Carlo Brugnara

List of Publications by Citations

214 papers	11,958 citations	56 h-index	106 g-index
253 ext. papers	13,207 ext. citations	7.5 avg, IF	6.01 L-index

#	Paper	IF	Citations
214	Positional cloning of zebrafish ferroportin1 identifies a conserved vertebrate iron exporter. *Nature*, **2000**, 403, 776-81	50.4	1304
213	Fetal anemia and apoptosis of red cell progenitors in Stat5a-/-5b-/- mice: a direct role for Stat5 in Bcl-X(L) induction. *Cell*, **1999**, 98, 181-91	56.2	628
212	Ineffective erythropoiesis in Stat5a(-/-)5b(-/-) mice due to decreased survival of early erythroblasts. *Blood*, **2001**, 98, 3261-73	2.2	572
211	Iron deficiency and erythropoiesis: new diagnostic approaches. *Clinical Chemistry*, **2003**, 49, 1573-8	5.5	384
210	Hemolytic anemia induced by ribavirin therapy in patients with chronic hepatitis C virus infection: role of membrane oxidative damage. *Hepatology*, **2000**, 31, 997-1004	11.2	372
209	Erythropoietin, iron, and erythropoiesis. *Blood*, **2000**, 96, 823-833	2.2	277
208	Inhibition of Ca(2+)-dependent K+ transport and cell dehydration in sickle erythrocytes by clotrimazole and other imidazole derivatives. *Journal of Clinical Investigation*, **1993**, 92, 520-6	15.9	267
207	Anion exchanger 1 (band 3) is required to prevent erythrocyte membrane surface loss but not to form the membrane skeleton. *Cell*, **1996**, 86, 917-27	56.2	241
206	Foxo3 is required for the regulation of oxidative stress in erythropoiesis. *Journal of Clinical Investigation*, **2007**, 117, 2133-44	15.9	225
205	Regulation of erythrocyte cation and water content in sickle cell anemia. *Science*, **1986**, 232, 388-90	33.3	223
204	Use of Recombinant Human Erythropoietin Outside the Setting of Uremia. *Blood*, **1997**, 89, 4248-4267	2.2	218
203	Positional cloning of the zebrafish sauternes gene: a model for congenital sideroblastic anaemia. *Nature Genetics*, **1998**, 20, 244-50	36.3	209
202	Multiple clinical forms of dehydrated hereditary stomatocytosis arise from mutations in PIEZO1. *Blood*, **2013**, 121, 3925-35, S1-12	2.2	204
201	Highly efficient therapeutic gene editing of human hematopoietic stem cells. *Nature Medicine*, **2019** , 25, 776-783	50.5	197
200	Therapy with oral clotrimazole induces inhibition of the Gardos channel and reduction of erythrocyte dehydration in patients with sickle cell disease. *Journal of Clinical Investigation*, **1996**, 97, 1227-34	15.9	179
199	5-hydroxymethyl-2-furfural modifies intracellular sickle haemoglobin and inhibits sickling of red blood cells. *British Journal of Haematology*, **2005**, 128, 552-61	4.5	176
198	cDNA cloning and functional characterization of the mouse Ca2+-gated K+ channel, mIK1. Roles in regulatory volume decrease and erythroid differentiation. *Journal of Biological Chemistry*, **1998**, 273, 21542-53	5.4	170

197	Suppression of Fas-FasL coexpression by erythropoietin mediates erythroblast expansion during the erythropoietic stress response in vivo. *Blood*, **2006**, 108, 123-33	2.2	166
196	Physiological roles of the intermediate conductance, Ca2+-activated potassium channel Kcnn4. *Journal of Biological Chemistry*, **2004**, 279, 47681-7	5.4	158
195	Reticulocyte hemoglobin content to diagnose iron deficiency in children. *JAMA - Journal of the American Medical Association*, **1999**, 281, 2225-30	27.4	158
194	ICA-17043, a novel Gardos channel blocker, prevents sickled red blood cell dehydration in vitro and in vivo in SAD mice. *Blood*, **2003**, 101, 2412-8	2.2	157
193	E2F4 is essential for normal erythrocyte maturation and neonatal viability. *Molecular Cell*, **2000**, 6, 281-91	17.6	155
192	Autosomal dominant distal renal tubular acidosis is associated in three families with heterozygosity for the R589H mutation in the AE1 (band 3) Cl-/HCO3- exchanger. *Journal of Biological Chemistry*, **1998**, 273, 6380-8	5.4	146
191	Treatment of sickle cell anemia with hydroxyurea and erythropoietin. *New England Journal of Medicine*, **1990**, 323, 366-72	59.2	146
190	Reticulocyte hemoglobin equivalent (Ret He) and assessment of iron-deficient states. *International Journal of Laboratory Hematology*, **2006**, 28, 303-8		145
189	Clotrimazole inhibits cell proliferation in vitro and in vivo. *Nature Medicine*, **1995**, 1, 534-40	50.5	134
188	Preliminary assessment of inhaled nitric oxide for acute vaso-occlusive crisis in pediatric patients with sickle cell disease. *JAMA - Journal of the American Medical Association*, **2003**, 289, 1136-42	27.4	128
187	Structural and Functional Consequences of Antigenic Modulation of Red Blood Cells With Methoxypoly(Ethylene Glycol). *Blood*, **1999**, 93, 2121-2127	2.2	115
186	Reticulocyte cellular indices: a new approach in the diagnosis of anemias and monitoring of erythropoietic function. *Critical Reviews in Clinical Laboratory Sciences*, **2000**, 37, 93-130	9.4	113
185	Screening healthy infants for iron deficiency using reticulocyte hemoglobin content. *JAMA - Journal of the American Medical Association*, **2005**, 294, 924-30	27.4	112
184	Aging-like phenotype and defective lineage specification in SIRT1-deleted hematopoietic stem and progenitor cells. *Stem Cell Reports*, **2014**, 3, 44-59	8	109
183	Failure of red blood cell maturation in mice with defects in the high-density lipoprotein receptor SR-BI. *Blood*, **2002**, 99, 1817-24	2.2	109
182	Density-based separation in multiphase systems provides a simple method to identify sickle cell disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14864-9	11.5	92
181	A dominant negative mutant of the KCC1 K-Cl cotransporter: both N- and C-terminal cytoplasmic domains are required for K-Cl cotransport activity. *Journal of Biological Chemistry*, **2001**, 276, 41870-8	5.4	87
180	Modulation of Gardos channel activity by cytokines in sickle erythrocytes. *Blood*, **2002**, 99, 357-603	2.2	84

179	Mouse K-Cl cotransporter KCC1: cloning, mapping, pathological expression, and functional regulation. *American Journal of Physiology - Cell Physiology*, **1999**, 277, C899-912	5.4	77
178	Expansion of host cellular niche can drive adaptation of a zoonotic malaria parasite to humans. *Nature Communications*, **2013**, 4, 1638	17.4	75
177	Malaria. A forward genetic screen identifies erythrocyte CD55 as essential for Plasmodium falciparum invasion. *Science*, **2015**, 348, 711-4	33.3	74
176	Variant-aware saturating mutagenesis using multiple Cas9 nucleases identifies regulatory elements at trait-associated loci. *Nature Genetics*, **2017**, 49, 625-634	36.3	73
175	Resveratrol accelerates erythroid maturation by activation of FoxO3 and ameliorates anemia in beta-thalassemic mice. *Haematologica*, **2014**, 99, 267-75	6.6	73
174	Disruption of erythroid K-Cl cotransporters alters erythrocyte volume and partially rescues erythrocyte dehydration in SAD mice. *Journal of Clinical Investigation*, **2007**, 117, 1708-17	15.9	73
173	Clinical utility of reticulocyte parameters. *Clinics in Laboratory Medicine*, **2015**, 35, 133-63	2.1	72
172	Erythrocyte density in sickle cell syndromes is associated with specific clinical manifestations and hemolysis. *Blood*, **2012**, 120, 3136-41	2.2	71
171	Efficacy of different dosing regimens for recombinant human erythropoietin in a simulated perisurgical setting: the importance of iron availability in optimizing response. *American Journal of Medicine*, **1994**, 96, 139-45	2.4	66
170	Automated reticulocyte counting and measurement of reticulocyte cellular indices. Evaluation of the Miles H*3 blood analyzer. *American Journal of Clinical Pathology*, **1994**, 102, 623-32	1.9	65
169	Mild spherocytosis and altered red cell ion transport in protein 4. 2-null mice. *Journal of Clinical Investigation*, **1999**, 103, 1527-37	15.9	65
168	Novel Gardos channel mutations linked to dehydrated hereditary stomatocytosis (xerocytosis). *American Journal of Hematology*, **2015**, 90, 921-6	7.1	63
167	Elevation of red cell sodium-lithium countertransport in hyperlipidemias. *Life Sciences*, **1985**, 36, 649-55	6.8	63
166	Red cell indices in classification and treatment of anemias: from M.M. Wintrobes's original 1934 classification to the third millennium. *Current Opinion in Hematology*, **2013**, 20, 222-30	3.3	62
165	Reticulocyte hemoglobin: an integrated parameter for evaluation of erythropoietic activity. *American Journal of Clinical Pathology*, **1997**, 108, 133-42	1.9	62
164	Serine/threonine protein phosphatases and regulation of K-Cl cotransport in human erythrocytes. *American Journal of Physiology - Cell Physiology*, **1999**, 277, C926-36	5.4	61
163	Treatment with NS3623, a novel Cl-conductance blocker, ameliorates erythrocyte dehydration in transgenic SAD mice: a possible new therapeutic approach for sickle cell disease. *Blood*, **2001**, 97, 1451-7	2.2	60
162	An algorithm using reticulocyte hemoglobin content (CHr) measurement in screening adolescents for iron deficiency. *Journal of Adolescent Health*, **2005**, 36, 529	5.8	59

161	Headpiece domain of dematin is required for the stability of the erythrocyte membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 6637-42	11.5	59
160	FOXO3-mTOR metabolic cooperation in the regulation of erythroid cell maturation and homeostasis. *American Journal of Hematology*, **2014**, 89, 954-63	7.1	58
159	Targeted Application of Human Genetic Variation Can Improve Red Blood Cell Production from Stem Cells. *Cell Stem Cell*, **2016**, 18, 73-78	18	57
158	Automated reticulocyte counting: state of the art and clinical applications in the evaluation of erythropoiesis. *Clinical Chemistry and Laboratory Medicine*, **2010**, 48, 1369-80	5.9	55
157	Missense mutations in the ABCB6 transporter cause dominant familial pseudohyperkalemia. *American Journal of Hematology*, **2013**, 88, 66-72	7.1	54
156	Mitochondrial Atpif1 regulates haem synthesis in developing erythroblasts. *Nature*, **2012**, 491, 608-12	50.4	54
155	Cellular effects of hydroxyurea in Hb SC disease. *British Journal of Haematology*, **1997**, 98, 838-44	4.5	51
154	The effect of intravenous iron on the reticulocyte response to recombinant human erythropoietin. *British Journal of Haematology*, **1997**, 98, 292-4	4.5	50
153	Sickle cell disease: from membrane pathophysiology to novel therapies for prevention of erythrocyte dehydration. *Journal of Pediatric Hematology/Oncology*, **2003**, 25, 927-33	1.2	50
152	Erythrocyte dehydration in pathophysiology and treatment of sickle cell disease. *Current Opinion in Hematology*, **1995**, 2, 132-8	3.3	49
151	Erythrocyte membrane transport physiology. *Current Opinion in Hematology*, **1997**, 4, 122-7	3.3	46
150	Iron therapy in the pediatric hemodialysis population. *Pediatric Nephrology*, **2004**, 19, 655-61	3.2	46
149	Diagnosis of iron-deficient states. *Critical Reviews in Clinical Laboratory Sciences*, **2015**, 52, 256-72	9.4	45
148	Positive Iron Balance in Chronic Kidney Disease: How Much is Too Much and How to Tell?. *American Journal of Nephrology*, **2018**, 47, 72-83	4.6	45
147	Formation of Dense Erythrocytes in SAD Mice Exposed to Chronic Hypoxia: Evaluation of Different Therapeutic Regimens and of a Combination of Oral Clotrimazole and Magnesium Therapies. *Blood*, **1999**, 94, 4307-4313	2.2	45
146	Iron balance and iron supplementation for the female athlete: A practical approach. *European Journal of Sport Science*, **2018**, 18, 295-305	3.9	44
145	Dietary Magnesium Supplementation Ameliorates Anemia in a Mouse Model of β-Thalassemia. *Blood*, **1997**, 90, 1283-1290	2.2	44
144	Endothelins activate Ca(2+)-gated K(+) channels via endothelin B receptors in CD-1 mouse erythrocytes. *American Journal of Physiology - Cell Physiology*, **1999**, 277, C746-54	5.4	44

143	Hypoxia activates a Ca2+-permeable cation conductance sensitive to carbon monoxide and to GsMTx-4 in human and mouse sickle erythrocytes. *PLoS ONE*, **2010**, 5, e8732	3.7	41
142	Dietary Ɛ fatty acids protect against vasculopathy in a transgenic mouse model of sickle cell disease. *Haematologica*, **2015**, 100, 870-80	6.6	40
141	Effect of cell age and phenylhydrazine on the cation transport properties of rabbit erythrocytes. *Journal of Cellular Physiology*, **1993**, 154, 271-80	7	40
140	In vivo reduction of erythrocyte oxidant stress in a murine model of beta-thalassemia. *Haematologica*, **2004**, 89, 1287-98	6.6	40
139	Hereditary xerocytosis revisited. *American Journal of Hematology*, **2014**, 89, 1142-6	7.1	39
138	Pathophysiological-based approaches to treatment of sickle cell disease. *Annual Review of Medicine* , **2003**, 54, 89-112	17.4	35
137	Evaluation of a density-based rapid diagnostic test for sickle cell disease in a clinical setting in Zambia. *PLoS ONE*, **2014**, 9, e114540	3.7	35
136	Activated protein C concentrate for the treatment of meningococcal endotoxin shock in rabbits. *Shock*, **1998**, 9, 138-42	3.4	34
135	Resolution of sickle cell disease-associated inflammation and tissue damage with 17-resolvin D1. *Blood*, **2019**, 133, 252-265	2.2	32
134	Optical assay of erythrocyte function in banked blood. *Scientific Reports*, **2014**, 4, 6211	4.9	31
133	Use of a preoperative bleeding questionnaire in pediatric patients who undergo adenotonsillectomy. *Otolaryngology - Head and Neck Surgery*, **2008**, 139, 546-550	5.5	31
132	A Hematologic Ɠold Standardƒ for Iron-deficient States?1. *Clinical Chemistry*, **2002**, 48, 981-982	5.5	30
131	Functional characterization and modified rescue of novel AE1 mutation R730C associated with overhydrated cation leak stomatocytosis. *American Journal of Physiology - Cell Physiology*, **2011**, 300, C1034-46	5.4	29
130	Thawing fresh frozen plasma in a microwave oven. A comparison with thawing in a 37 degrees C waterbath. *American Journal of Clinical Pathology*, **1992**, 97, 227-32	1.9	29
129	Genotype-phenotype correlation and risk stratification in a cohort of 123 hereditary stomatocytosis patients. *American Journal of Hematology*, **2018**, 93, 1509-1517	7.1	29
128	The effects of hydroxycarbamide and magnesium on haemoglobin SC disease: results of the multi-centre CHAMPS trial. *British Journal of Haematology*, **2011**, 152, 771-6	4.5	28
127	Regulation of K-Cl cotransport during reticulocyte maturation and erythrocyte aging in normal and sickle erythrocytes. *American Journal of Physiology - Cell Physiology*, **2003**, 285, C31-8	5.4	28
126	2015 Clinical trials update in sickle cell anemia. *American Journal of Hematology*, **2015**, 90, 934-50	7.1	27

125	Protective effects of phosphodiesterase-4 (PDE-4) inhibition in the early phase of pulmonary arterial hypertension in transgenic sickle cell mice. *FASEB Journal*, **2008**, 22, 1849-60	0.9	27
124	Phase I study of magnesium pidolate in combination with hydroxycarbamide for children with sickle cell anaemia. *British Journal of Haematology*, **2008**, 140, 80-5	4.5	27
123	Daily multivitamins with iron to prevent anemia in high-risk infants: a randomized clinical trial. *Pediatrics*, **2004**, 114, 86-93	7.4	27
122	PTPepsilon has a critical role in signaling transduction pathways and phosphoprotein network topology in red cells. *Proteomics*, **2008**, 8, 4695-708	4.8	26
121	Protective effects of S-nitrosoalbumin on lung injury induced by hypoxia-reoxygenation in mouse model of sickle cell disease. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2006**, 291, L457-65	5.8	26
120	Genetic influences on peripheral blood cell counts: a study in baboons. *Blood*, **2005**, 106, 1210-4	2.2	26
119	Evidence for a protective role of the Gardos channel against hemolysis in murine spherocytosis. *Blood*, **2005**, 106, 1454-9	2.2	26
118	Effect of metabolic depletion on the furosemide-sensitive Na and K fluxes in human red cells. *Journal of Membrane Biology*, **1985**, 86, 145-55	2.3	26
117	Dehydrated stomatocytic anemia due to the heterozygous mutation R2456H in the mechanosensitive cation channel PIEZO1: a case report. *Blood Cells, Molecules, and Diseases*, **2014**, 52, 53-4	2.1	25
116	K-Cl cotransport modulation by intracellular Mg in erythrocytes from mice bred for low and high Mg levels. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1385-95	5.4	25
115	Pharmacological inhibition of calpain-1 prevents red cell dehydration and reduces Gardos channel activity in a mouse model of sickle cell disease. *FASEB Journal*, **2013**, 27, 750-9	0.9	24
114	Quantitative trait loci for baseline white blood cell count, platelet count, and mean platelet volume. *Mammalian Genome*, **2005**, 16, 749-63	3.2	24
113	Membrane polyunsaturated fatty acids and lithium-sodium countertransport in human erythrocytes. *Life Sciences*, **1987**, 41, 1171-8	6.8	24
112	Calpain-1 knockout reveals broad effects on erythrocyte deformability and physiology. *Biochemical Journal*, **2012**, 448, 141-52	3.8	23
111	Effect of complete protein 4.1R deficiency on ion transport properties of murine erythrocytes. *American Journal of Physiology - Cell Physiology*, **2006**, 291, C880-6	5.4	23
110	Functional characterization of novel ABCB6 mutations and their clinical implications in familial pseudohyperkalemia. *Haematologica*, **2016**, 101, 909-17	6.6	23
109	Protein phosphatase 1alpha is tyrosine-phosphorylated and inactivated by peroxynitrite in erythrocytes through the src family kinase fgr. *Free Radical Biology and Medicine*, **2005**, 38, 1625-36	7.8	22
108	Abnormal regulation of Mg2+ transport via Na/Mg exchanger in sickle erythrocytes. *Blood*, **2005**, 105, 382-6	2.2	21

107	Therapeutic strategies for prevention of sickle cell dehydration. *Blood Cells, Molecules, and Diseases* , **2001**, 27, 71-80	2.1	21
106	Membrane properties of erythrocytes in subjects undergoing multiple blood donations with or without recombinant erythropoietin. *British Journal of Haematology*, **1993**, 84, 118-30	4.5	20
105	Loss-of-function and gain-of-function phenotypes of stomatocytosis mutant RhAG F65S. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C1325-43	5.4	19
104	Maximum urine concentrating ability in children with Hb SC disease: effects of hydroxyurea. *American Journal of Hematology*, **2000**, 64, 47-52	7.1	19
103	A new therapeutic approach for sickle cell disease. Blockade of the red cell Ca(2+)-activated K+ channel by clotrimazole. *Annals of the New York Academy of Sciences*, **1995**, 763, 262-71	6.5	19
102	A high-performance liquid chromatographic assay for the determination of itraconazole concentration using solid-phase extraction and small sample volume. *Therapeutic Drug Monitoring*, **1995**, 17, 522-5	3.2	19
101	Characteristics of the volume- and chloride-dependent K transport in human erythrocytes homozygous for hemoglobin C. *Journal of Membrane Biology*, **1989**, 111, 69-81	2.3	19
100	Ion content and transport and the regulation of volume in sickle cells. *Annals of the New York Academy of Sciences*, **1989**, 565, 96-103	6.5	19
99	Erythrocytes from hereditary xerocytosis patients heterozygous for KCNN4 V282M exhibit increased spontaneous Gardos channel-like activity inhibited by senicapoc. *American Journal of Hematology*, **2017**, 92, E108-E110	7.1	17
98	Management training for pathology residents. II. Experience with a focused curriculum. *American Journal of Clinical Pathology*, **1994**, 101, 564-8	1.9	17
97	Sickle cell dehydration: Pathophysiology and therapeutic applications. *Clinical Hemorheology and Microcirculation*, **2018**, 68, 187-204	2.5	16
96	Reductions in red blood cell 2,3-diphosphoglycerate concentration during continuous renal replacment therapy. *Clinical Journal of the American Society of Nephrology: CJASN*, **2015**, 10, 74-9	6.9	16
95	Iron deficiency: what are the future trends in diagnostics and therapeutics?. *Clinical Chemistry*, **2013** , 59, 740-5	5.5	16
94	Regulation of K-Cl cotransport by protein phosphatase 1alpha in mouse erythrocytes. *Pflugers Archiv European Journal of Physiology*, **2006**, 451, 760-8	4.6	16
93	Quantitative trait loci for baseline erythroid traits. *Mammalian Genome*, **2006**, 17, 298-309	3.2	16
92	Management training for pathology residents. I. Results of a national survey. *American Journal of Clinical Pathology*, **1994**, 101, 559-63	1.9	16
91	Shape oscillations of single blood drops: applications to human blood and sickle cell disease. *Scientific Reports*, **2018**, 8, 16794	4.9	16
90	An economic analysis of anemia prevention during infancy. *Journal of Pediatrics*, **2009**, 154, 44-9	3.6	15

89	Diagnosis of iron deficiency anemia using density-based fractionation of red blood cells. *Lab on A Chip*, **2016**, 16, 3929-3939	7.2	15
88	Erythrocytes lacking the Langereis blood group protein ABCB6 are resistant to the malaria parasite. *Communications Biology*, **2018**, 1, 45	6.7	13
87	Sequence variation at multiple loci influences red cell hemoglobin concentration. *Blood*, **2010**, 116, e139-49	2.9	13
86	Use of erythropoiesis stimulating agents and intravenous iron for cancer and treatment-related anaemia: the need for predictors and indicators of effectiveness has not abated. *British Journal of Haematology*, **2008**, 142, 3-10	4.5	13
85	Bitopertin, a selective oral GLYT1 inhibitor, improves anemia in a mouse model of Ethalassemia. *JCI Insight*, **2019**, 4,	9.9	12
84	Erythrocyte-active agents and treatment of sickle cell disease. *Seminars in Hematology*, **2001**, 38, 324-324		11
83	Global genome analysis reveals a vast and dynamic anellovirus landscape within the human virome. *Cell Host and Microbe*, **2021**, 29, 1305-1315.e6	23.4	11
82	Chemical crosslinking studies with the mouse Kcc1 K-Cl cotransporter. *Blood Cells, Molecules, and Diseases*, **2009**, 42, 233-40	2.1	10
81	Reduced DIDS-sensitive chloride conductance in Ae1-/- mouse erythrocytes. *Blood Cells, Molecules, and Diseases*, **2008**, 41, 22-34	2.1	10
80	Clotrimazole and efaroxan inhibit red cell Gardos channel independently of imidazoline I1 and I2 binding sites. *European Journal of Pharmacology*, **1996**, 295, 109-12	5.3	10
79	A common functional PIEZO1 deletion allele associates with red blood cell density in sickle cell disease patients. *American Journal of Hematology*, **2018**, 93, E362-E365	7.1	9
78	Degree of agreement in plasma fibrinogen among two functional and one immunonephelometric assays. *American Journal of Clinical Pathology*, **1997**, 107, 527-33	1.9	9
77	Erythrocyte[mdash]active agents and treatment of sickle cell disease. *Seminars in Hematology*, **2001**, 38, 324-332	4	9
76	Genome-wide association study of erythrocyte density in sickle cell disease patients. *Blood Cells, Molecules, and Diseases*, **2017**, 65, 60-65	2.1	8
75	Strain-specific variations in cation content and transport in mouse erythrocytes. *Physiological Genomics*, **2013**, 45, 343-50	3.6	8
74	Hydroxyurea and sickle cell disease: a chance for every patient. *JAMA - Journal of the American Medical Association*, **2003**, 289, 1692-4	27.4	8
73	Plasminogen activator inhibitor-1: defining characteristics in the cerebrospinal fluid of newborns. *Journal of Pediatrics*, **2000**, 137, 132-4	3.6	8
72	Revised prevalence estimate of possible Hereditary Xerocytosis as derived from a large U.S. Laboratory database. *American Journal of Hematology*, **2018**, 93, E9-E12	7.1	7

71	Early detection of response to hydroxyurea therapy in patients with sickle cell anemia. *Hemoglobin*, **2010**, 34, 424-9	0.6	7
70	Quantitative trait loci for peripheral blood cell counts: a study in baboons. *Mammalian Genome*, **2007**, 18, 361-72	3.2	7
69	Structure and genetic polymorphism of the mouse KCC1 gene. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2000**, 1492, 353-61		7
68	Erythrocyte ion content and dehydration modulate maximal Gardos channel activity in KCNN4 V282M/+ hereditary xerocytosis red cells. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C287-C302	5.4	6
67	Increased Red Cell KCNN4 Activity in Sporadic Hereditary Xerocytosis Associated With Enhanced Single Channel Pressure Sensitivity of PIEZO1 Mutant V598M. *HemaSphere*, **2018**, 2, e55	0.3	6
66	Combined genetic disruption of K-Cl cotransporters and Gardos channel KCNN4 rescues erythrocyte dehydration in the SAD mouse model of sickle cell disease. *Blood Cells, Molecules, and Diseases*, **2019**, 79, 102346	2.1	6
65	An immunoassay for human serum hepcidin at last: Ganz klar?. *Blood*, **2008**, 112, 3922-3	2.2	6
64	Single-cell analysis of FOXP3 deficiencies in humans and mice unmasks intrinsic and extrinsic CD4 T cell perturbations. *Nature Immunology*, **2021**, 22, 607-619	19.1	6
63	The pyruvate kinase activator mitapivat reduces hemolysis and improves anemia in a β-thalassemia mouse model. *Journal of Clinical Investigation*, **2021**, 131,	15.9	6
62	The Clinically Tested Gardos Channel Inhibitor Senicapoc Exhibits Antimalarial Activity. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 613-6	5.9	6
61	Heritability of fetal hemoglobin, white cell count, and other clinical traits from a sickle cell disease family cohort. *American Journal of Hematology*, **2019**, 94, 522-527	7.1	5
60	The utility of the DDAVP challenge test in children with low von Willebrand factor. *British Journal of Haematology*, **2015**, 170, 884-6	4.5	5
59	Prevention of Red Cell Dehydration: A Possible New Treatment for Sickle Cell Disease. *Fetal and Pediatric Pathology*, **2001**, 20, 15-25		5
58	Effects of Hydroxyurea (HU) and Magnesium Pidolate (Mg) in Hemoglobin SC Disease (HbSC): the "HAMPS" Trial.. *Blood*, **2009**, 114, 819-819	2.2	5
57	Pediatric hematology normal ranges derived from pediatric primary care patients. *American Journal of Hematology*, **2020**, 95, E255	7.1	4
56	Erythropoietin, iron, and erythropoiesis. *Blood*, **2000**, 96, 823-833	2.2	4
55	Genetic disruption of KCC cotransporters in a mouse model of thalassemia intermedia. *Blood Cells, Molecules, and Diseases*, **2020**, 81, 102389	2.1	4
54	Plasmodium vivax infection compromises reticulocyte stability. *Nature Communications*, **2021**, 12, 1629	17.4	4

53	Monitoring of blood coagulation with non-contact drop oscillation rheometry. *Journal of Thrombosis and Haemostasis*, **2019**, 17, 1345-1353	15.4	3
52	A mechanotoxin-4 (GsMTx4)-sensitive cation channel mediates increased cation permeability in human hereditary spherocytosis of multiple genetic etiologies. *Haematologica*, **2021**, 106, 2759-2762	6.6	3
51	Using Reticulocyte Hemoglobin Equivalent as a Marker for Iron Deficiency and Responsiveness to Iron Therapy. *Mayo Clinic Proceedings*, **2021**, 96, 1510-1519	6.4	3
50	Potential causal role of l-glutamine in sickle cell disease painful crises: A Mendelian randomization analysis. *Blood Cells, Molecules, and Diseases*, **2021**, 86, 102504	2.1	3
49	An artificial intelligence-assisted diagnostic platform for rapid near-patient hematology. *American Journal of Hematology*, **2021**, 96, 1264-1274	7.1	3
48	Association of Blood Type With Postsurgical Mucosal Bleeding in Pediatric Patients Undergoing Tonsillectomy With or Without Adenoidectomy. *JAMA Network Open*, **2020**, 3, e201804	10.4	2
47	Haematological Responses to Detraining Following the Boston Marathon. *Medicine and Science in Sports and Exercise*, **2017**, 49, 331-332	1.2	2
46	Knowledge of Blood Group Decreases von Willebrand Factor Panel Testing in Children. *HemaSphere* , **2017**, 1, e3	0.3	2
45	Developing treatment for sickle cell disease. *Expert Opinion on Investigational Drugs*, **2002**, 11, 645-59	5.9	2
44	Haematological effects of oral administration of bitopertin, a glycine transport inhibitor, in patients with non-transfusion-dependent □thalassaemia. *British Journal of Haematology*, **2021**, 194, 474-477	4.5	2
43	Non-Parametric Combined Reference Regions and Prediction of Clinical Risk. *Clinical Chemistry*, **2020**, 66, 363-372	5.5	1
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