

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125 papers	15,043 citations	58 h-index	122 g-index
130 ext. papers	16,955 ext. citations	10.6 avg, IF	6.62 L-index

#	Paper	IF	Citations
125	The development of allergic inflammation. <i>Nature</i> , 2008 , 454, 445-54	50.4	1210
124	IgE and mast cells in allergic disease. <i>Nature Medicine</i> , 2012 , 18, 693-704	50.5	1060
123	Mast cells as "tunable" effector and immunoregulatory cells: recent advances. <i>Annual Review of Immunology</i> , 2005 , 23, 749-86	34.7	1017
122	Mast cells in the development of adaptive immune responses. <i>Nature Immunology</i> , 2005 , 6, 135-42	19.1	1004
121	Immunomodulatory mast cells: negative, as well as positive, regulators of immunity. <i>Nature Reviews Immunology</i> , 2008 , 8, 478-86	36.5	580
120	Mast cell-deficient W-sash c-kit mutant Kit W-sh/W-sh mice as a model for investigating mast cell biology in vivo. <i>American Journal of Pathology</i> , 2005 , 167, 835-48	5.8	448
119	Mast cell-derived interleukin 10 limits skin pathology in contact dermatitis and chronic irradiation with ultraviolet B. <i>Nature Immunology</i> , 2007 , 8, 1095-104	19.1	378
118	Induction of mast cell proliferation, maturation, and heparin synthesis by the rat c-kit ligand, stem cell factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 6382-6	11.5	353
117	Peanut oral immunotherapy results in increased antigen-induced regulatory T-cell function and hypomethylation of forkhead box protein 3 (FOXP3). <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 133, 500-10	11.5	325
116	Mast cells enhance T cell activation: importance of mast cell costimulatory molecules and secreted TNF. <i>Journal of Immunology</i> , 2006 , 176, 2238-48	5.3	312
115	Mast cells as sources of cytokines, chemokines, and growth factors. <i>Immunological Reviews</i> , 2018 , 282, 121-150	11.3	297
114	Regulation of mast cell survival by IgE. <i>Immunity</i> , 2001 , 14, 791-800	32.3	280
113	Mast cells can secrete vascular permeability factor/vascular endothelial cell growth factor and exhibit enhanced release after immunoglobulin E-dependent upregulation of Fc epsilon receptor I expression. <i>Journal of Experimental Medicine</i> , 1998 , 188, 1135-45	16.6	280
112	Roles of mast cells and basophils in innate and acquired immunity. <i>Current Opinion in Immunology</i> , 2000 , 12, 624-31	7.8	274
111	Mast cells can enhance resistance to snake and honeybee venoms. <i>Science</i> , 2006 , 313, 526-30	33.3	272
110	Mast cells in allergy and infection: versatile effector and regulatory cells in innate and adaptive immunity. <i>European Journal of Immunology</i> , 2010 , 40, 1843-51	6.1	271
109	The rat c-kit ligand, stem cell factor, induces the development of connective tissue-type and mucosal mast cells in vivo. Analysis by anatomical distribution, histochemistry, and protease phenotype. <i>Journal of Experimental Medicine</i> , 1991 , 174, 125-31	16.6	260

108	Mast cells promote homeostasis by limiting endothelin-1-induced toxicity. <i>Nature</i> , 2004 , 432, 512-6	50.4	249
107	Mast cells in the promotion and limitation of chronic inflammation. <i>Immunological Reviews</i> , 2007 , 217, 304-28	11.3	244
106	Evidence that IgE molecules mediate a spectrum of effects on mast cell survival and activation via aggregation of the FcεRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12911-6	11.5	230
105	Identification of mast cell progenitors in adult mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 11408-13	11.5	226
104	Mast cell-associated TNF promotes dendritic cell migration. <i>Journal of Immunology</i> , 2006 , 176, 4102-12	5.3	209
103	Mast cells can promote the development of multiple features of chronic asthma in mice. <i>Journal of Clinical Investigation</i> , 2006 , 116, 1633-41	15.9	207
102	Mast cells enhance T cell activation: Importance of mast cell-derived TNF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 6467-72	11.5	197
101	Different activation signals induce distinct mast cell degranulation strategies. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3981-3998	15.9	194
100	Mast cells: versatile regulators of inflammation, tissue remodeling, host defense and homeostasis. <i>Journal of Dermatological Science</i> , 2008 , 49, 7-19	4.3	178
99	Immune sensitization in the skin is enhanced by antigen-independent effects of IgE. <i>Immunity</i> , 2004 , 20, 381-92	32.3	162
98	An unexpected version of anaphylaxis: anaphylactic shock to a self-peptide. <i>Nature Immunology</i> , 2001 , 2, 216-22	19.1	161
97	Reduced mast cell and basophil numbers and function in Cpa3-Cre; Mcl-1 ^{fl/fl} mice. <i>Blood</i> , 2011 , 118, 6930-8	2.2	145
96	Expression of Functional TrkA Receptor Tyrosine Kinase in the HMC-1 Human Mast Cell Line and in Human Mast Cells. <i>Blood</i> , 1997 , 90, 1807-1820	2.2	135
95	The rat c-kit ligand, stem cell factor, induces c-kit receptor-dependent mouse mast cell activation in vivo. Evidence that signaling through the c-kit receptor can induce expression of cellular function. <i>Journal of Experimental Medicine</i> , 1992 , 175, 245-55	16.6	126
94	A beneficial role for immunoglobulin E in host defense against honeybee venom. <i>Immunity</i> , 2013 , 39, 963-75	32.3	121
93	Mast cell-derived TNF can exacerbate mortality during severe bacterial infections in C57BL/6-Kit ^{W-sh/W-sh} mice. <i>American Journal of Pathology</i> , 2010 , 176, 926-38	5.8	116
92	Mast cells: potential positive and negative roles in tumor biology. <i>Cancer Immunology Research</i> , 2013 , 1, 269-79	12.5	113
91	Multiple elements of the allergic arm of the immune response modulate autoimmune demyelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1867-72	11.5	113

90	Mast cell chymase reduces the toxicity of Gila monster venom, scorpion venom, and vasoactive intestinal polypeptide in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 4180-91	15.9	109
89	Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study. <i>Lancet, The</i> , 2019 , 394, 1437-1449	40	106
88	Neurotensin increases mortality and mast cells reduce neurotensin levels in a mouse model of sepsis. <i>Nature Medicine</i> , 2008 , 14, 392-8	50.5	104
87	IgE and mast cells in host defense against parasites and venoms. <i>Seminars in Immunopathology</i> , 2016 , 38, 581-603	12	103
86	Differential Release of Mast Cell Interleukin-6 Via c-kit. <i>Blood</i> , 1997 , 89, 2654-2663	2.2	99
85	Regulation of mouse and human mast cell development, survival and function by stem cell factor, the ligand for the c-kit receptor. <i>International Archives of Allergy and Immunology</i> , 1995 , 107, 51-3	3.7	98
84	House dust mites activate nociceptor-mast cell clusters to drive type 2 skin inflammation. <i>Nature Immunology</i> , 2019 , 20, 1435-1443	19.1	98
83	Evidence questioning cromolyn [®] effectiveness and selectivity as a mast cell stabilizer in mice. <i>Laboratory Investigation</i> , 2012 , 92, 1472-82	5.9	95
82	Identification of an IFN- γ /mast cell axis in a mouse model of chronic asthma. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3133-43	15.9	95
81	Effector and potential immunoregulatory roles of mast cells in IgE-associated acquired immune responses. <i>Current Opinion in Immunology</i> , 2006 , 18, 751-60	7.8	91
80	TNF can contribute to multiple features of ovalbumin-induced allergic inflammation of the airways in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2007 , 119, 680-6	11.5	88
79	Activation of MAP kinases, pp90 ^{rsk} and pp70-S6 kinases in mouse mast cells by signaling through the c-kit receptor tyrosine kinase or Fc epsilon RI: rapamycin inhibits activation of pp70-S6 kinase and proliferation in mouse mast cells. <i>European Journal of Immunology</i> , 1993 , 23, 3286-91	6.1	83
78	In vivo immunological function of mast cells derived from embryonic stem cells: an approach for the rapid analysis of even embryonic lethal mutations in adult mice in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9186-90	11.5	81
77	The chymase mouse mast cell protease 4 degrades TNF, limits inflammation, and promotes survival in a model of sepsis. <i>American Journal of Pathology</i> , 2012 , 181, 875-86	5.8	78
76	Mast cell-derived tumor necrosis factor can promote nerve fiber elongation in the skin during contact hypersensitivity in mice. <i>American Journal of Pathology</i> , 2006 , 169, 1713-21	5.8	78
75	Mast cells and immunoregulation/immunomodulation. <i>Advances in Experimental Medicine and Biology</i> , 2011 , 716, 186-211	3.6	76
74	Mast cell anaphylatoxin receptor expression can enhance IgE-dependent skin inflammation in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2013 , 131, 541-8.e1-9	11.5	72
73	Selective ablation of mast cells or basophils reduces peanut-induced anaphylaxis in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2013 , 132, 881-8.e1-11	11.5	70

72	Approaches for analyzing the roles of mast cells and their proteases in vivo. <i>Advances in Immunology</i> , 2015 , 126, 45-127	5.6	69
71	Monomeric IgE enhances human mast cell chemokine production: IL-4 augments and dexamethasone suppresses the response. <i>Journal of Allergy and Clinical Immunology</i> , 2005 , 116, 1357-63 ^{11.5}		65
70	Mast Cells in Inflammation and Disease: Recent Progress and Ongoing Concerns. <i>Annual Review of Immunology</i> , 2020 , 38, 49-77	34.7	61
69	Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 139, 889-899.e11	11.5	59
68	RabGEF1 is a negative regulator of mast cell activation and skin inflammation. <i>Nature Immunology</i> , 2004 , 5, 844-52	19.1	59
67	Identification of A3 receptor- and mast cell-dependent and -independent components of adenosine-mediated airway responsiveness in mice. <i>Journal of Immunology</i> , 2003 , 171, 331-7	5.3	58
66	Rapid desensitization induces internalization of antigen-specific IgE on mouse mast cells. <i>Journal of Allergy and Clinical Immunology</i> , 2013 , 132, 922-32.e1-16	11.5	56
65	Analyzing mast cell development and function using mice carrying mutations at W/c-kit or Sl/MGF (SCF) loci. <i>Annals of the New York Academy of Sciences</i> , 1992 , 664, 69-88	6.5	53
64	Basophil CD203c levels are increased at baseline and can be used to monitor omalizumab treatment in subjects with nut allergy. <i>International Archives of Allergy and Immunology</i> , 2011 , 154, 318-27 ²⁷		52
63	Using mast cell knock-in mice to analyze the roles of mast cells in allergic responses in vivo. <i>Chemical Immunology and Allergy</i> , 2005 , 87, 179-197		49
62	IL-3 is required for increases in blood basophils in nematode infection in mice and can enhance IgE-dependent IL-4 production by basophils in vitro. <i>Laboratory Investigation</i> , 2008 , 88, 1134-42	5.9	47
61	Mast cells and IgE in defense against venoms: Possible "good side" of allergy?. <i>Allergology International</i> , 2016 , 65, 3-15	4.4	47
60	Origins and clonal convergence of gastrointestinal IgE B cells in human peanut allergy. <i>Science Immunology</i> , 2020 , 5,	28	45
59	Contribution of mast cell-derived interleukin-1 β to uric acid crystal-induced acute arthritis in mice. <i>Arthritis and Rheumatology</i> , 2014 , 66, 2881-91	9.5	45
58	Transcriptional response of human mast cells stimulated via the Fc(epsilon)RI and identification of mast cells as a source of IL-11. <i>BMC Immunology</i> , 2002 , 3, 5	3.7	45
57	Mast cells derived from embryonic stem cells: a model system for studying the effects of genetic manipulations on mast cell development, phenotype, and function in vitro and in vivo. <i>International Journal of Hematology</i> , 2002 , 75, 345-9	2.3	45
56	Evidence that meningeal mast cells can worsen stroke pathology in mice. <i>American Journal of Pathology</i> , 2014 , 184, 2493-504	5.8	43
55	Sustained successful peanut oral immunotherapy associated with low basophil activation and peanut-specific IgE. <i>Journal of Allergy and Clinical Immunology</i> , 2020 , 145, 885-896.e6	11.5	43

54	Severe anaphylactic reactions to glutamic acid decarboxylase (GAD) self peptides in NOD mice that spontaneously develop autoimmune type 1 diabetes mellitus. <i>BMC Immunology</i> , 2003 , 4, 2	3.7	42
53	IgE antibodies, Fc ϵ RI β and IgE-mediated local anaphylaxis can limit snake venom toxicity. <i>Journal of Allergy and Clinical Immunology</i> , 2016 , 137, 246-257.e11	11.5	41
52	Evidence that mast cells are not required for healing of splinted cutaneous excisional wounds in mice. <i>PLoS ONE</i> , 2013 , 8, e59167	3.7	36
51	Analyzing the roles of mast cells and basophils in host defense and other biological responses. <i>International Journal of Hematology</i> , 2002 , 75, 363-9	2.3	36
50	Imaging protective mast cells in living mice during severe contact hypersensitivity. <i>JCI Insight</i> , 2017 , 2,	9.9	35
49	RabGEF1 regulates stem cell factor/c-Kit-mediated signaling events and biological responses in mast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2659-64	11.5	32
48	Distinct patterns of early response gene expression and proliferation in mouse mast cells stimulated by stem cell factor, interleukin-3, or IgE and antigen. <i>European Journal of Immunology</i> , 1993 , 23, 867-72	6.1	32
47	Roles of RabGEF1/Rabex-5 domains in regulating Fc epsilon RI surface expression and Fc epsilon RI-dependent responses in mast cells. <i>Blood</i> , 2007 , 109, 5308-17	2.2	30
46	Basophil-derived tumor necrosis factor can enhance survival in a sepsis model in mice. <i>Nature Immunology</i> , 2019 , 20, 129-140	19.1	28
45	Baseline Gastrointestinal Eosinophilia Is Common in Oral Immunotherapy Subjects With IgE-Mediated Peanut Allergy. <i>Frontiers in Immunology</i> , 2018 , 9, 2624	8.4	28
44	Assessment of Allergic and Anaphylactic Reactions to mRNA COVID-19 Vaccines With Confirmatory Testing in a US Regional Health System. <i>JAMA Network Open</i> , 2021 , 4, e2125524	10.4	27
43	Testing the Rixin hypothesis of allergy β mast cells, IgE, and innate and acquired immune responses to venoms. <i>Current Opinion in Immunology</i> , 2015 , 36, 80-7	7.8	25
42	Pathways of immediate hypothermia and leukocyte infiltration in an adjuvant-free mouse model of anaphylaxis. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 139, 584-596.e10	11.5	25
41	MPLA shows attenuated pro-inflammatory properties and diminished capacity to activate mast cells in comparison with LPS. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015 , 70, 1259-68	9.3	25
40	A role for Bax in the regulation of apoptosis in mouse mast cells. <i>Journal of Investigative Dermatology</i> , 2000 , 114, 1205-6	4.3	24
39	Gastrointestinal Eosinophil Responses in a Longitudinal, Randomized Trial of Peanut Oral Immunotherapy. <i>Clinical Gastroenterology and Hepatology</i> , 2021 , 19, 1151-1159.e14	6.9	21
38	A TNFRSF14-Fc ϵ RI-mast cell pathway contributes to development of multiple features of asthma pathology in mice. <i>Nature Communications</i> , 2016 , 7, 13696	17.4	21
37	Basophil activation test shows high accuracy in the diagnosis of peanut and tree nut allergy: The Markers of Nut Allergy Study. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 1808-1812 ¹⁵	8.3	15

36	A new fluorescent-avidin-based method for quantifying basophil activation in whole blood. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 1202-1206.e3	11.5	14
35	Thirdhand smoke component can exacerbate a mouse asthma model through mast cells. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 142, 1618-1627.e9	11.5	14
34	Analyzing the Functions of Mast Cells In Vivo Using RMast Cell Knock-inRMice. <i>Journal of Visualized Experiments</i> , 2015 , e52753	1.6	13
33	Mast Cells and IgE can Enhance Survival During Innate and Acquired Host Responses to Venoms. <i>Transactions of the American Clinical and Climatological Association</i> , 2017 , 128, 193-221	0.9	12
32	Evidence that the endothelin A receptor can enhance IgE-dependent anaphylaxis in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 128, 424-6.e1	11.5	10
31	The role of recipient mast cells in acute and chronic cardiac allograft rejection in C57BL/6-KitW-sh/W-sh mice. <i>Journal of Heart and Lung Transplantation</i> , 2010 , 29, 401-9	5.8	10
30	Alterations in arachidonic acid metabolism in mouse mast cells induced to undergo maturation in vitro in response to stem cell factor. <i>Journal of Allergy and Clinical Immunology</i> , 1996 , 97, 1329-41	11.5	10
29	Targeting of Immune Cells by Dual TLR2/7 Ligands Suppresses Features of Allergic Th2 Immune Responses in Mice. <i>Journal of Immunology Research</i> , 2017 , 2017, 7983217	4.5	9
28	For better or for worse: does stem cell factor importantly regulate mast cell function in pulmonary physiology and pathology?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1994 , 11, 644-5	5.7	9
27	Guanine nucleotide exchange factor RABGEF1 regulates keratinocyte-intrinsic signaling to maintain skin homeostasis. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4497-4515	15.9	9
26	Mast cells and IgE in defense against lethality of venoms: Possible "benefit" of allergy. <i>Allergo Journal International</i> , 2020 , 29, 46-62	1.5	8
25	Regulation of Mast Cell Proliferation, Maturation and Function by Stem Cell Factor, a Ligand for the c-kit Receptor. <i>International Archives of Allergy and Immunology</i> , 1992 , 99, 234-237	3.7	8
24	The tyrosine kinase inhibitor imatinib mesylate suppresses uric acid crystal-induced acute gouty arthritis in mice. <i>PLoS ONE</i> , 2017 , 12, e0185704	3.7	8
23	E-cadherin is regulated by GATA-2 and marks the early commitment of mouse hematopoietic progenitors to the basophil and mast cell fates. <i>Science Immunology</i> , 2021 , 6,	2.8	8
22	Isotype-specific agglutination-PCR (ISAP): A sensitive and multiplex method for measuring allergen-specific IgE. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, 1901-1904.e15	11.5	7
21	The Regulation of Mast Cell and Basophil Development by the Kit Ligand, SCF, and IL-3 1999 , 11-30		7
20	RabGEF1/Rabex-5 Regulates TrkA-Mediated Neurite Outgrowth and NMDA-Induced Signaling Activation in NGF-Differentiated PC12 Cells. <i>PLoS ONE</i> , 2015 , 10, e0142935	3.7	6
19	Regulation of Mast Cell and Basophil Development by Stem Cell Factor and Interleukin-3 2000 , 3-20		6

18	Oral Immunotherapy and Basophil and Mast Cell Reactivity in Food Allergy. <i>Frontiers in Immunology</i> , 2020 , 11, 602660	8.4	6
17	Immune Sensitization in the Skin is Enhanced by Antigen-Independent Effects of IgE on Mast Cells. <i>Novartis Foundation Symposium</i> , 15-38		6
16	Microfluidic methods for precision diagnostics in food allergy. <i>Biomicrofluidics</i> , 2020 , 14, 021503	3.2	4
15	Thymic stromal lymphopoietin contributes to myeloid hyperplasia and increased immunoglobulins, but not epidermal hyperplasia, in RabGEF1-deficient mice. <i>American Journal of Pathology</i> , 2010 , 177, 2411-20	5.8	4
14	Development of multiple features of antigen-induced asthma pathology in a new strain of mast cell deficient BALB/c-Kit mice. <i>Laboratory Investigation</i> , 2020 , 100, 516-526	5.9	4
13	Mass Cytometry Phenotyping of Human Granulocytes Reveals Novel Basophil Functional Heterogeneity. <i>iScience</i> , 2020 , 23, 101724	6.1	4
12	IgE antibodies increase honeybee venom responsiveness and detoxification efficiency of mast cells. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 ,	9.3	3
11	The role of Sp140 revealed in IgE and mast cell responses in Collaborative Cross mice. <i>JCI Insight</i> , 2021 , 6,	9.9	2
10	Transcriptome programming of IL-3-dependent bone marrow-derived cultured mast cells by stem cell factor (SCF). <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 2288-2291	9.3	2
9	Mast Cells: Effector Cells of Anaphylaxis 2011 , 47-68		1
8	Roles of Mast Cells and Basophils in Innate Immunity 111-132		1
7	RabGEF1, a Negative Regulator of Ras Signalling, Mast Cell Activation and Skin Inflammation. <i>Novartis Foundation Symposium</i> , 115-130		1
6	Epithelial RABGEF1 deficiency promotes intestinal inflammation by dysregulating intrinsic MYD88-dependent innate signaling. <i>Mucosal Immunology</i> , 2020 , 13, 96-109	9.2	0
5	An optimized protocol for phenotyping human granulocytes by mass cytometry.. <i>STAR Protocols</i> , 2022 , 3, 101280	1.4	0
4	Mast cells and IgE in defense against lethality of venoms: Possible "benefit" of allergy*. <i>Allergo Journal</i> , 2020 , 29, 34-50	0	
3	FRT FONDATION RENE TOURAINE. <i>Experimental Dermatology</i> , 2015 , 24, 803-820	4	
2	RabGEF1 regulates stem cell factor/c-Kit-mediated signaling events and biological responses in mast cells. <i>FASEB Journal</i> , 2006 , 20, LB123	0.9	
1	Mast Cells 79-105		

