Lionel B Ivashkiv

List of Publications by Year in Descending Order

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	Computational pathology for musculoskeletal conditions using machine learning: advances, trends, and challenges.. *Arthritis Research and Therapy*, **2022**, 24, 68	5.7	0
128	Intermittent parathyroid hormone increases stability and improves osseointegration of initially unstable implants.. *Bone and Joint Research*, **2022**, 11, 260-269	4.2	
127	Immune Response to Persistent Staphyloccocus aureus Periprosthetic Joint Infection in a Mouse Tibial Implant Model.. *Journal of Bone and Mineral Research*, **2021**,	6.3	1
126	Immune and repair responses in joint tissues and lymph nodes after knee arthroplasty surgery in mice. *Journal of Bone and Mineral Research*, **2021**, 36, 1765-1780	6.3	2
125	In vitro responses to platelet-rich-plasma are associated with variable clinical outcomes in patients with knee osteoarthritis. *Scientific Reports*, **2021**, 11, 11493	4.9	1
124	Sequencing of Circulating Microbial Cell-Free DNA Can Identify Pathogens in Periprosthetic Joint Infections. *Journal of Bone and Joint Surgery - Series A*, **2021**, 103, 1705-1712	5.6	5
123	Tmem100- and Acta2-Lineage Cells Contribute to Implant Osseointegration in a Mouse Model. *Journal of Bone and Mineral Research*, **2021**, 36, 1000-1011	6.3	1
122	Inhibition of PAD4 mediated neutrophil extracellular traps prevents fibrotic osseointegration failure in a tibial implant murine model : an animal study. *Bone and Joint Journal*, **2021**, 103-B, 135-144	5.6	2
121	RNA-seq Analysis of Peri-Implant Tissue Shows Differences in Immune, Notch, Wnt, and Angiogenesis Pathways in Aged Versus Young Mice. *JBMR Plus*, **2021**, 5, e10535	3.9	1
120	MEF2C regulates osteoclastogenesis and pathologic bone resorption via c-FOS. *Bone Research*, **2021**, 9, 4	13.3	9
119	The hypoxia-lactate axis tempers inflammation. *Nature Reviews Immunology*, **2020**, 20, 85-86	36.5	55
118	Implication of the Association of Fibrinogen Citrullination and Osteoclastogenesis in Bone Destruction in Rheumatoid Arthritis. *Cells*, **2020**, 9,	7.9	4
117	HBEGF macrophages in rheumatoid arthritis induce fibroblast invasiveness. *Science Translational Medicine*, **2019**, 11,	17.5	73
116	TNF-induced inflammatory genes escape repression in fibroblast-like synoviocytes: transcriptomic and epigenomic analysis. *Annals of the Rheumatic Diseases*, **2019**, 78, 1205-1214	2.4	31
115	Insights into rheumatic diseases from next-generation sequencing. *Nature Reviews Rheumatology*, **2019**, 15, 327-339	8.1	16
114	The Cytokine TNF Promotes Transcription Factor SREBP Activity and Binding to Inflammatory Genes to Activate Macrophages and Limit Tissue Repair. *Immunity*, **2019**, 51, 241-257.e9	32.3	38
113	IFN-β selectively suppresses a subset of TLR4-activated genes and enhancers to potentiate macrophage activation. *Nature Communications*, **2019**, 10, 3320	17.4	27

112	Interferon target-gene expression and epigenomic signatures in health and disease. *Nature Immunology*, **2019**, 20, 1574-1583	19.1	140
111	Identification of Three Rheumatoid Arthritis Disease Subtypes by Machine Learning Integration of Synovial Histologic Features and RNA Sequencing Data. *Arthritis and Rheumatology*, **2018**, 70, 690-701	9.5	83
110	Single-cell RNA-seq of rheumatoid arthritis synovial tissue using low-cost microfluidic instrumentation. *Nature Communications*, **2018**, 9, 791	17.4	163
109	Functionally distinct disease-associated fibroblast subsets in rheumatoid arthritis. *Nature Communications*, **2018**, 9, 789	17.4	223
108	Regulation of age-associated B cells by IRF5 in systemic autoimmunity. *Nature Immunology*, **2018**, 19, 407-419	19.1	59
107	Dissection and function of autoimmunity-associated TNFAIP3 (A20) gene enhancers in humanized mouse models. *Nature Communications*, **2018**, 9, 658	17.4	19
106	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. *Arthritis Research and Therapy*, **2018**, 20, 139	5.7	60
105	IFN□signalling, epigenetics and roles in immunity, metabolism, disease and cancer immunotherapy. *Nature Reviews Immunology*, **2018**, 18, 545-558	36.5	306
104	Pathologically expanded peripheral T helper cell subset drives B cells in rheumatoid arthritis. *Nature*, **2017**, 542, 110-114	50.4	455
103	Def6 Restrains Osteoclastogenesis and Inflammatory Bone Resorption. *Journal of Immunology*, **2017**, 198, 3436-3447	5.3	8
102	Tumor Necrosis Factor dynamically regulates the mRNA stabilome in rheumatoid arthritis fibroblast-like synoviocytes. *PLoS ONE*, **2017**, 12, e0179762	3.7	16
101	Type I interferons and the cytokine TNF cooperatively reprogram the macrophage epigenome to promote inflammatory activation. *Nature Immunology*, **2017**, 18, 1104-1116	19.1	128
100	Hypoxia-Sensitive COMMD1 Integrates Signaling and Cellular Metabolism in Human Macrophages and Suppresses Osteoclastogenesis. *Immunity*, **2017**, 47, 66-79.e5	32.3	45
99	Interferon-□Represses M2 Gene Expression in Human Macrophages by Disassembling Enhancers Bound by the Transcription Factor MAF. *Immunity*, **2017**, 47, 235-250.e4	32.3	93
98	IFN-□Induces Histone 3 Lysine 27 Trimethylation in a Small Subset of Promoters to Stably Silence Gene Expression in Human Macrophages. *Cell Reports*, **2016**, 16, 3121-3129	10.6	50
97	Opposing regulation of the late phase TNF response by mTORC1-IL-10 signaling and hypoxia in human macrophages. *Scientific Reports*, **2016**, 6, 31959	4.9	15
96	TNF biology, pathogenic mechanisms and emerging therapeutic strategies. *Nature Reviews Rheumatology*, **2016**, 12, 49-62	8.1	572
95	RBP-J is required for M2 macrophage polarization in response to chitin and mediates expression of a subset of M2 genes. *Protein and Cell*, **2016**, 7, 201-9	7.2	27

94	Intravenous Immunoglobulin (IVIG) Attenuates TNF-Induced Pathologic Bone Resorption and Suppresses Osteoclastogenesis by Inducing A20 Expression. *Journal of Cellular Physiology*, **2016**, 231, 449-458	7	11
93	Epigenetic Regulation of Myeloid Cells. *Microbiology Spectrum*, **2016**, 4,	8.9	14
92	RBP-J-Regulated miR-182 Promotes TNF-Induced Osteoclastogenesis. *Journal of Immunology*, **2016**, 196, 4977-86	5.3	47
91	Cutting Edge: EZH2 Promotes Osteoclastogenesis by Epigenetic Silencing of the Negative Regulator IRF8. *Journal of Immunology*, **2016**, 196, 4452-4456	5.3	44
90	Metabolic-epigenetic coupling in osteoclast differentiation. *Nature Medicine*, **2015**, 21, 212-3	50.5	10
89	Interferon-regulates cellular metabolism and mRNA translation to potentiate macrophage activation. *Nature Immunology*, **2015**, 16, 838-849	19.1	175
88	BET bromodomain inhibition suppresses transcriptional responses to cytokine-Jak-STAT signaling in a gene-specific manner in human monocytes. *European Journal of Immunology*, **2015**, 45, 287-297	6.1	56
87	Use of RNA sequencing to evaluate rheumatic disease patients. *Arthritis Research and Therapy*, **2015**, 17, 167	5.7	21
86	Regulation of type I interferon responses. *Nature Reviews Immunology*, **2014**, 14, 36-49	36.5	1605
85	Inhibition of osteoclastogenesis and inflammatory bone resorption by targeting BET proteins and epigenetic regulation. *Nature Communications*, **2014**, 5, 5418	17.4	78
84	Modulation of TNF-induced macrophage polarization by synovial fibroblasts. *Journal of Immunology* , **2014**, 193, 2373-83	5.3	68
83	Macrophage activation and polarization: nomenclature and experimental guidelines. *Immunity*, **2014**, 41, 14-20	32.3	3249
82	RBP-J imposes a requirement for ITAM-mediated costimulation of osteoclastogenesis. *Journal of Clinical Investigation*, **2014**, 124, 5057-73	15.9	44
81	PTPN22 in autoimmunity: different cell and different way. *Immunity*, **2013**, 39, 91-3	32.3	13
80	Synergistic activation of inflammatory cytokine genes by interferon-induced chromatin remodeling and toll-like receptor signaling. *Immunity*, **2013**, 39, 454-69	32.3	176
79	Negative regulation of osteoclast precursor differentiation by CD11b and integrin-B-cell lymphoma 6 signaling. *Journal of Bone and Mineral Research*, **2013**, 28, 135-49	6.3	38
78	Epigenetic regulation of macrophage polarization and function. *Trends in Immunology*, **2013**, 34, 216-23	14.4	216
77	Kinase inhibitors: a new tool for the treatment of rheumatoid arthritis. *Clinical Immunology*, **2013**, 148, 66-78	9	28

76	Tumor necrosis factor induces sustained signaling and a prolonged and unremitting inflammatory response in rheumatoid arthritis synovial fibroblasts. *Arthritis and Rheumatism*, **2013**, 65, 928-38		92
75	iRHOM2 is a critical pathogenic mediator of inflammatory arthritis. *Journal of Clinical Investigation*, **2013**, 123, 928-32	15.9	112
74	ITAM-coupled receptors inhibit IFNAR signaling and alter macrophage responses to TLR4 and Listeria monocytogenes. *Journal of Immunology*, **2012**, 188, 3447-57	5.3	22
73	Regulation of inflammatory responses in tumor necrosis factor-activated and rheumatoid arthritis synovial macrophages by JAK inhibitors. *Arthritis and Rheumatism*, **2012**, 64, 3856-66		83
72	Synovial fibroblasts display an uncontrolled inflammatory and tissue destructive response to TNF- *Arthritis Research and Therapy*, **2012**, 14,	5.7	1
71	The interferon signature and STAT1 expression in rheumatoid arthritis synovial fluid macrophages are induced by tumor necrosis factor and counter-regulated by the synovial fluid microenvironment. *Arthritis and Rheumatism*, **2012**, 64, 3119-28		43
70	Crosstalk with the Jak-STAT Pathway in Inflammation **2012**, 353-370		4
69	Notch-RBP-J signaling regulates the transcription factor IRF8 to promote inflammatory macrophage polarization. *Nature Immunology*, **2012**, 13, 642-50	19.1	286
68	TNF-induced osteoclastogenesis and inflammatory bone resorption are inhibited by transcription factor RBP-J. *Journal of Experimental Medicine*, **2012**, 209, 319-34	16.6	132
67	Interleukin-10-induced gene expression and suppressive function are selectively modulated by the PI3K-Akt-GSK3 pathway. *Immunology*, **2011**, 132, 567-77	7.8	61
66	Tumor necrosis factor induces GSK3 kinase-mediated cross-tolerance to endotoxin in macrophages. *Nature Immunology*, **2011**, 12, 607-15	19.1	122
65	Feedback inhibition of osteoclastogenesis during inflammation by IL-10, M-CSF receptor shedding, and induction of IRF8. *Annals of the New York Academy of Sciences*, **2011**, 1237, 88-94	6.5	19
64	Inflammatory signaling in macrophages: transitions from acute to tolerant and alternative activation states. *European Journal of Immunology*, **2011**, 41, 2477-81	6.1	119
63	Negative regulation of osteoclastogenesis and bone resorption by cytokines and transcriptional repressors. *Arthritis Research and Therapy*, **2011**, 13, 234	5.7	94
62	How ITAMs inhibit signaling. *Science Signaling*, **2011**, 4, pe20	8.8	21
61	TNF activates calcium-nuclear factor of activated T cells (NFAT)c1 signaling pathways in human macrophages. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1573-8	11.5	104
60	A unique hybrid renal mononuclear phagocyte activation phenotype in murine systemic lupus erythematosus nephritis. *Journal of Immunology*, **2011**, 186, 4994-5003	5.3	108
59	IFN- abrogates endotoxin tolerance by facilitating Toll-like receptor-induced chromatin remodeling. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19438-43	11.5	111

58	Direct inhibition of human RANK+ osteoclast precursors identifies a homeostatic function of IL-1beta. *Journal of Immunology*, **2010**, 185, 5926-34	5.3	35
57	The relative timing of exposure to phagocytosable particulates and to osteoclastogenic cytokines is critically important in the determination of myeloid cell fate. *Journal of Immunology*, **2010**, 185, 1265-73	5.3	8
56	Suppression of TNF-and IL-1 signaling identifies a mechanism of homeostatic regulation of macrophages by IL-27. *Journal of Immunology*, **2010**, 185, 7047-56	5.3	60
55	Proliferative lesions and metalloproteinase activity in murine lupus nephritis mediated by type I interferons and macrophages. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3012-7	11.5	107
54	Type I interferon: a new player in TNF signaling. *Current Directions in Autoimmunity*, **2010**, 11, 94-104		43
53	STAT activation during viral infection in vivo: where's the interferon?. *Cell Host and Microbe*, **2010**, 8, 132-5	23.4	6
52	Overview of the biology of type I interferons. *Arthritis Research and Therapy*, **2010**, 12 Suppl 1, S1	5.7	69
51	Interleukin-27 inhibits human osteoclastogenesis by abrogating RANKL-mediated induction of nuclear factor of activated T cells c1 and suppressing proximal RANK signaling. *Arthritis and Rheumatism*, **2010**, 62, 402-13		49
50	Indirect inhibition of Toll-like receptor and type I interferon responses by ITAM-coupled receptors and integrins. *Immunity*, **2010**, 32, 518-30	32.3	110
49	IL-10 suppresses calcium-mediated costimulation of receptor activator NF-kappa B signaling during human osteoclast differentiation by inhibiting TREM-2 expression. *Journal of Immunology*, **2009**, 183, 2444-55	5.3	90
48	Inhibition of RANK expression and osteoclastogenesis by TLRs and IFN-gamma in human osteoclast precursors. *Journal of Immunology*, **2009**, 183, 7223-33	5.3	128
47	Cross-regulation of signaling by ITAM-associated receptors. *Nature Immunology*, **2009**, 10, 340-7	19.1	166
46	Interferon regulatory factor-8 regulates bone metabolism by suppressing osteoclastogenesis. *Nature Medicine*, **2009**, 15, 1066-71	50.5	219
45	Cross-regulation of signaling pathways by interferon-gamma: implications for immune responses and autoimmune diseases. *Immunity*, **2009**, 31, 539-50	32.3	556
44	Expression and function of semaphorin 3A and its receptors in human monocyte-derived macrophages. *Human Immunology*, **2009**, 70, 211-7	2.3	75
43	Tuning of type I interferon-induced Jak-STAT1 signaling by calcium-dependent kinases in macrophages. *Nature Immunology*, **2008**, 9, 186-93	19.1	64
42	TNF activates an IRF1-dependent autocrine loop leading to sustained expression of chemokines and STAT1-dependent type I interferon-response genes. *Nature Immunology*, **2008**, 9, 378-87	19.1	301
41	A signal-switch hypothesis for cross-regulation of cytokine and TLR signalling pathways. *Nature Reviews Immunology*, **2008**, 8, 816-22	36.5	62

40	Integrated regulation of Toll-like receptor responses by Notch and interferon-gamma pathways. *Immunity*, **2008**, 29, 691-703	32.3	193
39	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. *Journal of Immunology*, **2008**, 180, 6325-33	5.3	97
38	Lipopolysaccharide-induced expression of matrix metalloproteinases in human monocytes is suppressed by IFN-gamma via superinduction of ATF-3 and suppression of AP-1. *Journal of Immunology*, **2008**, 181, 5089-97	5.3	58
37	Regulation of STAT pathways and IRF1 during human dendritic cell maturation by TNF-alpha and PGE2. *Journal of Leukocyte Biology*, **2008**, 84, 1353-60	6.5	19
36	Regulation of interferon and Toll-like receptor signaling during macrophage activation by opposing feedforward and feedback inhibition mechanisms. *Immunological Reviews*, **2008**, 226, 41-56	11.3	197
35	Suppression of the effector phase of inflammatory arthritis by double-stranded RNA is mediated by type I IFNs. *Journal of Immunology*, **2007**, 178, 2204-11	5.3	59
34	Crosstalk among Jak-STAT, Toll-like receptor, and ITAM-dependent pathways in macrophage activation. *Journal of Leukocyte Biology*, **2007**, 82, 237-43	6.5	197
33	FcgammaRIII-dependent inhibition of interferon-gamma responses mediates suppressive effects of intravenous immune globulin. *Immunity*, **2007**, 26, 67-78	32.3	132
32	Apoptotic cells inhibit LPS-induced cytokine and chemokine production and IFN responses in macrophages. *Human Immunology*, **2007**, 68, 156-64	2.3	43
31	Dysregulation of interleukin-10-dependent gene expression in rheumatoid arthritis synovial macrophages. *Arthritis and Rheumatism*, **2006**, 54, 2711-21		57
30	Wear debris inhibition of anti-osteoclastogenic signaling by interleukin-6 and interferon-gamma. Mechanistic insights and implications for periprosthetic osteolysis. *Journal of Bone and Joint Surgery - Series A*, **2006**, 88, 788-99	5.6	62
29	Twist mediates suppression of inflammation by type I IFNs and Axl. *Journal of Experimental Medicine*, **2006**, 203, 1891-901	16.6	178
28	Role of STAT3 in type I interferon responses. Negative regulation of STAT1-dependent inflammatory gene activation. *Journal of Biological Chemistry*, **2006**, 281, 14111-8	5.4	215
27	Costimulation of chemokine receptor signaling by matrix metalloproteinase-9 mediates enhanced migration of IFN-alpha dendritic cells. *Journal of Immunology*, **2006**, 176, 6022-33	5.3	50
26	Selective regulation of IL-10 signaling and function by zymosan. *Journal of Immunology*, **2006**, 176, 4785-93	5.3	40
25	IFN-gamma suppresses IL-10 production and synergizes with TLR2 by regulating GSK3 and CREB/AP-1 proteins. *Immunity*, **2006**, 24, 563-74	32.3	319
24	WEAR DEBRIS INHIBITION OF ANTI-OSTEOCLASTOGENIC SIGNALING BY INTERLEUKIN-6 AND INTERFERON-*Journal of Bone and Joint Surgery - Series A*, **2006**, 88, 788-799	5.6	1
23	Homeostatic role of interferons conferred by inhibition of IL-1-mediated inflammation and tissue destruction. *Journal of Immunology*, **2005**, 175, 131-8	5.3	43

22	Regulation of macrophage phenotype by long-term exposure to IL-10. *Immunobiology*, **2005**, 210, 77-86	3.4	50
21	Kinetics of IL-10-induced gene expression in human macrophages. *Immunobiology*, **2005**, 210, 87-95	3.4	24
20	IFN-gamma-primed macrophages exhibit increased CCR2-dependent migration and altered IFN-gamma responses mediated by Stat1. *Journal of Immunology*, **2005**, 175, 3637-47	5.3	50
19	Inhibition of IFN-alpha signaling by a PKC- and protein tyrosine phosphatase SHP-2-dependent pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 10267-72	11.5	40
18	IFN-alpha priming results in a gain of proinflammatory function by IL-10: implications for systemic lupus erythematosus pathogenesis. *Journal of Immunology*, **2004**, 172, 6476-81	5.3	118
17	Amplification of IFN-alpha-induced STAT1 activation and inflammatory function by Syk and ITAM-containing adaptors. *Nature Immunology*, **2004**, 5, 1181-9	19.1	77
16	Signaling by STATs. *Arthritis Research*, **2004**, 6, 159-68		99
15	Reprogramming of IL-10 activity and signaling by IFN-gamma. *Journal of Immunology*, **2003**, 171, 5034-41	5.3	109
14	Type I interferon modulation of cellular responses to cytokines and infectious pathogens: potential role in SLE pathogenesis. *Autoimmunity*, **2003**, 36, 473-9	3	46
13	Inhibition of interleukin 10 signaling after Fc receptor ligation and during rheumatoid arthritis. *Journal of Experimental Medicine*, **2003**, 197, 1573-83	16.6	62
12	Inhibition of IFN-gamma signaling by glucocorticoids. *Journal of Immunology*, **2003**, 170, 4833-9	5.3	120
11	Can SOCS make arthritis better?. *Journal of Clinical Investigation*, **2003**, 111, 795-7	15.9	14
10	Sensitization of IFN-gamma Jak-STAT signaling during macrophage activation. *Nature Immunology*, **2002**, 3, 859-66	19.1	167
9	Rheumatoid arthritis synoviocyte survival is dependent on Stat3. *Journal of Immunology*, **2002**, 169, 6610-6	5.3	107
8	Inhibition of IL-6 signaling by a p38-dependent pathway occurs in the absence of new protein synthesis. *Journal of Leukocyte Biology*, **2002**, 72, 154-62	6.5	22
7	Circulating human B cells that express surrogate light chains and edited receptors. *Nature Immunology*, **2000**, 1, 207-13	19.1	100
6	Inhibition of IL-6 and IL-10 signaling and Stat activation by inflammatory and stress pathways. *Journal of Immunology*, **2000**, 165, 5227-37	5.3	114
5	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. *Journal of Experimental Medicine*, **1999**, 190, 1263-74	16.6	62

4	Cytokine expression and cell activation in inflammatory arthritis. *Advances in Immunology*, **1996**, 63, 337-376	3.6	64
3	Cytokines and STATs: how can signals achieve specificity?. *Immunity*, **1995**, 3, 1-4	32.3	118
2	High dimensional analyses of cells dissociated from cryopreserved synovial tissue		2
1	Epigenetic Regulation of Myeloid Cells571-590		1