

Lionel B Ivashkiv

List of Publications by Citations

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129
papers

15,912
citations

62
h-index

126
g-index

154
ext. papers

19,868
ext. citations

13.2
avg, IF

7.21
L-index

#	Paper	IF	Citations
129	Macrophage activation and polarization: nomenclature and experimental guidelines. <i>Immunity</i> , 2014 , 41, 14-20	32.3	3249
128	Regulation of type I interferon responses. <i>Nature Reviews Immunology</i> , 2014 , 14, 36-49	36.5	1605
127	TNF biology, pathogenic mechanisms and emerging therapeutic strategies. <i>Nature Reviews Rheumatology</i> , 2016 , 12, 49-62	8.1	572
126	Cross-regulation of signaling pathways by interferon-gamma: implications for immune responses and autoimmune diseases. <i>Immunity</i> , 2009 , 31, 539-50	32.3	556
125	Pathologically expanded peripheral T helper cell subset drives B cells in rheumatoid arthritis. <i>Nature</i> , 2017 , 542, 110-114	50.4	455
124	IFN-gamma suppresses IL-10 production and synergizes with TLR2 by regulating GSK3 and CREB/AP-1 proteins. <i>Immunity</i> , 2006 , 24, 563-74	32.3	319
123	IFN γ signalling, epigenetics and roles in immunity, metabolism, disease and cancer immunotherapy. <i>Nature Reviews Immunology</i> , 2018 , 18, 545-558	36.5	306
122	TNF activates an IRF1-dependent autocrine loop leading to sustained expression of chemokines and STAT1-dependent type I interferon-response genes. <i>Nature Immunology</i> , 2008 , 9, 378-87	19.1	301
121	Notch-RBP-J signaling regulates the transcription factor IRF8 to promote inflammatory macrophage polarization. <i>Nature Immunology</i> , 2012 , 13, 642-50	19.1	286
120	Functionally distinct disease-associated fibroblast subsets in rheumatoid arthritis. <i>Nature Communications</i> , 2018 , 9, 789	17.4	223
119	Interferon regulatory factor-8 regulates bone metabolism by suppressing osteoclastogenesis. <i>Nature Medicine</i> , 2009 , 15, 1066-71	50.5	219
118	Epigenetic regulation of macrophage polarization and function. <i>Trends in Immunology</i> , 2013 , 34, 216-23	14.4	216
117	Role of STAT3 in type I interferon responses. Negative regulation of STAT1-dependent inflammatory gene activation. <i>Journal of Biological Chemistry</i> , 2006 , 281, 14111-8	5.4	215
116	Regulation of interferon and Toll-like receptor signaling during macrophage activation by opposing feedforward and feedback inhibition mechanisms. <i>Immunological Reviews</i> , 2008 , 226, 41-56	11.3	197
115	Crosstalk among Jak-STAT, Toll-like receptor, and ITAM-dependent pathways in macrophage activation. <i>Journal of Leukocyte Biology</i> , 2007 , 82, 237-43	6.5	197
114	Integrated regulation of Toll-like receptor responses by Notch and interferon-gamma pathways. <i>Immunity</i> , 2008 , 29, 691-703	32.3	193
113	Twist mediates suppression of inflammation by type I IFNs and Axl. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1891-901	16.6	178

112	Synergistic activation of inflammatory cytokine genes by interferon- β -induced chromatin remodeling and toll-like receptor signaling. <i>Immunity</i> , 2013 , 39, 454-69	32.3	176
111	Interferon- β regulates cellular metabolism and mRNA translation to potentiate macrophage activation. <i>Nature Immunology</i> , 2015 , 16, 838-849	19.1	175
110	Sensitization of IFN-gamma Jak-STAT signaling during macrophage activation. <i>Nature Immunology</i> , 2002 , 3, 859-66	19.1	167
109	Cross-regulation of signaling by ITAM-associated receptors. <i>Nature Immunology</i> , 2009 , 10, 340-7	19.1	166
108	Single-cell RNA-seq of rheumatoid arthritis synovial tissue using low-cost microfluidic instrumentation. <i>Nature Communications</i> , 2018 , 9, 791	17.4	163
107	Interferon target-gene expression and epigenomic signatures in health and disease. <i>Nature Immunology</i> , 2019 , 20, 1574-1583	19.1	140
106	TNF-induced osteoclastogenesis and inflammatory bone resorption are inhibited by transcription factor RBP-J. <i>Journal of Experimental Medicine</i> , 2012 , 209, 319-34	16.6	132
105	Fc γ RIII-dependent inhibition of interferon-gamma responses mediates suppressive effects of intravenous immune globulin. <i>Immunity</i> , 2007 , 26, 67-78	32.3	132
104	Type I interferons and the cytokine TNF cooperatively reprogram the macrophage epigenome to promote inflammatory activation. <i>Nature Immunology</i> , 2017 , 18, 1104-1116	19.1	128
103	Inhibition of RANK expression and osteoclastogenesis by TLRs and IFN-gamma in human osteoclast precursors. <i>Journal of Immunology</i> , 2009 , 183, 7223-33	5.3	128
102	Tumor necrosis factor induces GSK3 kinase-mediated cross-tolerance to endotoxin in macrophages. <i>Nature Immunology</i> , 2011 , 12, 607-15	19.1	122
101	Inhibition of IFN-gamma signaling by glucocorticoids. <i>Journal of Immunology</i> , 2003 , 170, 4833-9	5.3	120
100	Inflammatory signaling in macrophages: transitions from acute to tolerant and alternative activation states. <i>European Journal of Immunology</i> , 2011 , 41, 2477-81	6.1	119
99	IFN- α priming results in a gain of proinflammatory function by IL-10: implications for systemic lupus erythematosus pathogenesis. <i>Journal of Immunology</i> , 2004 , 172, 6476-81	5.3	118
98	Cytokines and STATs: how can signals achieve specificity?. <i>Immunity</i> , 1995 , 3, 1-4	32.3	118
97	Inhibition of IL-6 and IL-10 signaling and Stat activation by inflammatory and stress pathways. <i>Journal of Immunology</i> , 2000 , 165, 5227-37	5.3	114
96	iRHOM2 is a critical pathogenic mediator of inflammatory arthritis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 928-32	15.9	112
95	IFN- β abrogates endotoxin tolerance by facilitating Toll-like receptor-induced chromatin remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19438-43	11.5	111

94	Indirect inhibition of Toll-like receptor and type I interferon responses by ITAM-coupled receptors and integrins. <i>Immunity</i> , 2010 , 32, 518-30	32.3	110
93	Reprogramming of IL-10 activity and signaling by IFN-gamma. <i>Journal of Immunology</i> , 2003 , 171, 5034-41	5.3	109
92	A unique hybrid renal mononuclear phagocyte activation phenotype in murine systemic lupus erythematosus nephritis. <i>Journal of Immunology</i> , 2011 , 186, 4994-5003	5.3	108
91	Proliferative lesions and metalloproteinase activity in murine lupus nephritis mediated by type I interferons and macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3012-7	11.5	107
90	Rheumatoid arthritis synoviocyte survival is dependent on Stat3. <i>Journal of Immunology</i> , 2002 , 169, 6610-6	5.6	107
89	TNF activates calcium-nuclear factor of activated T cells (NFAT)c1 signaling pathways in human macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1573-8	11.5	104
88	Circulating human B cells that express surrogate light chains and edited receptors. <i>Nature Immunology</i> , 2000 , 1, 207-13	19.1	100
87	Signaling by STATs. <i>Arthritis Research</i> , 2004 , 6, 159-68		99
86	IL-27 activates human monocytes via STAT1 and suppresses IL-10 production but the inflammatory functions of IL-27 are abrogated by TLRs and p38. <i>Journal of Immunology</i> , 2008 , 180, 6325-33	5.3	97
85	Negative regulation of osteoclastogenesis and bone resorption by cytokines and transcriptional repressors. <i>Arthritis Research and Therapy</i> , 2011 , 13, 234	5.7	94
84	Interferon- β Represses M2 Gene Expression in Human Macrophages by Disassembling Enhancers Bound by the Transcription Factor MAF. <i>Immunity</i> , 2017 , 47, 235-250.e4	32.3	93
83	Tumor necrosis factor β induces sustained signaling and a prolonged and unremitting inflammatory response in rheumatoid arthritis synovial fibroblasts. <i>Arthritis and Rheumatism</i> , 2013 , 65, 928-38		92
82	IL-10 suppresses calcium-mediated costimulation of receptor activator NF-kappa B signaling during human osteoclast differentiation by inhibiting TREM-2 expression. <i>Journal of Immunology</i> , 2009 , 183, 2444-55	5.3	90
81	Identification of Three Rheumatoid Arthritis Disease Subtypes by Machine Learning Integration of Synovial Histologic Features and RNA Sequencing Data. <i>Arthritis and Rheumatology</i> , 2018 , 70, 690-701	9.5	83
80	Regulation of inflammatory responses in tumor necrosis factor-activated and rheumatoid arthritis synovial macrophages by JAK inhibitors. <i>Arthritis and Rheumatism</i> , 2012 , 64, 3856-66		83
79	Inhibition of osteoclastogenesis and inflammatory bone resorption by targeting BET proteins and epigenetic regulation. <i>Nature Communications</i> , 2014 , 5, 5418	17.4	78
78	Amplification of IFN-alpha-induced STAT1 activation and inflammatory function by Syk and ITAM-containing adaptors. <i>Nature Immunology</i> , 2004 , 5, 1181-9	19.1	77
77	Expression and function of semaphorin 3A and its receptors in human monocyte-derived macrophages. <i>Human Immunology</i> , 2009 , 70, 211-7	2.3	75

76	HBEGF macrophages in rheumatoid arthritis induce fibroblast invasiveness. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	73
75	Overview of the biology of type I interferons. <i>Arthritis Research and Therapy</i> , 2010 , 12 Suppl 1, S1	5.7	69
74	Modulation of TNF-induced macrophage polarization by synovial fibroblasts. <i>Journal of Immunology</i> , 2014 , 193, 2373-83	5.3	68
73	Tuning of type I interferon-induced Jak-STAT1 signaling by calcium-dependent kinases in macrophages. <i>Nature Immunology</i> , 2008 , 9, 186-93	19.1	64
72	Cytokine expression and cell activation in inflammatory arthritis. <i>Advances in Immunology</i> , 1996 , 63, 337-36	64	
71	A signal-switch hypothesis for cross-regulation of cytokine and TLR signalling pathways. <i>Nature Reviews Immunology</i> , 2008 , 8, 816-22	36.5	62
70	Wear debris inhibition of anti-osteoclastogenic signaling by interleukin-6 and interferon-gamma. Mechanistic insights and implications for periprosthetic osteolysis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006 , 88, 788-99	5.6	62
69	Inhibition of interleukin 10 signaling after Fc receptor ligation and during rheumatoid arthritis. <i>Journal of Experimental Medicine</i> , 2003 , 197, 1573-83	16.6	62
68	Inhibition of interleukin 2 signaling and signal transducer and activator of transcription (STAT)5 activation during T cell receptor-mediated feedback inhibition of T cell expansion. <i>Journal of Experimental Medicine</i> , 1999 , 190, 1263-74	16.6	62
67	Interleukin-10-induced gene expression and suppressive function are selectively modulated by the PI3K-Akt-GSK3 pathway. <i>Immunology</i> , 2011 , 132, 567-77	7.8	61
66	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. <i>Arthritis Research and Therapy</i> , 2018 , 20, 139	5.7	60
65	Suppression of TNF- α and IL-1 signaling identifies a mechanism of homeostatic regulation of macrophages by IL-27. <i>Journal of Immunology</i> , 2010 , 185, 7047-56	5.3	60
64	Regulation of age-associated B cells by IRF5 in systemic autoimmunity. <i>Nature Immunology</i> , 2018 , 19, 407-419	19.1	59
63	Suppression of the effector phase of inflammatory arthritis by double-stranded RNA is mediated by type I IFNs. <i>Journal of Immunology</i> , 2007 , 178, 2204-11	5.3	59
62	Lipopolysaccharide-induced expression of matrix metalloproteinases in human monocytes is suppressed by IFN-gamma via superinduction of ATF-3 and suppression of AP-1. <i>Journal of Immunology</i> , 2008 , 181, 5089-97	5.3	58
61	Dysregulation of interleukin-10-dependent gene expression in rheumatoid arthritis synovial macrophages. <i>Arthritis and Rheumatism</i> , 2006 , 54, 2711-21		57
60	BET bromodomain inhibition suppresses transcriptional responses to cytokine-Jak-STAT signaling in a gene-specific manner in human monocytes. <i>European Journal of Immunology</i> , 2015 , 45, 287-297	6.1	56
59	The hypoxia-lactate axis tempers inflammation. <i>Nature Reviews Immunology</i> , 2020 , 20, 85-86	36.5	55

58	IFN- γ Induces Histone 3 Lysine 27 Trimethylation in a Small Subset of Promoters to Stably Silence Gene Expression in Human Macrophages. <i>Cell Reports</i> , 2016 , 16, 3121-3129	10.6	50
57	Costimulation of chemokine receptor signaling by matrix metalloproteinase-9 mediates enhanced migration of IFN- α dendritic cells. <i>Journal of Immunology</i> , 2006 , 176, 6022-33	5.3	50
56	Regulation of macrophage phenotype by long-term exposure to IL-10. <i>Immunobiology</i> , 2005 , 210, 77-86	3.4	50
55	IFN- γ -primed macrophages exhibit increased CCR2-dependent migration and altered IFN- γ responses mediated by Stat1. <i>Journal of Immunology</i> , 2005 , 175, 3637-47	5.3	50
54	Interleukin-27 inhibits human osteoclastogenesis by abrogating RANKL-mediated induction of nuclear factor of activated T cells c1 and suppressing proximal RANK signaling. <i>Arthritis and Rheumatism</i> , 2010 , 62, 402-13		49
53	RBP-J-Regulated miR-182 Promotes TNF- α -Induced Osteoclastogenesis. <i>Journal of Immunology</i> , 2016 , 196, 4977-86	5.3	47
52	Type I interferon modulation of cellular responses to cytokines and infectious pathogens: potential role in SLE pathogenesis. <i>Autoimmunity</i> , 2003 , 36, 473-9	3	46
51	Hypoxia-Sensitive COMMD1 Integrates Signaling and Cellular Metabolism in Human Macrophages and Suppresses Osteoclastogenesis. <i>Immunity</i> , 2017 , 47, 66-79.e5	32.3	45
50	RBP-J imposes a requirement for ITAM-mediated costimulation of osteoclastogenesis. <i>Journal of Clinical Investigation</i> , 2014 , 124, 5057-73	15.9	44
49	Cutting Edge: EZH2 Promotes Osteoclastogenesis by Epigenetic Silencing of the Negative Regulator IRF8. <i>Journal of Immunology</i> , 2016 , 196, 4452-4456	5.3	44
48	The interferon signature and STAT1 expression in rheumatoid arthritis synovial fluid macrophages are induced by tumor necrosis factor α and counter-regulated by the synovial fluid microenvironment. <i>Arthritis and Rheumatism</i> , 2012 , 64, 3119-28		43
47	Type I interferon: a new player in TNF signaling. <i>Current Directions in Autoimmunity</i> , 2010 , 11, 94-104		43
46	Apoptotic cells inhibit LPS-induced cytokine and chemokine production and IFN responses in macrophages. <i>Human Immunology</i> , 2007 , 68, 156-64	2.3	43
45	Homeostatic role of interferons conferred by inhibition of IL-1-mediated inflammation and tissue destruction. <i>Journal of Immunology</i> , 2005 , 175, 131-8	5.3	43
44	Selective regulation of IL-10 signaling and function by zymosan. <i>Journal of Immunology</i> , 2006 , 176, 4785-93	9.3	40
43	Inhibition of IFN- α signaling by a PKC- and protein tyrosine phosphatase SHP-2-dependent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10267-72	11.5	40
42	The Cytokine TNF Promotes Transcription Factor SREBP Activity and Binding to Inflammatory Genes to Activate Macrophages and Limit Tissue Repair. <i>Immunity</i> , 2019 , 51, 241-257.e9	32.3	38
41	Negative regulation of osteoclast precursor differentiation by CD11b and α integrin-B-cell lymphoma 6 signaling. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 135-49	6.3	38

40	Direct inhibition of human RANK+ osteoclast precursors identifies a homeostatic function of IL-1beta. <i>Journal of Immunology</i> , 2010 , 185, 5926-34	5.3	35
39	TNF-induced inflammatory genes escape repression in fibroblast-like synoviocytes: transcriptomic and epigenomic analysis. <i>Annals of the Rheumatic Diseases</i> , 2019 , 78, 1205-1214	2.4	31
38	Kinase inhibitors: a new tool for the treatment of rheumatoid arthritis. <i>Clinical Immunology</i> , 2013 , 148, 66-78	9	28
37	RBP-J is required for M2 macrophage polarization in response to chitin and mediates expression of a subset of M2 genes. <i>Protein and Cell</i> , 2016 , 7, 201-9	7.2	27
36	IFN- β selectively suppresses a subset of TLR4-activated genes and enhancers to potentiate macrophage activation. <i>Nature Communications</i> , 2019 , 10, 3320	17.4	27
35	Kinetics of IL-10-induced gene expression in human macrophages. <i>Immunobiology</i> , 2005 , 210, 87-95	3.4	24
34	ITAM-coupled receptors inhibit IFNAR signaling and alter macrophage responses to TLR4 and Listeria monocytogenes. <i>Journal of Immunology</i> , 2012 , 188, 3447-57	5.3	22
33	Inhibition of IL-6 signaling by a p38-dependent pathway occurs in the absence of new protein synthesis. <i>Journal of Leukocyte Biology</i> , 2002 , 72, 154-62	6.5	22
32	Use of RNA sequencing to evaluate rheumatic disease patients. <i>Arthritis Research and Therapy</i> , 2015 , 17, 167	5.7	21
31	How ITAMs inhibit signaling. <i>Science Signaling</i> , 2011 , 4, pe20	8.8	21
30	Dissection and function of autoimmunity-associated TNFAIP3 (A20) gene enhancers in humanized mouse models. <i>Nature Communications</i> , 2018 , 9, 658	17.4	19
29	Feedback inhibition of osteoclastogenesis during inflammation by IL-10, M-CSF receptor shedding, and induction of IRF8. <i>Annals of the New York Academy of Sciences</i> , 2011 , 1237, 88-94	6.5	19
28	Regulation of STAT pathways and IRF1 during human dendritic cell maturation by TNF-alpha and PGE2. <i>Journal of Leukocyte Biology</i> , 2008 , 84, 1353-60	6.5	19
27	Insights into rheumatic diseases from next-generation sequencing. <i>Nature Reviews Rheumatology</i> , 2019 , 15, 327-339	8.1	16
26	Tumor Necrosis Factor dynamically regulates the mRNA stabilome in rheumatoid arthritis fibroblast-like synoviocytes. <i>PLoS ONE</i> , 2017 , 12, e0179762	3.7	16
25	Opposing regulation of the late phase TNF response by mTORC1-IL-10 signaling and hypoxia in human macrophages. <i>Scientific Reports</i> , 2016 , 6, 31959	4.9	15
24	Can SOCS make arthritis better?. <i>Journal of Clinical Investigation</i> , 2003 , 111, 795-7	15.9	14
23	Epigenetic Regulation of Myeloid Cells. <i>Microbiology Spectrum</i> , 2016 , 4,	8.9	14

22	PTPN22 in autoimmunity: different cell and different way. <i>Immunity</i> , 2013 , 39, 91-3	32.3	13
21	Intravenous Immunoglobulin (IVIg) Attenuates TNF-Induced Pathologic Bone Resorption and Suppresses Osteoclastogenesis by Inducing A20 Expression. <i>Journal of Cellular Physiology</i> , 2016 , 231, 449-458	7	11
20	Metabolic-epigenetic coupling in osteoclast differentiation. <i>Nature Medicine</i> , 2015 , 21, 212-3	50.5	10
19	MEF2C regulates osteoclastogenesis and pathologic bone resorption via c-FOS. <i>Bone Research</i> , 2021 , 9, 4	13.3	9
18	Def6 Restrains Osteoclastogenesis and Inflammatory Bone Resorption. <i>Journal of Immunology</i> , 2017 , 198, 3436-3447	5.3	8
17	The relative timing of exposure to phagocytosable particulates and to osteoclastogenic cytokines is critically important in the determination of myeloid cell fate. <i>Journal of Immunology</i> , 2010 , 185, 1265-73	5.3	8
16	STAT activation during viral infection in vivo: where's the interferon?. <i>Cell Host and Microbe</i> , 2010 , 8, 132-5	23.4	6
15	Sequencing of Circulating Microbial Cell-Free DNA Can Identify Pathogens in Periprosthetic Joint Infections. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021 , 103, 1705-1712	5.6	5
14	Crosstalk with the Jak-STAT Pathway in Inflammation 2012 , 353-370		4
13	Implication of the Association of Fibrinogen Citrullination and Osteoclastogenesis in Bone Destruction in Rheumatoid Arthritis. <i>Cells</i> , 2020 , 9,	7.9	4
12	High dimensional analyses of cells dissociated from cryopreserved synovial tissue		2
11	Immune and repair responses in joint tissues and lymph nodes after knee arthroplasty surgery in mice. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 1765-1780	6.3	2
10	Inhibition of PAD4 mediated neutrophil extracellular traps prevents fibrotic osseointegration failure in a tibial implant murine model : an animal study. <i>Bone and Joint Journal</i> , 2021 , 103-B, 135-144	5.6	2
9	Synovial fibroblasts display an uncontrolled inflammatory and tissue destructive response to TNF- α <i>Arthritis Research and Therapy</i> , 2012 , 14,	5.7	1
8	Immune Response to Persistent Staphylococcus aureus Periprosthetic Joint Infection in a Mouse Tibial Implant Model.. <i>Journal of Bone and Mineral Research</i> , 2021 ,	6.3	1
7	WEAR DEBRIS INHIBITION OF ANTI-OSTEOCLASTOGENIC SIGNALING BY INTERLEUKIN-6 AND INTERFERON- γ <i>Journal of Bone and Joint Surgery - Series A</i> , 2006 , 88, 788-799	5.6	1
6	Epigenetic Regulation of Myeloid Cells 571-590		1
5	In vitro responses to platelet-rich-plasma are associated with variable clinical outcomes in patients with knee osteoarthritis. <i>Scientific Reports</i> , 2021 , 11, 11493	4.9	1

4	Tmem100- and Acta2-Lineage Cells Contribute to Implant Osseointegration in a Mouse Model. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 1000-1011	6.3	1
3	RNA-seq Analysis of Peri-Implant Tissue Shows Differences in Immune, Notch, Wnt, and Angiogenesis Pathways in Aged Versus Young Mice. <i>JBMR Plus</i> , 2021 , 5, e10535	3.9	1
2	Computational pathology for musculoskeletal conditions using machine learning: advances, trends, and challenges.. <i>Arthritis Research and Therapy</i> , 2022 , 24, 68	5.7	0
1	Intermittent parathyroid hormone increases stability and improves osseointegration of initially unstable implants.. <i>Bone and Joint Research</i> , 2022 , 11, 260-269	4.2	