

# Paul C. Driscoll

## List of Publications by Year in descending order

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86  
papers

5,171  
citations

101384

36  
h-index

85405

71  
g-index

88  
all docs

88  
docs citations

88  
times ranked

6357  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Function of 3-Phosphorylated Inositol Lipids. Annual Review of Biochemistry, 2001, 70, 535-602.	5.0	1,457
2	Solution structure and ligand-binding site of the SH3 domain of the p85 $\beta$ subunit of phosphatidylinositol 3-kinase. Cell, 1993, 73, 813-822.	13.5	209
3	The phosphatidylinositol 3-phosphate-binding FYVE finger. FEBS Letters, 2002, 513, 77-84.	1.3	181
4	Small Molecule Inhibitors of the Neuropilin-1 Vascular Endothelial Growth Factor A (VEGF-A) Interaction. Journal of Medicinal Chemistry, 2010, 53, 2215-2226.	2.9	168
5	Structure of domain 1 of rat T lymphocyte CD2 antigen. Nature, 1991, 353, 762-765.	13.7	161
6	The OtsAB Pathway Is Essential for Trehalose Biosynthesis in Mycobacterium tuberculosis. Journal of Biological Chemistry, 2005, 280, 14524-14529.	1.6	143
7	Human epidermal growth factor. Journal of Molecular Biology, 1992, 227, 271-282.	2.0	129
8	Structural and Mechanistic Insights into Ras Association Domains of Phospholipase C Epsilon. Molecular Cell, 2006, 21, 495-507.	4.5	129
9	H-NS Oligomerization Domain Structure Reveals the Mechanism for High Order Self-association of the Intact Protein. Journal of Molecular Biology, 2002, 324, 841-850.	2.0	123
10	Characterization of a Bicyclic Peptide Neuropilin-1 (NP-1) Antagonist (EG3287) Reveals Importance of Vascular Endothelial Growth Factor Exon 8 for NP-1 Binding and Role of NP-1 in KDR Signaling. Journal of Biological Chemistry, 2006, 281, 13493-13502.	1.6	118
11	Oligomerization of the chromatin-structuring protein H-NS. Molecular Microbiology, 2000, 36, 962-972.	1.2	112
12	Three-dimensional solution structure of the pleckstrin homology domain from dynamin. Current Biology, 1994, 4, 884-891.	1.8	101
13	Proton NMR assignment and secondary structure of the cell adhesion type III module of fibronectin. Biochemistry, 1992, 31, 2068-2073.	1.2	100
14	The three-dimensional solution structure and dynamic properties of the human FADD death domain 1 Edited by A. Fersht. Journal of Molecular Biology, 2000, 302, 171-188.	2.0	89
15	Identifying strategies to target the metabolic flexibility of tumours. Nature Metabolism, 2020, 2, 335-350.	5.1	86
16	Structural insight into substrate specificity and regulatory mechanisms of phosphoinositide 3-kinases. Trends in Biochemical Sciences, 2002, 27, 426-432.	3.7	85
17	Clustering of Genetically Defined Allele Classes in the <i>Caenorhabditis elegans</i> DAF-2 Insulin/IGF-1 Receptor. Genetics, 2008, 178, 931-946.	1.2	76
18	The X-ray Crystal Structure and Putative Ligand-derived Peptide Binding Properties of $\beta$ -Aminobutyric Acid Receptor Type A Receptor-associated Protein. Journal of Biological Chemistry, 2002, 277, 5556-5561.	1.6	67

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19	Developmental diet regulates <i>Drosophila</i> lifespan via lipid autotoxins. <i>Nature Communications</i> , 2017, 8, 1384.	5.8	63
20	Solution Structure and Phylogenetics of Prod1, a Member of the Three-Finger Protein Superfamily Implicated in Salamander Limb Regeneration. <i>PLoS ONE</i> , 2009, 4, e7123.	1.1	62
21	Practical aspects of proton-carbon-carbon-proton three-dimensional correlation spectroscopy of <sup>13</sup> C-labeled proteins. <i>Journal of Magnetic Resonance</i> , 1990, 87, 620-627.	0.5	58
22	Characterization of Phospholipase C <sup>β</sup> Enzymes with Gain-of-Function Mutations. <i>Journal of Biological Chemistry</i> , 2009, 284, 23083-23093.	1.6	58
23	Rac Regulates Its Effector Phospholipase C <sup>β</sup> 2 through Interaction with a Split Pleckstrin Homology Domain. <i>Journal of Biological Chemistry</i> , 2008, 283, 30351-30362.	1.6	56
24	The influence of stereospecific assignments on the determination of three-dimensional structures of proteins by nuclear magnetic resonance spectroscopy. <i>FEBS Letters</i> , 1989, 243, 223-233.	1.3	55
25	The 3D Solution Structure of the C-terminal Region of Ku86 (Ku86CTR). <i>Journal of Molecular Biology</i> , 2004, 335, 573-582.	2.0	55
26	NMR Analysis of Interacting Soluble Forms of the Cell-Cell Recognition Molecules CD2 and CD48. <i>Biochemistry</i> , 1996, 35, 5982-5991.	1.2	53
27	Solution structure of the fibrin binding finger domain of tissue-type plasminogen activator determined by <sup>1</sup> H nuclear magnetic resonance. <i>Journal of Molecular Biology</i> , 1992, 225, 821-833.	2.0	52
28	Solution structure of the C-terminal SH2 domain of the p85 <sup>β</sup> regulatory subunit of phosphoinositide 3-kinase 1. Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 276, 461-478.	2.0	50
29	Rhythmic glucose metabolism regulates the redox circadian clockwork in human red blood cells. <i>Nature Communications</i> , 2021, 12, 377.	5.8	49
30	NMR structure of a complex between the VirB9/VirB7 interaction domains of the pKM101 type IV secretion system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1673-1678.	3.3	48
31	The Solution Structure of the F42A Mutant of Human Interleukin 2. <i>Journal of Molecular Biology</i> , 1995, 247, 979-994.	2.0	47
32	The energetics of HMG box interactions with DNA. Thermodynamic description of the box from mouse Sox-5. Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 281, 705-717.	2.0	47
33	Intermolecular Interactions of the p85 <sup>β</sup> Regulatory Subunit of Phosphatidylinositol 3-Kinase. <i>Journal of Biological Chemistry</i> , 1999, 274, 12323-12332.	1.6	47
34	NMR exchange broadening arising from specific low affinity protein self-association: analysis of nitrogen-15 nuclear relaxation for rat CD2 domain 1. <i>Journal of Biomolecular NMR</i> , 1999, 14, 307-320.	1.6	42
35	The solution structure and backbone dynamics of the fibronectin type I and epidermal growth factor-like pair of modules of tissue-type plasminogen activator. <i>Structure</i> , 1995, 3, 823-833.	1.6	37
36	Structural characterization of the N-terminal oligomerization domain of the bacterial chromatin-structuring protein, H-NS. <i>Journal of Molecular Biology</i> , 2001, 306, 1127-1137.	2.0	37

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37	Solution Structure of the Inner DysF Domain of Myoferlin and Implications for Limb Girdle Muscular Dystrophy Type 2B. <i>Journal of Molecular Biology</i> , 2008, 379, 981-990.	2.0	36
38	Catalysis of plastocyanin electron self-exchange by redox-inert multivalent cations. <i>FEBS Letters</i> , 1985, 190, 242-248.	1.3	35
39	NMR and crystallography – complementary approaches to structure determination. <i>Trends in Biotechnology</i> , 1994, 12, 149-153.	4.9	35
40	Combinatorial Domain Hunting: An effective approach for the identification of soluble protein domains adaptable to high-throughput applications. <i>Protein Science</i> , 2006, 15, 2356-2365.	3.1	34
41	Determination of pKa Values of Carboxyl Groups in the N-Terminal Domain of Rat CD2: Anomalous pKa of a Glutamate on the Ligand-Binding Surface. <i>Biochemistry</i> , 2000, 39, 6814-6824.	1.2	33
42	Crystal structure of the C-terminal SH2 domain of the p85 $\beta$ regulatory subunit of phosphoinositide 3-kinase: an SH2 domain mimicking its own substrate. <i>Journal of Molecular Biology</i> , 1999, 292, 763-770.	2.0	31
43	Backbone dynamics of the C-terminal SH2 domain of the p85 $\beta$ subunit of phosphoinositide 3-kinase: effect of phosphotyrosine-peptide binding and characterization of slow conformational exchange processes 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 2000, 299, 771-788.	2.0	31
44	Synthesis of Orthogonally Protected Lanthionines. <i>Journal of Organic Chemistry</i> , 2003, 68, 8185-8192.	1.7	31
45	Low resolution structure of interleukin-1 $\beta$ in solution derived from 1H $\beta$ -, 15N heteronuclear three-dimensional nuclear magnetic resonance spectroscopy. <i>Journal of Molecular Biology</i> , 1990, 214, 811-817.	2.0	25
46	Structural analysis of the CD5 antigen. Expression, disulphide bond analysis and physical characterisation of CD5 scavenger receptor superfamily domain 1. <i>FEBS Journal</i> , 1998, 257, 131-141.	0.2	25
47	Structural Homology between the C-Terminal Domain of the PapC Usher and Its Plug. <i>Journal of Bacteriology</i> , 2010, 192, 1824-1831.	1.0	25
48	Mechanism of Action of Secreted Newt Anterior Gradient Protein. <i>PLoS ONE</i> , 2016, 11, e0154176.	1.1	25
49	DNA fragmentation-based combinatorial approaches to soluble protein expression. <i>Drug Discovery Today</i> , 2007, 12, 931-938.	3.2	20
50	The impact of physiological metabolite levels on serine uptake, synthesis and utilization in cancer cells. <i>Nature Communications</i> , 2021, 12, 6176.	5.8	19
51	Structural and Biochemical Evaluation of the Interaction of the Phosphatidylinositol 3-Kinase p85 $\beta$ Src Homology 2 Domains with Phosphoinositides and Inositol Polyphosphates. <i>Journal of Biological Chemistry</i> , 1999, 274, 15678-15685.	1.6	18
52	Endocytosis: How dynamin sets vesicles PHree!. <i>Current Biology</i> , 1999, 9, R301-R304.	1.8	18
53	Solution structure and backbone dynamics of the DNA-binding domain of mouse Sox-5. <i>Protein Science</i> , 2001, 10, 83-98.	3.1	18
54	Synthesis of a Cyclic Peptide Containing Norlanthionine: Effect of the Thioether Bridge on Peptide Conformation. <i>Journal of Organic Chemistry</i> , 2003, 68, 8193-8198.	1.7	18

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55	Three-dimensional Solution Structure and Conformational Plasticity of the N-terminal Scavenger Receptor Cysteine-rich Domain of Human CD5. <i>Journal of Molecular Biology</i> , 2008, 378, 129-144.	2.0	16
56	<sup>1</sup> H NMR studies of Cr(NH <sub>3</sub> ) <sub>6</sub> <sup>3+</sup> binding to spinach plastocyanin. <i>Journal of Inorganic Biochemistry</i> , 1986, 28, 171-180.	1.5	14
57	Characterization and Manipulation of the <i>Pseudomonas aeruginosa</i> Dimethylarginine Dimethylaminohydrolase Monomer-Dimer Equilibrium. <i>Journal of Molecular Biology</i> , 2004, 341, 171-184.	2.0	14
58	Structural insights into the catalytic mechanism of <i>Trypanosoma cruzi</i> GPXI (glutathione) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (	1.7	14
59	Flexible Stoichiometry and Asymmetry of the PIDDosome Core Complex by Heteronuclear NMR Spectroscopy and Mass Spectrometry. <i>Journal of Molecular Biology</i> , 2015, 427, 737-752.	2.0	14
60	Cross-restriction of a T cell clone to HLA-DR alleles associated with rheumatoid arthritis: Clues to arthritogenic peptide motifs. <i>Arthritis and Rheumatism</i> , 1999, 42, 1040-1050.	6.7	13
61	RILM: a web-based resource to aid comparative and functional analysis of the insulin and IGF-1 receptor family. <i>Human Mutation</i> , 2007, 28, 660-668.	1.1	13
62	Solving the FYVE domain-PtdIns(3)P puzzle. , 2001, 8, 287-290.		12
63	Letter to the Editor: <sup>1</sup> H, <sup>15</sup> N, and <sup>13</sup> C chemical shift assignments of the resuscitation promoting factor domain of Rv1009 from <i>Mycobacterium tuberculosis</i> . <i>Journal of Biomolecular NMR</i> , 2004, 30, 373-374.	1.6	12
64	DNA fragmentation based combinatorial approaches to soluble protein expression. <i>Drug Discovery Today</i> , 2007, 12, 939-947.	3.2	11
65	Application of Maximum Entropy Methods to Three-Dimensional NMR Spectroscopy. <i>Journal of Magnetic Resonance Series B</i> , 1993, 101, 218-222.	1.6	10
66	Biophysical and cell-based evidence for differential interactions between the death domains of CD95/Fas and FADD. <i>Cell Death and Differentiation</i> , 2007, 14, 1717-1719.	5.0	10
67	Crystallization and Preliminary X-ray Diffraction Characterisation of Both a Native and Selenomethionyl VLA-4 Binding Fragment of VCAM-1. <i>Journal of Molecular Biology</i> , 1994, 244, 464-468.	2.0	9
68	Synthesis of cyclic peptides containing nor-lanthionine bridges via a triply-orthogonal protecting group strategy. <i>Tetrahedron Letters</i> , 2002, 43, 8363-8366.	0.7	9
69	Crystal structures of PI3K-C2 <sup>±</sup> PX domain indicate conformational change associated with ligand binding. <i>BMC Structural Biology</i> , 2008, 8, 13.	2.3	9
70	Structural and Functional Characterization of the Recombinant Death Domain from Death-Associated Protein Kinase. <i>PLoS ONE</i> , 2013, 8, e70095.	1.1	8
71	The pH Dependence of CD2 Domain 1 Self-Association and <sup>15</sup> N Chemical Exchange Broadening Is Correlated with the Anomalous pKa of Glu41. <i>Biochemistry</i> , 2002, 41, 14680-14688.	1.2	7
72	Backbone <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N resonance assignments for a 14 kD protein, GABA(A) receptor associated protein (GABARAP). <i>Journal of Biomolecular NMR</i> , 2001, 21, 185-186.	1.6	6

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73	An Improved Method for Measuring Absolute Metabolite Concentrations in Small Biofluid or Tissue Samples. <i>Journal of Proteome Research</i> , 2019, 18, 1503-1512.	1.8	6
74	<sup>1</sup> H-NMR as implemented in several origin of life studies artificially implies the absence of metabolism-like non-enzymatic reactions by being signal-suppressed. <i>Wellcome Open Research</i> , 0, 2, 52.	0.9	6
75	Sequence specific <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonance assignment of rat CD2 domain 1. <i>Journal of Biomolecular NMR</i> , 1998, 12, 457-458.	1.6	5
76	Structural Studies of Death Receptors. <i>Methods in Enzymology</i> , 2014, 545, 201-242.	0.4	5
77	Backbone <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N resonance assignments for the 26-kD human de-ubiquitinating enzyme UCH-L3. <i>Biomolecular NMR Assignments</i> , 2007, 1, 51-53.	0.4	4
78	GAGA over the nucleosome. <i>Nature Structural Biology</i> , 1997, 4, 87-89.	9.7	3
79	Backbone <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N Resonance Assignments for the two 13 kD Ras Associating Domains (RA1 and RA2) of the Tumor Suppressor p115. <i>Journal of Biomolecular NMR</i> , 2001, 21, 107-114.	1.6	3
80	Exposed: The Many and Varied Roles of Phospholipase C $\hat{\beta}$ SH2 Domains. <i>Journal of Molecular Biology</i> , 2015, 427, 2731-2733.	2.0	3
81	Primordial Krebs-cycle-like non-enzymatic reactions detected by mass spectrometry and nuclear magnetic resonance. <i>Wellcome Open Research</i> , 0, 2, 52.	0.9	3
82	Low-temperature study of the plastocyanin <sup>+</sup> ferricyanide electron-transfer reaction in aqueous methanol reveals an unusual energy barrier. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 234-235.	2.0	2
83	Expression and Characterization of a Very-Late Antigen-4 (alpha4beta1) Integrin-Binding Fragment of Vascular Cell-Adhesion Molecule-1. <i>FEBS Journal</i> , 1994, 226, 517-523.	0.2	1
84	Backbone <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N resonance assignments for the C-terminal region of Ku86 (Ku86CTR). <i>Journal of Biomolecular NMR</i> , 2002, 22, 373-374.	1.6	1
85	Letter to the Editor: Backbone <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N Resonance Assignments for a 29 kD Monomeric Variant of <i>Pseudomonas Aeruginosa</i> Dimethylarginine Dimethylaminohydrolase. <i>Journal of Biomolecular NMR</i> , 2004, 29, 463-464.	1.6	1
86	Resonance Assignments of the Complex between TraN and the C-terminal Domain of TraO from the Conjugative Plasmid pKM101. <i>Journal of Biomolecular NMR</i> , 2006, 36, 31-31.	1.6	0