John E Sondek

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103
papers

9,547
citations

48
h-index

97
g-index

109
ext. papers

10,358
ext. citations

9.7
avg, IF

L-index

#	Paper	IF	Citations
103	GEF means go: turning on RHO GTPases with guanine nucleotide-exchange factors. <i>Nature Reviews Molecular Cell Biology</i> , 2005 , 6, 167-80	48.7	1316
102	The 2.0 A crystal structure of a heterotrimeric G protein. <i>Nature</i> , 1996 , 379, 311-9	50.4	1054
101	Crystal structure of a G-protein beta gamma dimer at 2.1A resolution. <i>Nature</i> , 1996 , 379, 369-74	50.4	714
100	GTPase mechanism of Gproteins from the 1.7-A crystal structure of transducin alpha-GDP-AIF-4. <i>Nature</i> , 1994 , 372, 276-9	50.4	560
99	Crystal structure of Rac1 in complex with the guanine nucleotide exchange region of Tiam1. <i>Nature</i> , 2000 , 408, 682-8	50.4	310
98	Tiam1 mediates Ras activation of Rac by a PI(3)K-independent mechanism. <i>Nature Cell Biology</i> , 2002 , 4, 621-5	23.4	258
97	Structural determinants for GoLoco-induced inhibition of nucleotide release by Galpha subunits. <i>Nature</i> , 2002 , 416, 878-81	50.4	218
96	The Pseudomonas syringae effector AvrRpt2 cleaves its C-terminally acylated target, RIN4, from Arabidopsis membranes to block RPM1 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 6496-501	11.5	197
95	The experimental power of FR900359 to study Gq-regulated biological processes. <i>Nature Communications</i> , 2015 , 6, 10156	17.4	190
94	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
93	Structural basis for the selective activation of Rho GTPases by Dbl exchange factors. <i>Nature Structural Biology</i> , 2002 , 9, 468-75		172
92	Phagocytosis of apoptotic cells is regulated by a UNC-73/TRIO-MIG-2/RhoG signaling module and armadillo repeats of CED-12/ELMO. <i>Current Biology</i> , 2004 , 14, 2208-16	6.3	168
91	Kinetic scaffolding mediated by a phospholipase C-beta and Gq signaling complex. <i>Science</i> , 2010 , 330, 974-80	33.3	158
90	Rac1b, a tumor associated, constitutively active Rac1 splice variant, promotes cellular transformation. <i>Oncogene</i> , 2004 , 23, 9369-80	9.2	146
89	Tuba, a novel protein containing bin/amphiphysin/Rvs and Dbl homology domains, links dynamin to regulation of the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49031-43	5.4	140
88	General and versatile autoinhibition of PLC isozymes. <i>Molecular Cell</i> , 2008 , 31, 383-94	17.6	127
87	Regulation of phospholipase C isozymes by ras superfamily GTPases. <i>Annual Review of Pharmacology and Toxicology</i> , 2006 , 46, 355-79	17.9	112

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86	Ggamma-like (GGL) domains: new frontiers in G-protein signaling and beta-propeller scaffolding. <i>Biochemical Pharmacology</i> , 2001 , 61, 1329-37	6	111
85	The phospholipase C isozymes and their regulation. Sub-Cellular Biochemistry, 2012, 58, 61-94	5.5	107
84	Galphaq directly activates p63RhoGEF and Trio via a conserved extension of the Dbl homology-associated pleckstrin homology domain. <i>Journal of Biological Chemistry</i> , 2007 , 282, 29201-10	5.4	106
83	Crystal structure of Rac1 bound to its effector phospholipase C-beta2. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 1135-40	17.6	102
82	PH domain of ELMO functions in trans to regulate Rac activation via Dock180. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 756-62	17.6	100
81	Leukemia-associated Rho guanine nucleotide exchange factor, a Dbl family protein found mutated in leukemia, causes transformation by activation of RhoA. <i>Journal of Biological Chemistry</i> , 2001 , 276, 27145-51	5.4	100
80	Crystal structure of the multifunctional Gbeta5-RGS9 complex. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 155-62	17.6	88
79	The pleckstrin homology domain of phospholipase C-beta2 as an effector site for Rac. <i>Journal of Biological Chemistry</i> , 2003 , 278, 21099-104	5.4	88
78	Direct activation of phospholipase C-epsilon by Rho. Journal of Biological Chemistry, 2003, 278, 41253-8	5.4	87
77	A Steric-inhibition model for regulation of nucleotide exchange via the Dock180 family of GEFs. <i>Current Biology</i> , 2005 , 15, 371-7	6.3	87
76	A unique fold of phospholipase C-beta mediates dimerization and interaction with G alpha q. <i>Nature Structural Biology</i> , 2002 , 9, 32-6		85
75	TIR-only protein RBA1 recognizes a pathogen effector to regulate cell death in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2053-E2062	11.5	83
74	Mechanism of phosphorylation-induced activation of phospholipase C-gamma isozymes. <i>Journal of Biological Chemistry</i> , 2010 , 285, 35836-47	5.4	83
73	Structural and biochemical characterization of CIB1 delineates a new family of EF-hand-containing proteins. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8407-15	5.4	81
72	Molecular basis for Rac1 recognition by guanine nucleotide exchange factors. <i>Nature Structural Biology</i> , 2001 , 8, 1037-41		78
71	Quantitative analysis of the effect of phosphoinositide interactions on the function of Dbl family proteins. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45868-75	5.4	78
70	Accommodation of single amino acid insertions by the native state of staphylococcal nuclease. <i>Proteins: Structure, Function and Bioinformatics</i> , 1990 , 7, 299-305	4.2	76
69	Type III effector activation via nucleotide binding, phosphorylation, and host target interaction. <i>PLoS Pathogens</i> , 2007 , 3, e48	7.6	75

68	Release of autoinhibition of ASEF by APC leads to CDC42 activation and tumor suppression. <i>Nature Structural and Molecular Biology</i> , 2007 , 14, 814-23	17.6	73
67	Multifunctional roles for the PH domain of Dbs in regulating Rho GTPase activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 18393-400	5.4	73
66	Molecular cloning and characterization of PLC-eta2. <i>Biochemical Journal</i> , 2005 , 391, 667-76	3.8	68
65	Calcium-dependent properties of CIB binding to the integrin Ib cytoplasmic domain and translocation to the platelet cytoskeleton. <i>Biochemical Journal</i> , 1999 , 342, 729-735	3.8	65
64	Structure of Galpha(i1) bound to a GDP-selective peptide provides insight into guanine nucleotide exchange. <i>Structure</i> , 2005 , 13, 1069-80	5.2	63
63	A PLCIPI3KEGSK3 signaling pathway regulates cofilin phosphatase slingshot2 and neutrophil polarization and chemotaxis. <i>Developmental Cell</i> , 2011 , 21, 1038-50	10.2	61
62	Crystal structures of the type III effector protein AvrPphF and its chaperone reveal residues required for plant pathogenesis. <i>Structure</i> , 2004 , 12, 1669-81	5.2	60
61	An effector site that stimulates G-protein GTPase in photoreceptors. <i>Journal of Biological Chemistry</i> , 1995 , 270, 14319-24	5.4	59
60	The DH and PH domains of Trio coordinately engage Rho GTPases for their efficient activation. Journal of Molecular Biology, 2007 , 368, 1307-20	6.5	58
59	Novel mutations in RASGRP2, which encodes CalDAG-GEFI, abrogate Rap1 activation, causing platelet dysfunction. <i>Blood</i> , 2016 , 128, 1282-9	2.2	57
58	Loss of phosphatidylinositol 3-phosphate binding by the C-terminal Tiam-1 pleckstrin homology domain prevents in vivo Rac1 activation without affecting membrane targeting. <i>Journal of Biological Chemistry</i> , 2003 , 278, 11457-64	5.4	53
57	RhoA activates purified phospholipase C-epsilon by a guanine nucleotide-dependent mechanism. Journal of Biological Chemistry, 2004 , 279, 47992-7	5.4	49
56	Molecular basis of CIB binding to the integrin alpha IIb cytoplasmic domain. <i>Journal of Biological Chemistry</i> , 2002 , 277, 28877-83	5.4	49
55	Direct activation of human phospholipase C by its well known inhibitor u73122. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12407-16	5.4	46
54	SmgGDS is a guanine nucleotide exchange factor that specifically activates RhoA and RhoC. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12141-8	5.4	44
53	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
52	Inhibition of NF-kappaB activity by IkappaBbeta in association with kappaB-Ras. <i>Molecular and Cellular Biology</i> , 2004 , 24, 3048-56	4.8	43
51	The emerging role of insertions and deletions in protein engineering. <i>Current Opinion in Biotechnology</i> , 1995 , 6, 387-93	11.4	39

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50	Mechanism of activation and inactivation of Gq/phospholipase C-Bignaling nodes. <i>Chemical Reviews</i> , 2011 , 111, 6120-9	68.1	38
49	High-throughput screening for small-molecule inhibitors of LARG-stimulated RhoA nucleotide binding via a novel fluorescence polarization assay. <i>Journal of Biomolecular Screening</i> , 2009 , 14, 161-72		38
48	Auto-inhibition of the Dbl family protein Tim by an N-terminal helical motif. <i>Journal of Biological Chemistry</i> , 2007 , 282, 13813-23	5.4	37
47	The Dbs PH domain contributes independently to membrane targeting and regulation of guanine nucleotide-exchange activity. <i>Biochemical Journal</i> , 2006 , 400, 563-72	3.8	37
46	A cell-permeable inhibitor to trap Gq proteins in the empty pocket conformation. <i>Chemistry and Biology</i> , 2014 , 21, 890-902		36
45	Larger than Dbl: new structural insights into RhoA activation. <i>Trends in Biochemical Sciences</i> , 2005 , 30, 163-5	10.3	36
44	Phospholipase C isozymes as effectors of Ras superfamily GTPases. <i>Journal of Lipid Research</i> , 2009 , 50 Suppl, S243-8	6.3	35
43	Established and emerging fluorescence-based assays for G-protein function: Ras-superfamily GTPases. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2003 , 6, 409-18	1.3	35
42	Dual activation of phospholipase C-epsilon by Rho and Ras GTPases. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29690-8	5.4	33
41	Structural insights into fibronectin type III domain-mediated signaling. <i>Journal of Molecular Biology</i> , 2007 , 367, 303-9	6.5	33
40	Role of the C-terminal SH3 domain and N-terminal tyrosine phosphorylation in regulation of Tim and related Dbl-family proteins. <i>Biochemistry</i> , 2008 , 47, 6827-39	3.2	32
39	Structural and energetic differences between insertions and substitutions in staphylococcal nuclease. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992 , 13, 132-40	4.2	31
38	Activation of human phospholipase C-eta2 by Gbetagamma. <i>Biochemistry</i> , 2008 , 47, 4410-7	3.2	30
37	Structure and function of Vps15 in the endosomal G protein signaling pathway. <i>Biochemistry</i> , 2009 , 48, 6390-401	3.2	29
36	Crystal structure of the DH/PH fragment of Dbs without bound GTPase. Structure, 2004 , 12, 1078-86	5.2	29
35	Membrane-induced allosteric control of phospholipase C-IIsozymes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 29545-57	5.4	26
34	Functional analysis of cdc42 residues required for Guanine nucleotide exchange. <i>Journal of Biological Chemistry</i> , 2002 , 277, 50893-8	5.4	26
33	RhoGEF specificity mutants implicate RhoA as a target for Dbs transforming activity. <i>Molecular and Cellular Biology</i> , 2002 , 22, 6895-905	4.8	26

32	A fluorogenic, small molecule reporter for mammalian phospholipase C isozymes. <i>ACS Chemical Biology</i> , 2011 , 6, 223-8	4.9	24
31	Quantification of isozyme-specific activation of phospholipase C-beta2 by Rac GTPases and phospholipase C-epsilon by Rho GTPases in an intact cell assay system. <i>Methods in Enzymology</i> , 2006 , 406, 489-99	1.7	24
30	Structural basis for the activation of PLC-lisozymes by phosphorylation and cancer-associated mutations. <i>ELife</i> , 2019 , 8,	8.9	24
29	Autoinhibition and phosphorylation-induced activation of phospholipase C-IIsozymes. <i>Biochemistry</i> , 2013 , 52, 4810-9	3.2	22
28	Small molecule inhibitors of phospholipase C from a novel high-throughput screen. <i>Journal of Biological Chemistry</i> , 2013 , 288, 5840-8	5.4	22
27	AvrRpm1 missense mutations weakly activate RPS2-mediated immune response in Arabidopsis thaliana. <i>PLoS ONE</i> , 2012 , 7, e42633	3.7	19
26	Prediction of protein-protein interfaces on G-protein beta subunits reveals a novel phospholipase C beta2 binding domain. <i>Journal of Molecular Biology</i> , 2009 , 392, 1044-54	6.5	18
25	Calcium-dependent properties of CIB binding to the integrin Ib cytoplasmic domain and translocation to the platelet cytoskeleton. <i>Biochemical Journal</i> , 1999 , 342, 729	3.8	17
24	Role of the pleckstrin homology domain in intersectin-L Dbl homology domain activation of Cdc42 and signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003 , 1640, 61-8	4.9	16
23	Accommodation of insertion mutations on the surface and in the interior of staphylococcal nuclease. <i>Protein Science</i> , 1994 , 3, 391-401	6.3	16
22	Potent and Selective Peptide-based Inhibition of the G Protein Gq. <i>Journal of Biological Chemistry</i> , 2016 , 291, 25608-25616	5.4	14
21	Spatiotemporal dynamics of GEF-H1 activation controlled by microtubule- and Src-mediated pathways. <i>Journal of Cell Biology</i> , 2019 , 218, 3077-3097	7-3	14
20	Calcium-induced structural rearrangements release autoinhibition in the Rap-GEF CalDAG-GEFI. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8521-8529	5.4	12
19	The Salmonella Typhimurium effector SteC inhibits Cdc42-mediated signaling through binding to the exchange factor Cdc24 in Saccharomyces cerevisiae. <i>Molecular Biology of the Cell</i> , 2012 , 23, 4430-43	3.5	12
18	Multiplexed GTPase and GEF biosensor imaging enables network connectivity analysis. <i>Nature Chemical Biology</i> , 2020 , 16, 826-833	11.7	10
17	A membrane-associated, fluorogenic reporter for mammalian phospholipase C isozymes. <i>Journal of Biological Chemistry</i> , 2018 , 293, 1728-1735	5.4	9
16	Fluorescent phosphatidylinositol 4,5-bisphosphate derivatives with modified 6-hydroxy group as novel substrates for phospholipase C. <i>Biochemistry</i> , 2012 , 51, 5300-6	3.2	8
15	A Cdc42 mutant specifically activated by intersectin. <i>Biochemistry</i> , 2005 , 44, 13282-90	3.2	8

LIST OF PUBLICATIONS

14	A negative-feedback loop regulating ERK1/2 activation and mediated by RasGPR2 phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 474, 193-198	3.4	7	
13	High-throughput fluorescence polarization assay for the enzymatic activity of GTPase-activating protein of ADP-ribosylation factor (ARFGAP). <i>Journal of Biomolecular Screening</i> , 2011 , 16, 717-23		7	
12	Assays of complex formation between RGS protein G gamma subunit-like domains and G beta subunits. <i>Methods in Enzymology</i> , 2002 , 344, 702-23	1.7	6	
11	Direct activation of purified phospholipase C epsilon by RhoA studied in reconstituted phospholipid vesicles. <i>Methods in Enzymology</i> , 2006 , 406, 260-71	1.7	5	
10	Regulation of PLCbeta isoforms by Rac. <i>Methods in Enzymology</i> , 2006 , 406, 272-80	1.7	2	
9	Designer proteins that competitively inhibit Glby targeting its effector site. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101348	5.4	1	
8	Lysophosphatidic acid provokes fibroblast chemotaxis through combinatorial regulation of myosin II		1	
7	A High-Throughput Assay to Identify Allosteric Inhibitors of the PLC-Ilsozymes Operating at Membranes. <i>Biochemistry</i> , 2020 , 59, 4029-4038	3.2	O	
6	Structural Features of RhoGEFs 2003 , 751-755			
5	Molecular cloning and characterization of PLC-2. <i>FASEB Journal</i> , 2006 , 20, A693	0.9		
4	Activation of Human PLC-eta2 by Gbetagamma. FASEB Journal, 2008, 22, 728.3	0.9		
3	Structural studies of RGS9/GB. <i>FASEB Journal</i> , 2008 , 22, 539.2	0.9		
2	Structural Features of RhoGEFs 2010 , 1843-1847			
1	Fluorogenic XY-69 in Lipid Vesicles for Measuring Activity of Phospholipase C Isozymes. <i>Methods in Molecular Biology</i> , 2021 , 2251, 225-236	1.4		