

Richard J Bucala

List of Publications by Citations

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308
papers

23,633
citations

78
h-index

145
g-index

346
ext. papers

26,429
ext. citations

7.7
avg, IF

6.72
L-index

#	Paper	IF	Citations
308	Circulating Fibrocytes Define a New Leukocyte Subpopulation That Mediates Tissue Repair. <i>Molecular Medicine</i> , 1994 , 1, 71-81	6.2	1039
307	MIF as a glucocorticoid-induced modulator of cytokine production. <i>Nature</i> , 1995 , 377, 68-71	50.4	1004
306	Peripheral blood fibrocytes: differentiation pathway and migration to wound sites. <i>Journal of Immunology</i> , 2001 , 166, 7556-62	5.3	912
305	MIF is a noncognate ligand of CXC chemokine receptors in inflammatory and atherogenic cell recruitment. <i>Nature Medicine</i> , 2007 , 13, 587-96	50.5	895
304	MIF signal transduction initiated by binding to CD74. <i>Journal of Experimental Medicine</i> , 2003 , 197, 1467-76.6	16.6	789
303	Protection from septic shock by neutralization of macrophage migration inhibitory factor. <i>Nature Medicine</i> , 2000 , 6, 164-70	50.5	650
302	Macrophage migration inhibitory factor (MIF) sustains macrophage proinflammatory function by inhibiting p53: regulatory role in the innate immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 345-50	11.5	484
301	Circulating fibrocytes: collagen-secreting cells of the peripheral blood. <i>International Journal of Biochemistry and Cell Biology</i> , 2004 , 36, 598-606	5.6	450
300	CD44 is the signaling component of the macrophage migration inhibitory factor-CD74 receptor complex. <i>Immunity</i> , 2006 , 25, 595-606	32.3	440
299	An agent cleaving glucose-derived protein crosslinks in vitro and in vivo. <i>Nature</i> , 1996 , 382, 275-8	50.4	405
298	Cytokines in sepsis: potent immunoregulators and potential therapeutic targets--an updated view. <i>Mediators of Inflammation</i> , 2013 , 2013, 165974	4.3	403
297	Regulatory role for macrophage migration inhibitory factor in acute respiratory distress syndrome. <i>Nature Medicine</i> , 1997 , 3, 320-3	50.5	372
296	Purification, bioactivity, and secondary structure analysis of mouse and human macrophage migration inhibitory factor (MIF). <i>Biochemistry</i> , 1994 , 33, 14144-55	3.2	368
295	Sustained mitogen-activated protein kinase (MAPK) and cytoplasmic phospholipase A2 activation by macrophage migration inhibitory factor (MIF). Regulatory role in cell proliferation and glucocorticoid action. <i>Journal of Biological Chemistry</i> , 1999 , 274, 18100-6	5.4	350
294	Macrophage migration inhibitory factor stimulates AMP-activated protein kinase in the ischaemic heart. <i>Nature</i> , 2008 , 451, 578-82	50.4	347
293	Fibrocytes: emerging effector cells in chronic inflammation. <i>Nature Reviews Immunology</i> , 2011 , 11, 427-35.5	35.5	317
292	The Immunoregulatory Mediator Macrophage Migration Inhibitory Factor (MIF) Catalyzes a Tautomerization Reaction. <i>Molecular Medicine</i> , 1996 , 2, 143-149	6.2	286

291	Macrophage migration inhibitory factor in rheumatoid arthritis: evidence of proinflammatory function and regulation by glucocorticoids. <i>Arthritis and Rheumatism</i> , 1999 , 42, 1601-8		264
290	An Essential Role for Macrophage Migration Inhibitory Factor (MIF) in Angiogenesis and the Growth of a Murine Lymphoma. <i>Molecular Medicine</i> , 1999 , 5, 181-191	6.2	253
289	Fibrocytes induce an angiogenic phenotype in cultured endothelial cells and promote angiogenesis in vivo. <i>FASEB Journal</i> , 2001 , 15, 2215-24	0.9	224
288	The role of circulating fibrocytes in fibrosis. <i>Current Rheumatology Reports</i> , 2006 , 8, 145-50	4.9	209
287	The macrophage migration inhibitory factor-glucocorticoid dyad: regulation of inflammation and immunity. <i>Molecular Endocrinology</i> , 2007 , 21, 1267-80		199
286	Inhibition of macrophage migration inhibitory factor or its receptor (CD74) attenuates growth and invasion of DU-145 prostate cancer cells. <i>Journal of Immunology</i> , 2006 , 177, 8730-9	5.3	191
285	Fibrocytes in health and disease. <i>Experimental Hematology</i> , 2010 , 38, 548-56	3.1	182
284	Circulating monocytes from systemic sclerosis patients with interstitial lung disease show an enhanced profibrotic phenotype. <i>Laboratory Investigation</i> , 2010 , 90, 812-23	5.9	176
283	Macrophage migration inhibitory factor: a probable link between inflammation and cancer. <i>Immunity</i> , 2007 , 26, 281-5	32.3	169
282	MIF rediscovered: cytokine, pituitary hormone, and glucocorticoid-induced regulator of the immune response. <i>FASEB Journal</i> , 1996 , 10, 1607-13	0.9	169
281	Macrophage migration inhibitory factor induces B cell survival by activation of a CD74-CD44 receptor complex. <i>Journal of Biological Chemistry</i> , 2008 , 283, 2784-92	5.4	168
280	Regulated secretion of macrophage migration inhibitory factor is mediated by a non-classical pathway involving an ABC transporter. <i>FEBS Letters</i> , 2003 , 551, 78-86	3.8	163
279	Localization of Macrophage Migration Inhibitory Factor (MIF) to Secretory Granules within the Corticotrophic and Thyrotrophic Cells of the Pituitary Gland. <i>Molecular Medicine</i> , 1995 , 1, 781-788	6.2	158
278	Rapid and transient activation of the ERK MAPK signalling pathway by macrophage migration inhibitory factor (MIF) and dependence on JAB1/CSN5 and Src kinase activity. <i>Cellular Signalling</i> , 2006 , 18, 688-703	4.9	157
277	Macrophage migration inhibitory factor (MIF): a glucocorticoid counter-regulator within the immune system. <i>Critical Reviews in Immunology</i> , 1997 , 17, 77-88	1.8	146
276	IL-8 secreted in a macrophage migration-inhibitory factor- and CD74-dependent manner regulates B cell chronic lymphocytic leukemia survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13408-13	11.5	144
275	The D-dopachrome tautomerase (DDT) gene product is a cytokine and functional homolog of macrophage migration inhibitory factor (MIF). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E577-85	11.5	141
274	Inhibition of macrophage migration inhibitory factor (MIF) tautomerase and biological activities by acetaminophen metabolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 144-9	11.5	139

273	Involvement of macrophage migration inhibitory factor in the evolution of rat adjuvant arthritis. <i>Arthritis and Rheumatism</i> , 1998 , 41, 910-7		138
272	Macrophage migration inhibitory factor deficiency impairs atherosclerosis in low-density lipoprotein receptor-deficient mice. <i>Circulation</i> , 2004 , 109, 3149-53	16.7	137
271	MIF Expression in the Rat Brain: Implications for Neuronal Function. <i>Molecular Medicine</i> , 1998 , 4, 217-230.2	13.2	137
270	Expression of macrophage migration inhibitory factor in human glomerulonephritis. <i>Kidney International</i> , 2000 , 57, 499-509	9.9	134
269	Impaired macrophage migration inhibitory factor-AMP-activated protein kinase activation and ischemic recovery in the senescent heart. <i>Circulation</i> , 2010 , 122, 282-92	16.7	133
268	Macrophage migration inhibitory factor (MIF): a promising biomarker. <i>Drug News and Perspectives</i> , 2010 , 23, 257-64		132
267	Cardiac macrophage migration inhibitory factor inhibits JNK pathway activation and injury during ischemia/reperfusion. <i>Journal of Clinical Investigation</i> , 2009 , 119, 3807-16	15.9	131
266	Tumor growth-promoting properties of macrophage migration inhibitory factor (MIF). <i>Seminars in Cancer Biology</i> , 2000 , 10, 359-66	12.7	128
265	Macrophage migration inhibitory factor promotes intestinal tumorigenesis. <i>Gastroenterology</i> , 2005 , 129, 1485-503	13.3	126
264	Allosteric inhibition of macrophage migration inhibitory factor revealed by ibudilast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11313-8	11.5	123
263	Abrogation of macrophage migration inhibitory factor decreases West Nile virus lethality by limiting viral neuroinvasion. <i>Journal of Clinical Investigation</i> , 2007 , 117, 3059-66	15.9	123
262	Macrophage migration inhibitory factor contributes to the immune escape of ovarian cancer by down-regulating NKG2D. <i>Journal of Immunology</i> , 2008 , 180, 7338-48	5.3	119
261	Nephrogenic fibrosing dermopathy: suspect identified, motive unclear. <i>American Journal of Dermatopathology</i> , 2003 , 25, 358	0.9	118
260	Nephrogenic systemic fibrosis (nephrogenic fibrosing dermopathy). <i>Current Opinion in Rheumatology</i> , 2006 , 18, 614-7	5.3	116
259	Increased Levels of Advanced Glycation Endproducts in the Lenses and Blood Vessels of Cigarette Smokers. <i>Molecular Medicine</i> , 1998 , 4, 594-601	6.2	114
258	Regulation of macrophage migration inhibitory factor expression by glucocorticoids in vivo. <i>American Journal of Pathology</i> , 2003 , 162, 47-56	5.8	113
257	Tocilizumab Treatment for Cytokine Release Syndrome in Hospitalized Patients With Coronavirus Disease 2019: Survival and Clinical Outcomes. <i>Chest</i> , 2020 , 158, 1397-1408	5.3	112
256	A novel, macrophage migration inhibitory factor suicide substrate inhibits motility and growth of lung cancer cells. <i>Cancer Research</i> , 2008 , 68, 7253-7	10.1	111

255	A critical role for the host mediator macrophage migration inhibitory factor in the pathogenesis of malarial anemia. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1185-96	16.6	111
254	D-dopachrome tautomerase (D-DT or MIF-2): doubling the MIF cytokine family. <i>Cytokine</i> , 2012 , 59, 10-7	4	107
253	Role for macrophage migration inhibitory factor in acute respiratory distress syndrome. <i>Journal of Pathology</i> , 2003 , 199, 496-508	9.4	107
252	Regulation of the CTL response by macrophage migration inhibitory factor. <i>Journal of Immunology</i> , 2001 , 166, 747-53	5.3	107
251	Discovery of human macrophage migration inhibitory factor (MIF)-CD74 antagonists via virtual screening. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 416-24	8.3	106
250	A small-molecule macrophage migration inhibitory factor antagonist protects against glomerulonephritis in lupus-prone NZB/NZW F1 and MRL/lpr mice. <i>Journal of Immunology</i> , 2011 , 186, 527-38	5.3	106
249	A tautomerase-null macrophage migration-inhibitory factor (MIF) gene knock-in mouse model reveals that protein interactions and not enzymatic activity mediate MIF-dependent growth regulation. <i>Molecular and Cellular Biology</i> , 2009 , 29, 1922-32	4.8	104
248	The proinflammatory mediator macrophage migration inhibitory factor induces glucose catabolism in muscle. <i>Journal of Clinical Investigation</i> , 2000 , 106, 1291-300	15.9	103
247	Control of fibroblast-like synoviocyte proliferation by macrophage migration inhibitory factor. <i>Arthritis and Rheumatism</i> , 2003 , 48, 103-9		102
246	Macrophage migration inhibitory factor (MIF) exerts antifibrotic effects in experimental liver fibrosis via CD74. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17444-9	11.5	100
245	Activation of the JNK signalling pathway by macrophage migration inhibitory factor (MIF) and dependence on CXCR4 and CD74. <i>Cellular Signalling</i> , 2011 , 23, 135-44	4.9	98
244	Macrophage migration inhibitory factor: a regulator of glucocorticoid activity with a critical role in inflammatory disease. <i>Trends in Molecular Medicine</i> , 1997 , 3, 502-7		97
243	Reduction of the aortic inflammatory response in spontaneous atherosclerosis by blockade of macrophage migration inhibitory factor (MIF). <i>Atherosclerosis</i> , 2006 , 184, 28-38	3.1	95
242	Macrophage migration inhibitory factor promoter polymorphisms and the clinical expression of scleroderma. <i>Arthritis and Rheumatism</i> , 2006 , 54, 3661-9		94
241	The proinflammatory cytokine macrophage migration inhibitory factor regulates glucose metabolism during systemic inflammation. <i>Journal of Immunology</i> , 2007 , 179, 5399-406	5.3	94
240	The Golgi-associated protein p115 mediates the secretion of macrophage migration inhibitory factor. <i>Journal of Immunology</i> , 2009 , 182, 6896-906	5.3	93
239	Macrophage migration inhibitory factor (MIF) is a critical mediator of the innate immune response to <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2997-3006	11.5	91
238	Macrophage migration inhibitory factor and autism spectrum disorders. <i>Pediatrics</i> , 2008 , 122, e438-45	7.4	90

237	Deletion of macrophage migration inhibitory factor protects the heart from severe ischemia-reperfusion injury: a predominant role of anti-inflammation. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 991-9	5.8	88
236	Regulation of p53 by macrophage migration inhibitory factor in inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2003 , 48, 1881-9		87
235	A Leishmania ortholog of macrophage migration inhibitory factor modulates host macrophage responses. <i>Journal of Immunology</i> , 2008 , 180, 8250-61	5.3	85
234	Dual effect of the macrophage migration inhibitory factor gene on the development and severity of human systemic lupus erythematosus. <i>Arthritis and Rheumatism</i> , 2011 , 63, 3942-51		82
233	The influence of macrophage migration inhibitory factor gene polymorphisms on outcome from community-acquired pneumonia. <i>FASEB Journal</i> , 2009 , 23, 2403-11	0.9	80
232	Regulation of macrophage migration inhibitory factor by endogenous glucocorticoids in rat adjuvant-induced arthritis. <i>Arthritis and Rheumatism</i> , 2000 , 43, 827-33		80
231	Peripheral blood fibrocytes: mesenchymal precursor cells and the pathogenesis of fibrosis. <i>Current Rheumatology Reports</i> , 2000 , 2, 501-5	4.9	79
230	1677 Macrophage migration inhibitory factor (MIF) promotes clearance of pneumococcal colonization. <i>Open Forum Infectious Diseases</i> , 2014 , 1, S448-S448	1	78
229	Structural and functional characterization of a secreted hookworm Macrophage Migration Inhibitory Factor (MIF) that interacts with the human MIF receptor CD74. <i>Journal of Biological Chemistry</i> , 2007 , 282, 23447-56	5.4	78
228	GENE-26. HOST GENETIC VARIATIONS IN MACROPHAGE MIGRATION INHIBITOR FACTOR CONFER WORSE PROGNOSIS IN GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2019 , 21, vi103-vi103	1	78
227	IMMU-28. TARGETING IMMUNOSUPPRESSIVE MYELOID DERIVED SUPPRESSOR CELLS VIA MIF/CD74 SIGNALING AXIS TO ATTENUATE GBM GROWTH. <i>Neuro-Oncology</i> , 2019 , 21, vi125-vi125	1	78
226	The role of macrophage migration inhibitory factor in autoimmune liver disease. <i>Hepatology</i> , 2014 , 59, 580-91	11.2	75
225	Macrophage migration inhibitory factor promotes cell death and aggravates neurologic deficits after experimental stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 1093-106	7.3	73
224	Macrophage migration inhibitory factor and CD74 regulate macrophage chemotactic responses via MAPK and Rho GTPase. <i>Journal of Immunology</i> , 2011 , 186, 4915-24	5.3	73
223	Orthologs of macrophage migration inhibitory factor from parasitic nematodes. <i>Trends in Parasitology</i> , 2008 , 24, 355-63	6.4	73
222	Cystic fibrosis, disease severity, and a macrophage migration inhibitory factor polymorphism. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 1412-5	10.2	73
221	Circulating fibrocytes--biology and mechanisms in wound healing and scar formation. <i>International Review of Cell and Molecular Biology</i> , 2011 , 291, 1-19	6	72
220	Role of macrophage migration inhibitory factor in the regulation of the immune response. <i>Advances in Immunology</i> , 1997 , 66, 197-223	5.6	72

219	Cooperative regulation of non-small cell lung carcinoma angiogenic potential by macrophage migration inhibitory factor and its homolog, D-dopachrome tautomerase. <i>Journal of Immunology</i> , 2008 , 181, 2330-7	5.3	72
218	Macrophage migration inhibitory factor. <i>Expert Opinion on Therapeutic Targets</i> , 2003 , 7, 153-64	6.4	72
217	Macrophage migration inhibitory factor exhibits a pronounced circadian rhythm relevant to its role as a glucocorticoid counter-regulator. <i>Immunology and Cell Biology</i> , 2003 , 81, 137-43	5	72
216	Simultaneous detection of microsatellite repeats and SNPs in the macrophage migration inhibitory factor (MIF) gene by thin-film biosensor chips and application to rural field studies. <i>Nucleic Acids Research</i> , 2005 , 33, e121	20.1	71
215	Differential roles of angiogenic chemokines in endothelial progenitor cell-induced angiogenesis. <i>Basic Research in Cardiology</i> , 2013 , 108, 310	11.8	70
214	Macrophage migration inhibitory factor regulates neutrophil chemotactic responses in inflammatory arthritis in mice. <i>Arthritis and Rheumatism</i> , 2011 , 63, 960-70		70
213	Circulating fibrocytes: cellular basis for NSF. <i>Journal of the American College of Radiology</i> , 2008 , 5, 36-9	3.5	70
212	Role of semaphorin 7a signaling in transforming growth factor β -induced lung fibrosis and scleroderma-related interstitial lung disease. <i>Arthritis and Rheumatism</i> , 2011 , 63, 2484-94		68
211	Evidence for a role of macrophage migration inhibitory factor in vascular disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004 , 24, 709-14	9.4	68
210	Evolving complexity of MIF signaling. <i>Cellular Signalling</i> , 2019 , 57, 76-88	4.9	66
209	Autoimmune diseases: MIF as a therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2010 , 14, 253-64		63
208	Toll-like receptors in systemic lupus erythematosus; prospects for therapeutic intervention. <i>Autoimmunity Reviews</i> , 2009 , 8, 204-8	13.6	63
207	Macrophage migration inhibitory factor mediates the antidepressant actions of voluntary exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13094-9	11.5	63
206	MIF and D-DT are potential disease severity modifiers in male MS subjects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8421-E8429	11.5	60
205	Limiting cardiac ischemic injury by pharmacological augmentation of macrophage migration inhibitory factor-AMP-activated protein kinase signal transduction. <i>Circulation</i> , 2013 , 128, 225-36	16.7	60
204	MIF (macrophage migration inhibitory factor) promoter polymorphisms and susceptibility to severe malarial anemia. <i>Journal of Infectious Diseases</i> , 2009 , 200, 629-37	7	60
203	Tumor growth-promoting properties of macrophage migration inhibitory factor. <i>Current Pharmaceutical Design</i> , 2008 , 14, 3790-801	3.3	60
202	CD74 induces TAp63 expression leading to B-cell survival. <i>Blood</i> , 2007 , 110, 4303-11	2.2	60

201	The renin-angiotensin system contributes to renal fibrosis through regulation of fibrocytes. <i>Journal of Hypertension</i> , 2008 , 26, 780-90	1.9	58
200	Macrophage migration inhibitory factor (MIF) is critical for the host resistance against <i>Toxoplasma gondii</i> . <i>FASEB Journal</i> , 2008 , 22, 3661-71	0.9	57
199	Optimization of N-benzyl-benzoxazol-2-ones as receptor antagonists of macrophage migration inhibitory factor (MIF). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5811-4	2.9	56
198	Macrophage migration inhibitory factor deficiency augments doxorubicin-induced cardiomyopathy. <i>Journal of the American Heart Association</i> , 2013 , 2, e000439	6	55
197	A Plasmodium-encoded cytokine suppresses T-cell immunity during malaria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E2117-26	11.5	55
196	An Analysis of MIF Structural Features that Control Functional Activation of CD74. <i>Chemistry and Biology</i> , 2015 , 22, 1197-205		54
195	MIF, MIF alleles, and prospects for therapeutic intervention in autoimmunity. <i>Journal of Clinical Immunology</i> , 2013 , 33 Suppl 1, S72-8	5.7	54
194	Ribosomal protein S19 interacts with macrophage migration inhibitory factor and attenuates its pro-inflammatory function. <i>Journal of Biological Chemistry</i> , 2009 , 284, 7977-85	5.4	54
193	The immunobiology of MIF: function, genetics and prospects for precision medicine. <i>Nature Reviews Rheumatology</i> , 2019 , 15, 427-437	8.1	53
192	Therapeutic approaches to innate immunity: severe sepsis and septic shock. <i>Nature Reviews Drug Discovery</i> , 2003 , 2, 635-45	64.1	52
191	Macrophage migration inhibitory factor upregulates angiogenic factors and correlates with clinical measures in rheumatoid arthritis. <i>Journal of Rheumatology</i> , 2007 , 34, 927-36	4.1	50
190	The protective role of macrophage migration inhibitory factor in acute kidney injury after cardiac surgery. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	49
189	Differential roles of cardiac and leukocyte derived macrophage migration inhibitory factor in inflammatory responses and cardiac remodelling post myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 69, 32-42	5.8	47
188	A new class of isothiocyanate-based irreversible inhibitors of macrophage migration inhibitory factor. <i>Biochemistry</i> , 2009 , 48, 9858-70	3.2	47
187	A role for macrophage migration inhibitory factor in the neonatal respiratory distress syndrome. <i>Journal of Immunology</i> , 2008 , 180, 601-8	5.3	47
186	Pentosan Polysulfate: a Novel Glycosaminoglycan-Like Molecule for Effective Treatment of Alphavirus-Induced Cartilage Destruction and Inflammatory Disease. <i>Journal of Virology</i> , 2015 , 89, 8063-76	6.6	45
185	Interaction of MIF Family Proteins in Myocardial Ischemia/Reperfusion Damage and Their Influence on Clinical Outcome of Cardiac Surgery Patients. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 865-79	8.4	44
184	Compartmentalized protective and detrimental effects of endogenous macrophage migration-inhibitory factor mediated by CXCR2 in a mouse model of myocardial ischemia/reperfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 2180-6	9.4	44

183	c-Met and its ligand hepatocyte growth factor/scatter factor regulate mature B cell survival in a pathway induced by CD74. <i>Journal of Immunology</i> , 2010 , 185, 2020-31	5.3	44
182	A novel allosteric inhibitor of macrophage migration inhibitory factor (MIF). <i>Journal of Biological Chemistry</i> , 2012 , 287, 30653-63	5.4	44
181	The vestigial enzyme D-dopachrome tautomerase protects the heart against ischemic injury. <i>Journal of Clinical Investigation</i> , 2014 , 124, 3540-50	15.9	43
180	Berberine protects against palmitate-induced endothelial dysfunction: involvements of upregulation of AMPK and eNOS and downregulation of NOX4. <i>Mediators of Inflammation</i> , 2013 , 2013, 260464	4.3	42
179	MIF family cytokines in cardiovascular diseases and prospects for precision-based therapeutics. <i>Expert Opinion on Therapeutic Targets</i> , 2017 , 21, 671-683	6.4	41
178	Macrophage Migration Inhibitory Factor Regulates U1 Small Nuclear RNP Immune Complex-Mediated Activation of the NLRP3 Inflammasome. <i>Arthritis and Rheumatology</i> , 2019 , 71, 109-120	9.5	41
177	Targeting distinct tautomerase sites of D-DT and MIF with a single molecule for inhibition of neutrophil lung recruitment. <i>FASEB Journal</i> , 2014 , 28, 4961-71	0.9	41
176	Neutralization of the Plasmodium-encoded MIF ortholog confers protective immunity against malaria infection. <i>Nature Communications</i> , 2018 , 9, 2714	17.4	40
175	Macrophage migration inhibitory factor deficiency in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014 , 306, L487-96	5.8	40
174	The conformational flexibility of the carboxy terminal residues 105-114 is a key modulator of the catalytic activity and stability of macrophage migration inhibitory factor. <i>Biochemistry</i> , 2008 , 47, 10740-56	3.2	40
173	Macrophage Migration Inhibitory Factor Mediates Proliferative GN via CD74. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 1650-64	12.7	39
172	Macrophage Migration Inhibitory Factor Limits Renal Inflammation and Fibrosis by Counteracting Tubular Cell Cycle Arrest. <i>Journal of the American Society of Nephrology: JASN</i> , 2017 , 28, 3590-3604	12.7	38
171	Receptor agonists of macrophage migration inhibitory factor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 7033-6	2.9	38
170	Macrophage migration inhibitory factor is a neuroendocrine mediator of endotoxaemia. <i>Trends in Microbiology</i> , 1994 , 2, 198-201	12.4	38
169	Macrophage Migration Inhibitory Factor (MIF) Deficiency Exacerbates Aging-Induced Cardiac Remodeling and Dysfunction Despite Improved Inflammation: Role of Autophagy Regulation. <i>Scientific Reports</i> , 2016 , 6, 22488	4.9	38
168	Glioblastoma Myeloid-Derived Suppressor Cell Subsets Express Differential Macrophage Migration Inhibitory Factor Receptor Profiles That Can Be Targeted to Reduce Immune Suppression. <i>Frontiers in Immunology</i> , 2020 , 11, 1191	8.4	37
167	Structural and kinetic analyses of macrophage migration inhibitory factor active site interactions. <i>Biochemistry</i> , 2009 , 48, 132-9	3.2	37
166	Nephrogenic systemic fibrosis and gadolinium exposure: association and lessons for idiopathic fibrosing disorders. <i>Arthritis and Rheumatism</i> , 2007 , 56, 3173-5		37

165	Transcription factor ICBP90 regulates the MIF promoter and immune susceptibility locus. <i>Journal of Clinical Investigation</i> , 2016 , 126, 732-44	15.9	37
164	MIF allele-dependent regulation of the MIF coreceptor CD44 and role in rheumatoid arthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7917-E7926	11.5	36
163	The Tumor-Like Phenotype of Rheumatoid Synovium: Molecular Profiling and Prospects for Precision Medicine. <i>Arthritis and Rheumatology</i> , 2018 , 70, 637-652	9.5	35
162	A genetic role for macrophage migration inhibitory factor (MIF) in adult-onset Still's disease. <i>Arthritis Research and Therapy</i> , 2013 , 15, R65	5.7	35
161	MIF produced by bone marrow-derived macrophages contributes to teratoma progression after embryonic stem cell transplantation. <i>Cancer Research</i> , 2012 , 72, 2867-78	10.1	35
160	The macrophage migration inhibitory factor protein superfamily in obesity and wound repair. <i>Experimental and Molecular Medicine</i> , 2015 , 47, e161	12.8	34
159	Small molecular modulation of macrophage migration inhibitory factor in the hyperoxia-induced mouse model of bronchopulmonary dysplasia. <i>Respiratory Research</i> , 2013 , 14, 27	7.3	34
158	Macrophage migration inhibitory factor (MIF) enzymatic activity and lung cancer. <i>Molecular Medicine</i> , 2015 , 20, 729-35	6.2	34
157	MIF contributes to <i>Trypanosoma brucei</i> associated immunopathogenicity development. <i>PLoS Pathogens</i> , 2014 , 10, e1004414	7.6	34
156	Role of macrophage migration inhibitory factor in the regulatory T cell response of tumor-bearing mice. <i>Journal of Immunology</i> , 2012 , 189, 3905-13	5.3	34
155	Macrophage migration inhibitory factor is released from pituitary folliculo-stellate-like cells by endotoxin and dexamethasone and attenuates the steroid-induced inhibition of interleukin 6 release. <i>Endocrinology</i> , 2005 , 146, 35-43	4.8	34
154	CD74-Downregulation of Placental Macrophage-Trophoblastic Interactions in Preeclampsia. <i>Circulation Research</i> , 2016 , 119, 55-68	15.7	34
153	Macrophage migration inhibitory factor is required for recruitment of scar-associated macrophages during liver fibrosis. <i>Journal of Leukocyte Biology</i> , 2015 , 97, 161-9	6.5	33
152	Macrophage migration inhibitory factor (MIF) as a therapeutic target for rheumatoid arthritis and systemic lupus erythematosus. <i>Expert Opinion on Therapeutic Targets</i> , 2019 , 23, 733-744	6.4	33
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