Mitsuhiko Ikura

List of Publications by Year in Descending Order

271 papers	26,326 citations	78 h-index	158 g-index
319 ext. papers	28,656 ext. citations	10 avg, IF	6.77 L-index

#	Paper	IF	Citations
271	Regulation of GTPase function by autophosphorylation.. *Molecular Cell*, **2022**, 82, 950-968.e14	17.6	2
270	Structures of RGL1 RAS-Association domain in complex with KRAS and the oncogenic G12V mutant.. *Journal of Molecular Biology*, **2022**, 167527	6.5	0
269	Lung cancer driven by BRAF mutation is targetable by EGFR kinase inhibitors. *Journal of Thoracic Oncology*, **2021**,	8.9	2
268	The Q61H mutation decouples KRAS from upstream regulation and renders cancer cells resistant to SHP2 inhibitors. *Nature Communications*, **2021**, 12, 6274	17.4	5
267	Oncogenic KRAS G12D mutation promotes dimerization through a second, phosphatidylserine-dependent interface: a model for KRAS oligomerization. *Chemical Science*, **2021**, 12, 12827-12837	9.4	6
266	The p.E152K-STIM1 mutation deregulates Ca signaling contributing to chronic pancreatitis. *Journal of Cell Science*, **2021**, 134,	5.3	1
265	Multivalent assembly of KRAS with the RAS-binding and cysteine-rich domains of CRAF on the membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12101-12108	11.5	22
264	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. *Angewandte Chemie - International Edition*, **2020**, 59, 11037-11045	16.4	34
263	Calmodulin disrupts plasma membrane localization of farnesylated KRAS4b by sequestering its lipid moiety. *Science Signaling*, **2020**, 13,	8.8	15
262	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. *Angewandte Chemie*, **2020**, 132, 11130-11138	3.6	3
261	A Non-Canonical Calmodulin Target Motif Comprising a Polybasic Region and Lipidated Terminal Residue Regulates Localization. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
260	Real-Time In-Cell NMR Reveals the Intracellular Modulation of GTP-Bound Levels of RAS. *Cell Reports*, **2020**, 32, 108074	10.6	11
259	NMR in integrated biophysical drug discovery for RAS: past, present, and future. *Journal of Biomolecular NMR*, **2020**, 74, 531-554	3	4
258	Coordination of a Single Calcium Ion in the EF-hand Maintains the Off State of the Stromal Interaction Molecule Luminal Domain. *Journal of Molecular Biology*, **2020**, 432, 367-383	6.5	8
257	Expression and Purification of Calmodulin for NMR and Other Biophysical Applications. *Methods in Molecular Biology*, **2019**, 1929, 207-221	1.4	1
256	Does stromal interaction molecule-1 have five senses?. *Cell Calcium*, **2019**, 77, 79-80	4	5
255	Tyrosyl phosphorylation of KRAS stalls GTPase cycle via alteration of switch I and II conformation. *Nature Communications*, **2019**, 10, 224	17.4	43

254	Structural elements of stromal interaction molecule function. *Cell Calcium*, **2018**, 73, 88-94	4	16
253	Multiplexed Real-Time NMR GTPase Assay for Simultaneous Monitoring of Multiple Guanine Nucleotide Exchange Factor Activities from Human Cancer Cells and Organoids. *Journal of the American Chemical Society*, **2018**, 140, 4473-4476	16.4	3
252	Inhibition of K-RAS4B by a Unique Mechanism of Action: Stabilizing Membrane-Dependent Occlusion of the Effector-Binding Site. *Cell Chemical Biology*, **2018**, 25, 1327-1336.e4	8.2	46
251	Force-dependent allostery of the α-catenin actin-binding domain controls adherens junction dynamics and functions. *Nature Communications*, **2018**, 9, 5121	17.4	40
250	Backbone resonance assignments of the F-actin binding domain of mouse αN-catenin. *Biomolecular NMR Assignments*, **2017**, 11, 21-24	0.7	1
249	Evolution of AF6-RAS association and its implications in mixed-lineage leukemia. *Nature Communications*, **2017**, 8, 1099	17.4	15
248	MARK3-mediated phosphorylation of ARHGEF2 couples microtubules to the actin cytoskeleton to establish cell polarity. *Science Signaling*, **2017**, 10,	8.8	28
247	Inhibition of RAS function through targeting an allosteric regulatory site. *Nature Chemical Biology*, **2017**, 13, 62-68	11.7	177
246	Store operated calcium entry: From concept to structural mechanisms. *Cell Calcium*, **2017**, 63, 3-7	4	34
245	From Stores to Sinks: Structural Mechanisms of Cytosolic Calcium Regulation. *Advances in Experimental Medicine and Biology*, **2017**, 981, 215-251	3.6	5
244	Multiple Calmodulin-Binding Sites Positively and Negatively Regulate Arabidopsis CYCLIC NUCLEOTIDE-GATED CHANNEL12. *Plant Cell*, **2016**, 28, 1738-51	11.6	53
243	Conformational states of syntaxin-1 govern the necessity of N-peptide binding in exocytosis of PC12 cells and Caenorhabditis elegans. *Molecular Biology of the Cell*, **2016**, 27, 669-85	3.5	7
242	Biochemical Classification of Disease-associated Mutants of RAS-like Protein Expressed in Many Tissues (RIT1). *Journal of Biological Chemistry*, **2016**, 291, 15641-52	5.4	8
241	An interaction between Scribble and the NADPH oxidase complex controls M1 macrophage polarization and function. *Nature Cell Biology*, **2016**, 18, 1244-1252	23.4	27
240	Missense mutation in immunodeficient patients shows the multifunctional roles of coiled-coil domain 3 (CC3) in STIM1 activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6206-11	11.5	45
239	Oncogenic and RASopathy-associated K-RAS mutations relieve membrane-dependent occlusion of the effector-binding site. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6625-30	11.5	142
238	Structural Determinants of the Mechanical Stability of α-Catenin. *Journal of Biological Chemistry*, **2015**, 290, 18890-903	5.4	18
237	Structural insights into endoplasmic reticulum stored calcium regulation by inositol 1,4,5-trisphosphate and ryanodine receptors. *Biochimica Et Biophysica Acta - Molecular Cell Research* , **2015**, 1853, 1980-91	4.9	40

236	Point mutations of the mTOR-RHEB pathway in renal cell carcinoma. *Oncotarget*, **2015**, 6, 17895-910	3.3	49
235	Calmodulin and STIM proteins: Two major calcium sensors in the cytoplasm and endoplasmic reticulum. *Biochemical and Biophysical Research Communications*, **2015**, 460, 5-21	3.4	43
234	Real-time NMR monitoring of biological activities in complex physiological environments. *Current Opinion in Structural Biology*, **2015**, 32, 39-47	8.1	48
233	Forkhead followed by disordered tail: The intrinsically disordered regions of FOXO3a. *Intrinsically Disordered Proteins*, **2015**, 3, e1056906		10
232	Largen: a molecular regulator of mammalian cell size control. *Molecular Cell*, **2014**, 53, 904-15	17.6	19
231	Intracellular calcium channels: inositol-1,4,5-trisphosphate receptors. *European Journal of Pharmacology*, **2014**, 739, 39-48	5.3	34
230	Integrated RAS signaling defined by parallel NMR detection of effectors and regulators. *Nature Chemical Biology*, **2014**, 10, 223-30	11.7	55
229	The RhoGEF GEF-H1 is required for oncogenic RAS signaling via KSR-1. *Cancer Cell*, **2014**, 25, 181-95	24.3	64
228	Mechanistic insight into GPCR-mediated activation of the microtubule-associated RhoA exchange factor GEF-H1. *Nature Communications*, **2014**, 5, 4857	17.4	42
227	p120RasGAP is a mediator of rho pathway activation and tumorigenicity in the DLD1 colorectal cancer cell line. *PLoS ONE*, **2014**, 9, e86103	3.7	12
226	A coiled-coil clamp controls both conformation and clustering of stromal interaction molecule 1 (STIM1). *Journal of Biological Chemistry*, **2014**, 289, 33231-44	5.4	85
225	Structure-guided mutation of the conserved G3-box glycine in Rheb generates a constitutively activated regulator of mammalian target of rapamycin (mTOR). *Journal of Biological Chemistry*, **2014**, 289, 12195-201	5.4	11
224	Structure and Function of the mTOR Activator Rheb **2014**, 281-324		1
223	Transcriptional/epigenetic regulator CBP/p300 in tumorigenesis: structural and functional versatility in target recognition. *Cellular and Molecular Life Sciences*, **2013**, 70, 3989-4008	10.3	198
222	Structure and function of endoplasmic reticulum STIM calcium sensors. *Current Topics in Membranes*, **2013**, 71, 59-93	2.2	23
221	Initial activation of STIM1, the regulator of store-operated calcium entry. *Nature Structural and Molecular Biology*, **2013**, 20, 973-81	17.6	150
220	High-resolution structure of TBP with TAF1 reveals anchoring patterns in transcriptional regulation. *Nature Structural and Molecular Biology*, **2013**, 20, 1008-14	17.6	45
219	Monomeric Ecatenin links cadherin to the actin cytoskeleton. *Nature Cell Biology*, **2013**, 15, 261-73	23.4	138

218	An autoinhibited structure of α-catenin and its implications for vinculin recruitment to adherens junctions. *Journal of Biological Chemistry*, **2013**, 288, 15913-25	5.4	86
217	Type 2 ryanodine receptor domain A contains a unique and dynamic α-helix that transitions to a β-strand in a mutant linked with a heritable cardiomyopathy. *Journal of Molecular Biology*, **2013**, 425, 4034-46	6.5	35
216	Ryanodine receptor calcium release channels: lessons from structure-function studies. *FEBS Journal* , **2013**, 280, 5456-70	5.7	51
215	Interaction domains of Sos1/Grb2 are finely tuned for cooperative control of embryonic stem cell fate. *Cell*, **2013**, 152, 1008-20	56.2	45
214	Membrane-dependent modulation of the mTOR activator Rheb: NMR observations of a GTPase tethered to a lipid-bilayer nanodisc. *Journal of the American Chemical Society*, **2013**, 135, 3367-70	16.4	56
213	STIM1/Orai1 coiled-coil interplay in the regulation of store-operated calcium entry. *Nature Communications*, **2013**, 4, 2963	17.4	152
212	A Ca2+-dependent mechanism of neuronal survival mediated by the microtubule-associated protein p600. *Journal of Biological Chemistry*, **2013**, 288, 24452-64	5.4	11
211	CaBP1, a neuronal Ca2+ sensor protein, inhibits inositol trisphosphate receptors by clamping intersubunit interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8507-12	11.5	34
210	NMR-based functional profiling of RASopathies and oncogenic RAS mutations. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4574-9	11.5	152
209	Structural aspects of calcium-release activated calcium channel function. *Channels*, **2013**, 7, 344-53	3	27
208	A comparative CEST NMR study of slow conformational dynamics of small GTPases complexed with GTP and GTP analogues. *Angewandte Chemie - International Edition*, **2013**, 52, 10771-4	16.4	28
207	A Comparative CEST NMR Study of Slow Conformational Dynamics of Small GTPases Complexed with GTP and GTP Analogues. *Angewandte Chemie*, **2013**, 125, 10971-10974	3.6	5
206	Structural basis of CBP/p300 recruitment in leukemia induction by E2A-PBX1. *Blood*, **2012**, 120, 3968-77	2.2	33
205	Structural determination of the phosphorylation domain of the ryanodine receptor. *FEBS Journal*, **2012**, 279, 3952-64	5.7	38
204	Probing the GTPase cycle with real-time NMR: GAP and GEF activities in cell extracts. *Methods*, **2012** , 57, 473-85	4.6	28
203	Mechanistic insight into the microtubule and actin cytoskeleton coupling through dynein-dependent RhoGEF inhibition. *Molecular Cell*, **2012**, 45, 642-55	17.6	64
202	An autoinhibited noncanonical mechanism of GTP hydrolysis by Rheb maintains mTORC1 homeostasis. *Structure*, **2012**, 20, 1528-39	5.2	25
201	The signaling adaptor GAB1 regulates cell polarity by acting as a PAR protein scaffold. *Molecular Cell*, **2012**, 47, 469-83	17.6	28

200	Molecular structure and target recognition of neuronal calcium sensor proteins. *Frontiers in Molecular Neuroscience*, **2012**, 5, 10	6.1	18
199	The STIM-Orai Pathway **2012**, 15-31		1
198	Themes and variations in ER/SR calcium release channels: structure and function. *Physiology*, **2012**, 27, 331-42	9.8	19
197	Structural and functional conservation of key domains in InsP3 and ryanodine receptors. *Nature*, **2012**, 483, 108-12	50.4	142
196	Structures of KIX domain of CBP in complex with two FOXO3a transactivation domains reveal promiscuity and plasticity in coactivator recruitment. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6078-83	11.5	70
195	p120-catenin binding masks an endocytic signal conserved in classical cadherins. *Journal of Cell Biology*, **2012**, 199, 365-80	7.3	141
194	The three-dimensional structure of the cadherin-catenin complex. *Sub-Cellular Biochemistry*, **2012**, 60, 39-62	5.5	29
193	Themes and Variations in Endoplasmic Reticulum Calcium Release Channels: Structure and Function. *Seibutsu Butsuri*, **2012**, 52, 266-271	0	
192	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. *EMBO Journal*, **2011**, 30, 1678-89	13	183
191	Auto-inhibitory role of the EF-SAM domain of STIM proteins in store-operated calcium entry. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1337-42	11.5	108
190	The PTB domain of ShcA couples receptor activation to the cytoskeletal regulator IQGAP1. *EMBO Journal*, **2010**, 29, 884-96	13	21
189	Structure and identification of ADP-ribose recognition motifs of APLF and role in the DNA damage response. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9129-34	11.5	75
188	Tyr-167/Trp-168 in type 1/3 inositol 1,4,5-trisphosphate receptor mediates functional coupling between ligand binding and channel opening. *Journal of Biological Chemistry*, **2010**, 285, 36081-91	5.4	51
187	The N-terminus of hTERT contains a DNA-binding domain and is required for telomerase activity and cellular immortalization. *Nucleic Acids Research*, **2010**, 38, 2019-35	20.1	42
186	Real-time NMR study of three small GTPases reveals that fluorescent 2′(3′)-O-(N-methylanthraniloyl)-tagged nucleotides alter hydrolysis and exchange kinetics. *Journal of Biological Chemistry*, **2010**, 285, 5132-6	5.4	34
185	Structural studies of inositol 1,4,5-trisphosphate receptor: coupling ligand binding to channel gating. *Journal of Biological Chemistry*, **2010**, 285, 36092-9	5.4	43
184	Real-time NMR study of guanine nucleotide exchange and activation of RhoA by PDZ-RhoGEF. *Journal of Biological Chemistry*, **2010**, 285, 5137-45	5.4	30
183	Dynamic and static interactions between p120 catenin and E-cadherin regulate the stability of cell-cell adhesion. *Cell*, **2010**, 141, 117-28	56.2	247

182	Partial unfolding and oligomerization of stromal interaction molecules as an initiation mechanism of store operated calcium entry. *Biochemistry and Cell Biology*, **2010**, 88, 175-83	3.6	22
181	Molecular basis of photochromism of a fluorescent protein revealed by direct 13C detection under laser illumination. *Journal of Biomolecular NMR*, **2010**, 48, 237-46	3	12
180	Secretion of human superoxide dismutase in Escherichia coli using the condensed single-protein-production system. *Protein Science*, **2010**, 19, 2330-5	6.3	3
179	Molecular basis for E-cadherin recognition by killer cell lectin-like receptor G1 (KLRG1). *Journal of Biological Chemistry*, **2009**, 284, 27327-35	5.4	22
178	Crystal structure of type I ryanodine receptor amino-terminal beta-trefoil domain reveals a disease-associated mutation "hot spot" loop. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11040-4	11.5	78
177	Inhibitory mechanism of Escherichia coli RelE-RelB toxin-antitoxin module involves a helix displacement near an mRNA interferase active site. *Journal of Biological Chemistry*, **2009**, 284, 14628-36	5.4	60
176	Stromal interaction molecule (STIM) 1 and STIM2 calcium sensing regions exhibit distinct unfolding and oligomerization kinetics. *Journal of Biological Chemistry*, **2009**, 284, 728-32	5.4	148
175	Structural insights into Ca2+-dependent regulation of inositol 1,4,5-trisphosphate receptors by CaBP1. *Journal of Biological Chemistry*, **2009**, 284, 2472-81	5.4	47
174	Structurally delineating stromal interaction molecules as the endoplasmic reticulum calcium sensors and regulators of calcium release-activated calcium entry. *Immunological Reviews*, **2009**, 231, 113-31	11.3	21
173	Characterization of the intrinsic and TSC2-GAP-regulated GTPase activity of Rheb by real-time NMR. *Science Signaling*, **2009**, 2, ra3	8.8	46
172	Synergistic interplay between promoter recognition and CBP/p300 coactivator recruitment by FOXO3a. *ACS Chemical Biology*, **2009**, 4, 1017-27	4.9	31
171	Characterization of a conserved "threonine clasp" in CAP-Gly domains: role of a functionally critical OH/pi interaction in protein recognition. *Journal of the American Chemical Society*, **2008**, 130, 14918-9	16.4	12
170	Structural mechanism of transcriptional autorepression of the Escherichia coli RelB/RelE antitoxin/toxin module. *Journal of Molecular Biology*, **2008**, 380, 107-19	6.5	76
169	Biochemical and structural characterization of an intramolecular interaction in FOXO3a and its binding with p53. *Journal of Molecular Biology*, **2008**, 384, 590-603	6.5	78
168	Biophysical characterization of the EF-hand and SAM domain containing Ca2+ sensory region of STIM1 and STIM2. *Biochemical and Biophysical Research Communications*, **2008**, 369, 240-6	3.4	122
167	Structural and mechanistic insights into STIM1-mediated initiation of store-operated calcium entry. *Cell*, **2008**, 135, 110-22	56.2	350
166	Light-dependent regulation of structural flexibility in a photochromic fluorescent protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9227-32	11.5	132
165	NMR Investigation of Calmodulin **2008**, 503-516		2

164	CLIP170 autoinhibition mimics intermolecular interactions with p150Glued or EB1. *Nature Structural and Molecular Biology*, **2007**, 14, 980-1	17.6	36
163	Calcium indicators based on calmodulin-fluorescent protein fusions. *Methods in Molecular Biology*, **2007**, 352, 71-82	1.4	10
162	Molecular basis of the isoform-specific ligand-binding affinity of inositol 1,4,5-trisphosphate receptors. *Journal of Biological Chemistry*, **2007**, 282, 12755-64	5.4	91
161	Functional silencing of TATA-binding protein (TBP) by a covalent linkage of the N-terminal domain of TBP-associated factor 1. *Journal of Biological Chemistry*, **2007**, 282, 22228-38	5.4	9
160	Structural aspects of calcium-binding proteins and their interactions with targets. *New Comprehensive Biochemistry*, **2007**, 95-123		1
159	Crystallographic evidence for water-assisted photo-induced peptide cleavage in the stony coral fluorescent protein Kaede. *Journal of Molecular Biology*, **2007**, 372, 918-926	6.5	75
158	Ligand-induced conformational changes via flexible linkers in the amino-terminal region of the inositol 1,4,5-trisphosphate receptor. *Journal of Molecular Biology*, **2007**, 373, 1269-80	6.5	43
157	The acute myeloid leukemia fusion protein AML1-ETO targets E proteins via a paired amphipathic helix-like TBP-associated factor homology domain. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10242-10247	11.5	35
156	Genetic polymorphism and protein conformational plasticity in the calmodulin superfamily: two ways to promote multifunctionality. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 1159-64	11.5	205
155	Stored Ca2+ depletion-induced oligomerization of stromal interaction molecule 1 (STIM1) via the EF-SAM region: An initiation mechanism for capacitive Ca2+ entry. *Journal of Biological Chemistry*, **2006**, 281, 35855-62	5.4	320
154	Structural characterization of a blue chromoprotein and its yellow mutant from the sea anemone Cnidopus japonicus. *Journal of Biological Chemistry*, **2006**, 281, 37813-9	5.4	33
153	NMR-driven secondary and tertiary structure model of Ca2+-loaded calexcitin. *Biochemical and Biophysical Research Communications*, **2006**, 343, 520-4	3.4	1
152	Bacterial histidine kinase as signal sensor and transducer. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 307-12	5.6	51
151	Characterization of dual substrate binding sites in the homodimeric structure of Escherichia coli mRNA interferase MazF. *Journal of Molecular Biology*, **2006**, 357, 139-50	6.5	48
150	Ca2+ as a Second Messenger: New Reporters for Calcium (Cameleons and Camgaroos) **2006**, 307-315		
149	Crystal structure of the ligand binding suppressor domain of type 1 inositol 1,4,5-trisphosphate receptor. *Molecular Cell*, **2005**, 17, 193-203	17.6	142
148	Structural basis for the activation of microtubule assembly by the EB1 and p150Glued complex. *Molecular Cell*, **2005**, 19, 449-60	17.6	115
147	Structural characterization of Escherichia coli sensor histidine kinase EnvZ: the periplasmic C-terminal core domain is critical for homodimerization. *Biochemical Journal*, **2005**, 385, 255-64	3.8	13

146	The LxxLL motif: a multifunctional binding sequence in transcriptional regulation. *Trends in Biochemical Sciences*, **2005**, 30, 66-9	10.3	159
145	Resonance assignments of 30 kDa complexes of TFIID subunit TAF1 with TATA-binding protein. *Journal of Biomolecular NMR*, **2005**, 33, 76	3	2
144	Structural analysis of Mg2+ and Ca2+ binding to CaBP1, a neuron-specific regulator of calcium channels. *Journal of Biological Chemistry*, **2005**, 280, 37461-70	5.4	69
143	Mg2+ and Ca2+ differentially regulate DNA binding and dimerization of DREAM. *Journal of Biological Chemistry*, **2005**, 280, 18008-14	5.4	84
142	Probing nucleotide-binding effects on backbone dynamics and folding of the nucleotide-binding domain of the sarcoplasmic/endoplasmic-reticulum Ca2+-ATPase. *Biochemical Journal*, **2004**, 379, 235-42	3.8	11
141	FRET evidence for a conformational change in TFIIB upon TBP-DNA binding. *FEBS Journal*, **2004**, 271, 792-800		13
140	Cold-shock induced high-yield protein production in Escherichia coli. *Nature Biotechnology*, **2004**, 22, 877-82	44.5	258
139	Structural insights into the regulatory mechanism of IP3 receptor. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2004**, 1742, 89-102	4.9	88
138	The cadherin-catenin complex as a focal point of cell adhesion and signalling: new insights from three-dimensional structures. *BioEssays*, **2004**, 26, 497-511	4.1	138
137	Radixin: cytoskeletal adopter and signaling protein. *International Journal of Biochemistry and Cell Biology*, **2004**, 36, 2131-6	5.6	37
136	Structural and functional characterization on the interaction of yeast TFIID subunit TAF1 with TATA-binding protein. *Journal of Molecular Biology*, **2004**, 339, 681-93	6.5	31
135	Probing Zn2+-binding effects on the zinc-ribbon domain of human general transcription factor TFIIB. *Biochemical Journal*, **2004**, 378, 317-24	3.8	15
134	Domain fusion analysis by applying relational algebra to protein sequence and domain databases. *BMC Bioinformatics*, **2003**, 4, 16	3.6	11
133	A fluorescent cassette-based strategy for engineering multiple domain fusion proteins. *BMC Biotechnology*, **2003**, 3, 8	3.5	36
132	Conformational coupling of Mg2+ and Ca2+ on the three-state folding of calexcitin B. *Biochemistry*, **2003**, 42, 5531-9	3.2	12
131	Insights into a single rod-like helix in activated radixin required for membrane-cytoskeletal cross-linking. *Biochemistry*, **2003**, 42, 11634-41	3.2	24
130	Nuclear magnetic resonance-based dissection of a glycosyltransferase specificity for the mucin MUC1 tandem repeat. *Biochemistry*, **2003**, 42, 13817-25	3.2	15
129	Structural basis for simultaneous binding of two carboxy-terminal peptides of plant glutamate decarboxylase to calmodulin. *Journal of Molecular Biology*, **2003**, 328, 193-204	6.5	88

128	Probing catalytically essential domain orientation in histidine kinase EnvZ by targeted disulfide crosslinking. *Journal of Molecular Biology*, **2003**, 328, 409-18	6.5	20
127	Structure, topology, and dynamics of myristoylated recoverin bound to phospholipid bilayers. *Biochemistry*, **2003**, 42, 6333-40	3.2	55
126	Photo-induced peptide cleavage in the green-to-red conversion of a fluorescent protein. *Molecular Cell*, **2003**, 12, 1051-8	17.6	251
125	MazF cleaves cellular mRNAs specifically at ACA to block protein synthesis in Escherichia coli. *Molecular Cell*, **2003**, 12, 913-23	17.6	454
124	Crystal structure of the amino-terminal microtubule-binding domain of end-binding protein 1 (EB1). *Journal of Biological Chemistry*, **2003**, 278, 36430-4	5.4	136
123	The Histidine Kinase Family: Structures of Essential Building Blocks **2003**, 11-24		2
122	Identification and characterization of subfamily-specific signatures in a large protein superfamily by a hidden Markov model approach. *BMC Bioinformatics*, **2002**, 3, 1	3.6	69
121	The role of calcium-binding proteins in the control of transcription: structure to function. *BioEssays*, **2002**, 24, 625-36	4.1	117
120	The cadherin superfamily database. *Journal of Structural and Functional Genomics*, **2002**, 2, 135-43		6
119	Crystal structure of venus, a yellow fluorescent protein with improved maturation and reduced environmental sensitivity. *Journal of Biological Chemistry*, **2002**, 277, 50573-8	5.4	142
118	Vector geometry mapping. A method to characterize the conformation of helix-loop-helix calcium-binding proteins. *Methods in Molecular Biology*, **2002**, 173, 317-24	1.4	35
117	Cadherins. *Methods in Molecular Biology*, **2002**, 172, 199-210	1.4	7
116	The Bloom syndrome helicase BLM interacts with TRF2 in ALT cells and promotes telomeric DNA synthesis. *Human Molecular Genetics*, **2002**, 11, 3135-44	5.6	149
115	The ATCUN domain as a probe of intermolecular interactions: application to calmodulin-peptide complexes. *Journal of the American Chemical Society*, **2002**, 124, 14002-3	16.4	36
114	Characterization of the ATP-binding domain of the sarco(endo)plasmic reticulum Ca(2+)-ATPase: probing nucleotide binding by multidimensional NMR. *Biochemistry*, **2002**, 41, 1156-64	3.2	31
113	Structure and membrane-targeting mechanism of retinal Ca2+-binding proteins, recoverin and GCAP-2. *Advances in Experimental Medicine and Biology*, **2002**, 514, 333-48	3.6	19
112	Detecting protein kinase recognition modes of calmodulin by residual dipolar couplings in solution NMR. *Biochemistry*, **2002**, 41, 12899-906	3.2	30
111	DREAM is a critical transcriptional repressor for pain modulation. *Cell*, **2002**, 108, 31-43	56.2	234

110	Calmodulin in action: diversity in target recognition and activation mechanisms. *Cell*, **2002**, 108, 739-42	56.2	575
109	Structure of the inositol 1,4,5-trisphosphate receptor binding core in complex with its ligand. *Nature*, **2002**, 420, 696-700	50.4	280
108	Alternate routes to conformational specificity in a Greek key beta barrel protein. *FEBS Journal*, **2001**, 268, 4653-63		2
107	FRET-based in vivo Ca2+ imaging by a new calmodulin-GFP fusion molecule. *Nature Structural Biology*, **2001**, 8, 1069-73		182
106	The use of FRET imaging microscopy to detect protein-protein interactions and protein conformational changes in vivo. *Current Opinion in Structural Biology*, **2001**, 11, 573-8	8.1	286
105	Calexcitin B is a new member of the sarcoplasmic calcium-binding protein family. *Journal of Biological Chemistry*, **2001**, 276, 22529-36	5.4	15
104	Calcium-regulated DNA binding and oligomerization of the neuronal calcium-sensing protein, calsenilin/DREAM/KChIP3. *Journal of Biological Chemistry*, **2001**, 276, 41005-13	5.4	104
103	Optimization of protein solubility and stability for protein nuclear magnetic resonance. *Methods in Enzymology*, **2001**, 339, 20-41	1.7	48
102	Target-induced conformational adaptation of calmodulin revealed by the crystal structure of a complex with nematode Ca(2+)/calmodulin-dependent kinase kinase peptide. *Journal of Molecular Biology*, **2001**, 312, 59-68	6.5	91
101	Molecular structure of membrane-targeting calcium sensors in vision: recoverin and guanylate cyclase-activating protein 2. *Methods in Enzymology*, **2000**, 316, 121-32	1.7	8
100	A monomeric histidine kinase derived from EnvZ, an Escherichia coli osmosensor. *Molecular Microbiology*, **2000**, 36, 24-32	4.1	35
99	Where cancer meets calcium--p53 crosstalk with EF-hands. *Nature Structural Biology*, **2000**, 7, 525-7		11
98	Cadherins in embryonic and neural morphogenesis. *Nature Reviews Molecular Cell Biology*, **2000**, 1, 91-100	48.7	378
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