Jill Trewhella

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137 papers	5,388 citations	43 h-index	67 g-index
161 ext. papers	5,892 ext. citations	5.4 avg, IF	5.47 L-index

#	Paper	IF	Citations
137	Comparison of the crystal and solution structures of calmodulin and troponin C. *Biochemistry*, **1988**, 27, 909-15	3.2	317
136	Small-angle scattering for structural biology--expanding the frontier while avoiding the pitfalls. *Protein Science*, **2010**, 19, 642-57	6.3	298
135	Refinement of multidomain protein structures by combination of solution small-angle X-ray scattering and NMR data. *Journal of the American Chemical Society*, **2005**, 127, 16621-8	16.4	185
134	2017 publication guidelines for structural modelling of small-angle scattering data from biomolecules in solution: an update. *Acta Crystallographica Section D: Structural Biology*, **2017**, 73, 710-728	5.5	145
133	Outcome of the First wwPDB Hybrid/Integrative Methods Task Force Workshop. *Structure*, **2015**, 23, 1156-67	5.2	131
132	MULCh: modules for the analysis of small-angle neutron contrast variation data from biomolecular assemblies. *Journal of Applied Crystallography*, **2008**, 41, 222-226	3.8	128
131	Changes in the structure of calmodulin induced by a peptide based on the calmodulin-binding domain of myosin light chain kinase. *Biochemistry*, **1989**, 28, 6757-64	3.2	118
130	A model structure of the muscle protein complex 4Ca2+.troponin C.troponin I derived from small-angle scattering data: implications for regulation. *Biochemistry*, **1994**, 33, 12800-6	3.2	111
129	Publication guidelines for structural modelling of small-angle scattering data from biomolecules in solution. *Acta Crystallographica Section D: Biological Crystallography*, **2012**, 68, 620-6		107
128	Cardiac myosin-binding protein C decorates F-actin: implications for cardiac function. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 18360-5	11.5	99
127	Calmodulin and troponin C structures studied by Fourier transform infrared spectroscopy: effects of Ca2+ and Mg2+ binding. *Biochemistry*, **1989**, 28, 1294-301	3.2	94
126	Refined solution structure of the 82-kDa enzyme malate synthase G from joint NMR and synchrotron SAXS restraints. *Journal of Biomolecular NMR*, **2008**, 40, 95-106	3	93
125	Troponin I encompasses an extended troponin C in the Ca(2+)-bound complex: a small-angle X-ray and neutron scattering study. *Biochemistry*, **1994**, 33, 8233-9	3.2	89
124	The structure of human SFPQ reveals a coiled-coil mediated polymer essential for functional aggregation in gene regulation. *Nucleic Acids Research*, **2015**, 43, 3826-40	20.1	81
123	The relative orientation of Gla and EGF domains in coagulation factor X is altered by Ca2+ binding to the first EGF domain. A combined NMR-small angle X-ray scattering study. *Biochemistry*, **1996**, 35, 11547-59	3.2	76
122	The assembly of immunoglobulin-like modules in titin: implications for muscle elasticity. *Journal of Molecular Biology*, **1998**, 284, 761-77	6.5	75
121	Phosphorylation-dependent conformational transition of the cardiac specific N-extension of troponin I in cardiac troponin. *Journal of Molecular Biology*, **2007**, 373, 706-22	6.5	73

120	Functional dynamics of the hydrophobic cleft in the N-domain of calmodulin. *Biophysical Journal*, **2001**, 80, 2082-92	2.9	71
119	Small-angle scattering studies show distinct conformations of calmodulin in its complexes with two peptides based on the regulatory domain of the catalytic subunit of phosphorylase kinase. *Biochemistry*, **1990**, 29, 9316-24	3.2	71
118	Evolution of quaternary structure in a homotetrameric enzyme. *Journal of Molecular Biology*, **2008**, 380, 691-703	6.5	70
117	Structures of calmodulin and a functional myosin light chain kinase in the activated complex: a neutron scattering study. *Biochemistry*, **1997**, 36, 6017-23	3.2	66
116	Report of the wwPDB Small-Angle Scattering Task Force: data requirements for biomolecular modeling and the PDB. *Structure*, **2013**, 21, 875-81	5.2	65
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114	Assignment of segments of the bacteriorhodopsin sequence to positions in the structural map. *Biophysical Journal*, **1983**, 42, 233-41	2.9	64
113	Effects of macromolecular crowding on an intrinsically disordered protein characterized by small-angle neutron scattering with contrast matching. *Biophysical Journal*, **2011**, 100, 1120-8	2.9	62
112	Myosin light chain kinase: functional domains and structural motifs. *Acta Physiologica Scandinavica*, **1998**, 164, 471-82		61
111	Synaptic arrangement of the neuroligin/beta-neurexin complex revealed by X-ray and neutron scattering. *Structure*, **2007**, 15, 693-705	5.2	60
110	The structure of the KinA-Sda complex suggests an allosteric mechanism of histidine kinase inhibition. *Journal of Molecular Biology*, **2007**, 368, 407-20	6.5	59
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108	PDB-Dev: a Prototype System for Depositing Integrative/Hybrid Structural Models. *Structure*, **2017**, 25, 1317-1318	5.2	58
107	Small-angle X-ray scattering reveals the N-terminal domain organization of cardiac myosin binding protein C. *Journal of Molecular Biology*, **2008**, 377, 1186-99	6.5	55
106	The solution structure of a cardiac troponin C-troponin I-troponin T complex shows a somewhat compact troponin C interacting with an extended troponin I-troponin T component. *Biochemistry*, **2002**, 41, 15654-63	3.2	53
105	Conformational differences among solution structures of the type Ialpha, IIalpha and IIbeta protein kinase A regulatory subunit homodimers: role of the linker regions. *Journal of Molecular Biology*, **2004**, 337, 1183-94	6.5	50
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99	Quaternary structures of a catalytic subunit-regulatory subunit dimeric complex and the holoenzyme of the cAMP-dependent protein kinase by neutron contrast variation. *Journal of Biological Chemistry*, **1998**, 273, 30448-59	5.4	45
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3	The Structure of the Muscle Protein Complex 4Ca2+□Troponin C□Troponin I **1996**, 137-147		
2	Small-Angle Scattering of Neutrons and X-Rays1-11		
1	Contrasting DNA-binding behaviour by ISL1 and LHX3 underpins differential gene targeting in neuronal cell specification. *Journal of Structural Biology: X*, **2021**, 5, 100043	2.9	