

Center for Eukaryotic Structural Genomics Publications

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AUTHORS	YEAR	TITLE	JOURNAL/BOOK	VOL/ISSUE/PAGES	TEAM	TYPE	PDF	CODE	PUBMED
Aceti, D.J., Bitto, E., Yakunin, A.F., Proudfoot, M., Bingman, C.A., Frederick, R.O., Sreenath, H.K., Vojtik, F.C., Wrobel, R.L., Fox, B.G., Markley, J.L., and Phillips, G.N., Jr.	2008	Structural and functional characterization of a novel phosphatase from the <i>Arabidopsis thaliana</i> gene locus At1g05000	<i>Proteins</i>	(in press)	X-ray	Structural		233K	18433060
Aceti, D.J., Blommel, P.G., Endo, Y., Fox, B.G., Frederick, R.O., Hegeman, A.D., Jeon, W.B., Kimball, T.L., Lee, J.M., Newman, C.S., Peterson, F.C., Sawasaki, T., Seder, K.D., Sussman, M.R., Ulrich, E.L., Wrobel, R.L., Thao, S., Vinarov, D.A., Volkman, B.F., and Zhao, Q.	2003	Role of nucleic acid and protein manipulation technologies in high-throughput structural biology efforts	<i>Biopolymers</i> , Wiley-VCH , Weinheim	8:469-96	PP	Method	X	1	
Allard, S.T.M., Bingman, C.A., Johnson, K.A., Wesenberg, G.E., Bitto, E., Jeon, W.B., and Phillips, G.N., Jr.	2005	Structure at 1.6 Å resolution of the protein from gene locus At3g22680 from <i>Arabidopsis thaliana</i>	<i>Acta Crystallograph Sect F Struct Biol Cryst Commun</i>	61(Pt 7):647-50	X-ray	Structural	X	1PK	16511118
Aranda, R., Worley, C.E., Liu, M., Bitto, E., Cates, M.S., Olson, J.S., Lei, B., and Phillips, G.N., Jr.	2007	Bis-methionyl coordination in the crystal structure of the heme-binding domain of the streptococcal cell surface protein Shp	<i>J Mol Biol</i>	374(2):374-83	X-ray	Structural	X	232K	17920629
Arangarasan, R., and Phillips, G.N., Jr.	2002	Modular approach of multimodal integration in a virtual environment	<i>Proceedings of the Fourth IEEE International Conference on Multimodal Interfaces (ICMI '02)</i> , IEEE Computer Society		X-ray	Method	X	1K	
Bae, E., Bingman, C.A., Bitto, E., Aceti, D.J., and Phillips, G.N., Jr.	2008	Crystal structure of <i>Arabidopsis thaliana</i> cytokinin dehydrogenase	<i>Proteins</i>	70:303-6	X-ray	Structural		231K	17886275
Bae, E., Bingman, C.A., Bitto, E., Aceti, D.J., and Phillips, G.N., Jr.	2008	Crystal structure of <i>Homo sapiens</i> protein LOC79017	<i>Proteins</i>	70(2):588-91	X-ray	Structural	X	231K	17932939

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Bae, E., Reiter, N.J., Bingman, C.A., Kwan, S.S., Lee, D., Phillips, G.N., Jr., Butcher, S.E., and Brow, D.A.	2007	Structure and interactions of the first three RNA recognition motifs of splicing factor prp24	<i>J Mol Biol</i>	367(5):1447-58	X-ray	Structural	X	224K	17320109
Bailey, L.J., Elsen, N.L., Pierce, B.S., and Fox, B.G.	2008	Soluble expression and purification of the oxidoreductase component of toluene 4-monooxygenase	<i>Prot Expr Purif</i>	57(1):9-16	Cloning	Method	X	233K	17964805
Bannen, R.M., Bingman, C.A., and Phillips, G.N., Jr.	2008	Effect of low-complexity regions on protein structure determination	<i>JSFG</i>	8(4):217-26	X-ray	Method	X	233K	18302007
Bianchetti, C.M., Yi, L., Ragsdale, S.W., and Phillips, G.N., Jr.	2007	Comparison of apo- and heme-bound crystal structures of a truncated human heme oxygenase-2	<i>J Biol Chem</i>	282(52):37624-31	X-ray	Structural	X	231K	17965015
Bingman, C.A., Johnson, K.A., Peterson, F.C., Frederick, R.O., Zhao, Q., Thao, S., Fox, B.G., Volkman, B.F., Jeon, W.B., Smith, D.W., Newman, C.S., Ulrich, E.L., Hegeman, A.D., Sussman, M.R., Markley, J.L., and Phillips, G.N., Jr.	2004	Crystal structure of the protein from gene At3g17210 of <i>Arabidopsis thaliana</i>	<i>Proteins</i>	57(1):218-20	X-ray	Structural	X	1K	15326607
Bitto, E., Bingman, C.A., Allard, S.T.M., Wesenberg, G.E., Aceti, D.J., Wrobel, R.L., Frederick, R.O., Sreenath, H.K., Vojtik, F.C., Jeon, W.B., Newman, C.S., Primm, J.G., Sussman, M.R., Fox, B.G., Markley, J.L., and Phillips, G.N., Jr.	2005	The structure at 2.4 Å resolution of the protein from gene locus At3g21360, a putative Fell/2-oxoglutarate-dependent enzyme from <i>Arabidopsis thaliana</i>	<i>Acta Crystallograph Sect F Struct Biol Cryst Commun</i>	61(Pt 5):469-72	X-ray	Structural	X	1PK	16511070
Bitto, E., Bingman, C.A., Allard, S.T.M., Wesenberg, G.E., and Phillips, G.N., Jr.	2005	The structure at 1.7 Å resolution of the protein product of the At2g17340 gene from <i>Arabidopsis thaliana</i>	<i>Acta Crystallograph Sect F Struct Biol Cryst Commun</i>	61(Pt 7):630-5	X-ray	Structural	X	1PK	16511115
Bitto, E., Bingman, C.A., Kondrashov, D.A., McCoy, J.G., Bannen, R.M., Wesenberg, G.E., and Phillips, G.N., Jr.	2008	Structure and dynamics of gamma-SNAP: insight into flexibility of proteins from the SNAP family	<i>Proteins</i>	70(1):93-104	X-ray	Structural	X	223K	17634982
Bitto, E., Bingman, C.A., McCoy, J.G., Allard, S.T.M., Wesenberg, G.E., and Phillips, G.N., Jr.	2005	The structure at 1.6 Å resolution of the protein product of the At4g34215 gene from <i>Arabidopsis thaliana</i>	<i>Acta Crystallogr D Biol Crystallogr</i>	61(Pt 12):1655-61	X-ray	Structural	X	21PK	16301800
Bitto, E., Bingman, C.A., Robinson, H., Allard, S.T.M., Wesenberg, G.E., and Phillips,	2005	The crystal structure at 2.5 Å resolution of human basophilic leukemia expressed protein	<i>Acta Crystallograph Sect F Struct Biol Cryst Commun</i>	61(Pt 9):812-7	X-ray	Structural	X	1K	16511166

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G.N., Jr.		BLES03							
Bitto, E., Bingman, C.A., Wesenberg, G.E., McCoy, J.G., and Phillips, G.N., Jr.	2006	Structure of pyrimidine 5'-nucleotidase type 1: Insight into mechanism of action and inhibition during lead poisoning	<i>J Biol Chem</i>	281(29):20521-9	X-ray	Structural	X	21K	16672222
Bitto, E., Bingman, C.A., Wesenberg, G.E., McCoy, J.G., and Phillips, G.N., Jr.	2007	Structure of aspartoacylase, the brain enzyme impaired in Canavan disease	<i>Proc Natl Acad Sci USA</i>	104(2):456-61	X-ray	Structural	X	222PK	17194761
Bitto, E., Huang, Y., Bingman, C.A., Singh, S., Thorson, J.S., and Phillips, G.N., Jr.	2008	The structure of flavin-dependent tryptophan 7-halogenase RebH	<i>Proteins</i>	70(1):289-93	X-ray	Structural	X	231K	17876823
Blommel, P.G., Becker, K.J., Duvnjak, P., and Fox, B.G.	2007	Enhanced bacterial protein expression during auto-induction obtained by alteration of lac repressor dosage and medium composition	<i>Biotechnol Prog</i>	23(3):585-98	Cloning	Method	X	222K	17506520
Blommel, P.G., and Fox, B.G.	2005	Fluorescence anisotropy for proteolysis of specifically labeled fusion proteins	<i>Anal Biochem</i>	336(1):75-86	Cloning	Method	X	1K	15582561
Blommel, P.G., and Fox, B.G.	2007	A combined approach to improving large-scale production of tobacco etch virus protease	<i>Prot Expr Purif</i>	55(1P):53-68	Cloning	Method	X	222K	17543538
Blommel, P.G., Martin, P.A., Wrobel, R.L., Steffen, E., and Fox, B.G.	2006	High-efficiency single-step production of expression plasmids from cDNA clones using the FlexiVector cloning system	<i>Prot Expr Purif</i>	47(2):562-70	X-ray	Method	X	21K	16377204
Blommel, P.G., Smith, D.W., Bingman, C.A., Dyer, D.H., Rayment, I., Holden, H.M., Fox, B.G., and Phillips, G.N., Jr.	2004	Crystal structure of gene locus At3g16990 from <i>Arabidopsis thaliana</i>	<i>Proteins</i>	57(1):221-2	X-ray	Structural	X	1K	15326608
Chae, Y.K., Im, H., Zhao, Q., Doelling, J.H., Vierstra, R.D., and Markley, J.L.	2004	Prevention of aggregation after refolding by balanced stabilization-destabilization: production of the <i>Arabidopsis thaliana</i> protein APG8a (At4g21980) for NMR structure determination	<i>Prot Expr Purif</i>	34(2):280-3	NMR	Structural	X	1K	15003262
Chae, Y.K., Lee, K., and Markley, J.L.	2005	^1H , ^{15}N , and ^{13}C resonance assignments of a protein involved in the autophagy process, At4g21980.1 from <i>Arabidopsis thaliana</i>	<i>J Biomol NMR</i>	32(4):337	NMR	Structural	X	21K	16211491

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Cornilescu, C.C., Porter, F.W., Zhao, K.Q., Palmberg, A.C., and Markley, J.L.	2008	NMR structure of the mengovirus Leader protein zinc-finger domain	<i>FEBS Lett</i>	582(6):896-900	NMR	Structural	X	233K	18291103
Cornilescu, G., Bahrami, A., Tonelli, M., Markley, J.L., and Eghbalnia, H.R.	2007	HIFI-C: a robust and fast method for determining NMR couplings from adaptive 3D to 2D projections	<i>J Biomol NMR</i>	38(4):341-51	NMR	Method	X	231K	17610130
Cornilescu, G., Cornilescu, C.C., Zhao, Q., Frederick, R.O., Peterson, F.C., Thao, S., and Markley, J.L.	2004	Solution structure of a homodimeric hypothetical protein, At5g22580, a structural genomics target from <i>Arabidopsis thaliana</i>	<i>J Biomol NMR</i>	29(3):387-90	NMR	Structural	X	1K	15213437
Cornilescu, G., Hadley, E.B., Woll, M.G., Markley, J.L., Gellman, S.H., and Cornilescu, C.C.	2007	Solution structure of a small protein containing a fluorinated side chain in the core	<i>Protein Sci</i>	16(1):14-9	NMR	Structural	X	223PK	17123960
Cornilescu, G., Vinarov, D.A., Tyler, E.M., Markley, J.L., and Cornilescu, C.C.	2006	Solution structure of a single-domain thiosulfate sulfurtransferase from <i>Arabidopsis thaliana</i>	<i>Protein Sci</i>	15(12):2836-41	NMR	Structural	X	21PK	17088324
Davis, C.A., Bingman, C.A., Landick, R., Record, M.T., Jr., and Saecker, R.M.	2007	Real-time footprinting of DNA in the first kinetically significant intermediate in open complex formation by <i>Escherichia coli</i> RNA polymerase	<i>Proc Natl Acad Sci USA</i>	104(19):7833-8	X-ray	Method	X	233K	17470797
de la Cruz, N.B., Peterson, F.C., Lytle, B.L., and Volkman, B.F.	2007	Solution structure of a membrane-anchored ubiquitin-fold (MUB) protein from <i>Homo sapiens</i>	<i>Protein Sci</i>	16(7):1479-84	NMR	Structural	X	224K	17567738
de la Cruz, N.B., Peterson, F.C., and Volkman, B.F.	2008	Solution structure of At3g28950 from <i>Arabidopsis thaliana</i>	<i>Proteins</i>	71(2):546-51	NMR	Structural	X	233K	18214976
Dias, J.S., Macedo, A.L., Ferreira, G.C., Peterson, F.C., Volkman, B.F., and Goodfellow, B.J.	2006	The first structure from the SOUL/HBP family of heme-binding proteins, murine P22HBP	<i>J Biol Chem</i>	281(42):31553-61	NMR	Structural	X	21K	16905545
DiMaio, F., Shavlik, J.D., and Phillips, G.N., Jr.	2006	A probabilistic approach to protein backbone tracing in electron density maps	<i>Bioinformatics</i>	22(14):e81-9	BI	Method	X	21K	16873525
DiMaio, F., Soni, A., Phillips, G.N., Jr., and Shavlik, J.	2008	Improved methods for template-matching electron density maps using spherical harmonics	<i>IEEE-BIBM Conference Proceedings</i>	(in press)	X-ray	Method	X	231K	
DiMaio, F., Soni, A., Phillips, G.N., Jr., and Shavlik, J.W.	2007	Creating all-atom protein models from electron-density maps using particle-filtering methods	<i>Bioinformatics</i>	23(21):2851-8	BI	Method	X	222K	17933855

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Doreleijers, J.F., Mading, S., Maziuk, D., Sojourner, K., Yin, L., Zhu, J., Markley, J.L., and Ulrich, E.L.	2004	BioMagResBank database with sets of experimental NMR constraints corresponding to the structures of over 1400 biomolecules deposited in the Protein Data Bank	<i>J Biomol NMR</i>	26(2):139-46	BI	Method	X	1K	12766409
Doreleijers, J.F., Nederveen, A.J., Vranken, W., Lin, J., Bonvin, A.M.J.J., Kaptein, R., Markley, J.L., and Ulrich, E.L.	2005	BioMagResBank databases DOCR and FRED with converted and filtered sets of experimental NMR restraints and coordinates from over 500 protein PDB structures	<i>J Biomol NMR</i>	32(1):1-12	BI	Method	X	1K	16041478
Eghbalnia, H.R., Bahrami, A., Tonelli, M., Hallenga, K., and Markley, J.L.	2005	High-resolution iterative frequency identification for NMR as a general strategy for multidimensional data collection	<i>J Am Chem Soc</i>	127(36):12528-36	NMR	Method	X	21K	16144400
Eghbalnia, H.R., Bahrami, A., Wang, L., Assadi, A., and Markley, J.L.	2005	Probabilistic Identification of Spin Systems and Their Assignments including Coil-Helix Inference as Output (PISTACHIO)	<i>J Biomol NMR</i>	32(3):219-33	NMR	Method	X	21K	16132822
Eghbalnia, H.R., Wang, L., Bahrami, A., Assadi, A., and Markley, J.L.	2005	Protein energetic conformational analysis from NMR chemical shifts (PECAN) and its use in determining secondary structural elements	<i>J Biomol NMR</i>	32(1):71-81	NMR	Method	X	1K	16041485
Fogh, R., Ionides, J., Ulrich, E.L., Boucher, W., Vranken, W., Linge, J.P., Habeck, M., Rieping, W., Bhat, T.N., Westbrook, J., Henrick, K., Gilliland, G., Berman, H., Thornton, J.T., Nilges, M., Markley, J.L., and Laue, E.	2002	The CCPN project: an interim report on a data model for the NMR community	<i>Nature Struct Biol</i>	9(6):416-8	NMR	Method	X	1K	12032555
Fox, B.G., Goulding, C., Malkowski, M.G., Stewart, L., and Deacon, A.	2008	Structural genomics: from genes to structures with valuable materials and many questions in between	<i>Nat Methods</i>	5(2):129-32	None	Method	X	233K	18235432
Fox, B.G., Malone, T.E., Aceti, D.J., Bingman, C.A., Blommel, P.G., Buchan, B.W., Burns, B.T., Cao, J., Cornilescu, C.C., Doreleijers, J.F., Ellefson, J.M., Frederick, R.O., Geetha, H.V., Hruby, D., Jeon, W.B., Johnson, K.A., Kimball, T.L., Kunert, J., Madson, S.E., Markley, J.L., Newman, C.S., Olson, A.C., Peterson, F.C., Phillips, G.N., Jr.,	2005	X-ray structure of <i>Arabidopsis</i> At1g77680, 12-oxophytodienolate reductase isoforms 1	<i>Proteins</i>	61(1):206-8	X-ray	Structural	X	21K	16080145

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Primm, J.G., Ramirez, B., Rosenberg, N.S., Runnels, M., Seder, K.D., Shaw, J., Smith, D.W., Sreenath, H.K., Song, J., Sussman, M., R., Thao, S., Troestler, D.M., Tyler, E.M., Tyler, R.C., Ulrich, E.L., Vinarov, D.A., Vojtik, F.C., Volkman, B.F., Wesenberg, G.E., Wrobel, R.L., Zhang, J., Zhao, Q., and Zolnai, Z.									
Frederick, R.O., Bergeman, L., Blommel, P.G., Bailey, L.J., McCoy, J.G., Song, J., Meske, L., Bingman, C.A., Ritters, M., Dillon, N.A., Kunert, J., Yoon, J.W., Lim, A., Cassidy, M., Bunge, J., Aceti, D.J., Primm, J.G., Markley, J.L., Phillips, G.N., Jr., and Fox, B.G.	2007	Small-scale, semi-automated purification of eukaryotic proteins for structure determination	<i>JSFG</i>	374(2):374-83	SSET	Method	X	232K	17985212
Han, B.W., Bingman, C.A., Mahnke, D.K., Bannen, R.M., Bednarek, S., Sabina, R.L., and Phillips, G.N., Jr.	2006	Membrane association, mechanism of action, and structure of <i>Arabidopsis</i> embryonic factor 1 (FAC1)	<i>J Biol Chem</i>	281(21):14939-47	X-ray	Structural	X	231K	16543243
Han, B.W., Bingman, C.A., Mahnke, D.K., Sabina, R.L., and Phillips, G.N., Jr.	2005	Crystallization and preliminary X-ray crystallographic analysis of adenosine 5'-monophosphate deaminase (AMPD) from <i>Arabidopsis thaliana</i> in complex with coformycin 5'-phosphate	<i>Acta Crystallograph Sect F Struct Biol Cryst Commun</i>	61(Pt 8):740-2	X-ray	Structural	X	21PK	16511144
Han, B.W., Bingman, C.A., Wesenberg, G.E., and Phillips, G.N., Jr.	2006	Crystal structure of <i>Homo sapiens</i> thialysine Nepsilon-acetyltransferase (HsSSAT2) in complex with acetyl coenzyme A	<i>Proteins</i>	64(1):288-93	X-ray	Structural	X	221K	16596569
Hayes, P.L., Lytle, B.L., Volkman, B.F., and Peterson, F.C.	2008	The solution structure of ZNF593 from <i>Homo sapiens</i> reveals a zinc finger in a predominately unstructured protein	<i>Protein Sci</i>	17(3):571-6	NMR	Structural	X	233K	18287285
Hegeman, A.D., Rodriguez, M., Han, B.W., Uno, Y., Phillips, G.N., Jr., Hrabak, E.M., Cushman, J.C., Harper, J.F., Harmon, A.C., and Sussman, M.R.	2006	A phyloproteomic characterization of <i>in vitro</i> autophosphorylation in calcium dependent protein kinases	<i>Proteomics</i>	6(12):3649-64	X-ray	Method	X	221K	16758442
Jamrog, D.C., Phillips, G.N., Jr., Tapia, R., and Zhang, Y.	2005	A global optimization method for the molecular replacement problem in X-ray crystallography	<i>Mathematical Programming</i>	Series B	X-ray	Method	X	1K	

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Jamrog, D.C., Zhang, Y., and Phillips, G.N., Jr.	2003	SOMoRe: a multi-dimensional search and optimization approach to molecular replacement	<i>Acta Crystallogr D Biol Crystallogr</i>	59(Pt 2):304-14	X-ray	Method	X	1K	12554941
Jamrog, D.C., Zhang, Y., and Phillips, G.N., Jr.	2004	On the equivalence between a commonly used correlation coefficient and a least-squares function	<i>Acta Crystallogr A</i>	60(Pt 3):214-9	X-ray	Method	X	1K	15103164
Jeon, W.B., Aceti, D.J., Bingman, C.A., Vojtik, F.C., Olson, A.C., Ellefson, J.M., McCombs, J.E., Sreenath, H.K., Blommel, P.G., Seder, K.D., Buchan, B.W., Burns, B.T., Geetha, H.V., Harms, A., Sabat, G., Sussman, M.R., Fox, B.G., and Phillips, G.N., Jr.	2005	High-throughput purification and quality assurance of <i>Arabidopsis thaliana</i> proteins for eukaryotic structural genomics	<i>JSFG</i>	6:143-7	PP	Method	X	1K	16211511
Jeon, W.B., Allard, S.T.M., Bingman, C.A., Bitto, E., Han, B.W., Wesenberg, G.E., and Phillips, G.N., Jr.	2006	X-ray crystal structures of the conserved hypothetical proteins from <i>Arabidopsis thaliana</i> gene loci At5g11950 and At2g37210	<i>Proteins</i>	65(4):1051-4	X-ray	Structural	X	221K	17048257
Johnson, R.J., McCoy, J.G., Bingman, C.A., Phillips, G.N., Jr., and Raines, R.T.	2007	Inhibition of human pancreatic ribonuclease by the human ribonuclease inhibitor protein	<i>J Mol Biol</i>	368(2):434-49	X-ray	Structural	X	223PK	17350650
Kennedy, M.A., Montelione, G., Arrowsmith, C.H., and Markley, J.L.	2002	Role for NMR in structural genomics	<i>JSFG</i>	2(3):155-69	NMR	Method	X	1K	12836706
Kifer, I., Sasson, O., and Linial, M.	2005	Predicting fold novelty based on ProtoNet hierarchical classification	<i>Bioinformatics</i>	21(7):1020-7	BI	Method	X	1K	15539447
Kundu, S., Melton, J.S., Sorensen, D.C., and Phillips, G.N., Jr.	2002	Dynamics of proteins in crystals: comparison of experiment with simple models	<i>Biophys J</i>	83(2):723-32	X-ray	Method	X	1K	12124259
Kundu, S., Sorensen, D.C., and Phillips, G.N., Jr.	2004	Automatic domain decomposition of proteins by a Gaussian Network Model	<i>Proteins</i>	57(4):725-33	BI	Method	X	1K	15478120
Lee, J.E., Bae, E., Bingman, C.A., Phillips, G.N., Jr., and Raines, R.T.	2007	Structural basis for catalysis by onconase	<i>J Mol Biol</i>	:165-77	X-ray	Structural	X	222PK	18001769
Levin, E.J., Kondrashov, D.A., Wesenberg, G.E., and Phillips, G.N., Jr.	2007	Ensemble refinement of protein crystal structures, validation, and application	<i>Structure</i>	15(9):1040-52	X-ray	Method	X	231K	17850744
Lytle, B.L., Peterson, F.C., Kjer, K.L., Frederick, R.O., Zhao, Q., Thao, S., Bingman, C.A.,	2004	Structure of the hypothetical protein At3g17210 from <i>Arabidopsis thaliana</i>	<i>J Biomol NMR</i>	28(4):397-400	NMR	Structural	X	1K	14872131

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Johnson, K.A., Phillips, G.N., Jr., and Volkman, B.F.									
Lytle, B.L., Peterson, F.C., Qiu, S.-H., Luo, M., Zhao, Q., Markley, J.L., and Volkman, B.F.	2004	Solution structure of a ubiquitin-like domain from tubulin-binding cofactor B	<i>J Biol Chem</i>	279(45):46787-93	NMR	Structural	X	1K	15364906
Lytle, B.L., Peterson, F.C., Tyler, E.M., Vinarov, D.A., Markley, J.L., and Volkman, B.F.	2006	Solution structure of <i>Arabidopsis thaliana</i> protein At5g39720.1, a member of the AIG2-like protein family	<i>Acta Crystallograph Sect F Struct Biol Cryst Commun</i>	62(Pt 6):490-3	NMR	Structural	X	221K	16754964
Malone, T.E., Madson, S.E., Wrobel, R.L., Jeon, W.B., Rosenberg, N.S., Johnson, K.A., Bingman, C.A., Smith, D.W., Phillips, G.N., Jr., Markley, J.L., and Fox, B.G.	2004	X-ray structure of <i>Arabidopsis</i> At2g06050, 12-oxophytodienoate reductase isoform 3	<i>Proteins</i>	58(1):243-5	X-ray	Structural	X	1K	15468319
Markley, J.L.	2007	NMR-Based Structural Proteomics	<i>Spectral Techniques in Proteomics, Blackwell Publishing, Taylor and Francis Ltd.</i>	349-71	NMR	Method	X	224	
Markley, J.L., Ulrich, E.L., Westler, W.M., and Volkman, B.F.	2003	Macromolecular structure determination by NMR spectroscopy	<i>Methods of Biochemical Analysis, Wiley Publishers</i>	44:89-113	NMR	Method		1K	12647383
McCoy, J.G., Arabshahi, A., Bitto, E., Bingman, C.A., Ruzicka, F.J., Frey, P.A., and Phillips, G.N., Jr.	2006	Structure and mechanism of an ADP-glucose phosphorylase from <i>Arabidopsis thaliana</i>	<i>Biochemistry</i>	45(10):3154-62	X-ray	Structural	X	21K	16519510
McCoy, J.G., Bailey, L.J., Bitto, E., Bingman, C.A., Aceti, D.J., Fox, B.G., and Phillips, G.N., Jr.	2006	Structure and mechanism of mouse cysteine dioxygenase	<i>Proc Natl Acad Sci USA</i>	103(9):3084-9	X-ray	Structural	X	21PK	16492780
McCoy, J.G., Bingman, C.A., Bitto, E., Holdorf, M.M., Makaroff, C.A., and Phillips, G.N., Jr.	2006	Structure of an ETHE1-like protein from <i>Arabidopsis thaliana</i>	<i>Acta Crystallogr D Biol Crystallogr</i>	62(Pt 9):964-70	X-ray	Structural	X	21K	16929096
McCoy, J.G., Bitto, E., Bingman, C.A., Wesenberg, G.E., Bannen, R.M., Kondrashov, D.A., and Phillips, G.N., Jr.	2006	Structure and dynamics of UDP-glucose pyrophosphorylase from <i>Arabidopsis thaliana</i> with bound UDP-glucose and UTP	<i>J Mol Biol</i>	366(3):830-41	X-ray	Structural	X	221PK	17178129
Moe, L.A., Bingman, C.A., Wesenberg, G.E., Phillips, G.N., Jr., and Fox, B.G.	2006	Structure of T4moC, the Rieske-type ferredoxin component of toluene 4-monoxygenase	<i>Acta Crystallogr D Biol Crystallogr</i>	62(Pt 5):476-82	X-ray	Structural	X	21K	16627939
Nederveen, A.J., Doreleijers, J.F., Vranken, W., Miller, Z., Spronk, C.A.E.M., Nabuurs, S.B., Guntert, P., Livny, M., Markley, J.L., Nilges, M., Ulrich, E.L., Kaptein, J.	2005	RECOORD: a recalculated coordinate database of 500+ proteins from the PDB using restraints from the BioMagResBank	<i>Proteins</i>	59(4):662-72	BI	Method	X	1K	15822098

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R., and Bonvin, A.M.J.J.									
Oldfield, C.J., Ulrich, E.L., Cheng, Y.G., Dunker, A.K., and Markley, J.L.	2004	Addressing the intrinsic disorder bottleneck in structural proteomics	<i>Proteins</i>	59(3):444-53	BI	Method	X	1K	15789434
Pan, X., Wesenberg, G.E., Markley, J.L., Fox, B.G., Phillips, G.N., Jr., and Bingman, C.A.	2008	A graphical approach to tracking and reporting target status in structural genomics	<i>JSFG</i>	8(4):209-16	BI	Method	X	233K	18236171
Peterson, F.C., Hayes, P.L., Waltner, J.K., Heisner, A.K., Jensen, D.R., Sander, T.L., and Volkman, B.F.	2006	Structure of the SCAN domain from the tumor suppressor protein MZF1	<i>J Mol Biol</i>	363(1):137-47	NMR	Structural	X	21PK	16950398
Peterson, F.C., Lytle, B.L., Sampath, S., Vinarov, D.A., Tyler, E.M., Shahan, M.N., Markley, J.L., and Volkman, B.F.	2005	Solution structure of thioredoxin h1 from <i>Arabidopsis thaliana</i>	<i>Protein Sci</i>	14(8):2195-200	NMR	Structural	X	1K	15987893
Phillips, G.N., Jr., Fox, B.G., Markley, J.L., Volkman, B.F., Bae, E., Bitto, E., Bingman, C.A., Frederick, R.O., McCoy, J.G., Lytle, B.L., Pierce, B.S., Song, J., and Twigger, S.N.	2007	Structures of proteins of biomedical interest from the Center for Eukaryotic Structural Genomics	<i>JSFG</i>	8(2-3):73-84	All	Structural	X	231K	17786587
Rayment, I.	2002	Small-scale batch crystallization of proteins revisited: an underutilized way to grow large protein crystals	<i>Structure</i>	10(2):147-51	X-ray	Method	X	1K	11839300
Sabina, R.L., Paul, A.L., Ferl, R.J., Laber, B., and Lindell, S.D.	2007	Adenine nucleotide pool perturbation is a metabolic trigger for AMP deaminase inhibitor-based herbicide toxicity	<i>Plant Physiol</i>	143(4):1752-60	None	Method	X	224K	17307896
Sasson, O., and Linial, M.	2005	Predicting fold novelty based on ProtoNet hierarchical classification	<i>Bioinformatics</i>	21(7):1020-7	BI	Method	X	21K	15539447
Singh, S., Cornilescu, C.C., Tyler, R.C., Cornilescu, G., Tonelli, M., Lee, M.S., and Markley, J.L.	2005	Solution structure of a late embryogenesis abundant protein (LEA14) from <i>Arabidopsis thaliana</i> , a cellular stress-related protein	<i>Protein Sci</i>	14(10):2601-9	NMR	Structural	X	21K	16155204
Singh, S., Hager, M.H., Zhang, C., Griffith, B.R., Lee, M.S., Hallenga, K., Markley, J.L., and Thorson, J.S.	2006	Structural insight into the self-sacrifice mechanism of enediyne resistance	<i>ACS Chem Biol</i>	1(7):451-60	NMR	Structural	X	221K	17168523
Singh, S., Tonelli, M., Tyler, R.C., Bahrami, A., Lee, M.S., and Markley, J.L.	2005	Three-dimensional structure of the AAH26994.1 protein from <i>Mus musculus</i> , a putative eukaryotic Urm1	<i>Protein Sci</i>	14(8):2095-102	NMR	Structural	X	1K	16046629

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Skjeldal, L., Peterson, F.C., Moe, L.A., Pikus, J.D., Doreleijers, J.F., Volkman, B.F., Westler, W.M., Markley, J.L., and Fox, B.G.	2004	Solution structure of T4moC, the Rieske ferredoxin component of the toluene 4-monooxygenase complex	<i>J Inorg Biol Chem</i>	9(8):945-53	NMR	Structural	X	1K	15452777
Smith, D.W., Johnson, K.A., Bingman, C.A., Aceti, D.J., Blommel, P.G., Wrobel, R.L., Frederick, R.O., Zhao, Q., Sreenath, H.K., Fox, B.G., Volkman, B.F., Jeon, W.B., Newman, C.S., Ulrich, E.L., Hegeman, A.D., Kimball, T.L., Thao, S., Sussman, M.R., Markley, J.L., and Phillips, G.N., Jr.	2004	Crystal structure of At2g03760, a putative steroid sulfotransferase from <i>Arabidopsis thaliana</i>	<i>Proteins</i>	57(4):854-7	X-ray	Structural	X	1K	15317023
Sobrado, P., Goren, M.A., James, D., Amundson, C.K., and Fox, B.G.	2008	A Protein Structure Initiative approach to expression, purification, and <i>in situ</i> delivery of human cytochrome b5 to membrane vesicles.	<i>Protein Expr Purif</i>	58(2):229-41	Cloning	Method	X		18226920
Song, J., Bettendorff, L., Tonelli, M., and Markley, J.L.	2008	Structural basis for the catalytic mechanism of mammalian 25 kDa thiamine triphosphatase	<i>J Biol Chem</i>	(in press)	NMR	Structural	X	233K	18276586
Song, J., Guo, L.W., Muradov, H., Artemyev, N.O., Ruoho, A.E., and Markley, J.L.	2008	Intrinsically disordered {gamma}-subunit of cGMP phosphodiesterase encodes functionally relevant transient secondary and tertiary structure	<i>Proc Natl Acad Sci USA</i>	(in press)	NMR	Structural	X	233PK	18230733
Song, J., Lee, M.S., Carlberg, I., Vener, A.V., and Markley, J.L.	2006	Micelle-induced folding of spinach thylakoid soluble phosphoprotein of 9 kDa and its functional implications	<i>Biochemistry</i>	45(51):15633-43	NMR	Structural	X	221PK	17176085
Song, J., and Markley, J.L.	2007	Three-dimensional structure determined for a subunit of human tRNA splicing endonuclease (Sen15) reveals a novel dimeric fold	<i>J Mol Biol</i>	366(1):155-64	NMR	Structural	X	222K	17166513
Song, J., and Markley, J.L.	2007	Cautionary tail: the presence of an N-terminal tag on dynein light-chain Roadblock/LC7 affects its interaction with a functional partner	<i>Protein Pept Lett</i>	14(3):265-8	NMR	Structural	X	222K	17346231
Song, J., Tyler, R.C., Lee, M.S., Tyler, E.M., and Markley, J.L.	2005	Solution structure of isoform 1 of Roadblock/LC7, a light chain in the dynein complex	<i>J Mol Biol</i>	354(5):1043-51	NMR	Structural	X	21K	16289575

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Song, J., Tyler, R.C., Wrobel, R.L., Frederick, R.O., Vojtik, F.C., Jeon, W.B., Lee, M.S., and Markley, J.L.	2005	Solution structure of At3g04780.1-des15, an <i>Arabidopsis thaliana</i> ortholog of the C-terminal domain of human thioredoxin-like protein	<i>Protein Sci</i>	14(4):1059-63	NMR	Structural	X	1K	15741346
Song, J., Vinarov, D.A., Tyler, E.M., Shahan, M.N., Tyler, R.C., and Markley, J.L.	2004	Hypothetical protein At2g24940.1 from <i>Arabidopsis thaliana</i> has a cytochrome B5 like fold	<i>J Biomol NMR</i>	30(2):215-8	NMR	Structural	X	1K	15702529
Song, J., Zhao, K.Q., Newman, C.L., Vinarov, D.A., and Markley, J.L.	2007	Solution structure of human sorting nexin 22	<i>Protein Sci</i>	16(5):807-14	NMR	Structural	X	224PK	17400918
Song, J., Zhao, Q., Lee, M.S., and Markley, J.L.	2005	¹ H, ¹⁵ N, and ¹³ C resonance assignments of the putative Bet v 1 family protein At1g24000.1 from <i>Arabidopsis thaliana</i>	<i>J Biomol NMR</i>	32(4):335	NMR	Structural	X	21K	16211487
Song, J., Zhao, Q., Thao, S., Frederick, R.O., and Markley, J.L.	2004	Solution structure of a calmodulin-like calcium-binding domain from <i>Arabidopsis thaliana</i>	<i>J Biomol NMR</i>	30(4):451-6	NMR	Structural	X	1K	15630565
Sreenath, H.K., Bingman, C.A., Buchan, B.W., Seder, K.D., Burns, B.T., Geetha, H.V., Jeon, W.B., Vojtik, F.C., Aceti, D.J., Frederick, R.O., Phillips, G.N., Jr., and Fox, B.G.	2005	Protocols for production of selenomethionine-labeled proteins in 2-L polyethylene terephthalate bottles using auto-induction medium	<i>Prot Expr Purif</i>	40(2):256-67	PP	Method	X	1K	15766867
Stolc, V., Samanta, M.P., Tongprasit, W., Sethi, H., Liang, S., Hegeman, A.D., Nelson, C., Rancou, D., Bednarek, S., Ulrich, E.L., Zhao, Q., Wrobel, R.L., Newman, C.S., Fox, B.G., Phillips, G.N., Jr., Markley, J.L., and Sussman, M.R.	2005	Identification of transcribed sequences in <i>Arabidopsis thaliana</i> using high-resolution genome tiling arrays	<i>Proc Natl Acad Sci USA</i>	102(12):4453-8	Cloning	Method	X	1K	15755812
Sugimori, N., Torizawa, T., Aceti, D.J., Thao, S., Markley, J.L., and Kainosho, M.	2004	¹ H, ¹³ C, and ¹⁵ N backbone assignment of a 32 kDa hypothetical protein from <i>Arabidopsis thaliana</i> At3g16450.1	<i>J Biomol NMR</i>	30(3):357-8	NMR	Structural	X	1K	15756462
Thao, S., Zhao, Q., Kimball, T., Steffen, E., Blommel, P.G., Ritters, M., Newman, C.S., Fox, B.G., and Wrobel, R.L.	2004	Results from high-throughput DNA cloning of <i>Arabidopsis thaliana</i> target genes using site-specific recombination	<i>JSFG</i>	5(4):267-76	Cloning	Method	X	1K	15750721
Torizawa, T., Shimizua, M., Taoka, M., Miyano, H., and Kainosho, M.	2004	Efficient production of isotopically labeled proteins by cell-free synthesis: a practical	<i>J Biomol NMR</i>	30(3):311-25	Cell-Free	Method	X	1K	15754057

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		protocol							
Tyler, R.C., Aceti, D.J., Bingman, C.A., Cornilescu, C.C., Fox, B.G., Frederick, R.O., Jeon, W.B., Lee, M.S., Newman, C.S., Peterson, F.C., Phillips, G.N., Jr., Shahan, M.N., Singh, S., Song, J., Sreenath, H.K., Tyler, E.M., Ulrich, E.L., Vinarov, D.A., Vojtik, F.C., Volkman, B.F., Wrobel, R.L., Zhao, Q., and Markley, J.L.	2005	Comparison of cell-based and cell-free protocols for producing target proteins from <i>Arabidopsis thaliana</i> for structural studies	<i>Proteins</i>	59(3):633-43	NMR	Method	X	1K	15789406
Tyler, R.C., Bitto, E., Berndsen, C.E., Bingman, C.A., Singh, S., Lee, M.S., Wesenberg, G.E., Denu, J.M., Phillips, G.N., Jr., and Markley, J.L.	2006	Structure of <i>Arabidopsis thaliana</i> At1g77540 protein, a minimal acetyltransferase from the COG2388 family	<i>Biochemistry</i>	45(48):14325-36	X-ray	Structural	X	221K	17128971
Tyler, R.C., Sreenath, H.K., Aceti, D.J., Bingman, C.A., Singh, S., Markley, J.L., and Fox, B.G.	2004	Auto-induction medium for the production of [U - ^{15}N] and [U - ^{13}C , U - ^{15}N]-labeled proteins for NMR screening and structure determination	<i>Prot Expr Purif</i>	40(2):268-78	NMR	Method	X	1K	15766868
Vinarov, D.A., Lytle, B.L., Peterson, F.C., Tyler, E.M., Volkman, B.F., and Markley, J.L.	2004	Cell-free protein production and labeling protocol for NMR-based structural proteomics	<i>Nat Methods</i>	1(2):149-53	Cell-Free	Method	X	1K	15782178
Vinarov, D.A., and Markley, J.L.	2005	High-throughput automated platform for nuclear magnetic resonance-based structural proteomics	<i>Expert Rev Proteomics</i>	2(1):49-55	Cell-Free	Method	X	1K	15966852
Vinarov, D.A., Newman, C.L., and Markley, J.L.	2006	Wheat germ cell-free platform for eukaryotic protein production	<i>FEBS J</i>	273(18):4160-9	Cell-Free	Method	X	222K	16930128
Vinarov, D.A., Newman, C.L., Tyler, E.M., Markley, J.L., and Shahan, M.N.	2006	Wheat germ cell-free expression system for protein production	<i>Current Protocols in Protein Science</i> , Wiley Interscience		Cell-Free	Method	X	231K	
Waltner, J.K., Lytle, B.L., Sampath, S., Vinarov, D.A., Tyler, E.M., Shahan, M.N., Markley, J.L., and Volkman, B.F.	2005	Structure of the B3 domain from <i>Arabidopsis thaliana</i> protein At1g16640	<i>Protein Sci</i>	14(9):2478-83	NMR	Structural	X	1K	16081658
Wang, L., Eghbalnia, H.R., Bahrami, A., and Markley, J.L.	2005	Linear analysis of carbon-13 chemical shift differences and its application to the detection and correction of errors in referencing and spin system identifications	<i>J Biomol NMR</i>	32(1):13-22	NMR	Method	X	1K	16041479

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Wang, L., Eghbalnia, H.R., and Markley, J.L.	2006	Probabilistic approach to determining unbiased random-coil carbon-13 chemical shift values from the protein chemical shift database	<i>J Biomol NMR</i>	35(3):155-65	NMR	Method	X	21K	16799859
Wang, L., Eghbalnia, H.R., and Markley, J.L.	2007	Nearest-neighbor effects on backbone alpha and beta carbon chemical shifts in proteins	<i>J Biomol NMR</i>	39(3):247-57	NMR	Method	X	231K	17899393
Wrobel, R.L., Bingman, C.A., Jeon, W.B., Song, J., Vinarov, D.A., Frederick, R.O., Aceti, D.J., Sreenath, H.K., Zolnai, Z., Vojtki, F.C., Bitto, E., Fox, B.G., Phillips, G.N., Jr., and Markley, J.L.	2006	Structural Proteomics	<i>Plant Proteomics, Blackwell Publishing</i>	99-128	Cloning	Method		21	
Zhao, Q., Chae, Y.K., and Markley, J.L.	2002	NMR solution structure of ATTP, an <i>Arabidopsis thaliana</i> trypsin inhibitor	<i>Biochemistry</i>	41:12284-96	NMR	Structural	X	1K	12369816
Zhao, Q., Frederick, R.O., Seder, K.D., Thao, S., Sreenath, H.K., Peterson, F.C., Volkman, B.F., Markley, J.L., and Fox, B.G.	2004	Production in two-liter beverage bottles of proteins for NMR structure determination labeled with either ^{15}N - or ^{13}C ; ^{15}N	<i>JSFG</i>	5(1-2):87-93	NMR	Method	X	1K	15263847
Zolnai, Z., Lee, P.T., Li, J., Chapman, M.R., Newman, C.S., Phillips, G.N., Jr., Rayment, I., Ulrich, E.L., Volkman, B.F., and Markley, J.L.	2003	Project management system for structural and functional proteomics: Sesame	<i>JSFG</i>	4(1):11-23	Sesame	Method	X	1K	12943363