

Sharon L Campbell

List of Publications by Year in descending order

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119
papers

8,842
citations

38742

50
h-index

43889

91
g-index

122
all docs

122
docs citations

122
times ranked

9872
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced BRAF engagement by NRAS mutants capable of promoting melanoma initiation. <i>Nature Communications</i> , 2022, 13, .	12.8	11
2	Oncogenic KRAS G12C: Kinetic and redox characterization of covalent inhibition. <i>Journal of Biological Chemistry</i> , 2022, 298, 102186.	3.4	5
3	Biophysical and Structural Characterization of Novel RAS-Binding Domains (RBDs) of PI3K ^{K18} and PI3K ^{K19} . <i>Journal of Molecular Biology</i> , 2021, 433, 166838.	4.2	3
4	A universal allosteric mechanism for G protein activation. <i>Molecular Cell</i> , 2021, 81, 1384-1396.e6.	9.7	33
5	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.	2.6	3
6	Divergent Mechanisms Activating RAS and Small GTPases Through Post-translational Modification. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 707439.	3.5	13
7	Post-translational modification of RAS proteins. <i>Current Opinion in Structural Biology</i> , 2021, 71, 180-192.	5.7	29
8	RAS ubiquitylation modulates effector interactions. <i>Small GTPases</i> , 2020, 11, 1-6.	1.6	8
9	Atypical KRASG12R Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020, 10, 104-123.	9.4	131
10	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.	3.8	6
11	KRAS Ubiquitination at Lysine 104 Retains Exchange Factor Regulation by Dynamically Modulating the Conformation of the Interface. <i>IScience</i> , 2020, 23, 101448.	4.1	14
12	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.	3.4	9
13	Identification of lysine methylation in the core GTPase domain by GoMADScan. <i>PLoS ONE</i> , 2019, 14, e0219436.	2.5	6
14	Distinct Binding Modes of Vinculin Isoforms Underlie Their Functional Differences. <i>Structure</i> , 2019, 27, 1527-1536.e3.	3.3	4
15	Vinculin and metavinculin exhibit distinct effects on focal adhesion properties, cell migration, and mechanotransduction. <i>PLoS ONE</i> , 2019, 14, e0221962.	2.5	19
16	Cardiomyopathy Mutations in Metavinculin Disrupt Regulation of Vinculin-Induced F-Actin Assemblies. <i>Journal of Molecular Biology</i> , 2019, 431, 1604-1618.	4.2	11
17	Dominant activating RAC2 mutation with lymphopenia, immunodeficiency, and cytoskeletal defects. <i>Blood</i> , 2019, 133, 1977-1988.	1.4	61
18	Rationally designed carbohydrate-occluded epitopes elicit HIV-1 Env-specific antibodies. <i>Nature Communications</i> , 2019, 10, 948.	12.8	19

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19	Regulation of large and small G proteins by ubiquitination. <i>Journal of Biological Chemistry</i> , 2019, 294, 18613-18623.	3.4	28
20	A Structural Model for Vinculin Insertion into PIP2-Containing Membranes and the Effect of Insertion on Vinculin Activation and Localization. <i>Structure</i> , 2017, 25, 264-275.	3.3	23
21	A KRAS GTPase K104Q Mutant Retains Downstream Signaling by Offsetting Defects in Regulation. <i>Journal of Biological Chemistry</i> , 2017, 292, 4446-4456.	3.4	36
22	Amino acid metabolites that regulate G protein signaling during osmotic stress. <i>PLoS Genetics</i> , 2017, 13, e1006829.	3.5	16
23	The Structural Basis of Actin Organization by Vinculin and Metavinculin. <i>Journal of Molecular Biology</i> , 2016, 428, 10-25.	4.2	49
24	Getting a Handle on RAS-targeted Therapies: Cysteine Directed Inhibitors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, 16, 383-390.	2.4	5
25	Molecular mechanism of vinculin activation and nanoscale spatial organization in focal adhesions. <i>Nature Cell Biology</i> , 2015, 17, 880-892.	10.3	247
26	Rac1 modification by an electrophilic 15-deoxy $\Delta^{12,14}$ -prostaglandin J2 analog. <i>Redox Biology</i> , 2015, 4, 346-354.	9.0	12
27	Redox regulation of Rac1 by thiol oxidation. <i>Free Radical Biology and Medicine</i> , 2015, 79, 237-250.	2.9	34
28	Protein-Protein Interaction Analysis by Nuclear Magnetic Resonance Spectroscopy. <i>Methods in Molecular Biology</i> , 2015, 1278, 267-279.	0.9	12
29	Rho GTPases, oxidation, and cell redox control. <i>Small GTPases</i> , 2014, 5, e28579.	1.6	57
30	Mutation-Specific RAS Oncogenicity Explains NRAS Codon 61 Selection in Melanoma. <i>Cancer Discovery</i> , 2014, 4, 1418-1429.	9.4	174
31	Identification of an Actin Binding Surface on Vinculin that Mediates Mechanical Cell and Focal Adhesion Properties. <i>Structure</i> , 2014, 22, 697-706.	3.3	49
32	Copper is required for oncogenic BRAF signalling and tumorigenesis. <i>Nature</i> , 2014, 509, 492-496.	27.8	425
33	Phosphorylation at Y1065 in Vinculin Mediates Actin Bundling, Cell Spreading, and Mechanical Responses to Force. <i>Biochemistry</i> , 2014, 53, 5526-5536.	2.5	19
34	Biophysical and Proteomic Characterization Strategies for Cysteine Modifications in Ras GTPases. <i>Methods in Molecular Biology</i> , 2014, 1120, 75-96.	0.9	7
35	Redox Regulation of Ras and Rho GTPases: Mechanism and Function. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 250-258.	5.4	77
36	Vinculin and metavinculin: Oligomerization and interactions with F-actin. <i>FEBS Letters</i> , 2013, 587, 1220-1229.	2.8	31

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37	Differences in the Regulation of K-Ras and H-Ras Isoforms by Monoubiquitination. <i>Journal of Biological Chemistry</i> , 2013, 288, 36856-36862.	3.4	65
38	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 46-52.	8.2	80
39	Structure and Function of Palladin's Actin Binding Domain. <i>Journal of Molecular Biology</i> , 2013, 425, 3325-3337.	4.2	22
40	Glutathiolated Ras: Characterization and implications for Ras activation. <i>Free Radical Biology and Medicine</i> , 2013, 57, 221-229.	2.9	28
41	Vinculin's actin interaction couples actin retrograde flow to focal adhesions, but is dispensable for focal adhesion growth. <i>Journal of Cell Biology</i> , 2013, 202, 163-177.	5.2	230
42	Vinculin regulation of F-actin bundle formation. <i>Cell Adhesion and Migration</i> , 2013, 7, 219-225.	2.7	28
43	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Small GTPases</i> , 2013, 4, 186-192.	1.6	14
44	Ras Activity Regulation by Monoubiquitination. <i>FASEB Journal</i> , 2013, 27, 1046.3.	0.5	0
45	ROCK1 and ROCK2 Are Required for Non-Small Cell Lung Cancer Anchorage-Independent Growth and Invasion. <i>Cancer Research</i> , 2012, 72, 5338-5347.	0.9	108
46	Detection of Ras GTPase protein radicals through immuno-spin trapping. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1339-1345.	2.9	10
47	In Vitro Phosphorylation of the Focal Adhesion Targeting Domain of Focal Adhesion Kinase by Src Kinase. <i>Biochemistry</i> , 2012, 51, 2213-2223.	2.5	7
48	Structural Characterization of the Interactions between Palladin and F-Actinin. <i>Journal of Molecular Biology</i> , 2011, 413, 712-725.	4.2	18
49	Flanking Bases Influence the Nature of DNA Distortion by Platinum 1,2-Intrastrand (GG) Cross-Links. <i>PLoS ONE</i> , 2011, 6, e23582.	2.5	19
50	Regulation of Ras proteins by reactive nitrogen species. <i>Free Radical Biology and Medicine</i> , 2011, 51, 565-575.	2.9	23
51	The Vinculin C-terminal Hairpin Mediates F-actin Bundle Formation, Focal Adhesion, and Cell Mechanical Properties. <i>Journal of Biological Chemistry</i> , 2011, 286, 45103-45115.	3.4	55
52	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, 34729-34740.	3.4	49
53	Direct Activation of RhoA by Reactive Oxygen Species Requires a Redox-Sensitive Motif. <i>PLoS ONE</i> , 2009, 4, e8045.	2.5	176
54	Lipid Binding to the Tail Domain of Vinculin. <i>Journal of Biological Chemistry</i> , 2009, 284, 7223-7231.	3.4	51

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55	Differences in Conformation and Conformational Dynamics Between Cisplatin and Oxaliplatin DNA Adducts. , 2009, , 157-169.		1
56	¹ H, ¹⁵ N, and ¹³ C NMR chemical shift assignments for the Ig3 domain of palladin. Biomolecular NMR Assignments, 2008, 2, 51-53.	0.8	3
57	Backbone ¹ H, ¹³ C, and ¹⁵ N NMR assignments of the tail domain of vinculin. Biomolecular NMR Assignments, 2008, 2, 69-71.	0.8	5
58	Multiple paxillin binding sites regulate FAK function. Journal of Molecular Signaling, 2008, 3, 1.	0.5	79
59	Vinculin Tail Conformation and Self-Association Is Independent of pH and H906 Protonation. Biochemistry, 2008, 47, 12467-12475.	2.5	11
60	Palladin Is an Actin Cross-linking Protein That Uses Immunoglobulin-like Domains to Bind Filamentous Actin. Journal of Biological Chemistry, 2008, 283, 6222-6231.	3.4	87
61	Nitric oxide cell signaling: S-nitrosation of Ras superfamily GTPases. Cardiovascular Research, 2007, 75, 229-239.	3.8	57
62	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,. Biochemistry, 2007, 46, 6477-6487.	2.5	57
63	Deciphering Protein Dynamics from NMR Data Using Explicit Structure Sampling and Selection. Biophysical Journal, 2007, 93, 2300-2306.	0.5	72
64	Redox Regulation of RhoA. Biochemistry, 2006, 45, 14481-14489.	2.5	74
65	Ras Regulation by Reactive Oxygen and Nitrogen Species. Biochemistry, 2006, 45, 2200-2210.	2.5	51
66	Topological Determinants of Protein Domain Swapping. Structure, 2006, 14, 5-14.	3.3	73
67	Recognition and processing of cisplatin- and oxaliplatin-DNA adducts. Critical Reviews in Oncology/Hematology, 2005, 53, 3-11.	4.4	306
68	Mechanism of Redox-mediated Guanine Nucleotide Exchange on Redox-active Rho GTPases. Journal of Biological Chemistry, 2005, 280, 31003-31010.	3.4	109
69	Recognition and Activation of Rho GTPases by Vav1 and Vav2 Guanine Nucleotide Exchange Factors. Biochemistry, 2005, 44, 6573-6585.	2.5	46
70	Mechanism of Free Radical Nitric Oxide-mediated Ras Guanine Nucleotide Dissociation. Journal of Molecular Biology, 2005, 346, 1423-1440.	4.2	66
71	Novel C-Raf phosphorylation sites: serine 296 and 301 participate in Raf regulation. FEBS Letters, 2005, 579, 464-468.	2.8	29
72	Superoxide Anion Radical Modulates the Activity of Ras and Ras-related GTPases by a Radical-based Mechanism Similar to That of Nitric Oxide. Journal of Biological Chemistry, 2005, 280, 12438-12445.	3.4	51

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73	Requirement For C-terminal Sequences in Regulation of Ect2 Guanine Nucleotide Exchange Specificity and Transformation. <i>Journal of Biological Chemistry</i> , 2004, 279, 25226-25233.	3.4	49
74	NMR Solution Structure of the Focal Adhesion Targeting Domain of Focal Adhesion Kinase in Complex with a Paxillin LD Peptide. <i>Journal of Biological Chemistry</i> , 2004, 279, 8441-8451.	3.4	69
75	The Focal Adhesion Targeting Domain of Focal Adhesion Kinase Contains a Hinge Region that Modulates Tyrosine 926 Phosphorylation. <i>Structure</i> , 2004, 12, 881-891.	3.3	37
76	New Insights into FAK Signaling and Localization Based on Detection of a FAT Domain Folding Intermediate. <i>Structure</i> , 2004, 12, 2161-2171.	3.3	62
77	Molecular Basis for Rho GTPase Signaling Specificity. <i>Breast Cancer Research and Treatment</i> , 2004, 84, 61-71.	2.5	90
78	Protein interactions with platinum-DNA adducts: from structure to function. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1551-1559.	3.5	90
79	pH-Dependent Perturbation of Ras-Guanine Nucleotide Interactions and Ras Guanine Nucleotide Exchange. <i>Biochemistry</i> , 2004, 43, 10102-10111.	2.5	9
80	Mechanism of p21Ras S-Nitrosylation and Kinetics of Nitric Oxide-Mediated Guanine Nucleotide Exchange. <i>Biochemistry</i> , 2004, 43, 2314-2322.	2.5	83
81	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, 1251-1269.	4.2	65
82	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, 1391-1408.	4.2	107
83	Backbone ¹ H, ¹³ C, and ¹⁵ N resonance assignments for the 21 kDa GTPase Rac1 complexed to GDP and Mg ²⁺ . <i>Journal of Biomolecular NMR</i> , 2003, 27, 87-88.	2.8	8
84	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, 6376-6381.	7.1	95
85	Critical Role of the Pleckstrin Homology Domain in Dbs Signaling and Growth Regulation. <i>Journal of Biological Chemistry</i> , 2003, 278, 21188-21196.	3.4	27
86	Role of MLK3-mediated Activation of p70 S6 Kinase in Rac1 Transformation. <i>Journal of Biological Chemistry</i> , 2002, 277, 4770-4777.	3.4	18
87	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, 2487-2497.	2.3	47
88	Structural and Biophysical Insights into the Role of the Insert Region in Rac1 Function. <i>Biochemistry</i> , 2002, 41, 3875-3883.	2.5	24
89	A crystallographic view of interactions between Dbs and Cdc42: PH domain-assisted guanine nucleotide exchange. <i>EMBO Journal</i> , 2002, 21, 1315-1326.	7.8	198
90	Molecular basis for Rac1 recognition by guanine nucleotide exchange factors. <i>Nature Structural Biology</i> , 2001, 8, 1037-1041.	9.7	84

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91	The Insert Region of Rac1 Is Essential for Membrane Ruffling but Not Cellular Transformation. <i>Molecular and Cellular Biology</i> , 2001, 21, 2847-2857.	2.3	38
92	Bacterial expressed DH and DH/PH domains. <i>Methods in Enzymology</i> , 2000, 325, 25-38.	1.0	26
93	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, 35021-35027.	3.4	41
94	Elucidation of Binding Determinants and Functional Consequences of Ras/Raf-Cysteine-rich Domain Interactions. <i>Journal of Biological Chemistry</i> , 2000, 275, 22172-22179.	3.4	93
95	Vav2 Is an Activator of Cdc42, Rac1, and RhoA. <i>Journal of Biological Chemistry</i> , 2000, 275, 10141-10149.	3.4	226
96	TC21 and Ras share indistinguishable transforming and differentiating activities. <i>Oncogene</i> , 1999, 18, 2107-2116.	5.9	60
97	Dependence of Dbl and Dbs Transformation on MEK and NF- κ B Activation. <i>Molecular and Cellular Biology</i> , 1999, 19, 7759-7770.	2.3	108
98	Increasing complexity of Ras signaling. <i>Oncogene</i> , 1998, 17, 1395-1413.	5.9	977
99	Rho family proteins and Ras transformation: the RHOad less traveled gets congested. <i>Oncogene</i> , 1998, 17, 1415-1438.	5.9	337
100	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, 21578-21584.	3.4	44
101	A Molecular Redox Switch on p21. <i>Journal of Biological Chemistry</i> , 1997, 272, 4323-4326.	3.4	433
102	14-3-3 η Negatively Regulates Raf-1 Activity by Interactions with the Raf-1 Cysteine-rich Domain. <i>Journal of Biological Chemistry</i> , 1997, 272, 20990-20993.	3.4	111
103	Increasing Complexity of Ras Signal Transduction: Involvement of Rho Family Proteins. <i>Advances in Cancer Research</i> , 1997, 72, 57-107.	5.0	150
104	Structural and Functional Analysis of a Mutant Ras Protein That Is Insensitive to Nitric Oxide Activation. <i>Biochemistry</i> , 1997, 36, 3640-3644.	2.5	70
105	Dbl family proteins. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 1997, 1332, F1-F23.	7.4	140
106	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, 8312-8317.	7.1	201
107	Peptides containing a consensus Ras binding sequence from Raf-1 and theGTPase activating protein NF1 inhibit Ras function.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 1577-1581.	7.1	74
108	Involvement of the Switch 2 Domain of Ras in Its Interaction with Guanine Nucleotide Exchange Factors. <i>Journal of Biological Chemistry</i> , 1996, 271, 11076-11082.	3.4	50

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109	Ras Interaction with Two Distinct Binding Domains in Raf-1 5 Be Required for Ras Transformation. Journal of Biological Chemistry, 1996, 271, 233-237.	3.4	136
110	New insights into the Ras onco-protein and its interactions with the Raf-1-1 kinase. Proceedings Annual Meeting Electron Microscopy Society of America, 1996, 54, 878-879.	0.0	0
111	[1] Refolding and purification of ras proteins. Methods in Enzymology, 1995, 255, 3-13.	1.0	32
112	Biological and structural characterization of a Ras transforming mutation at the phenylalanine-156 residue, which is conserved in all members of the Ras superfamily.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 1272-1276.	7.1	38
113	Two Distinct Raf Domains Mediate Interaction with Ras. Journal of Biological Chemistry, 1995, 270, 9809-9812.	3.4	214
114	Biomolecular applications of heteronuclear multidimensional NMR. Current Opinion in Biotechnology, 1994, 5, 346-354.	6.6	7
115	Improved 4D NMR experiments for the assignment of backbone nuclei in ¹³ C/ ¹⁵ N labelled proteins. Journal of Biomolecular NMR, 1992, 2, 631-637.	2.8	52
116	High-Resolution NMR Studies of Saccharomyces Cerevisiae. Annual Review of Microbiology, 1987, 41, 595-616.	7.3	54
117	Exciton interactions in phycoerythrin. Photosynthesis Research, 1986, 10, 209-215.	2.9	1
118	Kinetics of creatine kinase in heart: a phosphorus-31 NMR saturation- and inversion-transfer study. Biochemistry, 1985, 24, 5510-5516.	2.5	92
119	In vivo ³¹ P nuclear magnetic resonance saturation transfer measurements of phosphate exchange reactions in the yeast Saccharomyces cerevisiae. FEBS Letters, 1985, 193, 189-193.	2.8	27