

Sharon L Campbell

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7329626/sharon-l-campbell-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Biophysical and Structural Characterization of Novel RAS-Binding Domains (RBDs) of PI3K and PI3K. <i>Journal of Molecular Biology</i> , 2021 , 433, 166838	6.5	2
116	A universal allosteric mechanism for G protein activation. <i>Molecular Cell</i> , 2021 , 81, 1384-1396.e6	17.6	11
115	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
114	Divergent Mechanisms Activating RAS and Small GTPases Through Post-translational Modification. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 707439	5.6	1
113	Post-translational modification of RAS proteins. <i>Current Opinion in Structural Biology</i> , 2021 , 71, 180-192	8.1	5
112	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
111	RAS ubiquitylation modulates effector interactions. <i>Small GTPases</i> , 2020 , 11, 180-185	2.7	7
110	Atypical KRAS Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020 , 10, 104-123	24.4	70
109	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
108	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
107	Vinculin and metavinculin exhibit distinct effects on focal adhesion properties, cell migration, and mechanotransduction. <i>PLoS ONE</i> , 2019 , 14, e0221962	3.7	6
106	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
105	Dominant activating RAC2 mutation with lymphopenia, immunodeficiency, and cytoskeletal defects. <i>Blood</i> , 2019 , 133, 1977-1988	2.2	42
104	Identification of lysine methylation in the core GTPase domain by GoMADScan. <i>PLoS ONE</i> , 2019 , 14, e0219436	2.7	3
103	Distinct Binding Modes of Vinculin Isoforms Underlie Their Functional Differences. <i>Structure</i> , 2019 , 27, 1527-1536.e3	5.2	2
102	Rationally designed carbohydrate-occluded epitopes elicit HIV-1 Env-specific antibodies. <i>Nature Communications</i> , 2019 , 10, 948	17.4	8
101	Regulation of large and small G proteins by ubiquitination. <i>Journal of Biological Chemistry</i> , 2019 , 294, 18613-18623	5.4	14

100	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
99	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
98	Amino acid metabolites that regulate G protein signaling during osmotic stress. <i>PLoS Genetics</i> , 2017 , 13, e1006829	6	13
97	The Structural Basis of Actin Organization by Vinculin and Metavinculin. <i>Journal of Molecular Biology</i> , 2016 , 428, 10-25	6.5	32
96	Getting a Handle on RAS-targeted Therapies: Cysteine Directed Inhibitors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016 , 16, 383-90	3.2	5
95	Redox regulation of Rac1 by thiol oxidation. <i>Free Radical Biology and Medicine</i> , 2015 , 79, 237-50	7.8	27
94	Molecular mechanism of vinculin activation and nanoscale spatial organization in focal adhesions. <i>Nature Cell Biology</i> , 2015 , 17, 880-92	23.4	193
93	Rac1 modification by an electrophilic 15-deoxy $\Delta^{12,14}$ -prostaglandin J2 analog. <i>Redox Biology</i> , 2015 , 4, 346-54	11.3	12
92	Protein-protein interaction analysis by nuclear magnetic resonance spectroscopy. <i>Methods in Molecular Biology</i> , 2015 , 1278, 267-79	1.4	3
91	Copper is required for oncogenic BRAF signalling and tumorigenesis. <i>Nature</i> , 2014 , 509, 492-6	50.4	288
90	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
89	Rho GTPases, oxidation, and cell redox control. <i>Small GTPases</i> , 2014 , 5, e28579	2.7	41
88	Mutation-specific RAS oncogenicity explains NRAS codon 61 selection in melanoma. <i>Cancer Discovery</i> , 2014 , 4, 1418-29	24.4	121
87	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
86	Biophysical and proteomic characterization strategies for cysteine modifications in Ras GTPases. <i>Methods in Molecular Biology</i> , 2014 , 1120, 75-96	1.4	4
85	Redox regulation of Ras and Rho GTPases: mechanism and function. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 250-8	8.4	67
84	Vinculin and metavinculin: oligomerization and interactions with F-actin. <i>FEBS Letters</i> , 2013 , 587, 1220-9	3.8	20
83	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

82	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
81	Structure and function of palladin β actin binding domain. <i>Journal of Molecular Biology</i> , 2013 , 425, 3325-3375	37.5	18
80	Glutathiolated Ras: characterization and implications for Ras activation. <i>Free Radical Biology and Medicine</i> , 2013 , 57, 221-9	7.8	25
79	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
78	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
77	Site-specific monoubiquitination activates Ras by impeding GTPase-activating protein function. <i>Small GTPases</i> , 2013 , 4, 186-92	2.7	11
76	Ras Activity Regulation by Monoubiquitination. <i>FASEB Journal</i> , 2013 , 27, 1046.3	0.9	
75	Detection of Ras GTPase protein radicals through immuno-spin trapping. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1339-45	7.8	9
74	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
73	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
72	Structural characterization of the interactions between palladin and β -actinin. <i>Journal of Molecular Biology</i> , 2011 , 413, 712-25	6.5	17
71	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
70	Regulation of Ras proteins by reactive nitrogen species. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 565-78	7.8	20
69	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
68	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
67	Direct activation of RhoA by reactive oxygen species requires a redox-sensitive motif. <i>PLoS ONE</i> , 2009 , 4, e8045	3.7	146
66	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
65	Differences in Conformation and Conformational Dynamics Between Cisplatin and Oxaliplatin DNA Adducts 2009 , 157-169		1

64	Vinculin tail conformation and self-association is independent of pH and H906 protonation. <i>Biochemistry</i> , 2008 , 47, 12467-75	3.2	10
63	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
62	¹ H, ¹⁵ N, and ¹³ C NMR chemical shift assignments for the Ig3 domain of palladin. <i>Biomolecular NMR Assignments</i> , 2008 , 2, 51-3	0.7	3
61	Backbone ¹ H, ¹³ C, and ¹⁵ N NMR assignments of the tail domain of vinculin. <i>Biomolecular NMR Assignments</i> , 2008 , 2, 69-71	0.7	5
60	Multiple paxillin binding sites regulate FAK function. <i>Journal of Molecular Signaling</i> , 2008 , 3, 1	1	70
59	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
58	Deciphering protein dynamics from NMR data using explicit structure sampling and selection. <i>Biophysical Journal</i> , 2007 , 93, 2300-6	2.9	61
57	Nitric oxide cell signaling: S-nitrosation of Ras superfamily GTPases. <i>Cardiovascular Research</i> , 2007 , 75, 229-39	9.9	48
56	Topological determinants of protein domain swapping. <i>Structure</i> , 2006 , 14, 5-14	5.2	67
55	Redox regulation of RhoA. <i>Biochemistry</i> , 2006 , 45, 14481-9	3.2	59
54	Ras regulation by reactive oxygen and nitrogen species. <i>Biochemistry</i> , 2006 , 45, 2200-10	3.2	46
53	Recognition and activation of Rho GTPases by Vav1 and Vav2 guanine nucleotide exchange factors. <i>Biochemistry</i> , 2005 , 44, 6573-85	3.2	45
52	Mechanism of free radical nitric oxide-mediated Ras guanine nucleotide dissociation. <i>Journal of Molecular Biology</i> , 2005 , 346, 1423-40	6.5	58
51	Novel C-Raf phosphorylation sites: serine 296 and 301 participate in Raf regulation. <i>FEBS Letters</i> , 2005 , 579, 464-8	3.8	25
50	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
49	Recognition and processing of cisplatin- and oxaliplatin-DNA adducts. <i>Critical Reviews in Oncology/Hematology</i> , 2005 , 53, 3-11	7	264
48	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
47	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

46	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
45	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
44	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
43	Molecular basis for Rho GTPase signaling specificity. <i>Breast Cancer Research and Treatment</i> , 2004 , 84, 61-71	4.4	79
42	Protein interactions with platinum-DNA adducts: from structure to function. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1551-9	4.2	82
41	pH-dependent perturbation of Ras-guanine nucleotide interactions and Ras guanine nucleotide exchange. <i>Biochemistry</i> , 2004 , 43, 10102-11	3.2	9
40	Mechanism of p21Ras S-nitrosylation and kinetics of nitric oxide-mediated guanine nucleotide exchange. <i>Biochemistry</i> , 2004 , 43, 2314-22	3.2	76
39	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
38	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
37	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
36	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
35	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, 87-8	3	8
34	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
33	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
32	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
31	Structural and biophysical insights into the role of the insert region in Rac1 function. <i>Biochemistry</i> , 2002 , 41, 3875-83	3.2	22
30	Molecular basis for Rac1 recognition by guanine nucleotide exchange factors. <i>Nature Structural Biology</i> , 2001 , 8, 1037-41		78
29	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

28	Bacterial expressed DH and DH/PH domains. <i>Methods in Enzymology</i> , 2000 , 325, 25-38	1.7	22
27	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
26	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
25	Vav2 is an activator of Cdc42, Rac1, and RhoA. <i>Journal of Biological Chemistry</i> , 2000 , 275, 10141-9	5.4	208
24	TC21 and Ras share indistinguishable transforming and differentiating activities. <i>Oncogene</i> , 1999 , 18, 2107-16	9.2	54
23	Dependence of Db1 and Db3 transformation on MEK and NF-kappaB activation. <i>Molecular and Cellular Biology</i> , 1999 , 19, 7759-70	4.8	101
22	Increasing complexity of Ras signal transduction: involvement of Rho family proteins. <i>Advances in Cancer Research</i> , 1998 , 72, 57-107	5.9	133
21	Increasing complexity of Ras signaling. <i>Oncogene</i> , 1998 , 17, 1395-413	9.2	903
20	Rho family proteins and Ras transformation: the RHOad less traveled gets congested. <i>Oncogene</i> , 1998 , 17, 1415-38	9.2	316
19	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
18	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
17	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
16	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
15	Db1 family proteins. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 1997 , 1332, F1-23	11.2	112
14	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
13	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
12	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
11	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

10	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		
9	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
8	Two distinct Raf domains mediate interaction with Ras. <i>Journal of Biological Chemistry</i> , 1995 , 270, 9809-12	12.4	181
7	Refolding and purification of Ras proteins. <i>Methods in Enzymology</i> , 1995 , 255, 3-13	1.7	29
6	Biomolecular applications of heteronuclear multidimensional NMR. <i>Current Opinion in Biotechnology</i> , 1994 , 5, 346-54	11.4	4
5	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
4	High-resolution NMR studies of <i>Saccharomyces cerevisiae</i> . <i>Annual Review of Microbiology</i> , 1987 , 41, 595-616	61.6	48
3	Exciton interactions in phycoerythrin. <i>Photosynthesis Research</i> , 1986 , 10, 209-15	3.7	1
2	Kinetics of creatine kinase in heart: a ³¹ P NMR saturation- and inversion-transfer study. <i>Biochemistry</i> , 1985 , 24, 5510-6	3.2	80
1	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