

# Mark Bycroft

## List of Publications by Year in descending order

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89  
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8,551  
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61984  
43  
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46799  
89  
g-index

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all docs

90  
docs citations

90  
times ranked

11247  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient folding intermediates characterized by protein engineering. <i>Nature</i> , 1990, 346, 440-445.	27.8	501
2	The macro domain is an ADP-ribose binding module. <i>EMBO Journal</i> , 2005, 24, 1911-1920.	7.8	439
3	Strength and co-operativity of contributions of surface salt bridges to protein stability. <i>Journal of Molecular Biology</i> , 1990, 216, 1031-1044.	4.2	410
4	The structure of a LysM domain from <i>E. coli</i> membrane-bound lytic murein transglycosylase D (MltD) 1 Edited by P. E. Wight. <i>Journal of Molecular Biology</i> , 2000, 299, 1113-1119.	4.2	402
5	The Solution Structure of the S1 RNA Binding Domain: A Member of an Ancient Nucleic Acid Binding Fold. <i>Cell</i> , 1997, 88, 235-242.	28.9	391
6	Estimating the contribution of engineered surface electrostatic interactions to protein stability by using double-mutant cycles. <i>Biochemistry</i> , 1990, 29, 9343-9352.	2.5	390
7	RNA recognition by a Staufen double-stranded RNA-binding domain. <i>EMBO Journal</i> , 2000, 19, 997-1009.	7.8	331
8	Aromatic-aromatic interactions and protein stability. <i>Journal of Molecular Biology</i> , 1991, 218, 465-475.	4.2	315
9	Molecular Mechanism of the Interaction between MDM2 and p53. <i>Journal of Molecular Biology</i> , 2002, 323, 491-501.	4.2	307
10	Crystal Structure of a Calcium-Phospholipid Binding Domain from Cytosolic Phospholipase A2. <i>Journal of Biological Chemistry</i> , 1998, 273, 1596-1604.	3.4	256
11	Detection and characterization of a folding intermediate in barnase by NMR. <i>Nature</i> , 1990, 346, 488-490.	27.8	241
12	Stabilization of protein structure by interaction of $\alpha$ -helix dipole with a charged side chain. <i>Nature</i> , 1988, 335, 740-743.	27.8	239
13	Molecular basis of histone H3K36me3 recognition by the PWWP domain of Brpf1. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 617-619.	8.2	192
14	Four domains of p300 each bind tightly to a sequence spanning both transactivation subdomains of p53. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7009-7014.	7.1	190
15	The Autophagy Receptor TAX1BP1 and the Molecular Motor Myosin VI Are Required for Clearance of <i>Salmonella Typhimurium</i> by Autophagy. <i>PLoS Pathogens</i> , 2015, 11, e1005174.	4.7	177
16	Surface electrostatic interactions contribute little to stability of barnase. <i>Journal of Molecular Biology</i> , 1991, 220, 779-788.	4.2	176
17	Comparative Binding of p53 to its Promoter and DNA Recognition Elements. <i>Journal of Molecular Biology</i> , 2005, 348, 589-596.	4.2	167
18	Solution structure of the nonmethyl-CpG-binding CXXC domain of the leukaemia-associated MLL histone methyltransferase. <i>EMBO Journal</i> , 2006, 25, 4503-4512.	7.8	146

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19	A Comparison of the pH, Urea, and Temperature-denatured States of Barnase by Heteronuclear NMR: Implications for the Initiation of Protein Folding. <i>Journal of Molecular Biology</i> , 1995, 254, 305-321.	4.2	134
20	The UBX domain: a widespread ubiquitin-like module. <i>Journal of Molecular Biology</i> , 2001, 307, 17-24.	4.2	130
21	Determination of the three-dimensional solution structure of barnase using nuclear magnetic resonance spectroscopy. <i>Biochemistry</i> , 1991, 30, 8697-8701.	2.5	125
22	Structure of the Jab1/MPN Domain and Its Implications for Proteasome Function. <i>Biochemistry</i> , 2003, 42, 11460-11465.	2.5	115
23	The Crystal Structure of AF1521 a Protein from <i>Archaeoglobus fulgidus</i> with Homology to the Non-histone Domain of MacroH2A. <i>Journal of Molecular Biology</i> , 2003, 330, 503-511.	4.2	113
24	Three-dimensional solution structure and <sup>13</sup> C assignments of barstar using nuclear magnetic resonance spectroscopy. <i>Biochemistry</i> , 1994, 33, 8866-8877.	2.5	110
25	Structural Consequences of Nucleophosmin Mutations in Acute Myeloid Leukemia. <i>Journal of Biological Chemistry</i> , 2008, 283, 23326-23332.	3.4	107
26	Recruitment of TBK1 to cytosolic invading <i>Salmonella</i> induces WIPI2-dependent antibacterial autophagy. <i>EMBO Journal</i> , 2016, 35, 1779-1792.	7.8	107
27	The folding of an enzyme. <i>Journal of Molecular Biology</i> , 1992, 224, 837-845.	4.2	100
28	The structure of a tunicate C-type lectin from <i>polyandrocarpa misakiensis</i> complexed with d-galactose. <i>Journal of Molecular Biology</i> , 1999, 290, 867-879.	4.2	94
29	Regulation of DNA Binding of p53 by its C-terminal Domain. <i>Journal of Molecular Biology</i> , 2004, 342, 801-811.	4.2	94
30	The FtsK $\hat{\Gamma}^3$ domain directs oriented DNA translocation by interacting with KOPS. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 965-972.	8.2	92
31	The UBAP1 Subunit of ESCRT-I Interacts with Ubiquitin via a SOUBA Domain. <i>Structure</i> , 2012, 20, 414-428.	3.3	88
32	Functional Analysis of the Post-transcriptional Regulator RsmA Reveals a Novel RNA-binding Site. <i>Journal of Molecular Biology</i> , 2006, 355, 1026-1036.	4.2	87
33	Solution Structure of the Kaposi's Sarcoma-associated Herpesvirus K3 N-terminal Domain Reveals a Novel E2-binding C4HC3-type RING Domain. <i>Journal of Biological Chemistry</i> , 2004, 279, 53840-53847.	3.4	85
34	The PUB Domain Functions as a p97 Binding Module in Human Peptide N-Glycanase. <i>Journal of Biological Chemistry</i> , 2006, 281, 25502-25508.	3.4	84
35	The Structure of an FF Domain from Human HYPA/FBP11. <i>Journal of Molecular Biology</i> , 2002, 323, 411-416.	4.2	82
36	Equilibrium dissociation and unfolding of the dimeric human papillomavirus strain 16 E2 DNA-binding domain. <i>Protein Science</i> , 1996, 5, 310-319.	7.6	77

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37	Amperometric enzyme electrodes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 218, 119-126.	0.1	64
38	Structure and Stability of an Immunoglobulin Superfamily Domain from Twitchin, a Muscle Protein of the Nematode <i>Caenorhabditis elegans</i> . Journal of Molecular Biology, 1996, 264, 624-639.	4.2	59
39	The General Definition of the p97/Valosin-containing Protein (VCP)-interacting Motif (VIM) Delineates a New Family of p97 Cofactors. Journal of Biological Chemistry, 2011, 286, 38670-38678.	3.4	58
40	The Structure of the AXH Domain of Spinocerebellar Ataxin-1. Journal of Biological Chemistry, 2004, 279, 3758-3765.	3.4	55
41	NMR Structure of the $\alpha$ -Hemoglobin Stabilizing Protein. Journal of Biological Chemistry, 2004, 279, 34963-34970.	3.4	52
42	Structural basis for $P$ an3 binding to $P$ an2 and its function in mRNA recruitment and deadenylation. EMBO Journal, 2014, 33, 1514-1526.	7.8	50
43	Electrostatic Interactions Contribute to Reduced Heat Capacity Change of Unfolding in a Thermophilic Ribosomal Protein L30e. Journal of Molecular Biology, 2005, 348, 419-431.	4.2	44
44	Crystal Structure of the Malignant Brain Tumor (MBT) Repeats in Sex Comb on Midleg-like 2 (SCML2). Journal of Biological Chemistry, 2003, 278, 46968-46973.	3.4	41
45	Sequential assignment of the proton nuclear magnetic resonance spectrum of barnase. Biochemistry, 1990, 29, 7425-7432.	2.5	39
46	Identification of the barstar binding site of barnase by NMR spectroscopy and hydrogen-deuterium exchange. FEBS Letters, 1993, 331, 165-172.	2.8	38
47	Structural Variation in PWWP Domains. Journal of Molecular Biology, 2003, 330, 571-576.	4.2	38
48	Crystal Structures and Nuclear Magnetic Resonance Studies of the Apo Form of the c-MYC:MAX bHLHZip Complex Reveal a Helical Basic Region in the Absence of DNA. Biochemistry, 2019, 58, 3144-3154.	2.5	38
49	Solution structure of the C4 zinc finger domain of HDM2. Protein Science, 2006, 15, 384-389.	7.6	36
50	The dimeric DNA binding domain of the human papillomavirus E2 protein folds through a monomeric intermediate which cannot be native-like. Nature Structural and Molecular Biology, 1996, 3, 711-717.	8.2	35
51	Crystal Structure of a Hyperthermophilic Archaeal Acylphosphatase from <i>Pyrococcus horikoshii</i> Structural Insights into Enzymatic Catalysis, Thermostability, and Dimerization. Biochemistry, 2005, 44, 4601-4611.	2.5	35
52	Solution Structure of the BRK Domains from CHD7. Journal of Molecular Biology, 2007, 371, 1135-1140.	4.2	34
53	Characterization of phosphate binding in the active site of barnase by site-directed mutagenesis and NMR. Biochemistry, 1991, 30, 11348-11356.	2.5	33
54	The structure of the FYR domain of transforming growth factor beta regulator 1. Protein Science, 2010, 19, 1432-1438.	7.6	33

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55	The SWI/SNF Subunit INI1 Contains an N-Terminal Winged Helix DNA Binding Domain that Is a Target for Mutations in Schwannomatosis. <i>Structure</i> , 2015, 23, 1344-1349.	3.3	33
56	The Malignant Brain Tumor Repeats of Human SCML2 Bind to Peptides Containing Monomethylated Lysine. <i>Journal of Molecular Biology</i> , 2008, 382, 1107-1112.	4.2	31
57	Molecular basis of the interactions between the p73 N terminus and p300: Effects on transactivation and modulation by phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3142-3147.	7.1	31
58	NMR structure of the N-terminal domain of <i>Saccharomyces cerevisiae</i> RNase HI reveals a fold with a strong resemblance to the N-terminal domain of ribosomal protein L9 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1999, 291, 661-669.	4.2	30
59	Characterisation of urea-denatured states of an immunoglobulin superfamily domain by heteronuclear NMR 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 278, 417-429.	4.2	29
60	Structure of the C-terminal sterile $\alpha$ -motif (SAM) domain of human p73 $\Delta$ . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 545-551.	2.5	28
61	The solution structure of the ZnF UBP domain of USP33/VDU1. <i>Protein Science</i> , 2007, 16, 2072-2075.	7.6	28
62	A high-resolution structure of the EF-hand domain of human polycystin $\Delta$ 2. <i>Protein Science</i> , 2014, 23, 1301-1308.	7.6	26
63	Structure and dynamics of barnase complexed with 3'-GMP studied by NMR spectroscopy. <i>Biochemistry</i> , 1993, 32, 10975-10987.	2.5	25
64	Letter to Editor: Solution structure of the HPV-16 E2 DNA binding domain, a transcriptional regulator with a dimeric $\beta$ -barrel fold. <i>Journal of Biomolecular NMR</i> , 2004, 30, 211-214.	2.8	25
65	Role of Conformational Heterogeneity in Domain Swapping and Adapter Function of the Cks Proteins. <i>Journal of Biological Chemistry</i> , 2005, 280, 30448-30459.	3.4	23
66	Structural basis of p63 $\Delta$ SAM domain mutants involved in AEC syndrome. <i>FEBS Journal</i> , 2011, 278, 2680-2688.	4.7	23
67	The structure of $\langle$ INI $\rangle$ 1/ $\langle$ hSNF $\rangle$ 5 $\langle$ RPT $\rangle$ 1 and its interactions with the $\langle$ MYC $\rangle$ : $\langle$ MAX $\rangle$ heterodimer provide insights into the interplay between $\langle$ MYC $\rangle$ and the $\langle$ SWI $\rangle$ / $\langle$ SNF $\rangle$ chromatin remodeling complex. <i>FEBS Journal</i> , 2018, 285, 4165-4180.	4.7	22
68	An integrated computational approach can classify VHL missense mutations according to risk of clear cell renal carcinoma. <i>Human Molecular Genetics</i> , 2014, 23, 5976-5988.	2.9	21
69	Assignment of the backbone $^1$ H and $^{15}$ N NMR resonances and secondary structure characterization of barstar. <i>FEBS Letters</i> , 1993, 332, 81-87.	2.8	20
70	The Ligand-Binding Loops in the Tunicate C-Type Lectin TC14 Are Rigid. <i>Biochemistry</i> , 2001, 40, 10966-10972.	2.5	20
71	VHL Mutations Linked to Type 2C von Hippel-Lindau Disease Cause Extensive Structural Perturbations in pVHL. <i>Journal of Biological Chemistry</i> , 2009, 284, 10514-10522.	3.4	20
72	Structure of the BRK domain of the SWI/SNF chromatin remodeling complex subunit BRG1 reveals a potential role in protein-protein interactions. <i>Protein Science</i> , 2020, 29, 1033-1039.	7.6	17

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73	Assignment of histidine resonances in the proton NMR (500 MHz) spectrum of subtilisin BPN' using site-directed mutagenesis. <i>Biochemistry</i> , 1988, 27, 7390-7394.	2.5	16
74	Folding of a dimeric $\beta$ -barrel: Residual structure in the urea denatured state of the human papillomavirus E2 DNA binding domain. <i>Protein Science</i> , 2000, 9, 799-811.	7.6	16
75	Crystal Structure of Ribosomal Protein L30e from the Extreme Thermophile <i>Thermococcus celer</i> : A Thermal Stability and RNA Binding $\alpha$ - $\beta$ . <i>Biochemistry</i> , 2003, 42, 2857-2865.	2.5	15
76	Solution structure and thermal stability of ribosomal protein L30e from hyperthermophilic archaeon <i>Thermococcus celer</i> . <i>Protein Science</i> , 2003, 12, 1483-1495.	7.6	13
77	Crystallization and preliminary crystallographic studies of a SAM domain at the C-terminus of human p73 $\Delta$ . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 769-771.	2.5	11
78	Crystallization and preliminary crystallographic analysis of a novel orange fluorescent protein from the Cnidarian <i>Anemone Cerianthus</i> sp.. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 340-341.	2.5	11
79	Biophysical Characterization of Elongin C from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , 2000, 39, 11137-11146.	2.5	10
80	Solution structure of the FCS zinc finger domain of the human polycomb group protein L(3)mbt $\Delta$ -like 2. <i>Protein Science</i> , 2009, 18, 657-661.	7.6	10
81	Assignment of the backbone $^1\text{H}$ , $^{15}\text{N}$ , $^{13}\text{C}$ NMR resonances and secondary structure of a double-stranded RNA binding domain from the <i>Drosophila</i> protein staufer. <i>FEBS Letters</i> , 1995, 362, 333-336.	2.8	9
82	Recognition of non-methyl histone marks. <i>Current Opinion in Structural Biology</i> , 2011, 21, 761-766.	5.7	9
83	Physical-organic molecular biology: pathway and stability of protein folding. <i>Pure and Applied Chemistry</i> , 1991, 63, 187-194.	1.9	7
84	Crystallization and preliminary crystallographic analysis of an acylphosphatase from the hyperthermophilic archaeon <i>Pyrococcus horikoshii</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1308-1310.	2.5	7
85	SWI/SNF subunit BAF155 N-terminus structure informs the impact of cancer-associated mutations and reveals a potential drug binding site. <i>Communications Biology</i> , 2021, 4, 528.	4.4	5
86	Solution structure of a soluble fragment derived from a membrane protein by shotgun proteolysis. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 445-450.	2.1	4
87	Letter to the editor: $^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ NMR assignments of the C-type lectin TC14. <i>Journal of Biomolecular NMR</i> , 2000, 18, 283-284.	2.8	3
88	Crystallization and preliminary crystallographic studies of a ribosomal protein L30e from the hyperthermophilic archaeon <i>Thermococcus celer</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 865-866.	2.5	2
89	High-resolution NMR structures of the domains of <i>Saccharomyces cerevisiae</i> Tho1. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 500-506.	0.8	0