

Sharon L Campbell

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117 papers	7,442 citations	48 h-index	85 g-index
122 ext. papers	8,115 ext. citations	6.5 avg, IF	5.56 L-index

#	Paper	IF	Citations
117	Increasing complexity of Ras signaling. <i>Oncogene</i> , 1998 , 17, 1395-413	9.2	903
116	A molecular redox switch on p21(ras). Structural basis for the nitric oxide-p21(ras) interaction. <i>Journal of Biological Chemistry</i> , 1997 , 272, 4323-6	5.4	379
115	Rho family proteins and Ras transformation: the RHOad less traveled gets congested. <i>Oncogene</i> , 1998 , 17, 1415-38	9.2	316
114	Copper is required for oncogenic BRAF signalling and tumorigenesis. <i>Nature</i> , 2014 , 509, 492-6	50.4	288
113	Recognition and processing of cisplatin- and oxaliplatin-DNA adducts. <i>Critical Reviews in Oncology/Hematology</i> , 2005 , 53, 3-11	7	264
112	Vav2 is an activator of Cdc42, Rac1, and RhoA. <i>Journal of Biological Chemistry</i> , 2000 , 275, 10141-9	5.4	208
111	Molecular mechanism of vinculin activation and nanoscale spatial organization in focal adhesions. <i>Nature Cell Biology</i> , 2015 , 17, 880-92	23.4	193
110	A crystallographic view of interactions between Dbs and Cdc42: PH domain-assisted guanine nucleotide exchange. <i>EMBO Journal</i> , 2002 , 21, 1315-26	13	182
109	Two distinct Raf domains mediate interaction with Ras. <i>Journal of Biological Chemistry</i> , 1995 , 270, 9809-14	12.4	181
108	Vinculin-actin interaction couples actin retrograde flow to focal adhesions, but is dispensable for focal adhesion growth. <i>Journal of Cell Biology</i> , 2013 , 202, 163-77	7.3	172
107	The solution structure of the Raf-1 cysteine-rich domain: a novel ras and phospholipid binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 8312-7	11.5	170
106	Direct activation of RhoA by reactive oxygen species requires a redox-sensitive motif. <i>PLoS ONE</i> , 2009 , 4, e8045	3.7	146
105	Increasing complexity of Ras signal transduction: involvement of Rho family proteins. <i>Advances in Cancer Research</i> , 1998 , 72, 57-107	5.9	133
104	Ras interaction with two distinct binding domains in Raf-1 may be required for Ras transformation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 233-7	5.4	126
103	Mutation-specific RAS oncogenicity explains NRAS codon 61 selection in melanoma. <i>Cancer Discovery</i> , 2014 , 4, 1418-29	24.4	121
102	Dbl family proteins. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 1997 , 1332, F1-23	11.2	112
101	14-3-3 zeta negatively regulates raf-1 activity by interactions with the Raf-1 cysteine-rich domain. <i>Journal of Biological Chemistry</i> , 1997 , 272, 20990-3	5.4	103

100	Dependence of Dbl and Dbs transformation on MEK and NF-kappaB activation. <i>Molecular and Cellular Biology</i> , 1999 , 19, 7759-70	4.8	101
99	ROCK1 and ROCK2 are required for non-small cell lung cancer anchorage-independent growth and invasion. <i>Cancer Research</i> , 2012 , 72, 5338-47	10.1	98
98	NMR characterization of full-length farnesylated and non-farnesylated H-Ras and its implications for Raf activation. <i>Journal of Molecular Biology</i> , 2004 , 343, 1391-408	6.5	93
97	Mechanism of redox-mediated guanine nucleotide exchange on redox-active Rho GTPases. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31003-10	5.4	92
96	Structural and biochemical studies of p21Ras S-nitrosylation and nitric oxide-mediated guanine nucleotide exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6376-81	11.5	85
95	Protein interactions with platinum-DNA adducts: from structure to function. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1551-9	4.2	82
94	Kinetics of creatine kinase in heart: a 31P NMR saturation- and inversion-transfer study. <i>Biochemistry</i> , 1985 , 24, 5510-6	3.2	80
93	Molecular basis for Rho GTPase signaling specificity. <i>Breast Cancer Research and Treatment</i> , 2004 , 84, 61-71	4.4	79
92	Molecular basis for Rac1 recognition by guanine nucleotide exchange factors. <i>Nature Structural Biology</i> , 2001 , 8, 1037-41		78
91	Elucidation of binding determinants and functional consequences of Ras/Raf-cysteine-rich domain interactions. <i>Journal of Biological Chemistry</i> , 2000 , 275, 22172-9	5.4	78
90	Palladin is an actin cross-linking protein that uses immunoglobulin-like domains to bind filamentous actin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 6222-31	5.4	77
89	Mechanism of p21Ras S-nitrosylation and kinetics of nitric oxide-mediated guanine nucleotide exchange. <i>Biochemistry</i> , 2004 , 43, 2314-22	3.2	76
88	Peptides containing a consensus Ras binding sequence from Raf-1 and the GTPase activating protein NF1 inhibit Ras function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 1577-81	11.5	72
87	Multiple paxillin binding sites regulate FAK function. <i>Journal of Molecular Signaling</i> , 2008 , 3, 1	1	70
86	Atypical KRAS Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020 , 10, 104-123	24.4	70
85	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 46-52	17.6	68
84	Redox regulation of Ras and Rho GTPases: mechanism and function. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 250-8	8.4	67
83	Topological determinants of protein domain swapping. <i>Structure</i> , 2006 , 14, 5-14	5.2	67

82	NMR solution structure of the focal adhesion targeting domain of focal adhesion kinase in complex with a paxillin LD peptide: evidence for a two-site binding model. <i>Journal of Biological Chemistry</i> , 2004 , 279, 8441-51	5.4	63
81	Deciphering protein dynamics from NMR data using explicit structure sampling and selection. <i>Biophysical Journal</i> , 2007 , 93, 2300-6	2.9	61
80	Structural and functional analysis of a mutant Ras protein that is insensitive to nitric oxide activation. <i>Biochemistry</i> , 1997 , 36, 3640-4	3.2	60
79	NMR solution structure of an oxaliplatin 1,2-d(GG) intrastrand cross-link in a DNA dodecamer duplex. <i>Journal of Molecular Biology</i> , 2004 , 341, 1251-69	6.5	60
78	Redox regulation of RhoA. <i>Biochemistry</i> , 2006 , 45, 14481-9	3.2	59
77	Mechanism of free radical nitric oxide-mediated Ras guanine nucleotide dissociation. <i>Journal of Molecular Biology</i> , 2005 , 346, 1423-40	6.5	58
76	New insights into FAK signaling and localization based on detection of a FAT domain folding intermediate. <i>Structure</i> , 2004 , 12, 2161-71	5.2	58
75	TC21 and Ras share indistinguishable transforming and differentiating activities. <i>Oncogene</i> , 1999 , 18, 2107-16	9.2	54
74	Solution structures of a DNA dodecamer duplex with and without a cisplatin 1,2-d(GG) intrastrand cross-link: comparison with the same DNA duplex containing an oxaliplatin 1,2-d(GG) intrastrand cross-link. <i>Biochemistry</i> , 2007 , 46, 6477-87	3.2	52
73	Differences in the regulation of K-Ras and H-Ras isoforms by monoubiquitination. <i>Journal of Biological Chemistry</i> , 2013 , 288, 36856-62	5.4	49
72	The vinculin C-terminal hairpin mediates F-actin bundle formation, focal adhesion, and cell mechanical properties. <i>Journal of Biological Chemistry</i> , 2011 , 286, 45103-15	5.4	48
71	Nitric oxide cell signaling: S-nitrosation of Ras superfamily GTPases. <i>Cardiovascular Research</i> , 2007 , 75, 229-39	9.9	48
70	High-resolution NMR studies of <i>Saccharomyces cerevisiae</i> . <i>Annual Review of Microbiology</i> , 1987 , 41, 595-616	6.1	48
69	Lipid binding to the tail domain of vinculin: specificity and the role of the N and C termini. <i>Journal of Biological Chemistry</i> , 2009 , 284, 7223-31	5.4	46
68	Ras regulation by reactive oxygen and nitrogen species. <i>Biochemistry</i> , 2006 , 45, 2200-10	3.2	46
67	Aberrant overexpression of the Rgl2 Ral small GTPase-specific guanine nucleotide exchange factor promotes pancreatic cancer growth through Ral-dependent and Ral-independent mechanisms. <i>Journal of Biological Chemistry</i> , 2010 , 285, 34729-40	5.4	45
66	Recognition and activation of Rho GTPases by Vav1 and Vav2 guanine nucleotide exchange factors. <i>Biochemistry</i> , 2005 , 44, 6573-85	3.2	45
65	Critical but distinct roles for the pleckstrin homology and cysteine-rich domains as positive modulators of Vav2 signaling and transformation. <i>Molecular and Cellular Biology</i> , 2002 , 22, 2487-97	4.8	45

64	Requirement for C-terminal sequences in regulation of Ect2 guanine nucleotide exchange specificity and transformation. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25226-33	5.4	44
63	Superoxide anion radical modulates the activity of Ras and Ras-related GTPases by a radical-based mechanism similar to that of nitric oxide. <i>Journal of Biological Chemistry</i> , 2005 , 280, 12438-45	5.4	43
62	Involvement of the switch 2 domain of Ras in its interaction with guanine nucleotide exchange factors. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11076-82	5.4	43
61	Improved 4D NMR experiments for the assignment of backbone nuclei in ¹³ C/ ¹⁵ N labelled proteins. <i>Journal of Biomolecular NMR</i> , 1992 , 2, 631-637	3	43
60	Dominant activating RAC2 mutation with lymphopenia, immunodeficiency, and cytoskeletal defects. <i>Blood</i> , 2019 , 133, 1977-1988	2.2	42
59	Rho GTPases, oxidation, and cell redox control. <i>Small GTPases</i> , 2014 , 5, e28579	2.7	41
58	Identification of an actin binding surface on vinculin that mediates mechanical cell and focal adhesion properties. <i>Structure</i> , 2014 , 22, 697-706	5.2	38
57	Identification of residues in the cysteine-rich domain of Raf-1 that control Ras binding and Raf-1 activity. <i>Journal of Biological Chemistry</i> , 1998 , 273, 21578-84	5.4	36
56	The focal adhesion targeting domain of focal adhesion kinase contains a hinge region that modulates tyrosine 926 phosphorylation. <i>Structure</i> , 2004 , 12, 881-91	5.2	35
55	The Ras/p120 GTPase-activating protein (GAP) interaction is regulated by the p120 GAP pleckstrin homology domain. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35021-7	5.4	35
54	The insert region of Rac1 is essential for membrane ruffling but not cellular transformation. <i>Molecular and Cellular Biology</i> , 2001 , 21, 2847-57	4.8	34
53	Biological and structural characterization of a Ras transforming mutation at the phenylalanine-156 residue, which is conserved in all members of the Ras superfamily. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 1272-6	11.5	34
52	The Structural Basis of Actin Organization by Vinculin and Metavinculin. <i>Journal of Molecular Biology</i> , 2016 , 428, 10-25	6.5	32
51	Refolding and purification of Ras proteins. <i>Methods in Enzymology</i> , 1995 , 255, 3-13	1.7	29
50	Redox regulation of Rac1 by thiol oxidation. <i>Free Radical Biology and Medicine</i> , 2015 , 79, 237-50	7.8	27
49	Glutathiolated Ras: characterization and implications for Ras activation. <i>Free Radical Biology and Medicine</i> , 2013 , 57, 221-9	7.8	25
48	Novel C-Raf phosphorylation sites: serine 296 and 301 participate in Raf regulation. <i>FEBS Letters</i> , 2005 , 579, 464-8	3.8	25
47	Critical role of the pleckstrin homology domain in Dbs signaling and growth regulation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21188-96	5.4	24

46	In vivo ³¹ P nuclear magnetic resonance saturation transfer measurements of phosphate exchange reactions in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1985 , 193, 189-93	3.8	24
45	Structural and biophysical insights into the role of the insert region in Rac1 function. <i>Biochemistry</i> , 2002 , 41, 3875-83	3.2	22
44	Bacterial expressed DH and DH/PH domains. <i>Methods in Enzymology</i> , 2000 , 325, 25-38	1.7	22
43	A KRAS GTPase K104Q Mutant Retains Downstream Signaling by Offsetting Defects in Regulation. <i>Journal of Biological Chemistry</i> , 2017 , 292, 4446-4456	5.4	20
42	Vinculin and metavinculin: oligomerization and interactions with F-actin. <i>FEBS Letters</i> , 2013 , 587, 1220-93.8	3.8	20
41	Vinculin regulation of F-actin bundle formation: what does it mean for the cell?. <i>Cell Adhesion and Migration</i> , 2013 , 7, 219-25	3.2	20
40	Regulation of Ras proteins by reactive nitrogen species. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 565-78	7.8	20
39	Structure and function of palladin β actin binding domain. <i>Journal of Molecular Biology</i> , 2013 , 425, 3325-375	37.5	18
38	Role of MLK3-mediated activation of p70 S6 kinase in Rac1 transformation. <i>Journal of Biological Chemistry</i> , 2002 , 277, 4770-7	5.4	18
37	Phosphorylation at Y1065 in vinculin mediates actin bundling, cell spreading, and mechanical responses to force. <i>Biochemistry</i> , 2014 , 53, 5526-36	3.2	17
36	Structural characterization of the interactions between palladin and β -actinin. <i>Journal of Molecular Biology</i> , 2011 , 413, 712-25	6.5	17
35	A Structural Model for Vinculin Insertion into PIP-Containing Membranes and the Effect of Insertion on Vinculin Activation and Localization. <i>Structure</i> , 2017 , 25, 264-275	5.2	15
34	Flanking bases influence the nature of DNA distortion by platinum 1,2-intrastrand (GG) cross-links. <i>PLoS ONE</i> , 2011 , 6, e23582	3.7	15
33	Regulation of large and small G proteins by ubiquitination. <i>Journal of Biological Chemistry</i> , 2019 , 294, 18613-18623	5.4	14
32	Amino acid metabolites that regulate G protein signaling during osmotic stress. <i>PLoS Genetics</i> , 2017 , 13, e1006829	6	13
31	Rac1 modification by an electrophilic 15-deoxy $\Delta^{12,14}$ -prostaglandin J2 analog. <i>Redox Biology</i> , 2015 , 4, 346-54	11.3	12
30	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Small GTPases</i> , 2013 , 4, 186-92	2.7	11
29	A universal allosteric mechanism for G protein activation. <i>Molecular Cell</i> , 2021 , 81, 1384-1396.e6	17.6	11

28	Vinculin tail conformation and self-association is independent of pH and H906 protonation. <i>Biochemistry</i> , 2008 , 47, 12467-75	3.2	10
27	Detection of Ras GTPase protein radicals through immuno-spin trapping. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1339-45	7.8	9
26	pH-dependent perturbation of Ras-guanine nucleotide interactions and Ras guanine nucleotide exchange. <i>Biochemistry</i> , 2004 , 43, 10102-11	3.2	9
25	Backbone 1H, 13C, and 15N resonance assignments for the 21 kDa GTPase Rac1 complexed to GDP and Mg2+. <i>Journal of Biomolecular NMR</i> , 2003 , 27, 87-8	3	8
24	KRAS Ubiquitination at Lysine 104 Retains Exchange Factor Regulation by Dynamically Modulating the Conformation of the Interface. <i>IScience</i> , 2020 , 23, 101448	6.1	8
23	Rationally designed carbohydrate-occluded epitopes elicit HIV-1 Env-specific antibodies. <i>Nature Communications</i> , 2019 , 10, 948	17.4	8
22	RAS ubiquitylation modulates effector interactions. <i>Small GTPases</i> , 2020 , 11, 180-185	2.7	7
21	In vitro phosphorylation of the focal adhesion targeting domain of focal adhesion kinase by Src kinase. <i>Biochemistry</i> , 2012 , 51, 2213-23	3.2	7
20	Vinculin and metavinculin exhibit distinct effects on focal adhesion properties, cell migration, and mechanotransduction. <i>PLoS ONE</i> , 2019 , 14, e0221962	3.7	6
19	The molecular basis for immune dysregulation by the hyperactivated E62K mutant of the GTPase RAC2. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12130-12142	5.4	6
18	Backbone 1H, 13C, and 15N NMR assignments of the tail domain of vinculin. <i>Biomolecular NMR Assignments</i> , 2008 , 2, 69-71	0.7	5
17	Getting a Handle on RAS-targeted Therapies: Cysteine Directed Inhibitors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016 , 16, 383-90	3.2	5
16	Post-translational modification of RAS proteins. <i>Current Opinion in Structural Biology</i> , 2021 , 71, 180-192	8.1	5
15	Biomolecular applications of heteronuclear multidimensional NMR. <i>Current Opinion in Biotechnology</i> , 1994 , 5, 346-54	11.4	4
14	Biophysical and proteomic characterization strategies for cysteine modifications in Ras GTPases. <i>Methods in Molecular Biology</i> , 2014 , 1120, 75-96	1.4	4
13	Subcellular localization of Rap1 GTPase activator CalDAG-GEFI is orchestrated by interaction of its atypical C1 domain with membrane phosphoinositides. <i>Journal of Thrombosis and Haemostasis</i> , 2020 , 18, 693-705	15.4	4
12	Cardiomyopathy Mutations in Metavinculin Disrupt Regulation of Vinculin-Induced F-Actin Assemblies. <i>Journal of Molecular Biology</i> , 2019 , 431, 1604-1618	6.5	3
11	Identification of lysine methylation in the core GTPase domain by GoMADScan. <i>PLoS ONE</i> , 2019 , 14, e0219436	3.7	3

10	1H, 15N, and 13C NMR chemical shift assignments for the Ig3 domain of palladin. <i>Biomolecular NMR Assignments</i> , 2008 , 2, 51-3	0.7	3
9	Protein-protein interaction analysis by nuclear magnetic resonance spectroscopy. <i>Methods in Molecular Biology</i> , 2015 , 1278, 267-79	1.4	3
8	Distinct Binding Modes of Vinculin Isoforms Underlie Their Functional Differences. <i>Structure</i> , 2019 , 27, 1527-1536.e3	5.2	2
7	Biophysical and Structural Characterization of Novel RAS-Binding Domains (RBDs) of PI3K α and PI3K β <i>Journal of Molecular Biology</i> , 2021 , 433, 166838	6.5	2
6	Exciton interactions in phycoerythrin. <i>Photosynthesis Research</i> , 1986 , 10, 209-15	3.7	1
5	Differences in Conformation and Conformational Dynamics Between Cisplatin and Oxaliplatin DNA Adducts 2009 , 157-169		1
4	Monoubiquitination of KRAS at Lysine104 and Lysine147 Modulates Its Dynamics and Interaction with Partner Proteins. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4681-4691	3.4	1
3	Divergent Mechanisms Activating RAS and Small GTPases Through Post-translational Modification. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 707439	5.6	1
2	New insights into the Ras onco-protein and its interactions with the Raf-1-1 kinase. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1996 , 54, 878-879		
1	Ras Activity Regulation by Monoubiquitination. <i>FASEB Journal</i> , 2013 , 27, 1046.3	0.9	