Pavel Tolar

List of Publications by Year
in descending order

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50 papers	4,219 citations	201658 27 h-index	214788 47 g-index
57 all docs	57 docs citations	57 times ranked	5037 citing authors

#	Article	IF	Citations
1	Chronic active B-cell-receptor signalling in diffuse large B-cell lymphoma. Nature, 2010, 463, 88-92.	27.8	1,402
2	B Cells Use Mechanical Energy to Discriminate Antigen Affinities. Science, 2013, 340, 1587-1590.	12.6	264
3	The Constant Region of the Membrane Immunoglobulin Mediates B Cell-Receptor Clustering and Signaling in Response to Membrane Antigens. Immunity, 2009, 30, 44-55.	14.3	214
4	The initiation of antigen-induced B cell antigen receptor signaling viewed in living cells by fluorescence resonance energy transfer. Nature Immunology, 2005, 6, 1168-1176.	14.5	208
5	Structure-Function Analysis of Lyn Kinase Association with Lipid Rafts and Initiation of Early Signaling Events after FcÉ› Receptor I Aggregation. Molecular and Cellular Biology, 2001, 21, 8318-8328.	2.3	175
6	Germinal center B cells recognize antigen through a specialized immune synapse architecture. Nature Immunology, 2016, 17, 870-877.	14.5	161
7	Membrane heterogeneities in the formation of B cell receptorâ€“Lyn kinase microclusters and the immune synapse. Journal of Cell Biology, 2008, 182, 367-379.	5.2	134
8	B cell antigen extraction is regulated by physical properties of antigen-presenting cells. Journal of Cell Biology, 2017, 216, 217-230.	5.2	129
9	Antigen affinity discrimination is an intrinsic function of the B cell receptor. Journal of Experimental Medicine, 2010, 207, 1095-1111.	8.5	120
10	Systemsâ€wide analysis of <scp>BCR</scp> signalosomes and downstream phosphorylation and ubiquitylation. Molecular Systems Biology, 2015, 11, 810.	7.2	119
11	Fluorescence resonance energy transfer in living cells reveals dynamic membrane changes in the initiation of B cell signaling. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8143-8148.	7.1	115
12	Intrinsic Properties of immunoglobulin IgG1 Isotype-Switched B Cell Receptors Promote Microclustering and the Initiation of Signaling. Immunity, 2010, 32, 778-789.	14.3	114
13	Cytoskeletal control of B cell responses to antigens. Nature Reviews Immunology, 2017, 17, 621-634.	22.7	107
14	Antigen-Induced Oligomerization of the B Cell Receptor Is an Early Target of FcÎ³RIIB Inhibition. Journal of Immunology, 2010, 184, 1977-1989.	0.8	70
15	The molecular assembly and organization of signaling active Bâ€cell receptor oligomers. Immunological Reviews, 2009, 232, 34-41.	6.0	68
16	Intrinsic properties of human germinal center B cells set antigen affinity thresholds. Science Immunology, 2018, 3, .	11.9	65
17	Viewing the antigenâ€induced initiation of Bâ€cell activation in living cells. Immunological Reviews, 2008, 221, 64-76.	6.0	58
18	Mechanics of antigen extraction in the B cell synapse. Molecular Immunology, 2018, 101, 319-328.	2.2	57

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19	WASp-dependent actin cytoskeleton stability at the dendritic cell immunological synapse is required for extensive, functional T cell contacts. Journal of Leukocyte Biology, 2016, 99, 699-710.	3.3	54
20	Structural and Functional Studies of IgÎ±Î² and Its Assembly with the B Cell Antigen Receptor. Structure, 2010, 18, 934-943.	3.3	52
21	Molecular Mechanisms of B Cell Antigen Gathering and Endocytosis. Current Topics in Microbiology and Immunology, 2015, 393, 45-63.	1.1	48
22	Force Generation in B-Cell Synapses. Advances in Immunology, 2014, 123, 69-100.	2.2	40
23	Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I FcÉ› receptors. European Journal of Immunology, 1997, 27, 321-328.	2.9	34
24	It's All About Change: The Antigen-driven Initiation of B-Cell Receptor Signaling. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002295-a002295.	5.5	33
25	A Conformation-Induced Oligomerization Model for B cell Receptor Microclustering and Signaling. Current Topics in Microbiology and Immunology, 2010, 340, 155-169.	1.1	32
26	Myosin II Synergizes with F-Actin to Promote DNGR-1-Dependent Cross-Presentation of Dead Cell-Associated Antigens. Cell Reports, 2018, 24, 419-428.	6.4	30
27	B cells extract antigens at Arp2/3-generated actin foci interspersed with linear filaments. ELife, 2019, 8, .	6.0	29
28	Signaling assemblies formed in mast cells activated via FcÎµ receptorâ€„I dimers. European Journal of Immunology, 2004, 34, 2209-2219.	2.9	28
29	Protein tyrosine kinase Syk is involved in Thy-1 signaling in rat basophilic leukemia cells. European Journal of Immunology, 1997, 27, 3389-3397.	2.9	27
30	Myosin IIa Promotes Antibody Responses by Regulating B Cell Activation, Acquisition of Antigen, and Proliferation. Cell Reports, 2018, 23, 2342-2353.	6.4	27
31	A Method for Analyzing Proteinâ€“Protein Interactions in the Plasma Membrane of Live B Cells by Fluorescence Resonance Energy Transfer Imaging as Acquired by Total Internal Reflection Fluorescence Microscopy. Methods in Molecular Biology, 2010, 591, 159-183.	0.9	27
32	Chronic calcium signaling in IgE+ B cells limits plasma cell differentiation and survival. Immunity, 2021, 54, 2756-2771.e10.	14.3	25
33	Pathogenic ACVR1^{R206H} activation by Activin Aâ€induced receptor clustering and autophosphorylation. EMBO Journal, 2021, 40, e106317.	7.8	24
34	Plasma Membrane Sheets for Studies of B Cell Antigen Internalization from Immune Synapses. Methods in Molecular Biology, 2017, 1584, 77-88.	0.9	20
35	Positive and negative regulation of FcÎµ receptorâ€„I-mediated signaling events by Lyn kinase C-terminal tyrosine phosphorylation. European Journal of Immunology, 2004, 34, 1136-1145.	2.9	18
36	MHC class II cell-autonomously regulates self-renewal and differentiation of normal and malignant B cells. Blood, 2019, 133, 1108-1118.	1.4	17

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37	Activation of the B Cell Receptor Leads to Increased Membrane Proximity of the IgÎ± Cytoplasmic Domain. PLoS ONE, 2013, 8, e79148.	2.5	13
38	Editorial: BCR Signaling and B Cell Activation. Frontiers in Immunology, 2020, 11, 45.	4.8	12
39	Isolation of Lipid Rafts From B Lymphocytes. , 2004, 271, 213-224.		8
40	Endophilin A2 regulates Bâ€cell endocytosis and is required for germinal center and humoral responses. EMBO Reports, 2021, 22, e51328.	4.5	8
41	Lipid Rafts and Their Role in Signal Transduction-Mast Cells as a Model. Trends in Glycoscience and Glycotechnology, 2001, 13, 261-279.	0.1	7
42	Monocytes work harder under pressure. Nature Immunology, 2019, 20, 1422-1424.	14.5	6
43	Inside the microcluster: antigen receptor signalling viewed with molecular imaging tools. Immunology, 2011, 133, 271-277.	4.4	5
44	Great stretches for your antibody workout. Nature Nanotechnology, 2019, 14, 101-102.	31.5	4
45	Imaging B-Cell Receptor Signaling by Single-Molecule Techniques. Methods in Molecular Biology, 2009, 571, 437-453.	0.9	2
46	DNA-Based Probes for Measuring Mechanical Forces in Cell-Cell Contacts: Application to B Cell Antigen Extraction from Immune Synapses. Methods in Molecular Biology, 2018, 1707, 69-80.	0.9	2
47	Digital holography-based 3D particle localization for single-molecule tweezer techniques. Biophysical Journal, 2022, 121, 2538-2549.	0.5	2
48	Change we can believe inâ€"of the conformational type. EMBO Reports, 2009, 10, 331-336.	4.5	1
49	Genome-Wide Screens Identify Calcium Signaling as a Key Regulator of IgE+ Plasma Cell Differentiation and Survival. SSRN Electronic Journal, 0, , .	0.4	0
50	Membrane heterogeneities in the formation of B cell receptorâ€"Lyn kinase microclusters and the immune synapse. Journal of Experimental Medicine, 2008, 205, i20-i20.	8.5	0