Pavel Tolar

List of Publications by Year in Descending Order

49 papers	3,253 citations	24 h-index	57 g-index
57 ext. papers	3,857 ext. citations	11.3 avg, IF	5.29 L-index

#	Paper	IF	Citations
49	Pathogenic ACVR1 activation by Activin A-induced receptor clustering and autophosphorylation. *EMBO Journal*, **2021**, 40, e106317	13	3
48	Endophilin A2 regulates B-cell endocytosis and is required for germinal center and humoral responses. *EMBO Reports*, **2021**, 22, e51328	6.5	7
47	Chronic calcium signaling in IgE B cells limits plasma cell differentiation and survival. *Immunity*, **2021**,	32.3	4
46	MHC class II cell-autonomously regulates self-renewal and differentiation of normal and malignant B cells. *Blood*, **2019**, 133, 1108-1118	2.2	8
45	Monocytes work harder under pressure. *Nature Immunology*, **2019**, 20, 1422-1424	19.1	5
44	B cells extract antigens at Arp2/3-generated actin foci interspersed with linear filaments. *ELife*, **2019**, 8,	8.9	13
43	Great stretches for your antibody workout. *Nature Nanotechnology*, **2019**, 14, 101-102	28.7	2
42	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	1.4	1
41	Mechanics of antigen extraction in the B cell synapse. *Molecular Immunology*, **2018**, 101, 319-328	4.3	22
40	Myosin II Synergizes with F-Actin to Promote DNGR-1-Dependent Cross-Presentation of Dead Cell-Associated Antigens. *Cell Reports*, **2018**, 24, 419-428	10.6	17
39	Intrinsic properties of human germinal center B cells set antigen affinity thresholds. *Science Immunology*, **2018**, 3,	28	40
38	Myosin IIa Promotes Antibody Responses by Regulating B Cell Activation, Acquisition of Antigen, and Proliferation. *Cell Reports*, **2018**, 23, 2342-2353	10.6	15
37	Plasma Membrane Sheets for Studies of B Cell Antigen Internalization from Immune Synapses. *Methods in Molecular Biology*, **2017**, 1584, 77-88	1.4	10
36	B cell antigen extraction is regulated by physical properties of antigen-presenting cells. *Journal of Cell Biology*, **2017**, 216, 217-230	7.3	72
35	Cytoskeletal control of B cell responses to antigens. *Nature Reviews Immunology*, **2017**, 17, 621-634	36.5	76
34	Molecular Mechanisms of B Cell Antigen Gathering and Endocytosis. *Current Topics in Microbiology and Immunology*, **2016**, 393, 45-63	3.3	25
33	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	6.5	44

32	Germinal center B cells recognize antigen through a specialized immune synapse architecture. *Nature Immunology*, **2016**, 17, 870-7	19.1	106
31	Systems-wide analysis of BCR signalosomes and downstream phosphorylation and ubiquitylation. *Molecular Systems Biology*, **2015**, 11, 810	12.2	82
30	Force generation in B-cell synapses: mechanisms coupling B-cell receptor binding to antigen internalization and affinity discrimination. *Advances in Immunology*, **2014**, 123, 69-100	5.6	27
29	B cells use mechanical energy to discriminate antigen affinities. *Science*, **2013**, 340, 1587-90	33.3	183
28	Activation of the B cell receptor leads to increased membrane proximity of the Ig□ cytoplasmic domain. *PLoS ONE*, **2013**, 8, e79148	3.7	11
27	Inside the microcluster: antigen receptor signalling viewed with molecular imaging tools. *Immunology*, **2011**, 133, 271-7	7.8	5
26	Chronic active B-cell-receptor signalling in diffuse large B-cell lymphoma. *Nature*, **2010**, 463, 88-92	50.4	1149
25	Antigen affinity discrimination is an intrinsic function of the B cell receptor. *Journal of Experimental Medicine*, **2010**, 207, 1095-111	16.6	103
24	Antigen-induced oligomerization of the B cell receptor is an early target of Fc gamma RIIB inhibition. *Journal of Immunology*, **2010**, 184, 1977-89	5.3	61
23	It□s all about change: the antigen-driven initiation of B-cell receptor signaling. *Cold Spring Harbor Perspectives in Biology*, **2010**, 2, a002295	10.2	27
22	A conformation-induced oligomerization model for B cell receptor microclustering and signaling. *Current Topics in Microbiology and Immunology*, **2010**, 340, 155-69	3.3	30
21	Structural and functional studies of Igalphabeta and its assembly with the B cell antigen receptor. *Structure*, **2010**, 18, 934-43	5.2	38
20	Intrinsic properties of immunoglobulin IgG1 isotype-switched B cell receptors promote microclustering and the initiation of signaling. *Immunity*, **2010**, 32, 778-89	32.3	103
19	A method for analyzing protein-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, 159-83	1.4	14
18	Change we can believe in--of the conformational type. Workshop on the Initiation of Antigen Receptor Signaling. *EMBO Reports*, **2009**, 10, 331-6	6.5	1
17	The molecular assembly and organization of signaling active B-cell receptor oligomers. *Immunological Reviews*, **2009**, 232, 34-41	11.3	52
16	The constant region of the membrane immunoglobulin mediates B cell-receptor clustering and signaling in response to membrane antigens. *Immunity*, **2009**, 30, 44-55	32.3	173
15	Imaging B-cell receptor signaling by single-molecule techniques. *Methods in Molecular Biology*, **2009** , 571, 437-53	1.4	2

14	Membrane heterogeneities in the formation of B cell receptor-Lyn kinase microclusters and the immune synapse. *Journal of Cell Biology*, **2008**, 182, 367-79	7.3	117
13	Viewing the antigen-induced initiation of B-cell activation in living cells. *Immunological Reviews*, **2008**, 221, 64-76	11.3	54
12	Membrane heterogeneities in the formation of B cell receptor□yn kinase microclusters and the immune synapse. *Journal of Experimental Medicine*, **2008**, 205, i20-i20	16.6	
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, 8143-8	11.5	100
10	The initiation of antigen-induced B cell antigen receptor signaling viewed in living cells by fluorescence resonance energy transfer. *Nature Immunology*, **2005**, 6, 1168-76	19.1	185
9	Isolation of lipid rafts from B lymphocytes. *Methods in Molecular Biology*, **2004**, 271, 213-24	1.4	8
8	Signaling assemblies formed in mast cells activated via Fcepsilon receptor I dimers. *European Journal of Immunology*, **2004**, 34, 2209-19	6.1	22
7	Positive and negative regulation of Fc epsilon receptor I-mediated signaling events by Lyn kinase C-terminal tyrosine phosphorylation. *European Journal of Immunology*, **2004**, 34, 1136-45	6.1	15
6	Structure-function analysis of Lyn kinase association with lipid rafts and initiation of early signaling events after Fcepsilon receptor I aggregation. *Molecular and Cellular Biology*, **2001**, 21, 8318-28	4.8	157
5	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
4	Direct interaction of Syk and Lyn protein tyrosine kinases in rat basophilic leukemia cells activated via type I Fc epsilon receptors. *European Journal of Immunology*, **1997**, 27, 321-8	6.1	32
3	Protein tyrosine kinase Syk is involved in Thy-1 signaling in rat basophilic leukemia cells. *European Journal of Immunology*, **1997**, 27, 3389-97	6.1	19
2	Endophilin A2 regulates B cell protein trafficking and humoral responses		1
1	B cells extract antigens using Arp2/3-generated actin foci interspersed with linear filaments		1