# Brian D Sykes

List of Publications by Year
in descending order



| 226 | 17,118 | 19636 61 | 15716 125 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 238 | 238 | 238 | 13674 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structural Basis of Tirasemtiv Activation of Fast Skeletal Muscle. Journal of Medicinal Chemistry, 2021, 64, 3026-3034. | 2.9 | 9 |
| 2 | A Potent Fluorescent Reversible-Covalent Inhibitor of Cardiac Muscle Contraction. ACS Medicinal Chemistry Letters, 2021, 12, 1503-1507. | 1.3 | 1 |
| 3 | Optimizing fluorine labelling for 19F solid-state NMR in oriented biological systems. Journal of Biomolecular NMR, 2020, 74, 1-7. | 1.6 | 5 |
| 4 | The Role of Electrostatics in the Mechanism of Cardiac Thin Filament Based Sensitizers. ACS Chemical Biology, 2020, 15, 2289-2298. | 1.6 | 5 |
| 5 | Metabolomic study of disease progression in scrapie prion infected mice; validation of a novel method for brain metabolite extraction. Metabolomics, 2020, 16, 72. | 1.4 | 2 |
| 6 | Diverse residues of intracellular loop 5 of the Na+/H+ exchanger modulate proton sensing, expression, activity and targeting. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 191-200. | 1.4 | 10 |
| 7 | Feasibility of trifluoromethyl TROSY NMR at high magnetic fields. Journal of Biomolecular NMR, 2019, 73, 519-523. | 1.6 | 5 |
| 8 | Nascent Î² Structure in the Elongated Hydrophobic Region of a Gerstmannâ€“StrÃ¤usslerâ€“Scheinker PrP Allele. Journal of Molecular Biology, 2019, 431, 2599-2611. | 2.0 | 2 |
| 9 | Thioimidate Bond Formation between Cardiac Troponin C and Nitrile-containing Compounds. ACS Medicinal Chemistry Letters, 2019, 10, 1007-1012. | 1.3 | 4 |
| 10 | Reversible Covalent Reaction of Levosimendan with Cardiac Troponin C in Vitro and in Situ. Biochemistry, 2018, 57, 2256-2265. | 1.2 | 8 |
| 11 | The calcium sensitizer drug MCI-154 binds the structural C-terminal domain of cardiac troponin C. Biochemistry and Biophysics Reports, 2018, 16, 145-151. | 0.7 | 6 |
| 12 | Structural Changes Induced by the Binding of the Calcium Desensitizer W7 to Cardiac Troponin. Biochemistry, 2018, 57, 6461-6469. | 1.2 | 10 |
| 13 | Residue-specific mobility changes in soluble oligomers of the prion protein define regions involved in aggregation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 982-988. | 1.1 | 2 |
| 14 | A novel Gerstmann-StrÃ¤ussler-Scheinker disease mutation defines a precursor for amyloidogenic 8 kDa PrP fragments and reveals N-terminal structural changes shared by other GSS alleles. PLoS Pathogens, 2018, 14, e1006826. | 2.1 | 16 |
| 15 | Structures reveal details of small molecule binding to cardiac troponin. Journal of Molecular and Cellular Cardiology, 2016, 101, 134-144. | 0.9 | 39 |
| 16 | Reversible Covalent Binding to Cardiac Troponin C by the Ca<sup>2+</sup>-Sensitizer Levosimendan. Biochemistry, 2016, 55, 6032-6045. | 1.2 | 14 |
| 17 | Probing the mechanism of cardiovascular drugs using a covalent levosimendan analog. Journal of Molecular and Cellular Cardiology, 2016, 92, 174-184. | 0.9 | 16 |
| 18 | A Common Phenotype Polymorphism in Mammalian Brains Defined by Concomitant Production of Prolactin and Growth Hormone. PLoS ONE, 2016, 11, e0149410. | 1.1 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Computerâ€Aided Drug Discovery Approach Finds Calcium Sensitizer of Cardiac Troponin. Chemical Biology and Drug Design, 2015, 85, 99-106. | 1.5 | 36 |
| 20 | UBC9-dependent Association between Calnexin and Protein Tyrosine Phosphatase 1B (PTP1B) at the Endoplasmic Reticulum. Journal of Biological Chemistry, 2015, 290, 5725-5738. | 1.6 | 20 |
| 21 | Structure and Dynamics of the Acidosis-Resistant A162H Mutant of the Switch Region of Troponin I Bound to the Regulatory Domain of Troponin C. Biochemistry, 2015, 54, 3583-3593. | 1.2 | 2 |
| 22 | Targeting the sarcomere to correct muscle function. Nature Reviews Drug Discovery, 2015, 14, 313-328. | 21.5 | 105 |
| 23 | The structural and functional effects of the familial hypertrophic cardiomyopathy-linked cardiac troponin C mutation, L29Q. Journal of Molecular and Cellular Cardiology, 2015, 87, 257-269. | 0.9 | 18 |
| 24 | Targeted expression, purification, and cleavage of fusion proteins from inclusion bodies in Escherichia coli. FEBS Letters, 2014, 588, 247-252. | 1.3 | 82 |
| 25 | Versatile Cardiac Troponin Chimera for Muscle Protein Structural Biology and Drug Discovery. ACS Chemical Biology, 2014, 9, 2121-2130. | 1.6 | 18 |
| 26 | The cardiac-specific N-terminal region of troponin I positions the regulatory domain of troponin C. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14412-14417. | 3.3 | 57 |
| 27 | Conformation of the critical pH sensitive region of troponin depends upon a single residue in troponin I. Archives of Biochemistry and Biophysics, 2014, 552-553, 40-49. | 1.4 | 7 |
| 28 | Rewiring AMPK and Mitochondrial Retrograde Signaling for Metabolic Control of Aging and Histone Acetylation in Respiratory-Defective Cells. Cell Reports, 2014, 7, 565-574. | 2.9 | 36 |
| 29 | Interaction between the regulatory domain of cardiac troponin C and the acidosis-resistant cardiac troponin I A162H. Cardiovascular Research, 2013, 97, 481-489. | 1.8 | 13 |
| 30 | Elucidation of Isoform-dependent pH Sensitivity of Troponin I by NMR Spectroscopy. Journal of Biological Chemistry, 2012, 287, 4996-5007. | 1.6 | 13 |
| 31 | Characterization of a novel weak interaction between MUC1 and Src-SH3 using nuclear magnetic resonance spectroscopy. Biochemical and Biophysical Research Communications, 2012, 421, 832-836. | 1.0 | 9 |
| 32 | Structural and Functional Consequences of the Cardiac Troponin C L48Q Ca<sup>2+</sup>-Sensitizing Mutation. Biochemistry, 2012, 51, 4473-4487. | 1.2 | 41 |
| 33 | Tryptophan side chain conformers monitored by NMR and timeâ€resolved fluorescence spectroscopies. Proteins: Structure, Function and Bioinformatics, 2012, 80, 239-245. | 1.5 | 7 |
| 34 | The Metabolomics of Asthma. Chest, 2012, 141, 1295-1302. | 0.4 | 42 |
| 35 | Approaches to Protein-Ligand Structure Determination by NMR Spectroscopy: Applications in Drug Binding to the Cardiac Regulatory Protein Troponin C. NATO Science for Peace and Security Series B: Physics and Biophysics, 2012, , 121-134. | 0.2 | 0 |
| 36 | Functional and structural analysis of transmembrane segment IV of Na+/H+ exchanger of Schizosaccharomyces pombe. FASEB Journal, 2012, 26, 604.2. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Structuralâ€functional studies of purified transmembrane segment VIâ€VII of the human isoform 1 of the Na + /H + exchanger. FASEB Journal, 2012, 26, lb226. | 0.2 | 0 |
| 38 | Relative and Regional Stabilities of the Hamster, Mouse, Rabbit, and Bovine Prion Proteins toward Urea Unfolding Assessed by Nuclear Magnetic Resonance and Circular Dichroism Spectroscopies. Biochemistry, 2011, 50, 7536-7545. | 1.2 | 22 |
| 39 | Metabolomic profiling of asthma: Diagnostic utility of urine nuclear magnetic resonance spectroscopy. Journal of Allergy and Clinical Immunology, 2011, 127, 757-764.e6. | 1.5 | 152 |
| 40 | Structure of trans-Resveratrol in Complex with the Cardiac Regulatory Protein Troponin C. Biochemistry, 2011, 50, 1309-1320. | 1.2 | 33 |
| 41 | Structural analysis of the Na<sup>+</sup>/H<sup>+</sup> exchanger isoform 1 (NHE1) using the divide and conquer approachThis paper is one of a selection of papers published in a Special Issue entitled CSBMCB 53rd Annual Meeting â€" Membrane Proteins in Health and Disease, and has undergone the Journalâ€™s usual peer review process.. Biochemistry and Cell Biology, 2011, 89, 189-199. | 0.9 | 24 |
| 42 | Editorial. Journal of Biomolecular NMR, 2011, 49, 163-164. | 1.6 | 3 |
| 43 | Visualizing the principal component of 1H,15N-HSQC NMR spectral changes that reflect protein structural or functional properties: application to troponin C. Journal of Biomolecular NMR, 2011, 51, 115-122. | 1.6 | 12 |
| 44 | Is there nascent structure in the intrinsically disordered region of troponin I?. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1240-1250. | 1.5 | 23 |
| 45 | Advances in biological NMR circa WWMR 2010 in Florence. Journal of Magnetic Resonance, 2010, 207, 1-7. | 1.2 | 1 |
| 46 | Correlating structure, dynamics, and function in transmembrane segment VII of the Na+/H+ exchanger isoform 1. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 94-104. | 1.4 | 9 |
| 47 | Solution structure of the regulatory domain of human cardiac troponin C in complex with the switch region of cardiac troponin I and W7: The basis of W7 as an inhibitor of cardiac muscle contraction. Journal of Molecular and Cellular Cardiology, 2010, 48, 925-933. | 0.9 | 36 |
| 48 | A structural and functional perspective into the mechanism of Ca2+-sensitizers that target the cardiac troponin complex. Journal of Molecular and Cellular Cardiology, 2010, 49, 1031-1041. | 0.9 | 60 |
| 49 | Solution Structure of Human Cardiac Troponin C in Complex with the Green Tea Polyphenol, (â^')-Epigallocatechin 3-Gallate. Journal of Biological Chemistry, 2009, 284, 23012-23023. | 1.6 | 59 |
| 50 | Structural Characterization of Amyloidotic Antifreeze Protein Fibrils and Intermediates. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2009, 72, 1030-1033. | 1.1 | 4 |
| 51 | Metabolomic Biomarkers in a Model of Asthma Exacerbation. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 25-34. | 2.5 | 69 |
| 52 | A glycolytic burst drives glucose induction of global histone acetylation by picNuA4 and SAGA. Nucleic Acids Research, 2009, 37, 3969-3980. | 6.5 | 111 |
| 53 | The effect of the cosolvent trifluoroethanol on a tryptophan side chain orientation in the hydrophobic core of troponin C. Protein Science, 2009, 18, 1165-1174. | 3.1 | 7 |
| 54 | Differential stability of the bovine prion protein upon urea unfolding. Protein Science, 2009, 18, 2172-2182. | 3.1 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Structure of the Inhibitor W7 Bound to the Regulatory Domain of Cardiac Troponin C. Biochemistry, 2009, 48, 5541-5552. | 1.2 | 18 |
| 56 | Monitoring Prion Protein Stability by NMR. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2009, 72, 1069-1074. | 1.1 | 4 |
| 57 | The Evaluation of Isotope Editing and Filtering for Proteinâ€"Ligand Interaction Elucidation by Nmr. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 101-119. | 0.2 | 8 |
| 58 | Internal pH indicators for biomolecular NMR. Journal of Biomolecular NMR, 2008, 41, 5-7. | 1.6 | 70 |
| 59 | Isoformâ€specific variation in the intrinsic disorder of troponin I. Proteins: Structure, Function and Bioinformatics, 2008, 73, 338-350. | 1.5 | 13 |
| 60 | Modulation of Cardiac Troponin C Function by the Cardiac-Specific N-Terminus of Troponin I: Influence of PKA Phosphorylation and Involvement in Cardiomyopathies. Journal of Molecular Biology, 2008, 375, 735-751. | 2.0 | 49 |
| 61 | Interaction of cardiac troponin with cardiotonic drugs: A structural perspective. Biochemical and Biophysical Research Communications, 2008, 369, 88-99. | 1.0 | 39 |
| 62 | Defining the Binding Site of Levosimendan and Its Analogues in a Regulatory Cardiac Troponin Cå"Troponin I Complex. Biochemistry, 2008, 47, 7485-7495. | 1.2 | 32 |
| 63 | NMR Studies of the Dynamics of a Bifunctional Rhodamine Probe Attached to Troponin C. Journal of the American Chemical Society, 2008, 130, 2602-2609. | 6.6 | 6 |
| 64 | The Dilated Cardiomyopathy G159D Mutation in Cardiac Troponin C Weakens the Anchoring Interaction with Troponin I. Biochemistry, 2008, 47, 10950-10960. | 1.2 | 25 |
| 65 | Tryptophan Mutants of Cardiac Troponin C:â€‰ 3D Structure, Troponin I Affinity, and in Situ Activity<sup>,</sup>. Biochemistry, 2008, 47, 597-606. | 1.2 | 2 |
| 66 | Ubiquinone-binding Site Mutations in the Saccharomyces cerevisiae Succinate Dehydrogenase Generate Superoxide and Lead to the Accumulation of Succinate. Journal of Biological Chemistry, 2007, 282, 27518-27526. | 1.6 | 94 |
| 67 | Toward Protein Structure In Situ: Comparison of Two Bifunctional Rhodamine Adducts of Troponin C. Biophysical Journal, 2007, 93, 1008-1020. | 0.2 | 10 |
| 68 | Disposition and Dynamics: Interdomain Orientations in Troponin. , 2007, 592, 59-70. | | 6 |
| 69 | A19F and1H goniometric split-millicoil NMR probe for solid-state NMR. Concepts in Magnetic Resonance Part B, 2007, 31B, 203-208. | 0.3 | 2 |
| 70 | Estimation and measurement of flat or solenoidal coil inductance for radiofrequency NMR coil design. Journal of Magnetic Resonance, 2007, 187, 27-37. | 1.2 | 12 |
| 71 | Probing nascent structures in peptides using natural abundance 13C NMR relaxation and reduced spectral density mapping. Proteins: Structure, Function and Bioinformatics, 2007, 67, 18-30. | 1.5 | 7 |
| 72 | Investigations of the Effects of Gender, Diurnal Variation, and Age in Human Urinary Metabolomic Profiles. Analytical Chemistry, 2007, 79, 6995-7004. | 3.2 | 361 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Urine stability for metabolomic studies: effects of preparation and storage. Metabolomics, 2007, 3, 19-27. | 1.4 | 171 |
| 74 | Variation of metabolites in normal human urine. Metabolomics, 2007, 3, 439-451. | 1.4 | 146 |
| 75 | Determination of the 19F NMR chemical shielding tensor and crystal structure of 5-fluoro-dl-tryptophan. Journal of Magnetic Resonance, 2007, 187, 88-96. | 1.2 | 17 |
| 76 | Dynamics of the C-Terminal Region of TnI in the Troponin Complex in Solution. Biophysical Journal, 2006, 90, 2436-2444. | 0.2 | 49 |
| 77 | Interaction of Cardiac Troponin C and Troponin I with W7 in the Presence of Three Functional Regions of Cardiac Troponin Iâ€. Biochemistry, 2006, 45, 9833-9840. | 1.2 | 13 |
| 78 | An Interplay between Protein Disorder and Structure Confers the Ca2+ Regulation of Striated Muscle. Journal of Molecular Biology, 2006, 361, 625-633. | 2.0 | 59 |
| 79 | Effect of a mutation on the structure and dynamics of an Î±-helical antifreeze protein in water and ice. Proteins: Structure, Function and Bioinformatics, 2006, 63, 603-610. | 1.5 | 7 |
| 80 | A 1H/19F minicoil NMR probe for solid-state NMR: Application to 5-fluoroindoles. Journal of Magnetic Resonance, 2006, 178, 65-71. | 1.2 | 11 |
| 81 | Backbone dynamics of SDF-1Î± determined by NMR: Interpretation in the presence of monomer-dimer equilibrium. Protein Science, 2006, 15, 2568-2578. | 3.1 | 34 |
| 82 | Optimization of NMR analysis of biological fluids for quantitative accuracy. Metabolomics, 2006, 2, 113-123. | 1.4 | 108 |
| 83 | Structural and Functional Characterization of Transmembrane Segment VII of the Na+/H+ Exchanger Isoform 1. Journal of Biological Chemistry, 2006, 281, 29817-29829. | 1.6 | 63 |
| 84 | Strategies for dealing with conformational sampling in structural calculations of flexible or kinked transmembrane peptidesThis paper is one of a selection of papers published in this Special Issue, entitled CSBMCB â€" Membrane Proteins in Health and Disease.. Biochemistry and Cell Biology, 2006, 84, 918-929. | 0.9 | 16 |
| 85 | Effects of Phe-to-Trp mutation and fluorotryptophan incorporation on the solution structure of cardiac troponin C, and analysis of its suitability as a potential probe for in situ NMR studies. Protein Science, 2005, 14, 2447-2460. | 3.1 | 23 |
| 86 | Structural and Functional Characterization of Transmembrane Segment IV of the NHE1 Isoform of the Na+/H+ Exchanger. Journal of Biological Chemistry, 2005, 280, 17863-17872. | 1.6 | 87 |
| 87 | Calcium-dependent Changes in the Flexibility of the Regulatory Domain of Troponin C in the Troponin Complex. Journal of Biological Chemistry, 2005, 280, 21924-21932. | 1.6 | 32 |
| 88 | The Binding of W7, an Inhibitor of Striated Muscle Contraction, to Cardiac Troponin Câ€. Biochemistry, 2005, 44, 15750-15759. | 1.2 | 27 |
| 89 | The Role of Electrostatics in the Interaction of the Inhibitory Region of Troponin I with Troponin C. Biochemistry, 2005, 44, 14750-14759. | 1.2 | 19 |
| 90 | Cold survival in freeze-intolerant insects. FEBS Journal, 2004, 271, 3285-3296. | 0.2 | 117 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Using lanthanide ions to align troponin complexes in solution: Order of lanthanide occupancy in cardiac troponin C. Protein Science, 2004, 13, 640-651. | 3.1 | 9 |
| 92 | Characterization of threonine side chain dynamics in an antifreeze protein using natural abundance13C NMR spectroscopy. Journal of Biomolecular NMR, 2004, 29, 139-150. | 1.6 | 11 |
| 93 | Structural based insights into the role of troponin in cardiac muscle pathophysiology. Journal of Muscle Research and Cell Motility, 2004, 25, 559-579. | 0.9 | 127 |
| 94 | NMR solution structure of a highly stablede novo heterodimeric coiled-coil. Biopolymers, 2004, 75, 367-375. | 1.2 | 72 |
| 95 | Effect of Temperature on the Structure of Trout Troponin C. Biochemistry, 2004, 43, 4955-4963. | 1.2 | 17 |
| 96 | Hydrogen Bonding on the Ice-Binding Face of a Î²-Helical Antifreeze Protein Indicated by Amide Proton NMR Chemical Shiftsâ€. Biochemistry, 2004, 43, 13012-13017. | 1.2 | 14 |
| 97 | NMR structure of CXCR3 binding chemokine CXCL11 (ITAC). Protein Science, 2004, 13, 2022-2028. | 3.1 | 35 |
| 98 | Smartnotebook: a semi-automated approach to protein sequential NMR resonance assignments. Journal of Biomolecular NMR, 2003, 27, 313-321. | 1.6 | 56 |
| 99 | The role of side chain conformational flexibility in surface recognition byTenebrio molitorantifreeze protein. Protein Science, 2003, 12, 1323-1331. | 3.1 | 30 |
| 100 | Pulling the calcium trigger. Nature Structural and Molecular Biology, 2003, 10, 588-589. | 3.6 | 26 |
| 101 | PJNMR: a platform-independent graphical simulation tool for NMR spectroscopy. Journal of Magnetic Resonance, 2003, 161, 154-167. | 1.2 | 6 |
| 102 | High-yield expression of isotopically labeled peptides for use in NMR studies. Protein Science, 2003, 12, 1786-1791. | 3.1 | 31 |
| 103 | Phosphorylation and Mutation of Human Cardiac Troponin I Deferentially Destabilize the Interaction of the Functional Regions of Troponin I with Troponin Câ€,â€¡. Biochemistry, 2003, 42, 14460-14468. | 1.2 | 30 |
| 104 | Effect of Temperature and the F27W Mutation on the Ca2+Activated Structural Transition of Trout Cardiac Troponin Câ€. Biochemistry, 2003, 42, 6418-6426. | 1.2 | 19 |
| 105 | NMR Structure of a Bifunctional Rhodamine Labeled N-Domain of Troponin C Complexed with the Regulatory â€œSwitchâ€•Peptide from Troponin I:â€‰ Implications for in Situ Fluorescence Studies in Muscle Fibers,. Biochemistry, 2003, 42, 4333-4348. | 1.2 | 33 |
| 106 | Unmasking Ligand Binding Motifs: Identification of a Chemokine Receptor Motif by NMR Studies of Antagonist Peptides. Journal of Molecular Biology, 2003, 327, 329-334. | 2.0 | 16 |
| 107 | Spruce Budworm Antifreeze Protein: Changes in Structure and Dynamics at Low Temperature. Journal of Molecular Biology, 2003, 327, 1155-1168. | 2.0 | 32 |
| 108 | Freezing of a Fish Antifreeze Protein Results in Amyloid Fibril Formation. Biophysical Journal, 2003, 84, 552-557. | 0.2 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | In Situ Orientations of Protein Domains. Molecular Cell, 2003, 11, 865-874. | 4.5 | 51 |
| 110 | Structure and Dynamics of the C-domain of Human Cardiac Troponin C in Complex with the Inhibitory Region of Human Cardiac Troponin I. Journal of Biological Chemistry, 2003, 278, 27024-27034. | 1.6 | 43 |
| 111 | VADAR: a web server for quantitative evaluation of protein structure quality. Nucleic Acids Research, 2003, 31, 3316-3319. | 6.5 | 742 |
| 112 | Lipid-bound Structure of an Apolipoprotein E-derived Peptide. Journal of Biological Chemistry, 2003, 278, 25998-26006. | 1.6 | 28 |
| 113 | Effects of T142 Phosphorylation and Mutation R145G on the Interaction of the Inhibitory Region of Human Cardiac Troponin I with the C-Domain of Human Cardiac Troponin Câ€. Biochemistry, 2002, 41, 7267-7274. | 1.2 | 22 |
| 114 | Structure and Dynamics of a Î²-Helical Antifreeze Protein,. Biochemistry, 2002, 41, 5515-5525. | 1.2 | 59 |
| 115 | Structure Determination by NMR: Isotope Labeling. , 2002, 173, 255-265. | | 15 |
| 116 | The CXCR3 Binding Chemokine IP-10/CXCL10:â€‰ Structure and Receptor Interactions. Biochemistry, 2002, 41, 10418-10425. | 1.2 | 130 |
| 117 | Identification of the ice-binding face of antifreeze protein fromTenebrio molitor. FEBS Letters, 2002, 529, 261-267. | 1.3 | 66 |
| 118 | Structure of the Regulatory N-domain of Human Cardiac Troponin C in Complex with Human Cardiac Troponin I147â€“163 and Bepridil. Journal of Biological Chemistry, 2002, 277, 31124-31133. | 1.6 | 73 |
| 119 | Kinetic studies of calcium and cardiac troponin I peptide binding to human cardiac troponin C using NMR spectroscopy. European Biophysics Journal, 2002, 31, 245-256. | 1.2 | 48 |
| 120 | Temperature Dependence of Dynamics and Thermodynamics of the Regulatory Domain of Human Cardiac Troponin Câ€. Biochemistry, 2001, 40, 12541-12551. | 1.2 | 40 |
| 121 | Structure of Type I Antifreeze Protein and Mutants in Supercooled Water. Biophysical Journal, 2001, 81, 1677-1683. | 0.2 | 36 |
| 122 | Structure of the C-domain of Human Cardiac Troponin C in Complex with the Ca2+ Sensitizing Drug EMD 57033. Journal of Biological Chemistry, 2001, 276, 25456-25466. | 1.6 | 62 |
| 123 | Structure/function of human herpesvirus-8 MIP-II (1-71) and the antagonist N-terminal segment (1-10). FEBS Letters, 2001, 489, 171-175. | 1.3 | 32 |
| 124 | Structure, Dynamics, and Thermodynamics of the Structural Domain of Troponin C in Complex with the Regulatory Peptide 1â^'40 of Troponin Iâ€,â€¡. Biochemistry, 2001, 40, 10063-10077. | 1.2 | 40 |
| 125 | Complete 1H, 13C and 15N backbone assignments for the hepatitis A virus 3C protease. Journal of Biomolecular NMR, 2001, 19, 187-188. | 1.6 | 3 |
| 126 | The HoxB1 hexapeptide is a prefolded domain: Implications for the Pbx1/Hox interaction. Protein Science, 2001, 10, 1244-1253. | 3.1 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Thermodynamic insights into proteins from NMR spin relaxation studies. Current Opinion in Structural Biology, 2001, 11, 555-559. | 2.6 | 32 |
| 128 | Mapping the Interacting Regions between Troponins T and C. Journal of Biological Chemistry, 2001, 276, 36606-36612. | 1.6 | 27 |
| 129 | Structure of a Pilin Monomer fromPseudomonas aeruginosa. Journal of Biological Chemistry, 2001, 276, 24186-24193. | 1.6 | 101 |
| 130 | Structure-function relationships in spruce budworm antifreeze protein revealed by isoform diversity. FEBS Journal, 2000, 267, 6082-6088. | 0.2 | 58 |
| 131 | Î²-Helix structure and ice-binding properties of a hyperactive antifreeze protein from an insect. Nature, 2000, 406, 325-328. | 13.7 | 410 |
| 132 | Backbone dynamics of a bacterially expressed peptide from the receptor binding domain of Pseudomonas aeruginosa pilin strain PAK from heteronuclear 1H-15N NMR spectroscopy. Journal of Biomolecular NMR, 2000, 17, 239-255. | 1.6 | 25 |
| 133 | Folding and Structural Characterization of Highly Disulfide-Bonded Beetle Antifreeze Protein Produced in Bacteria. Protein Expression and Purification, 2000, 19, 148-157. | 0.6 | 49 |
| 134 | Interaction of Cardiac Troponin C with Ca2+Sensitizer EMD 57033 and Cardiac Troponin I Inhibitory Peptideâ€. Biochemistry, 2000, 39, 8782-8790. | 1.2 | 49 |
| 135 | Role of the Structural Domain of Troponin C in Muscle Regulation:Â NMR Studies of Ca2+Binding and Subsequent Interactions with Regions 1â˜’40 and 96â˜’115 of Troponin Iâ€. Biochemistry, 2000, 39, 2902-2911. | 1.2 | 52 |
| 136 | Energetics of the Induced Structural Change in a Ca2+Regulatory Protein:Â Ca2+and Troponin I Peptide Binding to the E41A Mutant of the N-Domain of Skeletal Troponin Câ€. Biochemistry, 2000, 39, 12731-12738. | 1.2 | 37 |
| 137 | Human CC Chemokine I-309, Structural Consequences of the Additional Disulfide Bond,. Biochemistry, 2000, 39, 6053-6059. | 1.2 | 30 |
| 138 | Structureâ€based thermodynamic analysis of the dissociation of protein phosphataseâ€1 catalytic subunit and microcystinâ€LR docked complexes. Protein Science, 2000, 9, 252-264. | 3.1 | 67 |
| 139 | NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1. Journal of Biological Chemistry, 2000, 275, 26799-26805. | 1.6 | 35 |
| 140 | Fourier transform ion cyclotron resonance mass spectrometric detection of small Ca2+-induced conformational changes in the regulatory domain of human cardiac troponin C. Journal of the American Society for Mass Spectrometry, 1999, 10, 703-710. | 1.2 | 32 |
| 141 | Backbone dynamics of the human cc chemokine eotaxin: Fast motions, slow motions, and implications for receptor binding. Protein Science, 1999, 8, 2041-2054. | 3.1 | 37 |
| 142 | Binding of Cardiac Troponin-I147-163Induces a Structural Opening in Human Cardiac Troponin-Câ€,â€¡. Biochemistry, 1999, 38, 8289-8298. | 1.2 | 267 |
| 143 | Disulfide Bridges in Interleukin-8 Probed Using Non-Natural Disulfide Analogues:Â Dissociation of Roles in Structure from Functionâ€. Biochemistry, 1999, 38, 7653-7658. | 1.2 | 83 |
| 144 | Defining the Region of Troponin-I that Binds to Troponin-Câ€. Biochemistry, 1999, 38, 5478-5489. | 1.2 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Alternative Roles for Putative Ice-Binding Residues in Type I Antifreeze Proteinâ€. Biochemistry, 1999, 38, 4743-4749. | 1.2 | 43 |
| 146 | Recommendations for the presentation of NMR structures of proteins and nucleic acids. IUPAC-IUBMB-IUPAB Inter-Union Task Group on the Standardization of Data Bases of Protein and Nucleic Acid Structures Determined by NMR Spectroscopy. Journal of Biomolecular NMR, 1998, 12, 1-23. | 1.6 | 347 |
| 147 | CAMRA: chemical shift based computer aided protein NMR assignments. Journal of Biomolecular NMR, 1998, 12, 395-405. | 1.6 | 46 |
| 148 | Recommendations for the presentation of NMR structures of proteins and nucleic acids. IUPAC-IUBMB-IUPAB inter-union task group on the standardization of data bases of protein and nucleic acid structures determined by NMR spectroscopy. FEBS Journal, 1998, 256, 1-15. | 0.2 | 137 |
| 149 | Disulfide bond mapping and structural characterization of spruce budworm antifreeze protein. FEBS Journal, 1998, 258, 445-453. | 0.2 | 50 |
| 150 | Interhelical contacts are required for the helix bundle fold of apolipophorin III and its ability to interact with lipoproteins. Protein Science, 1998, 7, 336-341. | 3.1 | 10 |
| 151 | The NMR angle on troponin C. Biochemistry and Cell Biology, 1998, 76, 302-312. | 0.9 | 40 |
| 152 | Dynamics and Thermodynamics of the Regulatory Domain of Human Cardiac Troponin C in the Apo- and Calcium-Saturated Statesâ€. Biochemistry, 1998, 37, 18032-18044. | 1.2 | 54 |
| 153 | Structure and Interaction Site of the Regulatory Domain of Troponin-C When Complexed with the 96â^'148 Region of Troponin-Iâ€. Biochemistry, 1998, 37, 12419-12430. | 1.2 | 56 |
| 154 | The Ice-Binding Site of Sea Raven Antifreeze Protein Is Distinct from the Carbohydrate-Binding Site of the Homologous C-Type Lectinâ€. Biochemistry, 1998, 37, 17745-17753. | 1.2 | 41 |
| 155 | NMR structural studies on antifreeze proteins. Biochemistry and Cell Biology, 1998, 76, 284-293. | 0.9 | 17 |
| 156 | Backbone and methyl dynamics of the regulatory domain of troponin C: anisotropic rotational diffusion and contribution of conformational entropy to calcium affinity. Journal of Molecular Biology, 1998, 278, 667-686. | 2.0 | 123 |
| 157 | Analysis of stress in the active site of myosin accompanied by conformational changes in transient state intermediate complexes using photoaffinity labeling and 19F-NMR spectroscopy. FEBS Journal, 1998, 252, 520-529. | 0.2 | 4 |
| 158 | Binding of an Oligopeptide to a Specific Plane of Ice. Journal of Biological Chemistry, 1998, 273, 11714-11718. | 1.6 | 67 |
| 159 | Solution Structure of Eotaxin, a Chemokine That Selectively Recruits Eosinophils in Allergic Inflammation. Journal of Biological Chemistry, 1998, 273, 22471-22479. | 1.6 | 85 |
| 160 | Assignment of the helical structure in neuropeptide Y by HPLC studies of methionine replacement analogues and 1H-NMR spectroscopy. Biopolymers, 1998, 39, 207-219. | 1.2 | 3 |
| 161 | Structure of Cardiac Muscle Troponin C Unexpectedly Reveals a Closed Regulatory Domain. Journal of Biological Chemistry, 1997, 272, 18216-18221. | 1.6 | 181 |
| 162 | Neutrophil-activating Peptide-2 and Melanoma Growth-stimulatory Activity Are Functional as Monomers for Neutrophil Activation. Journal of Biological Chemistry, 1997, 272, 1725-1729. | 1.6 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Interaction of the Second Binding Region of Troponin I with the Regulatory Domain of Skeletal Muscle Troponin C as Determined by NMR Spectroscopy. Journal of Biological Chemistry, 1997, 272, 28494-28500. | 1.6 | 95 |
| 164 | A Molecular Basis for Different Interactions of Marine Toxins with Protein Phosphatase-1. Journal of Biological Chemistry, 1997, 272, 5087-5097. | 1.6 | 133 |
| 165 | Interactions of Structural C and Regulatory N Domains of Troponin C with Repeated Sequence Motifs in Troponin I. Biochemistry, 1997, 36, 7601-7606. | 1.2 | 58 |
| 166 | NMR Studies of Ca2+Binding to the Regulatory Domains of Cardiac and E41A Skeletal Muscle Troponin C Reveal the Importance of Site I to Energetics of the Induced Structural Changesâ€. Biochemistry, 1997, 36, 12519-12525. | 1.2 | 67 |
| 167 | Mechanism of Direct Coupling between Binding and Induced Structural Change in Regulatory Calcium Binding Proteinsâ€. Biochemistry, 1997, 36, 4386-4392. | 1.2 | 122 |
| 168 | Calcium-Induced Structural Transition in the Regulatory Domain of Human Cardiac Troponin Câ€,â€¡. Biochemistry, 1997, 36, 12138-12146. | 1.2 | 198 |
| 169 | A Diminished Role for Hydrogen Bonds in Antifreeze Protein Binding to Iceâ€. Biochemistry, 1997, 36, 14652-14660. | 1.2 | 204 |
| 170 | Interaction of the receptor binding domains of Pseudomonas aeruginosa pili strains PAK, PAO, KB7 and P1 to a cross-reactive antibody and receptor analog: implications for synthetic vaccine design. Journal of Molecular Biology, 1997, 267, 382-402. | 2.0 | 34 |
| 171 | Antifreeze proteins. Current Opinion in Structural Biology, 1997, 7, 828-834. | 2.6 | 197 |
| 172 | Automated 1H and 13C chemical shift prediction using the BioMagResBank. Journal of Biomolecular NMR, 1997, 10, 329-336. | 1.6 | 85 |
| 173 | ORB, a homology-based program for the prediction of protein NMR chemical shifts. Journal of Biomolecular NMR, 1997, 10, 165-179. | 1.6 | 18 |
| 174 | Growth factor receptors: Structure, mechanism, and drug discovery. Biopolymers, 1997, 43, 339-366. | 1.2 | 68 |
| 175 | NMR Characterization of Side Chain Flexibility and Backbone Structure in the Type I Antifreeze Protein at Near Freezing Temperaturesâ€. Biochemistry, 1996, 35, 16698-16704. | 1.2 | 56 |
| 176 | Structural characterization of a monomeric chemokine: Monocyte chemoattractant protein-3. FEBS Letters, 1996, 395, 277-282. | 1.3 | 62 |
| 177 | 1H NMR evidence that Glu-38 interacts with the N-terminal functional domain in interleukin-8. FEBS Letters, 1996, 399, 43-46. | 1.3 | 14 |
| 178 | Refined solution structure of type III antifreeze protein: hydrophobic groups may be involved in the energetics of the proteinâ€“ice interaction. Structure, 1996, 4, 1325-1337. | 1.6 | 177 |
| 179 | A method for the facile solid-phase synthesis of gramicidin S and its analogs. International Journal of Peptide Research and Therapeutics, 1996, 3, 53-60. | 0.1 | 21 |
| 180 | Temperature coefficients of amide proton NMR resonance frequencies in trifluoroethanol: A monitor of intramolecular hydrogen bonds in helical peptides?. Journal of Biomolecular NMR, 1996, 8, 93-97. | 1.6 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | NMR solution structure of the receptor binding domain of Pseudomonas aeruginosa pilin strain P1. Identification of a Î²â€turn. International Journal of Peptide and Protein Research, 1996, 48, 539-552. | 0.1 | 11 |
| 182 | Assignment of the helical structure in neuropeptide Y by HPLC studies of methionine replacement analogues and 1Hâ€NMR spectroscopy. Biopolymers, 1996, 39, 207-219. | 1.2 | 2 |
| 183 | Structure-activity relationships of chemokines. Journal of Leukocyte Biology, 1995, 57, 703-711. | 1.5 | 325 |
| 184 | 1H, 13C and 15N chemical shift referencing in biomolecular NMR. Journal of Biomolecular NMR, 1995, 6, 135-140. | 1.6 | 2,216 |
| 185 | 1H, 13C and 15N random coil NMR chemical shifts of the common amino acids. I. Investigations of nearest-neighbor effects. Journal of Biomolecular NMR, 1995, 5, 67-81. | 1.6 | 1,604 |
| 186 | Solution secondary structure of calciumâ€saturated troponin C monomer determined by multidimensional heteronuclear NMR spectroscopy. Protein Science, 1995, 4, 1279-1290. | 3.1 | 36 |
| 187 | Comparison of the solution structures of microcystin-LR and motuporin. Nature Structural and Molecular Biology, 1995, 2, 114-116. | 3.6 | 49 |
| 188 | Structures of the troponin C regulatory domains in the apo and calcium-saturated states. Nature Structural and Molecular Biology, 1995, 2, 784-789. | 3.6 | 262 |
| 189 | NMR solution structure of calcium-saturated skeletal muscle troponin C. Biochemistry, 1995, 34, 15953-15964. | 1.2 | 197 |
| 190 | Comparison of NMR solution structures of the receptor binding domains of Pseudomonas aeruginosa pili strains PAO, KB7, and PAK: implications for receptor binding and synthetic vaccine design. Biochemistry, 1995, 34, 16255-16268. | 1.2 | 50 |
| 191 | Structure-Function Analysis of the Adherence-Binding Domain on the Pilin of Pseudomonas aeruginosa Strains PAK and KB7. Biochemistry, 1995, 34, 12963-12972. | 1.2 | 61 |
| 192 | Generating Multiple Conformations of Flexible Peptides in Solution on the Basis of NMR Nuclear Overhauser Effect Data: Application to Desmopressin. Journal of the American Chemical Society, 1995, 117, 8627-8634. | 6.6 | 35 |
| 193 | Calcium Binding to the Regulatory N-Domain of Skeletal Muscle Troponin C Occurs in a Stepwise Manner. Biochemistry, 1995, 34, 8330-8340. | 1.2 | 92 |
| 194 | Calcium-Induced Dimerization of Troponin C: Mode of Interaction and Use of Trifluoroethanol as a Denaturant of Quaternary Structure. Biochemistry, 1995, 34, 7365-7375. | 1.2 | 73 |
| 195 | Preferential Heterodimeric Parallel Coiled-coil Formation by Synthetic Max and c-Myc Leucine Zippers: A Description of Putative Electrostatic Interactions Responsible for the Specificity of Heterodimerization. Journal of Molecular Biology, 1995, 254, 505-520. | 2.0 | 106 |
| 196 | 1H NMR Solution Structure of an Active Monomeric Interleukin-8. Biochemistry, 1995, 34, 12983-12990. | 1.2 | 97 |
| 197 | Comparative modeling of the threeâ€dimensional structure of Type II antifreeze protein. Protein Science, 1995, 4, 460-471. | 3.1 | 45 |
| 198 | Effect of trifluoroethanol on the solution structure and flexibility of desmopressin: a twoâ€dimensional NMR study. International Journal of Peptide and Protein Research, 1995, 45, 471-481. | 0.1 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | ç¬¬33å›žå¹´ä¼š. Seibutsu Butsuri, 1995, 35, S92-S92. | 0.0 | 0 |
| 200 | Relative stabilities of synthetic peptide homoâ€•and heterodimeric troponinâ€€ domains. Protein Science, 1994, 3, 1010-1019. | 3.1 | 19 |
| 201 | Structureâ€€function relationship in the globular type III antifreeze protein: Identification of a cluster of surface residues required for binding to ice. Protein Science, 1994, 3, 1760-1769. | 3.1 | 119 |
| 202 | Quantification of the calciumâ€€induced secondary structural changes in the regulatory domain of troponinâ€€. Protein Science, 1994, 3, 1961-1974. | 3.1 | 182 |
| 203 | Conformational differences betweencis andtrans proline isomers of a peptide antigen representing the receptor binding domain ofPseudomonas aeruginosa as studied by1H-nmr. Biopolymers, 1994, 34, 1221-1230. | 1.2 | 12 |
| 204 | [12] Chemical shifts as a tool for structure determination. Methods in Enzymology, 1994, 239, 363-392. | 0.4 | 803 |
| 205 | Use of proline mutants to help solve the NMR solution structure of type III antifreeze protein. Protein Science, 1993, 2, 1411-1428. | 3.1 | 54 |
| 206 | NMR solution structure and flexibility of a peptide antigen representing the receptor binding domain of Pseudomonas aeruginosa. Biochemistry, 1993, 32, 13432-13440. | 1.2 | 35 |
| 207 | Characterization of Î³-Radiation Induced Decomposition Products of Thymidine-Containing Dinucleoside Monophosphates by Nuclear Magnetic Resonance Spectroscopy. Journal of Biomolecular Structure and Dynamics, 1993, 10, 747-762. | 2.0 | 9 |
| 208 | Role of interchain Î±â€helical hydrophobic interactions in Ca<sup>2+</sup> affinity, formation, and stability of a twoâ€site domain in troponin C. Protein Science, 1992, 1, 945-955. | 3.1 | 34 |
| 209 | A <sup>1</sup>H NMR study of a ternary peptide complex that mimics the interaction between troponin C and troponin I. Protein Science, 1992, 1, 1595-1603. | 3.1 | 18 |
| 210 | Interaction of troponin I and troponin C: use of the two-dimensional transferred nuclear Overhauser effect to determine the structure of a Gly-110 inhibitory troponin I peptide analog when bound to cardiac troponin C. BBA - Proteins and Proteomics, 1992, 1160, 35-54. | 2.1 | 28 |
| 211 | Stoichiometry of calcium binding to a synthetic heterodimeric troponin-C domain. Biopolymers, 1992, 32, 391-397. | 1.2 | 13 |
| 212 | An improved synthesis of Î±-13C glycine and heteronuclear NMR studies of its incorporation into thioredoxin. Journal of Labelled Compounds and Radiopharmaceuticals, 1992, 31, 1019-1028. | 0.5 | 3 |
| 213 | Interaction of troponin I and troponin C. Journal of Molecular Biology, 1991, 222, 405-421. | 2.0 | 79 |
| 214 | Biophysical studies on the calcium trigger of muscle contraction. Biopolymers, 1987, 26, S123-S144. | 1.2 | 10 |
| 215 | The cryoprotective effects of dimethyl sulfoxide on human bone marrow as studied by31P nuclear magnetic resonance spectroscopy. Magnetic Resonance in Medicine, 1986, 3, 203-216. | 1.9 | 2 |
| 216 | 13C and 113Cd NMR studies of the chelation of metal ions by the calcium binding protein parvalbumin. Journal of Inorganic Biochemistry, 1985, 25, 141-149. | 1.5 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Use of lanthanide-induced nuclear magnetic resonance shifts for determination of protein structure in solution: EF calcium binding site of carp parvalbumin. Biochemistry, 1983, 22, 4366-4373. | 1.2 | 97 |
| 218 | X-ray crystallography of the binding of the bacterial cell wall trisaccharide NAM-NAG-NAM to lysozyme. Nature, 1979, 282, 875-878. | 13.7 | 125 |
| 219 | A determination of the relative compactness of the Ca2+ -binding sites of a Ca2+ -binding fragment of troponin-c and parvalbumin using lanthanide-induced 1 H NMR shifts. FEBS Letters, 1979, 98, 169-172. | 1.3 | 19 |
| 220 | Interaction of the lacZ Î²-galactosidase of Escherichia coli with some Î²-d-galactopyranoside competitive inhibitors. Biochemical Journal, 1979, 177, 145-152. | 1.7 | 25 |
| 221 | Fluorine-19 nuclear magnetic resonance study of fluorotyrosine alkaline phosphatase: the influence of zinc on protein structure and a conformational change induced by phosphate binding. Biochemistry, 1976, 15, 1535-1546. | 1.2 | 127 |
| 222 | Fluorotyrosine alkaline phosphatase: Internal mobility of individual tyrosines and the role of chemical shift anisotropy as a 19F nuclear spin relaxation mechanism in proteins. Journal of Molecular Biology, 1975, 98, 121-153. | 2.0 | 212 |
| 223 | Stepwise binding of small molecules to proteins. Nuclear magnetic resonance and temperature jump studies of the binding of 4-(N-acetylaminoglucosyl)-N-acetylglucosamine to lysozyme. Biochemistry, 1975, 14, 1893-1899. | 1.2 | 27 |
| 224 | Fluorotyrosine alkaline phosphatase. Fluorine-19 nuclear magnetic resonance relaxation times and molecular motion of the individual fluorotyrosines. Biochemistry, 1974, 13, 3431-3437. | 1.2 | 75 |
| 225 | Application of transient nuclear magnetic resonance methods to the measurement of biological exchange rates. Interaction of trifluoroacetyl-D-phenylalanine with the chymotrypsins. Journal of the American Chemical Society, 1969, 91, 949-955. | 6.6 | 64 |
| 226 | Drugging the Sarcomere, a Delicate Balance: Position of N-Terminal Charge of the Inhibitor W7. ACS Chemical Biology, 0, , . | 1.6 | 1 |