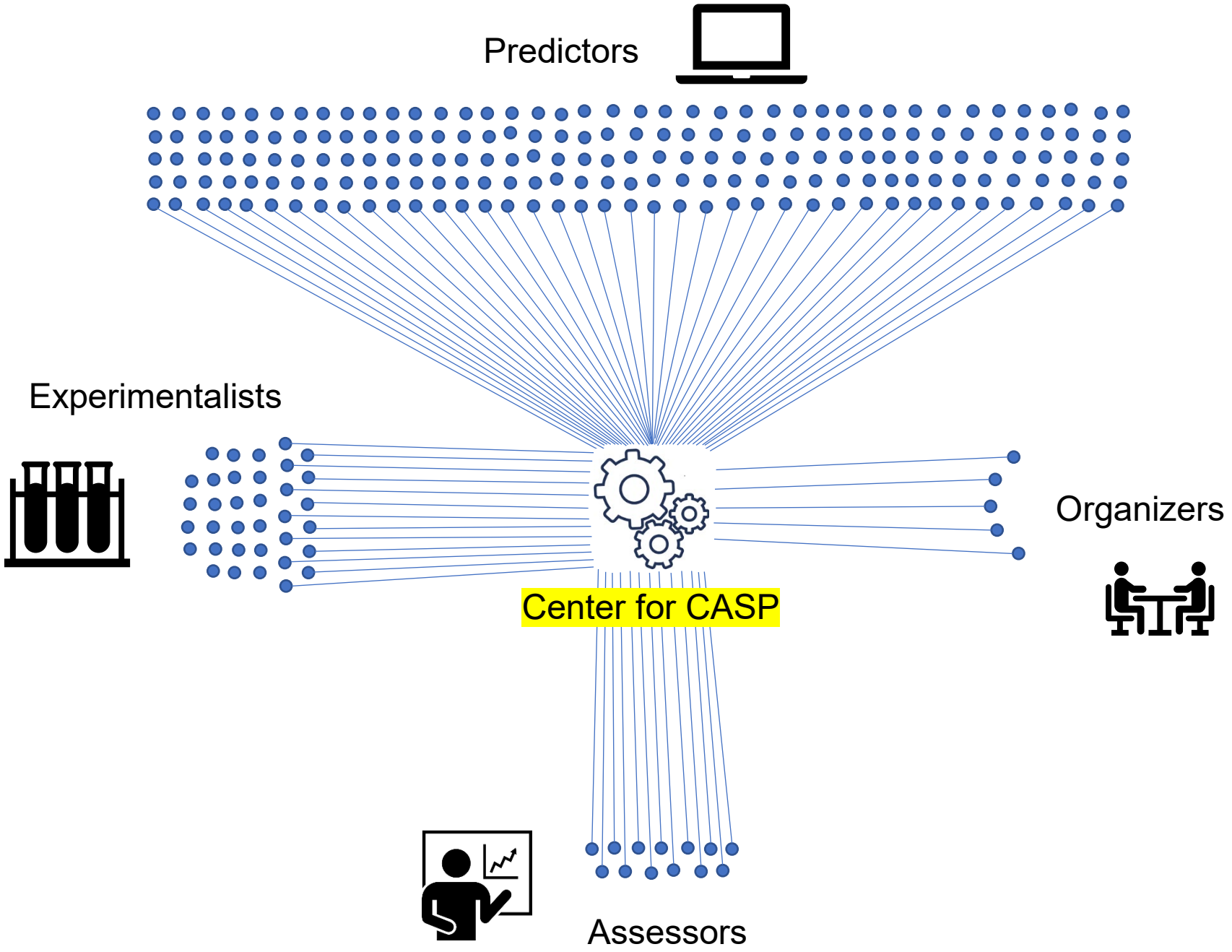

Predictors
Experimentalists
Organizers
Center for CASP
Assessors

Results List

Assessors Home | General Discussions | Domain Definitions and Classifications | Summary on Experimental Sequences | Summary on Target Structures | Available Structures | Target

Tables | GDT Plots | Local Accuracy | Position-specific alignment | Templates | Help

Target: T1026-D1 Group: - All Groups - Model: - All - Multi sort NT=146 residues Text file

General					LGA Sequence Dependent (4Å) Full			LGA Sequence Independent (4Å) Full		MAMMOTH	Dali Full	Molprobity Full	lDDT	SphGr	CAD	
#	Model	GR#	GR Name	Charts	GDT_TS	NP_P	Z-M1-GDT	AL0_P	AL4_P	Z-score	Z-Score	MP-Score	Global score	SG	AA	SS
1.	T1026TS427_1-D1	427	AlphaFold2	A D I G	93.84	100.00	2.18	95.89	99.32	9.51	24.7	1.14	0.81	96.92	0.75	0.63
2.	T1026TS427_4-D1	427	AlphaFold2	A D I G	93.48	100.00	N/A	97.26	100.00	9.60	24.5	1.22	0.80	97.94	0.76	0.62
3.	T1026TS427_5-D1	427	AlphaFold2													
4.	T1026TS427_3-D1	427	AlphaFold2													
5.	T1026TS427_2-D1	427	AlphaFold2													
6.	T1026TS480_1-D1	480	FEIG-R2													
7.	T1026TS018_3-D1	018	UNRES-tem													
8.	T1026TS403_3-D1	403	BAKER-exp													
9.	T1026TS018_1-D1	018	UNRES-tem													
10.	T1026TS362_3-D1	362	Seok-refine													
11.	T1026TS362_2-D1	362	Seok-refine													
12.	T1026TS018_4-D1	018	UNRES-tem													
13.	T1026TS403_5-D1	403	BAKER-exp													

Results List

Assessors Home | General Discussions | Domain Definitions and Classifications | Summary on Experimental Sequences | Summary on Target Structures | Available Structures | Tar

Tables | GDT Plots | Local Accuracy | Position-specific alignment | Templates | Help

Target: T1033 Group: - All Groups - Model: - All - Multi sort NT=100 residues Text file

General					LGA Sequence Dependent (4Å) Full			LGA Sequence Independent (4Å) Full		MAMMOTH	Dali Full	Molprobity Full	lDDT	SphGr	CAD	
#	Model	GR#	GR Name	Charts	GDT_TS	NP_P	Z-M1-GDT	AL0_P	AL4_P	Z-score	Z-Score	MP-Score	Global score	SG	AA	SS
1.	T1033TS427_1	427	AlphaFold2	A D I G	87.50	100.00	5.23	95.00	98.00	7.82	16.2	1.51	0.82	94.50	0.79	0.64
2.	T1033TS427_3	427	AlphaFold2	A D I G	86.50	100.00	N/A	94.00	96.00	7.58	15.6	1.59	0.80	94.50	0.79	0.64
3.	T1033TS427_2	427	AlphaFold2	A D I G	85.75	100.00	N/A	93.00	98.00	7.82	16	1.40	0.81	96.00	0.79	0.63

Results List

Assessors Home | General Discussions | Domain Definitions and Classifications | Summary on Experimental Sequences | Summary on Target Structures | Available Structures | Target

Tables | GDT Plots | Local Accuracy | Position-specific alignment | Templates | Help

Target: T1031-D1 Group: - All Groups - Model: - All - Multi sort NT=95 residues Text file

General					LGA Sequence Dependent (4Å) Full			LGA Sequence Independent (4Å) Full		MAMMOTH	Dali Full	Molprobity Full	lDDT	SphGr	CAD	
#	Model	GR#	GR Name	Charts	GDT_TS	NP_P	Z-M1-GDT	AL0_P	AL4_P	Z-score	Z-Score	MP-Score	Global score	SG	AA	SS
1.	T1031TS427_4-D1	427	AlphaFold2	A D I G	87.63	100.00	N/A	88.42	95.79	7.36	15.9	1.05	0.71	82.11	0.71	0.52
2.	T1031TS427_1-D1	427	AlphaFold2	A D I G	87.37	100.00	3.89	86.32	94.74	7.24	15.8	1.62	0.71	83.16	0.71	0.53
3.	T1031TS427_5-D1	427	AlphaFold2	A D I G	86.84	100.00	N/A	87.37	95.79	7.36	16	1.70	0.72	83.16	0.72	0.54
4.	T1031TS427_2-D1	427	AlphaFold2													
5.	T1031TS427_3-D1	427	AlphaFold2													
6.	T1031TS480_5-D1	480	FEIG-R2													
7.	T1031TS480_1-D1	480	FEIG-R2													
8.	T1031TS473_1-D1	473	BAKER													
9.	T1031TS335_3-D1	335	FEIG													
10.	T1031TS473_2-D1	473	BAKER													
11.	T1031TS480_3-D1	480	FEIG-R2													
12.	T1031TS473_4-D1	473	BAKER													
13.	T1031TS042_1-D1	042 s	QUARK													
14.	T1031TS473_3-D1	473	BAKER													
15.	T1031TS129_1-D1	129	Zhang													

Results List

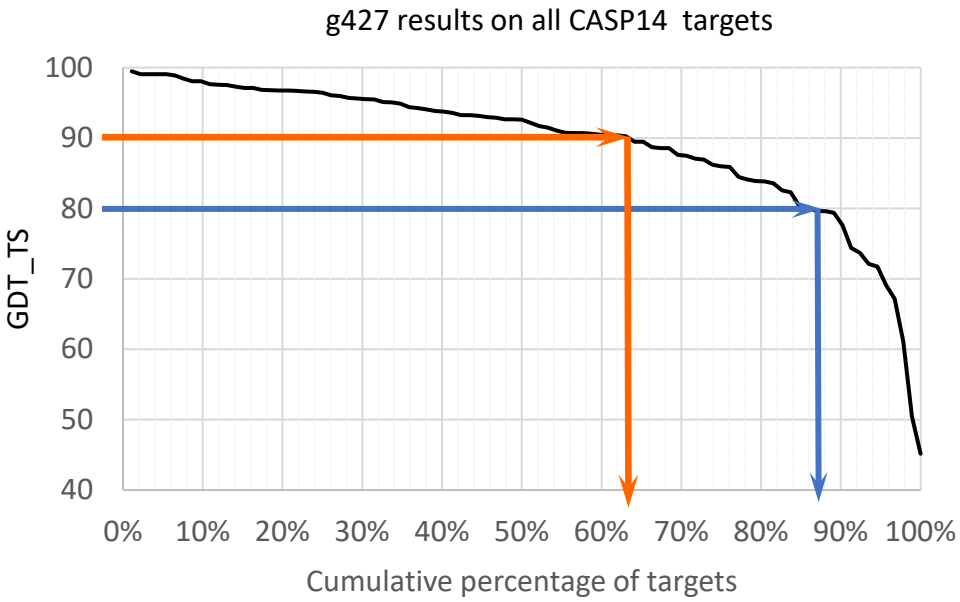
Assessors Home | General Discussions | Domain Definitions and Classifications | Summary on Experimental Sequences | Summary on Target Structures | Available Structures | Targe

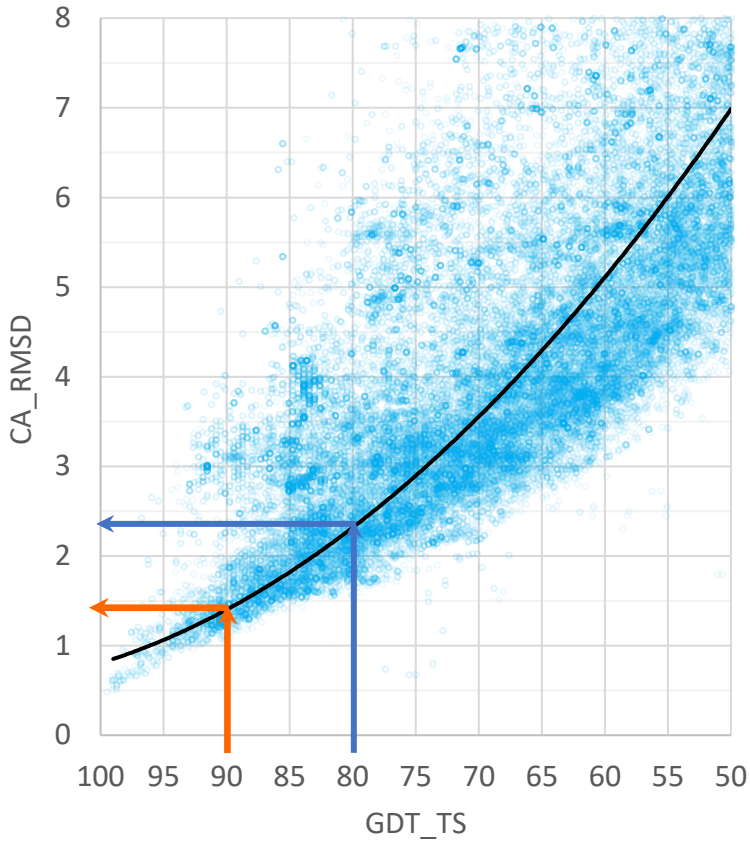
Tables | GDT Plots | Local Accuracy | Position-specific alignment | Templates | Help

Target: T1037-D1 Group: - All Groups - Model: - All - Multi sort NT=404 residues Text file

General					LGA Sequence Dependent (4Å) Full			LGA Sequence Independent (4Å) Full		MAMMOTH	Dali Full	Molprobity Full	lDDT	SphGr	CAD	
#	Model	GR#	GR Name	Charts	GDT_TS	NP_P	Z-M1-GDT	AL0_P	AL4_P	Z-score	Z-Score	MP-Score	Global score	SG	AA	SS
1.	T1037TS427_4-D1	427	AlphaFold2	A D I G	90.72	100.00	N/A	95.79	98.76	13.99	55.1	1.09	0.82	97.28	0.78	0.64
2.	T1037TS427_5-D1	427	AlphaFold2	A D I G	89.56	100.00	N/A	93.56	97.28	13.95	53.2	1.22	0.81	96.16	0.77	0.62
3.	T1037TS427_3-D1	427	AlphaFold2	A D I G	88.43	100.00	N/A	91.83	97.03	13.65	53	1.23	0.80	93.44	0.77	0.61
4.	T1037TS427_2-D1	427	AlphaFold2	A D I G	88.18	100.00	N/A	93.32	98.02	13.86	53.5	1.13	0.80	94.18	0.76	0.62
5.	T1037TS427_1-D1	427	AlphaFold2	A D I G	87.62	100.00	2.71	90.35	95.54	13.65	52.7	0.90	0.79	93.19	0.75	0.60
6.	T1037TS362_1-D1	362	Seok-refine	A D I G	63.12	100.00	1.50	68.32	79.70	10.75	35.7	1.07	0.57	68.19	0.62	0.36
7.	T1037TS362_2-D1	362	Seok-refine	A D I G	62.56	100.00	N/A	66.34	78.22	10.92	35.9	0.97	0.57	68.32	0.62	0.38
8.	T1037TS031_1-D1	031 s	Zhang-CEthreader	A D I G	62.31	100.00	1.46	66.58	79.46	10.62	35.6	1.24	0.57	69.80	0.61	0.36
9.	T1037TS067_2-D1	067	ProQ2	A D I G	62.31	100.00	N/A	66.58	79.46	10.62	35.6	1.24	0.57	69.80	0.61	0.36
10.	T1037TS403_1-D1	403	BAKER-experimental	A D I G	61.88	100.00	1.44	65.84	83.17	11.13	36.7	1.25	0.61	78.09	0.63	0.41
11.	T1037TS129_2-D1	129	Zhang	A D I G	61.70	100.00	N/A	64.60	79.95	10.58	34.7	1.39	0.57	69.93	0.61	0.35
12.	T1037TS473_1-D1	473	BAKER	A D I G	61.63	100.00	1.43	65.35	77.97	10.49	34.7	1.07	0.58	69.18	0.62	0.36
13.	T1037TS226_3-D1	226 s	Zhang-TBM	A D I G	60.64	100.00	N/A	63.37	77.48	10.28	33.8	1.67	0.55	66.46	0.59	0.36

Accuracy of models in CASP14





Excited experimentalists session

(or are protein models useful?)

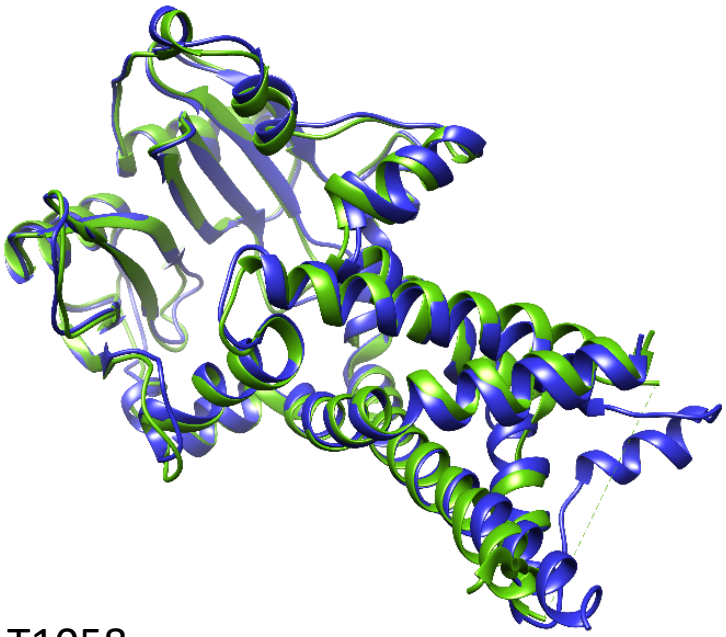
Talks

1. Henning Tidow — *Professor, University of Hamburg*
2. Petr Leiman — *Associate Professor, University of Texas (UTMB)*
3. Osnat Herzberg — *Professor, University of Maryland*
4. Andrei Lupas — *Professor, Max Planck Institute, Tübingen*

Discussion: brief communications

1. Steven Rees — *Post-doctoral fellow at UCSD*
2. Rhys Grinter — *Research Fellow at Monash Unversity*
3. Valerio Chiarini — *Post-doctoral fellow at University of Helsinki*

Excited experimentalists session



T1058
Integral membrane protein

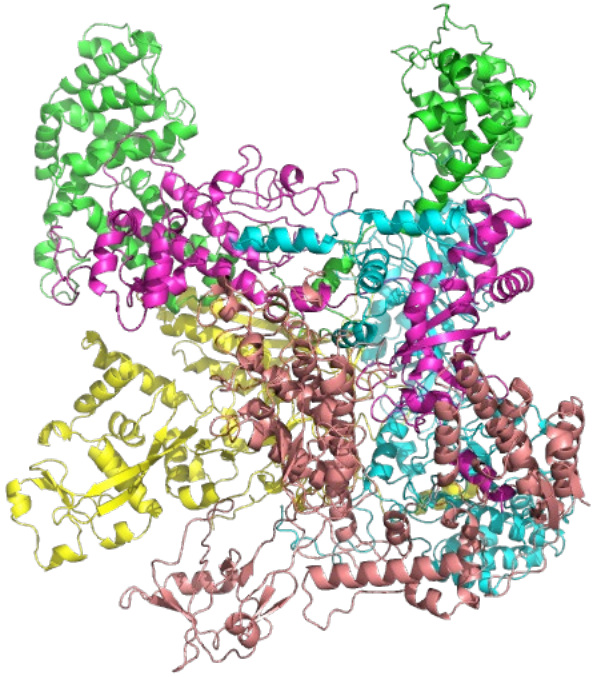
(X-ray phasing)

Henning Tidow
University of Hamburg

The model you sent me (from the leading group) worked for MR and we finally solved the structure by MR-SAD. I am still astonished that the human expert model worked, while none of the server models we tried did not (as they were rather similar). Great job!

Henning

Excited experimentalists session



H1097 [T1092, T1093, T1094, T1095, T1096]
AR9 RNA Polymerase

(threading poly-A model into cryo-EM map)

Petr Leiman
University of Texas (UTMB)

Both my student (Alec Fraser in CC) and I are shocked… stunned… by the quality of the model… We need to re-evaluate what we do here. Alec remarked that he has just learned cryoEM and it is already an antiquated field. My conclusion - you do not need a $10M microscope to get an accurate model. You need to know people who can model your protein for you. Or you learn how do modeling yourself. Seriously, this is mind boggling. You would not believe how much effort we have put into getting this structure. Years of work… Both, cryoEM and crystallography… I mean, this is really shocking...

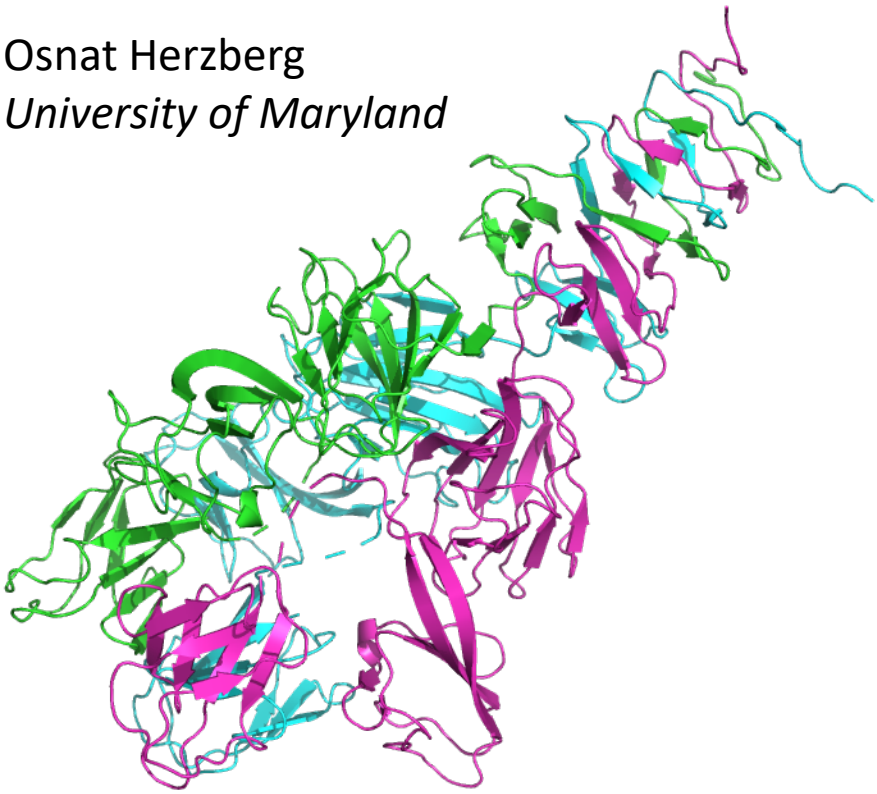
Petr

Excited experimentalists session

T1070
attachment region to the phage tail

(identify registry error)

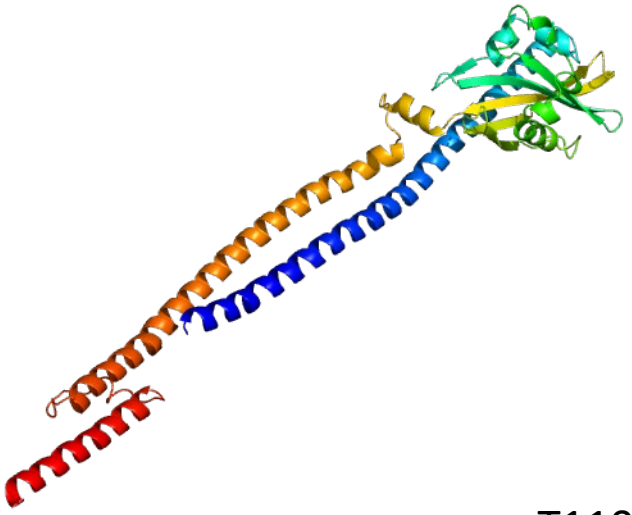
Osnat Herzberg
University of Maryland



Unbelievable. They have predicted residues 16-75 correctly with an RMS of 1.26 A. Also, the prediction includes a different assignment of a cis proline (P236) than my original assignment. It turned out that the predicted version is correct because it enables repositioning of a tyrosine residue (Y247) in the right place. The change, together with another adjustment ultimately results in a 2-residue shift of 20 residues (237-256).

Osnat

Excited experimentalists session



T1100
Transmembrane receptor

(NMR model could not help to solve the same protein)

Andrei Lupas,
Max Planck Institute, Tübingen

I cannot overstate my excitement at the fact that Marcus solved the structure of Af1503 by molecular replacement with the models of group g427 and sent around the coordinates today. I will let him gloat over his success and share the structure when he is ready.

Andrei