Lawrence E Samelson

List of Publications by Year
in descending order

68	9,170	76326	110387
papers	citations	40 h-index	64 g-index

68	68	68	6281
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	InÂvitro reconstitution reveals cooperative mechanisms of adapter protein-mediated activation of phospholipase C-Î³1 in T cells. Journal of Biological Chemistry, 2022, 298, 101680.	3.4	5
2	Expression of a TMC6-TMC8-CIB1 heterotrimeric complex in lymphocytes is regulated by each of the components. Journal of Biological Chemistry, 2020, 295, 16086-16099.	3.4	4
3	Bypassing ubiquitination enables LAT recycling to the cell surface and enhanced signaling in T cells. PLoS ONE, 2020, 15, e0229036.	2.5	9
4	Microclusters as T Cell Signaling Hubs: Structure, Kinetics, and Regulation. Frontiers in Cell and Developmental Biology, 2020, 8, 608530.	3.7	6
5	Title is missing!. , 2020, 15, e0229036.		0
6	Title is missing!. , 2020, 15, e0229036.		0
7	Title is missing!. , 2020, 15, e0229036.		0
8	Title is missing!. , 2020, 15, e0229036.		0
9	Pak1 Kinase Promotes Activated T Cell Trafficking by Regulating the Expression of L-Selectin and CCR7. Frontiers in Immunology, 2019, 10, 370.	4.8	3
10	TCR microclusters form spatially segregated domains and sequentially assemble in calcium-dependent kinetic steps. Nature Communications, 2019, 10, 277.	12.8	64
11	The Cish SH2 domain is essential for PLC-Î³1 regulation in TCR stimulated CD8+ T cells. Scientific Reports, 2018, 8, 5336.	3.3	32
12	Intensity and duration of TCR signaling is limited by p38 phosphorylation of ZAP-70 ^{T293} and destabilization of the signalosome. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2174-2179.	7.1	27
13	Cooperative assembly of a four-molecule signaling complex formed upon T cell antigen receptor activation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11914-E11923.	7.1	24
14	Plasma membrane LAT activation precedes vesicular recruitment defining two phases of early T-cell activation. Nature Communications, 2018, 9, 2013.	12.8	39
15	Timed Regulation of 3BP2 Induction Is Critical for Sustaining CD8+ T Cell Expansion and Differentiation. Cell Reports, 2018, 24, 1123-1135.	6.4	9
16	Super-resolution Analysis of TCR-Dependent Signaling: Single-Molecule Localization Microscopy. Methods in Molecular Biology, 2017, 1584, 183-206.	0.9	4
17	Recruitment of calcineurin to the TCR positively regulates T cell activation. Nature Immunology, 2017, 18, 196-204.	14.5	67
18	Highly Multiplexed, Super-resolution Imaging of T Cells Using madSTORM. Journal of Visualized Experiments, 2017, , .	0.3	4

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19	Unexpected Cartilage Phenotype in CD4-Cre-Conditional SOS-Deficient Mice. Frontiers in Immunology, 2017, 8, 343.	4.8	9
20	Development of nanoscale structure in LAT-based signaling complexes. Journal of Cell Science, 2016, 129, 4548-4562.	2.0	11
21	madSTORM: a superresolution technique for large-scale multiplexing at single-molecule accuracy. Molecular Biology of the Cell, 2016, 27, 3591-3600.	2.1	42
22	Microvilli set the stage for T-cell activation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11061-11062.	7.1	17
23	Hierarchical nanostructure and synergy of multimolecular signalling complexes. Nature Communications, 2016, 7, 12161.	12.8	32
24	Absence of both Sosâ€1 and Sosâ€2 in peripheral CD4⁺ TÂcells leads to PI3K pathway activation and defects in migration. European Journal of Immunology, 2015, 45, 2389-2395.	2.9	29
25	miR-155 Controls Lymphoproliferation in LAT Mutant Mice by Restraining T-Cell Apoptosis via SHIP-1/mTOR and PAK1/FOXO3/BIM Pathways. PLoS ONE, 2015, 10, e0131823.	2.5	38
26	Cish actively silences TCR signaling in CD8+ T cells to maintain tumor tolerance. Journal of Experimental Medicine, 2015, 212, 2095-2113.	8.5	147
27	The Linker for Activation of T Cells (LAT) Signaling Hub: From Signaling Complexes to Microclusters. Journal of Biological Chemistry, 2015, 290, 26422-26429.	3.4	108
28	In vivo functional mapping of the conserved protein domains within murine Themis1. Immunology and Cell Biology, 2014, 92, 721-728.	2.3	5
29	The Ability of Sos1 to Oligomerize the Adaptor Protein LAT Is Separable from Its Guanine Nucleotide Exchange Activity in Vivo. Science Signaling, 2013, 6, ra99.	3.6	41
30	Automatic sorting of point pattern sets using Minkowski functionals. Physical Review E, 2013, 88, 022720.	2.1	15
31	Resolving multi-molecular protein interactions by photoactivated localization microscopy. Methods, 2013, 59, 261-269.	3.8	26
32	Superâ€resolution characterization of <scp>TCR</scp>â€dependent signaling clusters. Immunological Reviews, 2013, 251, 21-35.	6.0	54
33	Ras and extracellular signal-regulated kinase signaling in thymocytes and T cells. Trends in Immunology, 2013, 34, 259-268.	6.8	85
34	Cutting Edge: Cell Surface Linker for Activation of T Cells Is Recruited to Microclusters and Is Active in Signaling. Journal of Immunology, 2013, 190, 3849-3853.	0.8	45
35	Multipoint Binding of the SLP-76 SH2 Domain to ADAP Is Critical for Oligomerization of SLP-76 Signaling Complexes in Stimulated T Cells. Molecular and Cellular Biology, 2013, 33, 4140-4151.	2.3	43
36	Deconstructing Ras Signaling in the Thymus. Molecular and Cellular Biology, 2012, 32, 2748-2759.	2.3	44

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37	LAT-Independent Erk Activation via Bam32-PLC-Î³1-Pak1 Complexes: GTPase-Independent Pak1 Activation. Molecular Cell, 2012, 48, 298-312.	9.7	46
38	Functional Nanoscale Organization of Signaling Molecules Downstream of the T Cell Antigen Receptor. Immunity, 2011, 35, 705-720.	14.3	288
39	Imaging techniques for assaying lymphocyte activation in action. Nature Reviews Immunology, 2011, 11, 21-33.	22.7	93
40	Enhanced T-cell signaling in cells bearing linker for activation of T-cell (LAT) molecules resistant to ubiquitylation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2885-2890.	7.1	47
41	Targeted Sos1 deletion reveals its critical role in early T-cell development. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12407-12412.	7.1	53
42	Immunoreceptor Signaling. Cold Spring Harbor Perspectives in Biology, 2011, 3, a011510-a011510.	5.5	27
43	Cooperative interactions at the SLP-76 complex are critical for actin polymerization. EMBO Journal, 2010, 29, 2315-2328.	7.8	98
44	The LAT Story: A Tale of Cooperativity, Coordination, and Choreography. Cold Spring Harbor Perspectives in Biology, 2010, 2, a005512-a005512.	5.5	153
45	c-Cbl-Mediated Regulation of LAT-Nucleated Signaling Complexes. Molecular and Cellular Biology, 2007, 27, 8622-8636.	2.3	95
46	Studying multisite binary and ternary protein interactions by global analysis of isothermal titration calorimetry data in SEDPHAT: Application to adaptor protein complexes in cell signaling. Protein Science, 2007, 16, 30-42.	7.6	295
47	T-Cell Antigen Receptor-Induced Signaling Complexes: Internalization Via a Cholesterol-Dependent Endocytic Pathway. Traffic, 2006, 7, 1143-1162.	2.7	74
48	Oligomerization of signaling complexes by the multipoint binding of GRB2 to both LAT and SOS1. Nature Structural and Molecular Biology, 2006, 13, 798-805.	8.2	195
49	Recruitment and activation of PLCÎ³1 in T cells: a new insight into old domains. EMBO Journal, 2006, 25, 774-784.	7.8	112
50	Persistence of Cooperatively Stabilized Signaling Clusters Drives T-Cell Activation. Molecular and Cellular Biology, 2006, 26, 7155-7166.	2.3	110
51	Dynamic molecular interactions linking the T cell antigen receptor to the actin cytoskeleton. Nature Immunology, 2005, 6, 80-89.	14.5	279
52	Early Phosphorylation Kinetics of Proteins Involved in Proximal TCR-Mediated Signaling Pathways. Journal of Immunology, 2005, 175, 2449-2458.	0.8	105
53	Mutation of the phospholipase C-Î³1â€“binding site of LAT affects both positive and negative thymocyte selection. Journal of Experimental Medicine, 2005, 201, 1125-1134.	8.5	77
54	Markers for Detergent-resistant Lipid Rafts Occupy Distinct and Dynamic Domains in Native Membranes. Molecular Biology of the Cell, 2004, 15, 2580-2592.	2.1	191

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55	Binding Specificity of Multiprotein Signaling Complexes Is Determined by Both Cooperative Interactions and Affinity Preferences. Biochemistry, 2004, 43, 4170-4178.	2.5	105
56	High-Resolution Multicolor Imaging of Dynamic Signaling Complexes in T Cells Stimulated by Planar Substrates. Science Signaling, 2003, 2003, pl8-pl8.	3.6	68
57	T cell receptor ligation induces the formation of dynamically regulated signaling assemblies. Journal of Cell Biology, 2002, 158, 1263-1275.	5.2	573
58	Signal Transduction Mediated by the T Cell Antigen Receptor: The Role of Adapter Proteins. Annual Review of Immunology, 2002, 20, 371-394.	21.8	526
59	Dynamic Actin Polymerization Drives T Cell Receptorâ€“Induced Spreading. Immunity, 2001, 14, 315-329.	14.3	401
60	Knock-in Mutation of the Distal Four Tyrosines of Linker for Activation of T Cells Blocks Murine T Cell Development. Journal of Experimental Medicine, 2001, 194, 135-142.	8.5	92
61	Association of Grb2, Gads, and Phospholipase C-Î³1 with Phosphorylated LAT Tyrosine Residues. Journal of Biological Chemistry, 2000, 275, 23355-23361.	3.4	362
62	Functional analysis of LAT in TCR-mediated signaling pathways using a LAT-deficient Jurkat cell line. International Immunology, 1999, 11, 943-950.	4.0	240
63	Essential Role of LAT in T Cell Development. Immunity, 1999, 10, 323-332.	14.3	509
64	LAT Palmitoylation. Immunity, 1998, 9, 239-246.	14.3	801
65	LAT Is Required for TCR-Mediated Activation of PLCÎ³1 and the Ras Pathway. Immunity, 1998, 9, 617-626.	14.3	480
66	LAT. Cell, 1998, 92, 83-92.	28.9	1,176
67	Genetic Evidence for Differential Coupling of Syk Family Kinases to the T-Cell Receptor: Reconstitution Studies in a ZAP-70-Deficient Jurkat T-Cell Line. Molecular and Cellular Biology, 1998, 18, 1388-1399.	2.3	248
68	Activating and Inhibitory Mutations in Adjacent Tyrosines in the Kinase Domain of ZAP-70. Journal of Biological Chemistry, 1995, 270, 18730-18733.	3.4	163