Guenter Weiss

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7520298/publications.pdf

Version: 2024-02-01

258 papers	20,683 citations	9786 73 h-index	11939 134 g-index
266 all docs	266 docs citations	266 times ranked	25731 citing authors

#	Article	IF	Citations
1	Anemia of Chronic Disease. New England Journal of Medicine, 2005, 352, 1011-1023.	27.0	2,806
2	Macrophage defense mechanisms against intracellular bacteria. Immunological Reviews, 2015, 264, 182-203.	6.0	724
3	Anemia of inflammation. Blood, 2019, 133, 40-50.	1.4	609
4	Iron, anaemia, and inflammatory bowel diseases. Gut, 2004, 53, 1190-1197.	12.1	397
5	Cytokine-mediated regulation of iron transport in human monocytic cells. Blood, 2003, 101, 4148-4154.	1.4	370
6	Regulation of iron homeostasis in anemia of chronic disease and iron deficiency anemia: diagnostic and therapeutic implications. Blood, 2009, 113, 5277-5286.	1.4	348
7	The complex interplay of iron metabolism, reactive oxygen species, and reactive nitrogen species: Insights into the potential of various iron therapies to induce oxidative and nitrosative stress. Free Radical Biology and Medicine, 2013, 65, 1174-1194.	2.9	334
8	On-demand erythrocyte disposal and iron recycling requires transient macrophages in the liver. Nature Medicine, 2016, 22, 945-951.	30.7	333
9	The struggle for iron - a metal at the host-pathogen interface. Cellular Microbiology, 2010, 12, 1691-1702.	2.1	332
10	Cardiopulmonary recovery after COVID-19: an observational prospective multicentre trial. European Respiratory Journal, 2021, 57, 2003481.	6.7	313
11	The Role of Neopterin as a Monitor of Cellular Immune Activation in Transplantation, Inflammatory, Infectious, and Malignant Diseases. Critical Reviews in Clinical Laboratory Sciences, 1992, 29, 307-344.	6.1	284
12	Iron metabolism in the anemia of chronic disease. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 682-693.	2.4	264
13	Iron at the interface of immunity and infection. Frontiers in Pharmacology, 2014, 5, 152.	3.5	260
14	Arachidonic Acid Metabolites in Cardiovascular and Metabolic Diseases. International Journal of Molecular Sciences, 2018, 19, 3285.	4.1	259
15	Autocrine formation of hepcidin induces iron retention in human monocytes. Blood, 2008, 111, 2392-2399.	1.4	255
16	Pathogenesis and treatment of anaemia of chronic disease. Blood Reviews, 2002, 16, 87-96.	5.7	249
17	Faecal calprotectin indicates intestinal inflammation in COVID-19. Gut, 2020, 69, 1543-1544.	12.1	247
18	Lipocalin 2 Protects from Inflammation and Tumorigenesis Associated with Gut Microbiota Alterations. Cell Host and Microbe, 2016, 19, 455-469.	11.0	244

#	Article	IF	Citations
19	Hypersensitivity reactions to intravenous iron: guidance for risk minimization and management. Haematologica, 2014, 99, 1671-1676.	3.5	235
20	Iron status in patients with chronic heart failure. European Heart Journal, 2013, 34, 827-834.	2.2	212
21	Genomic epidemiology of superspreading events in Austria reveals mutational dynamics and transmission properties of SARS-CoV-2. Science Translational Medicine, 2020, 12, .	12.4	203
22	The Iron age of hostâ€“microbe interactions. EMBO Reports, 2015, 16, 1482-1500.	4.5	186
23	Iron in infection and immunity. Molecular Aspects of Medicine, 2020, 75, 100864.	6.4	184
24	The Role of Iron Regulation in Immunometabolism and Immune-Related Disease. Frontiers in Molecular Biosciences, 2019, 6, 116.	3.5	178
25	Increased Expression of CCL20 in Human Inflammatory Bowel Disease. Journal of Clinical Immunology, 2004, 24, 74-85.	3.8	174
26	The co-ordinated regulation of iron homeostasis in murine macrophages limits the availability of iron for intracellularSalmonella typhimurium. Cellular Microbiology, 2007, 9, 2126-2140.	2.1	174
27	Nitric oxideâ€“mediated regulation of ferroportin-1 controls macrophage iron homeostasis and immune function in Salmonella infection. Journal of Experimental Medicine, 2013, 210, 855-873.	8.5	174
28	The metabolite BH4 controls T cell proliferation in autoimmunity and cancer. Nature, 2018, 563, 564-568.	27.8	174
29	Erythropoietin Contrastingly Affects Bacterial Infection and Experimental Colitis by Inhibiting Nuclear Factor-ÎºB-Inducible Immune Pathways. Immunity, 2011, 34, 61-74.	14.3	167
30	Prevalence and Predictive Value of Anemia and Dysregulated Iron Homeostasis in Patients with COVID-19 Infection. Journal of Clinical Medicine, 2020, 9, 2429.	2.4	163
31	Dysregulated monocyte iron homeostasis and erythropoietin formation in patients with anemia of chronic disease. Blood, 2006, 107, 4142-4148.	1.4	159
32	Neopterin modulates toxicity mediated by reactive oxygen and chloride species. FEBS Letters, 1993, 321, 89-92.	2.8	154
33	The PIDDosome activates p53 in response to supernumerary centrosomes. Genes and Development, 2017, 31, 34-45.	5.9	153
34	Ca2+ channel blockers reverse iron overload by a new mechanism via divalent metal transporter-1. Nature Medicine, 2007, 13, 448-454.	30.7	145
35	Dietary lipids fuel GPX4-restricted enteritis resembling Crohnâ€™s disease. Nature Communications, 2020, 11, 1775.	12.8	143
36	Neopterin, a prognostic marker in human malignancies. Cancer Letters, 2010, 287, 13-22.	7.2	138

#	Article	IF	Citations
37	Interferonâ€Î³ limits the availability of iron for intramacrophage Salmonella typhimurium. European Journal of Immunology, 2008, 38, 1923-1936.	2.9	137
38	The pleiotropic effects of erythropoietin in infection and inflammation. Microbes and Infection, 2012, 14, 238-246.	1.9	136
39	â€œPumping ironâ€â€"how macrophages handle iron at the systemic, microenvironmental, and cellular levels. Pflugers Archiv European Journal of Physiology, 2017, 469, 397-418.	2.8	132
40	Association between increased iron stores and impaired endothelial function in patients with hereditary hemochromatosis. Journal of the American College of Cardiology, 2002, 40, 2189-2194.	2.8	131
41	Modification of iron regulation by the inflammatory response. Best Practice and Research in Clinical Haematology, 2005, 18, 183-201.	1.7	129
42	Modulation of neopterin formation and tryptophan degradation by Th1- and Th2-derived cytokines in human monocytic cells. Clinical and Experimental Immunology, 2001, 116, 435-440.	2.6	128
43	Hypoxia induced downregulation of hepcidin is mediated by platelet derived growth factor BB. Gut, 2014, 63, 1951-1959.	12.1	127
44	Neurological outcome and quality of life 3Âmonths after COVIDâ€19: A prospective observational cohort study. European Journal of Neurology, 2021, 28, 3348-3359.	3.3	126
45	Hypersensitivity to intravenous iron: classification, terminology, mechanisms and management. British Journal of Pharmacology, 2015, 172, 5025-5036.	5.4	124
46	Lipocalin 2 deactivates macrophages and worsens pneumococcal pneumonia outcomes. Journal of Clinical Investigation, 2013, 123, 3363-3372.	8.2	124
47	The kinase inhibitor imatinib mesylate inhibits TNF-Î± production in vitro and prevents TNF-dependent acute hepatic inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13622-13627.	7.1	121
48	Increased concentrations of neopterin in carotid atherosclerosis. Atherosclerosis, 1994, 106, 263-271.	0.8	120
49	Lipocalinâ€2 ameliorates granulocyte functionality. European Journal of Immunology, 2012, 42, 3346-3357.	2.9	116
50	Anaemia in inflammatory rheumatic diseases. Nature Reviews Rheumatology, 2013, 9, 205-215.	8.0	108
51	Iron in the Tumor Microenvironmentâ€"Connecting the Dots. Frontiers in Oncology, 2018, 8, 549.	2.8	108
52	Modulation of Cellular Iron Metabolism by Hydrogen Peroxide. Journal of Biological Chemistry, 2001, 276, 19738-19745.	3.4	107
53	Serum hepcidin concentration in chronic haemodialysis patients: associations and effects of dialysis, iron and erythropoietin therapy. European Journal of Clinical Investigation, 2009, 39, 883-890.	3.4	105
54	Pathways for the regulation of interferon-Î³-inducible genes by iron in human monocytic cells. Journal of Leukocyte Biology, 2003, 74, 287-294.	3.3	103

#	Article	IF	Citations
55	High-fat diet causes iron deficiency via hepcidin-independent reduction of duodenal iron absorption. Journal of Nutritional Biochemistry, 2012, 23, 1600-1608.	4.2	102
56	Iron deficiency or anemia of inflammation?. Wiener Medizinische Wochenschrift, 2016, 166, 411-423.	1.1	100
57	Thromboembolic complications after splenectomy for hematologic diseases. American Journal of Hematology, 2004, 76, 143-147.	4.1	96
58	Role of divalent metals in infectious disease susceptibility and outcome. Clinical Microbiology and Infection, 2018, 24, 16-23.	6.0	96
59	Effect of iron treatment on circulating cytokine levels in ESRD patients receiving recombinant human erythropoietin. Kidney International, 2003, 64, 572-578.	5.2	94
60	Inflammation-Induced Tryptophan Breakdown is Related With Anemia, Fatigue, and Depression in Cancer. Frontiers in Immunology, 2020, 11, 249.	4.8	94
61	Impact of Vitamin D Deficiency on COVID-19â€"A Prospective Analysis from the CovILD Registry. Nutrients, 2020, 12, 2775.	4.1	93
62	The Arachidonic Acid Metabolome Serves as a Conserved Regulator of Cholesterol Metabolism. Cell Metabolism, 2014, 20, 787-798.	16.2	92
63	Iron Regulatory Proteins Mediate Host Resistance to Salmonella Infection. Cell Host and Microbe, 2015, 18, 254-261.	11.0	92
64	Multicenter clinical experience of real life Dalbavancin use in gram-positive infections. International Journal of Infectious Diseases, 2019, 81, 210-214.	3.3	91
65	Slc11a1 limits intracellular growth ofSalmonella entericasv. Typhimurium by promoting macrophage immune effector functions and impairing bacterial iron acquisition. Cellular Microbiology, 2009, 11, 1365-1381.	2.1	89
66	Dual-Energy Computed Tomography Detection of Cardiovascular Monosodium Urate Deposits in Patients With Gout. JAMA Cardiology, 2019, 4, 1019.	6.1	89
67	Pronounced postprandial lipemia impairs endothelium-dependent dilation of the brachial artery in men. Cardiovascular Research, 2001, 52, 509-516.	3.8	87
68	Iron in immune cell function and host defense. Seminars in Cell and Developmental Biology, 2021, 115, 27-36.	5.0	84
69	Iron and innate antimicrobial immunityâ€"Depriving the pathogen, defending the host. Journal of Trace Elements in Medicine and Biology, 2018, 48, 118-133.	3.0	82
70	Pathogenesis and treatment of anemia in inflammatory bowel disease. Haematologica, 2010, 95, 175-178.	3.5	80
71	Anemia of Chronic Disorders: New Diagnostic Tools and New Treatment Strategies. Seminars in Hematology, 2015, 52, 313-320.	3.4	80
72	Lipocalin 2 drives neutrophilic inflammation in alcoholic liver disease. Journal of Hepatology, 2016, 64, 872-880.	3.7	80

#	Article	IF	Citations
73	Dysregulation of iron and copper homeostasis in nonalcoholic fatty liver. World Journal of Hepatology, 2014, 7, 177.	2.0	80
74	Atorvastatin suppresses interferon-Î³ -induced neopterin formation and tryptophan degradation in human peripheral blood mononuclear cells and in monocytic cell lines. Clinical and Experimental Immunology, 2003, 131, 264-267.	2.6	74
75	The Macrophage: A Cellular Factory at the Interphase Between Iron and Immunity for the Control of Infections. BioMetals, 2005, 18, 359-367.	4.1	71
76	Genetic mechanisms and modifying factors in hereditary hemochromatosis. Nature Reviews Gastroenterology and Hepatology, 2010, 7, 50-58.	17.8	71
77	Adaptation of iron transport and metabolism to acute high-altitude hypoxia in mountaineers. Hepatology, 2013, 58, 2153-2162.	7.3	71
78	T-cell subsets in schizophrenia: a comparison between drug-naive first episode patients and chronic schizophrenic patients. Schizophrenia Research, 1999, 38, 61-70.	2.0	68
79	Iron Regulates Hepatitis C Virus Translation via Stimulation of Expression of Translation Initiation Factor 3. Journal of Infectious Diseases, 2004, 190, 819-825.	4.0	68
80	Quality of life and immune activation in patients with HIV-infection. Brain, Behavior, and Immunity, 2008, 22, 881-889.	4.1	68
81	Identification of a common variant in the TFR2 gene implicated in the physiological regulation of serum iron levels. Human Molecular Genetics, 2011, 20, 1232-1240.	2.9	67
82	Growth differentiation factor 15 in anaemia of chronic disease, iron deficiency anaemia and mixed type anaemia. British Journal of Haematology, 2010, 148, 449-455.	2.5	66
83	MRI-Based Liver Iron Content Predicts for Nonrelapse Mortality in MDS and AML Patients Undergoing Allogeneic Stem Cell Transplantation. Clinical Cancer Research, 2012, 18, 6460-6468.	7.0	66
84	Severe anaemia in Zambian children with Plasmodium falciparum malaria. Tropical Medicine and International Health, 2000, 5, 9-16.	2.3	65
85	â€˜Ride on the ferrous wheelâ€™ â€“ The cycle of iron in macrophages in health and disease. Immunobiology, 2015, 220, 280-294.	1.9	65
86	Pathways for the regulation of hepcidin expression in anemia of chronic disease and iron deficiency anemia in vivo. Haematologica, 2011, 96, 1761-1769.	3.5	63
87	Slc11a1 (Nramp1) impairs growth of Salmonella enterica serovar typhimurium in macrophages via stimulation of lipocalin-2 expression. Journal of Leukocyte Biology, 2012, 92, 353-359.	3.3	63
88	Systemic inflammation as fuel for acute liver injury in COVID-19. Digestive and Liver Disease, 2021, 53, 158-165.	0.9	63
89	Hypoxia upâ€regulates the angiogenic cytokine secretoneurin via an HIFâ€1Î±â€•and basic FGFâ€dependent pathway in muscle cells. FASEB Journal, 2007, 21, 2906-2917.	0.5	62
90	SARS-CoV-2 Beta variant infection elicits potent lineage-specific and cross-reactive antibodies. Science, 2022, 375, 782-787.	12.6	60

#	Article	IF	Citations
91	Distinct Clinical and Immunologic Profiles in Severe Malarial Anemia and Cerebral Malaria in Zambia. Journal of Infectious Diseases, 2011, 203, 211-219.	4.0	58
92	Indoleamine-2, 3-Dioxygenase and Other Interferon-γ-Mediated Pathways in Patients with Human Immunodeficiency Virus Infection. Current Drug Metabolism, 2007, 8, 225-236.	1.2	56
93	Synovial immunopathology in haemochromatosis arthropathy. Annals of the Rheumatic Diseases, 2010, 69, 1214-1219.	0.9	55
94	Heme oxygenase 1 controls early innate immune response of macrophages toSalmonellaTyphimurium infection. Cellular Microbiology, 2016, 18, 1374-1389.	2.1	55
95	Dopamine promotes cellular iron accumulation and oxidative stress responses in macrophages. Biochemical Pharmacology, 2018, 148, 193-201.	4.4	55
96	Chest CT of Lung Injury 1 Year after COVID-19 Pneumonia: The CovILD Study. Radiology, 2022, 304, 462-470.	7.3	55
97	Weight loss in patients with hematological neoplasias is associated with immune system stimulation. The Clinical Investigator, 1993, 71, 37-41.	0.6	54
98	Nramp1â€functionality increases iNOS expression via repression of ILâ€10 formation. European Journal of Immunology, 2008, 38, 3060-3067.	2.9	54
99	Mechanisms of plasma nonâ€transferrin bound iron generation: insights from comparing transfused diamond blackfan anaemia with sickle cell and thalassaemia patients. British Journal of Haematology, 2014, 167, 692-696.	2.5	54
100	Lipocalinâ€2 ensures host defense against Salmonella Typhimurium by controlling macrophage iron homeostasis and immune response. European Journal of Immunology, 2015, 45, 3073-3086.	2.9	53
101	Relationship between TNF-Î± and iron metabolism in differentiating human monocytic THP-1 cells. British Journal of Haematology, 2000, 110, 978-984.	2.5	52
102	Duodenal HFE expression and hepcidin levels determine body iron homeostasis: modulation by genetic diversity and dietary iron availability. Journal of Molecular Medicine, 2004, 82, 373-382.	3.9	51
103	Kupffer cells modulate iron homeostasis in mice via regulation of hepcidin expression. Journal of Molecular Medicine, 2008, 86, 825-835.	3.9	51
104	Pathways for the regulation of body iron homeostasis in response to experimental iron overload. Journal of Hepatology, 2005, 43, 711-719.	3.7	50
105	Effects of the Aspergillus fumigatus siderophore systems on the regulation of macrophage immune effector pathways and iron homeostasis. Immunobiology, 2008, 213, 767-778.	1.9	49
106	Heme Oxygenase-1 Gene Promoter Microsatellite Polymorphism Is Associated With Progressive Atherosclerosis and Incident Cardiovascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 229-236.	2.4	49
107	Nitric oxide and the post-transcriptional control of cellular iron traffic. Trends in Cell Biology, 1994, 4, 82-86.	7.9	48
108	Evaluating the clinical utility and sensitivity of SARS-CoV-2 antigen testing in relation to RT-PCR Ct values. Infection, 2021, 49, 555-557.	4.7	48

#	Article	IF	Citations
109	Impact of iron treatment on immune effector function and cellular iron status of circulating monocytes in dialysis patients. Nephrology Dialysis Transplantation, 2011, 26, 977-987.	0.7	47
110	A hepcidin lowering agent mobilizes iron for incorporation into red blood cells in an adenine-induced kidney disease model of anemia in rats. Nephrology Dialysis Transplantation, 2013, 28, 1733-1743.	0.7	47
111	Dietary iron loading negatively affects liver mitochondrial function. Metallomics, 2017, 9, 1634-1644.	2.4	47
112	Possible role of cytokine-induced tryptophan degradation in anaemia of inflammation. European Journal of Haematology, 2004, 72, 130-134.	2.2	46
113	Regulatory networks for the control of body iron homeostasis and their dysregulation in HFE mediated hemochromatosis. Journal of Cellular Physiology, 2005, 204, 489-499.	4.1	44
114	Pitfalls in the Diagnosis and Therapy of Infections in Elderly Patients â€“ A Mini-Review. Gerontology, 2009, 55, 241-249.	2.8	44
115	Neutrophil gelatinase-associated lipocalin and interleukin-10 regulate intramacrophage Chlamydia pneumoniae replication by modulating intracellular iron homeostasis. Immunobiology, 2013, 218, 969-978.	1.9	44
116	Hepcidin as a predictive factor and therapeutic target in erythropoiesis-stimulating agent treatment for anemia of chronic disease in rats. Haematologica, 2014, 99, 1516-1524.	3.5	44
117	Monitoring of hematological, inflammatory and oxidative reactions to acute oral iron exposure in human volunteers: Preliminary screening for selection of potentially-responsive biomarkers. Toxicology, 2005, 212, 10-23.	4.2	42
118	Classical and intermediate monocytes scavenge non-transferrin-bound iron and damaged erythrocytes. JCI Insight, 2019, 4, .	5.0	42
119	The role of endocytic pathways in cellular uptake of plasma non-transferrin iron. Haematologica, 2012, 97, 670-678.	3.5	41
120	IFN-gamma mediated pathways in patients with fatigue and chronic active Epstein Barr virus-infection. Journal of Affective Disorders, 2008, 108, 171-176.	4.1	38
121	Lipocalin-2 Expressed in Innate Immune Cells Is an Endogenous Inhibitor of Inflammation in Murine Nephrotoxic Serum Nephritis. PLoS ONE, 2013, 8, e67693.	2.5	38
122	Anaemia, iron homeostasis and pulmonary hypertension: a review. Internal and Emergency Medicine, 2020, 15, 573-585.	2.0	37
123	Prolonged macrophage activation and persistent anaemia in children with complicated malaria. Tropical Medicine and International Health, 1998, 3, 60-65.	2.3	36
124	Leishmania donovani Exploits Macrophage Heme Oxygenase-1 To Neutralize Oxidative Burst and TLR Signalingâ€“Dependent Host Defense. Journal of Immunology, 2019, 202, 827-840.	0.8	36
125	Anaemia, iron status, and gender predict the outcome in patients with chronic heart failure. ESC Heart Failure, 2020, 7, 1880-1890.	3.1	36
126	Physiology and Inflammation Driven Pathophysiology of Iron Homeostasisâ€”Mechanistic Insights into Anemia of Inflammation and Its Treatment. Nutrients, 2021, 13, 3732.	4.1	36

#	Article	IF	Citations
127	Divergent modulation of Chlamydia pneumoniae infection cycle in human monocytic and endothelial cells by iron, tryptophan availability and interferon gamma. Immunobiology, 2010, 215, 842-848.	1.9	34
128	Effects of Erythropoietin on Frataxin Levels and Mitochondrial Function in Friedreich Ataxia â€“ a Doseâ€“Response Trial. Cerebellum, 2011, 10, 763-769.	2.5	34
129	Dexrazoxane (ICRF-187). General Pharmacology, 1999, 32, 155-158.	0.7	33
130	Active Human Complement Reduces the Zika Virus Load via Formation of the Membrane-Attack Complex. Frontiers in Immunology, 2018, 9, 2177.	4.8	33
131	Expansion of Neutrophils and Classical and Nonclassical Monocytes as a Hallmark in Relapsing-Remitting Multiple Sclerosis. Frontiers in Immunology, 2020, 11, 594.	4.8	33
132	Antioxidants Suppress Th1-Type Immune Response In Vitro. Drug Metabolism Letters, 2007, 1, 166-171.	0.8	32
133	Dopamine Is a Siderophore-Like Iron Chelator That Promotes Salmonella enterica Serovar Typhimurium Virulence in Mice. MBio, 2019, 10, .	4.1	32
134	The haemochromatosis gene Hfe and Kupffer cells control LDL cholesterol homeostasis and impact on atherosclerosis development. European Heart Journal, 2020, 41, 3949-3959.	2.2	32
135	Fatigue in Patients with Lung Cancer Is Related with Accelerated Tryptophan Breakdown. PLoS ONE, 2012, 7, e36956.	2.5	32
136	Metabolic Signature of Dietary Iron Overload in a Mouse Model. Cells, 2018, 7, 264.	4.1	31
137	Iron Supplementation and Mortality in Incident Dialysis Patients: An Observational Study. PLoS ONE, 2014, 9, e114144.	2.5	31
138	Long-term sequelae of HFE deletion in C57BL/6ÂÃ—Â129/O1a mice, an animal model for hereditary haemochromatosis. European Journal of Clinical Investigation, 2002, 32, 603-612.	3.4	30
139	Nifedipine Affects the Course of Salmonella enterica Serovar Typhimurium Infection by Modulating Macrophage Iron Homeostasis. Journal of Infectious Diseases, 2011, 204, 685-694.	4.0	30
140	The late endosomal adaptor p14 is a macrophage host defense factor against Salmonella Typhimurium infection. Journal of Cell Science, 2012, 125, 2698-708.	2.0	30
141	From tissue iron retention to low systemic haemoglobin levels, new pathophysiological biomarkers of human abdominal aortic aneurysm. Thrombosis and Haemostasis, 2014, 112, 87-95.	3.4	30
142	Impaired hepcidin expression in alpha-1-antitrypsin deficiency associated with iron overload and progressive liver disease. Human Molecular Genetics, 2015, 24, 6254-6263.	2.9	30
143	Fibrates ameliorate the course of bacterial sepsis by promoting neutrophil recruitment via <scp>CXCR</scp>2. EMBO Molecular Medicine, 2014, 6, 810-820.	6.9	29
144	Established and Emerging Concepts to Treat Imbalances of Iron Homeostasis in Inflammatory Diseases. Pharmaceuticals, 2018, 11, 135.	3.8	29

#	Article	IF	Citations
145	Metabolic effects of reduced growth hormone action in fatty liver disease. Hepatology International, 2018, 12, 474-481.	4.2	29
146	Rescuing ironâ€overloaded macrophages by conservative relocation of the accumulated metal. British Journal of Pharmacology, 2011, 164, 406-418.	5.4	28
147	Contrasting regulation of macrophage iron homeostasis in response to infection with Listeria monocytogenes depending on localization of bacteria. Metallomics, 2015, 7, 1036-1045.	2.4	28
148	Questions and answers on iron deficiency treatment selection and the use of intravenous iron in routine clinical practice. Annals of Medicine, 2021, 53, 274-285.	3.8	28
149	Plasma concentrations of the cardiovascular risk factor asymmetric dimethylarginine (ADMA) are increased in patients with HIV-1 infection and correlate with immune activation markers. Pharmacological Research, 2009, 60, 508-514.	7.1	27
150	Clinical Potential of C-Reactive Protein and Procalcitonin Serum Concentrations To Guide Differential Diagnosis and Clinical Management of Pneumococcal and Legionella Pneumonia. Journal of Clinical Microbiology, 2010, 48, 1915-1917.	3.9	27
151	Haptoglobin 2â€2 Genotype is Not Associated With Cardiovascular Risk in Subjects With Elevated Glycohemoglobinâ€"Results From the Bruneck Study. Journal of the American Heart Association, 2014, 3, e000732.	3.7	27
152	Targeted COVID-19 Vaccination (TAV-COVID) Considering Limited Vaccination Capacitiesâ€"An Agent-Based Modeling Evaluation. Vaccines, 2021, 9, 434.	4.4	27
153	Increase of haemoglobin levels by anti-retroviral therapy is associated with a decrease in immune activation. European Journal of Haematology, 2003, 70, 17-25.	2.2	25
154	Mass Spectrometry Analysis of Hepcidin Peptides in Experimental Mouse Models. PLoS ONE, 2011, 6, e16762.	2.5	25
155	The Role of Omega-3 Fatty Acids in the Setting of Coronary Artery Disease and COPD: A Review. Nutrients, 2018, 10, 1864.	4.1	25
156	Neopterin Predicts Disease Severity in Hospitalized Patients With COVID-19. Open Forum Infectious Diseases, 2021, 8, ofaa521.	0.9	25
157	The crucial impact of iron deficiency definition for the course of precapillary pulmonary hypertension. PLoS ONE, 2018, 13, e0203396.	2.5	24
158	Dynamics in Anemia Development and Dysregulation of Iron Homeostasis in Hospitalized Patients with COVID-19. Metabolites, 2021, 11, 653.	2.9	24
159	Inadequate hepcidin serum concentrations predict incident type 2 diabetes mellitus. Diabetes/Metabolism Research and Reviews, 2016, 32, 187-192.	4.0	23
160	Comparative evaluation of four SARS-CoV-2 antigen tests in hospitalized patients. International Journal of Infectious Diseases, 2021, 105, 144-146.	3.3	23
161	Effect of pteridine derivatives on intracellular calcium concentration in human monocytic cells. FEBS Letters, 1993, 318, 249-252.	2.8	22
162	Prognostic impact of high sensitive Troponin T in patients with influenza virus infection: A retrospective analysis. Heart and Lung: Journal of Acute and Critical Care, 2020, 49, 105-109.	1.6	22

#	Article	IF	Citations
163	A fully human anti-BMP6 antibody reduces the need for erythropoietin in rodent models of the anemia of chronic disease. Blood, 2020, 136, 1080-1090.	1.4	22
164	Unidirectional upregulation of the synthesis of the major iron proteins, transferrin-receptor and ferritin, in HepG2 cells by the acute-phase protein Î±1-antitrypsin. Journal of Hepatology, 1997, 27, 716-725.	3.7	21
165	Candidate Gene Sequencing of SLC11A2 and TMPRSS6 in a Family with Severe Anaemia: Common SNPs, Rare Haplotypes, No Causative Mutation. PLoS ONE, 2012, 7, e35015.	2.5	21
166	Correlates of serum hepcidin levels and its association with cardiovascular disease in an elderly general population. Clinical Chemistry and Laboratory Medicine, 2016, 54, 151-61.	2.3	21
167	Association of mitochondrial iron deficiency and dysfunction with idiopathic restless legs syndrome. Movement Disorders, 2019, 34, 114-123.	3.9	21
168	Low-molecular-weight heparin use in coronavirus disease 2019 is associated with curtailed viral persistence: a retrospective multicentre observational study. Cardiovascular Research, 2021, 117, 2807-2820.	3.8	21
169	The eosinophilic response and haematological recovery after treatment for Plasmodium falciparum malaria. Tropical Medicine and International Health, 1999, 4, 471-475.	2.3	20
170	Tularemia Goes West: Epidemiology of an Emerging Infection in Austria. Microorganisms, 2020, 8, 1597.	3.6	20
171	Impact of Oral Iron Challenges on Circulating Non-Transferrin-Bound Iron in Healthy Guatemalan Males. Annals of Nutrition and Metabolism, 2012, 60, 98-107.	1.9	19
172	Enhanced labile plasma iron in hematopoietic stem cell transplanted patients promotes Aspergillus outgrowth. Blood Advances, 2019, 3, 1695-1700.	5.2	19
173	Determination of renal clearance of neopterin by a pharmacokinetic approach. FEBS Letters, 1993, 329, 13-16.	2.8	18
174	The Significance of iron deficiency and anemia in a real-life COPD cohort. International Journal of Medical Sciences, 2020, 17, 2232-2239.	2.5	18
175	Impact of bacterial infections on erythropoiesis. Expert Review of Anti-Infective Therapy, 2021, 19, 1-15.	4.4	18
176	Baseline iron status and presence of anaemia determine the course of systemic Salmonella infection following oral iron supplementation in mice. EBioMedicine, 2021, 71, 103568.	6.1	18
177	Tim3 Is Upregulated and Protective in Nephrotoxic Serum Nephritis. American Journal of Pathology, 2010, 176, 1716-1724.	3.8	17
178	The maximum of the histone acetyltransferase activity precedes DNA-synthesis in regenerating rat liver. FEBS Letters, 1988, 238, 205-210.	2.8	16
179	Disturbances in iron homeostasis result in accelerated rejection after experimental heart transplantation. Journal of Heart and Lung Transplantation, 2017, 36, 732-743.	0.6	16
180	Erythroid 5-aminolevulinate synthase, ferrochelatase and DMT1 expression in erythroid progenitors: differential pathways for erythropoietin and iron-dependent regulation. British Journal of Haematology, 2002, 118, 619-626.	2.5	15

#	Article	IF	Citations
181	Iron absorption and distribution in TNFÎ”ARE/+ mice, a model of chronic inflammation. Journal of Trace Elements in Medicine and Biology, 2010, 24, 58-66.	3.0	15
182	Intestinal Irony: How Probiotic Bacteria Outcompete Bad Bugs. Cell Host and Microbe, 2013, 14, 3-4.	11.0	15
183	Cytokine-Mediated Regulation of ARG1 in Macrophages and Its Impact on the Control of Salmonella enterica Serovar Typhimurium Infection. Cells, 2021, 10, 1823.	4.1	15
184	Metallothioneins and renal ageing. Nephrology Dialysis Transplantation, 2016, 31, 1444-1452.	0.7	14
185	Assessment of neopterin and indoleamine 2,3â€dioxygenase activity in patients with seasonal influenza: A pilot study. Influenza and Other Respiratory Viruses, 2019, 13, 603-609.	3.4	14
186	Iron in health and disease. Molecular Aspects of Medicine, 2020, 75, 100906.	6.4	14
187	Type I Interferons Ameliorate Zinc Intoxication of Candida glabrata by Macrophages and Promote Fungal Immune Evasion. IScience, 2020, 23, 101121.	4.1	14
188	Increased Asymmetric Dimethylarginine Concentrations in Stimulated Peripheral Blood Mononuclear Cells. Scandinavian Journal of Immunology, 2007, 65, 525-529.	2.7	13
189	Increased hepcidin levels in high-altitude pulmonary edema. Journal of Applied Physiology, 2015, 118, 292-298.	2.5	13
190	Dietary iron supplementation: a proinflammatory attack on the intestine?. Gut, 2015, 64, 696-697.	12.1	13
191	Iron replacement therapy. Current Opinion in Gastroenterology, 2016, 32, 128-135.	2.3	13
192	Diagnostic and Prognostic Value of Inflammatory Parameters Including Neopterin in the Setting of Pneumonia, COPD, and Acute Exacerbations. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2017, 14, 298-303.	1.6	13
193	Janusâ€faced course of COVIDâ€19 infection in patients with hematological malignancies. European Journal of Haematology, 2020, 105, 502-504.	2.2	13
194	Metabolic reprogramming of Salmonella infected macrophages and its modulation by iron availability and the mTOR pathway. Microbial Cell, 2019, 6, 531-543.	3.2	13
195	New Pharmacological Concepts for the Treatment of Iron Overload Disorders. Current Medicinal Chemistry, 2009, 16, 576-590.	2.4	12
196	Asymmetric Dimethylarginine Concentrations Decrease in Patients with HIV Infection under Antiretroviral Therapy. Antiviral Therapy, 2012, 17, 1021-1027.	1.0	12
197	Immunomodulatory effects in vitro of vitamin K antagonist acenocoumarol. Thrombosis Research, 2013, 131, e264-e269.	1.7	12
198	Nutrition and infection. Clinical Microbiology and Infection, 2018, 24, 8-9.	6.0	12

#	Article	IF	Citations
199	DMT1 Protects Macrophages from Salmonella Infection by Controlling Cellular Iron Turnover and Lipocalin 2 Expression. International Journal of Molecular Sciences, 2022, 23, 6789.	4.1	12
200	Iron ERRs with Salmonella. Cell Host and Microbe, 2014, 15, 515-516.	11.0	11
201	Reduction of fluoroscopy dose for cardiac electrophysiology procedures: A feasibility and safety study. European Journal of Radiology, 2019, 110, 105-111.	2.6	11
202	The Impact of Iron Dyshomeostasis and Anaemia on Long-Term Pulmonary Recovery and Persisting Symptom Burden after COVID-19: A Prospective Observational Cohort Study. Metabolites, 2022, 12, 546.	2.9	11
203	Increased production of immune activation marker neopterin by colony-stimulating factors in gynecological cancer patients. International Journal of Cancer, 1994, 58, 20-23.	5.1	10
204	Effects of Synthetic Siderophores on Proliferation of Plasmodium falciparum in Infected Human Erythrocytes. Antimicrobial Agents and Chemotherapy, 2002, 46, 2010-2013.	3.2	10
205	Multiple Influenza Virus Infections in 4 Consecutive Epidemiological Seasons: A Retrospective Study in Children and Adolescents. Open Forum Infectious Diseases, 2019, 6, ofz195.	0.9	10
206	Neopterin is Associated with Disease Severity and Outcome in Patients with Non-Ischaemic Heart Failure. Journal of Clinical Medicine, 2019, 8, 2230.	2.4	10
207	Cystic echinococcosis in the thigh: a case report. Infection, 2019, 47, 323-329.	4.7	10
208	Iron Supplementation Interferes With Immune Therapy of Murine Mammary Carcinoma by Inhibiting Anti-Tumor T Cell Function. Frontiers in Oncology, 2020, 10, 584477.	2.8	10
209	High expression of mTOR signaling in granulomatous lesions is not predictive for the clinical course of sarcoidosis. Respiratory Medicine, 2021, 177, 106294.	2.9	10
210	Reduced iron export associated with hepcidin resistance can explain the iron overload spectrum in ferroportin disease. Liver International, 2020, 40, 1941-1951.	3.9	10
211	Replication-linked histone acetylation in rat liver tissue is sensitive to alkylating agents. FEBS Letters, 1990, 264, 141-144.	2.8	9
212	An Unusual Case of Intrauterine Symptomatic Neonatal Liver Failure. Klinische Padiatrie, 2008, 220, 32-36.	0.6	9
213	Bioavailability of zinc from NutriSet zinc tablets compared with aqueous zinc sulfate. European Journal of Clinical Nutrition, 2011, 65, 125-131.	2.9	9
214	Cibinetide dampens innate immune cell functions thus ameliorating the course of experimental colitis. Scientific Reports, 2017, 7, 13012.	3.3	9
215	Peak E contaminated L-tryptophan and immune activation. Lancet, The, 1991, 338, 511.	13.7	8
216	Short term protective effects of iron in a murine model of ischemia/reperfusion. BioMetals, 2007, 20, 205-215.	4.1	8

#	Article	IF	Citations
217	Will the COVID-19 pandemic slow down in the Northern hemisphere by the onset of summer? An epidemiological hypothesis. Infection, 2020, 48, 627-629.	4.7	8
218	Dietary Iron Overload and Hfeâˆ'/âˆ' Related Hemochromatosis Alter Hepatic Mitochondrial Function. Antioxidants, 2021, 10, 1818.	5.1	8
219	Raised nitrate concentrations in chronic heart disease. Lancet, The, 1994, 344, 960-961.	13.7	7
220	Association between plasma thiols and immune activation marker neopterin in stable coronary heart disease. Clinical Chemistry and Laboratory Medicine, 2008, 46, 648-54.	2.3	7
221	Accuracy of bedside antigen tests in the diagnosis of new influenza A/H1N1v infection. Clinical Microbiology and Infection, 2011, 17, 235-237.	6.0	7
222	Intravenous iron administration: new observations and time for the next steps. Kidney International, 2015, 87, 10-12.	5.2	7
223	Rapid antigen testing and non-infectious shedding of SARS-Cov2. Infection, 2021, 49, 789-790.	4.7	7
224	Iron in the inflammed gut: another pro-inflammatory hit?. Gut, 2011, 60, 287-288.	12.1	6
225	Novel biomarker and easy to perform ELISA for monitoring complement inhibition in patients with atypical hemolytic uremic syndrome treated with eculizumab. Journal of Immunological Methods, 2016, 435, 60-67.	1.4	6
226	Unsuspected mesenteric vein thrombosis in a patient with a hereditary bleeding disorder. Blood Coagulation and Fibrinolysis, 2003, 14, 599-600.	1.0	5
227	Newly emerging ulceroglandular tularaemia in Western Austria. Ticks and Tick-borne Diseases, 2018, 9, 1331-1333.	2.7	5
228	Immune Activation and Anemia Are Associated with Decreased Quality of Life in Patients with Solid Tumors. Journal of Clinical Medicine, 2020, 9, 3248.	2.4	5
229	COPD exacerbations are related to poor air quality in Innsbruck: A retrospective pilot study. Heart and Lung: Journal of Acute and Critical Care, 2021, 50, 499-503.	1.6	5
230	Postoperative delirium and plasma tryptophan. Lancet, The, 1991, 338, 1078.	13.7	4
231	Monitoring iron therapy in chronic heart failure. European Journal of Heart Failure, 2013, 15, 711-712.	7.1	4
232	Clinical implications of partial anomalous pulmonary venous connection: a rare cause of severe pulmonary arterial hypertension. Pulmonary Circulation, 2020, 10, 1-5.	1.7	4
233	Cell-specific expression of Hfe determines the outcome of Salmonella enterica serovar Typhimurium infection in mice. Haematologica, 2021, 106, 0-0.	3.5	4
234	Upregulation of Checkpoint Ligand Programmed Death-Ligand 1 in Patients with Paroxysmal Nocturnal Hemoglobinuria Explained by Proximal Complement Activation. Journal of Immunology, 2022, 208, 1248-1258.	0.8	4

#	Article	IF	Citations
235	Quantity of IgG response to SARS-CoV-2 spike glycoprotein predicts pulmonary recovery from COVID-19. Scientific Reports, 2022, 12, 3677.	3.3	4
236	Mitochondrial Respiration in Response to Iron Deficiency Anemia: Comparison of Peripheral Blood Mononuclear Cells and Liver. Metabolites, 2022, 12, 270.	2.9	4
237	Association between serum-soluble CD8 levels and parameters of immune activation in patients with human immunodeficiency virus infection. The Clinical Investigator, 1992, 70, 662-4.	0.6	3
238	The Growth Attainment, Hematological, Iron Status and Inflammatory Profile of Guatemalan Juvenile End-Stage Renal Disease Patients. PLoS ONE, 2015, 10, e0140062.	2.5	3
239	Calprotectin and iron match up. Nature Chemical Biology, 2015, 11, 756-757.	8.0	3
240	Cytokine-induced increase in liver serotonin. Immunology Letters, 1991, 28, 259.	2.5	2
241	The Authors Reply. Kidney International, 2015, 87, 1262.	5.2	2
242	The endogenous antiseptic N-chlorotaurine irreversibly inactivates Chlamydia pneumoniae and Chlamydia trachomatis. Journal of Medical Microbiology, 2018, 67, 1410-1415.	1.8	2
243	Nifedipine Potentiates Susceptibility of Salmonella Typhimurium to Different Classes of Antibiotics. Antibiotics, 2021, 10, 1200.	3.7	2
244	Iron caught on the shuttle. Blood, 2008, 111, 980-980.	1.4	1
245	Reproducibility of and Correspondence among Different Hepcidin Forms in Blood and Urine and Their Relationships to Iron Status in Healthy, Male Guatemalan Volunteers Observed over 9 Weeks. Annals of Nutrition and Metabolism, 2011, 58, 158-166.	1.9	1
246	37th International Winter-Workshop Clinical, Chemical and Biochemical Aspects of Pteridines and Related Topics. Pteridines, 2018, 29, 42-69.	0.5	1
247	A Fully Human Anti-BMP6 Antibody Reduces the Need for Erythropoietin Stimulating Agent in Two Rodent Anemia of Chronic Disease Models. Blood, 2018, 132, 1045-1045.	1.4	1
248	38th International Winter-Workshop Clinical, Chemical and Biochemical Aspects of Pteridines and Related Topics Innsbruck, February 26th â€“ March 1st, 2019. Pteridines, 2019, 30, 74-102.	0.5	1
249	Inflammation, iron and vitamin D metabolism in different cardiomyopathy aetiologies. Pteridines, 2020, 31, 28-37.	0.5	1
250	Homocysteine metabolism in different human cells. Pteridines, 2013, 24, 183-189.	0.5	0
251	Microbial hijacking of mammalian iron shuttling. Journal of Experimental Medicine, 2014, 211, 1009-1009.	8.5	0
252	Effect of weight loss on heme oxygenase-1 tissue expression. Diabetes and Metabolism, 2017, 43, 389-391.	2.9	0

#	Article	IF	Citations
253	Reply to Letter by Arnott et al. Journal of Infectious Diseases, 2017, 215, 659-660.	4.0	0
254	Does iron let boys grow faster?!. Haematologica, 2019, 104, 1503-1505.	3.5	0
255	EnvIRONmental Aspects in Myelodysplastic Syndrome. International Journal of Molecular Sciences, 2021, 22, 5202.	4.1	0
256	On Demand Recruitment of Macrophages Is Required for Erythroid Niche Formation during Stress Erythropoiesis in the Bone Marrow. Blood, 2018, 132, 848-848.	1.4	0
257	Disbalanced Erythroid Ferroportin Expression Contributes to Ineffective Erythroid Output in Anemia of Chronic Disease. Blood, 2019, 134, 3533-3533.	1.4	0
258	Erythropoietin and cancer - a poorly understood liaison!. Chinese Clinical Oncology, 2012, 1, 26.	1.2	0