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	LAT. Cell, 1998, 92, 83-92.	28.9	1,176
2	LAT Palmitoylation. Immunity, 1998, 9, 239-246.	14.3	801
3	T cell receptor ligation induces the formation of dynamically regulated signaling assemblies. Journal of Cell Biology, 2002, 158, 1263-1275.	5.2	573
4	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
5	Essential Role of LAT in T Cell Development. Immunity, 1999, 10, 323-332.	14.3	509
6	LAT Is Required for TCR-Mediated Activation of PLCÎ³1 and the Ras Pathway. Immunity, 1998, 9, 617-626.	14.3	480
7	Dynamic Actin Polymerization Drives T Cell Receptorâ€“Induced Spreading. Immunity, 2001, 14, 315-329.	14.3	401
8	Association of Grb2, Gads, and Phospholipase C-Î³1 with Phosphorylated LAT Tyrosine Residues. Journal of Biological Chemistry, 2000, 275, 23355-23361.	3.4	362
9	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
10	Functional Nanoscale Organization of Signaling Molecules Downstream of the T Cell Antigen Receptor. Immunity, 2011, 35, 705-720.	14.3	288
11	Dynamic molecular interactions linking the T cell antigen receptor to the actin cytoskeleton. Nature Immunology, 2005, 6, 80-89.	14.5	279
12	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
13	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
14	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
15	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
16	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
17	The LAT Story: A Tale of Cooperativity, Coordination, and Choreography. Cold Spring Harbor Perspectives in Biology, 2010, 2, a005512-a005512.	5.5	153
18	Cish actively silences TCR signaling in CD8+ T cells to maintain tumor tolerance. Journal of Experimental Medicine, 2015, 212, 2095-2113.	8.5	147

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19	Recruitment and activation of PLCÎ³1 in T cells: a new insight into old domains. EMBO Journal, 2006, 25, 774-784.	7.8	112
20	Persistence of Cooperatively Stabilized Signaling Clusters Drives T-Cell Activation. Molecular and Cellular Biology, 2006, 26, 7155-7166.	2.3	110
21	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
22	Binding Specificity of Multiprotein Signaling Complexes Is Determined by Both Cooperative Interactions and Affinity Preferences. Biochemistry, 2004, 43, 4170-4178.	2.5	105
23	Early Phosphorylation Kinetics of Proteins Involved in Proximal TCR-Mediated Signaling Pathways. Journal of Immunology, 2005, 175, 2449-2458.	0.8	105
24	Cooperative interactions at the SLP-76 complex are critical for actin polymerization. EMBO Journal, 2010, 29, 2315-2328.	7.8	98
25	c-Cbl-Mediated Regulation of LAT-Nucleated Signaling Complexes. Molecular and Cellular Biology, 2007, 27, 8622-8636.	2.3	95
26	Imaging techniques for assaying lymphocyte activation in action. Nature Reviews Immunology, 2011, 11, 21-33.	22.7	93
27	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
28	Ras and extracellular signal-regulated kinase signaling in thymocytes and T cells. Trends in Immunology, 2013, 34, 259-268.	6.8	85
29	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
30	T-Cell Antigen Receptor-Induced Signaling Complexes: Internalization Via a Cholesterol-Dependent Endocytic Pathway. Traffic, 2006, 7, 1143-1162.	2.7	74
31	High-Resolution Multicolor Imaging of Dynamic Signaling Complexes in T Cells Stimulated by Planar Substrates. Science Signaling, 2003, 2003, pl8-pl8.	3.6	68
32	Recruitment of calcineurin to the TCR positively regulates T cell activation. Nature Immunology, 2017, 18, 196-204.	14.5	67
33	TCR microclusters form spatially segregated domains and sequentially assemble in calcium-dependent kinetic steps. Nature Communications, 2019, 10, 277.	12.8	64
34	Superâ€resolution characterization of <scp>TCR</scp>â€dependent signaling clusters. Immunological Reviews, 2013, 251, 21-35.	6.0	54
35	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
36	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

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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	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
39	Deconstructing Ras Signaling in the Thymus. Molecular and Cellular Biology, 2012, 32, 2748-2759.	2.3	44
40	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
41	madSTORM: a superresolution technique for large-scale multiplexing at single-molecule accuracy. Molecular Biology of the Cell, 2016, 27, 3591-3600.	2.1	42
42	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
43	Plasma membrane LAT activation precedes vesicular recruitment defining two phases of early T-cell activation. Nature Communications, 2018, 9, 2013.	12.8	39
44	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
45	Hierarchical nanostructure and synergy of multimolecular signalling complexes. Nature Communications, 2016, 7, 12161.	12.8	32
46	The Cish SH2 domain is essential for PLC-Î³1 regulation in TCR stimulated CD8+ T cells. Scientific Reports, 2018, 8, 5336.	3.3	32
47	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
48	Immunoreceptor Signaling. Cold Spring Harbor Perspectives in Biology, 2011, 3, a011510-a011510.	5.5	27
49	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
50	Resolving multi-molecular protein interactions by photoactivated localization microscopy. Methods, 2013, 59, 261-269.	3.8	26
51	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
52	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
53	Automatic sorting of point pattern sets using Minkowski functionals. Physical Review E, 2013, 88, 022720.	2.1	15
54	Development of nanoscale structure in LAT-based signaling complexes. Journal of Cell Science, 2016, 129, 4548-4562.	2.0	11

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55	Unexpected Cartilage Phenotype in CD4-Cre-Conditional SOS-Deficient Mice. Frontiers in Immunology, 2017, 8, 343.	4.8	9
56	Timed Regulation of 3BP2 Induction Is Critical for Sustaining CD8+ T Cell Expansion and Differentiation. Cell Reports, 2018, 24, 1123-1135.	6.4	9
57	Bypassing ubiquitination enables LAT recycling to the cell surface and enhanced signaling in T cells. PLoS ONE, 2020, 15, e0229036.	2.5	9
58	Microclusters as T Cell Signaling Hubs: Structure, Kinetics, and Regulation. Frontiers in Cell and Developmental Biology, 2020, 8, 608530.	3.7	6
59	In vivo functional mapping of the conserved protein domains within murine Themis1. Immunology and Cell Biology, 2014, 92, 721-728.	2.3	5
60	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
61	Super-resolution Analysis of TCR-Dependent Signaling: Single-Molecule Localization Microscopy. Methods in Molecular Biology, 2017, 1584, 183-206.	0.9	4
62	Highly Multiplexed, Super-resolution Imaging of T Cells Using madSTORM. Journal of Visualized Experiments, 2017, , .	0.3	4
63	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
64	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
65	Title is missing!. , 2020, 15, e0229036.		0
66	Title is missing!. , 2020, 15, e0229036.		0
67	Title is missing!. , 2020, 15, e0229036.		0
68	Title is missing!. , 2020, 15, e0229036.		0