Carlo Brugnara

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Purinergic signaling is essential for full Psickle activation by hypoxia and by normoxic acid pH in mature human sickle red cells and in vitro-differentiated cultured human sickle reticulocytes.. *Pflugers Archiv European Journal of Physiology*, **2022**, 474, 553	4.6	0
213	Erythroid-specific inactivation of Slc12a6/Kcc3 by EpoR promoter-driven Cre expression reduces K-Cl cotransport activity in mouse erythrocytes.. *Physiological Reports*, **2022**, 10, e15186	2.6	1
212	Commentaries on Viewpoint: Consider iron status when making sex comparisons in human physiology.. *Journal of Applied Physiology*, **2022**, 132, 703-709	3.7	1
211	Trpv1 and Trpa1 are not essential for Psickle-like activity in red cells of the SAD mouse model of sickle cell disease. *Blood Cells, Molecules, and Diseases*, **2021**, 92, 102619	2.1	0
210	Standardization of reticulocyte counts in the athlete biological passport: A practical update. *International Journal of Laboratory Hematology*, **2021**, 44, 112	2.5	0
209	Less (Fe) is more (Hb) in SCA. *Blood*, **2021**, 137, 1446-1447	2.2	
208	Haematological effects of oral administration of bitopertin, a glycine transport inhibitor, in patients with non-transfusion-dependent Ethalassaemia. *British Journal of Haematology*, **2021**, 194, 474-477	4.5	2
207	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
206	The pyruvate kinase activator mitapivat reduces hemolysis and improves anemia in a Ethalassemia mouse model. *Journal of Clinical Investigation*, **2021**, 131,	15.9	6
205	Dietary B Fatty Acid Supplementation Improves Murine Sickle Cell Bone Disease and Reprograms Adipogenesis. *Antioxidants*, **2021**, 10,	7.1	1
204	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
203	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
202	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
201	Haemoglobin response to senicapoc in patients with sickle cell disease: a re-analysis of the Phase III trial. *British Journal of Haematology*, **2021**, 192, e129-e132	4.5	1
200	Plasmodium vivax infection compromises reticulocyte stability. *Nature Communications*, **2021**, 12, 1629	17.4	4
199	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
198	An artificial intelligence-assisted diagnostic platform for rapid near-patient hematology. *American Journal of Hematology*, **2021**, 96, 1264-1274	7.1	3

197	Pediatric hematology normal ranges derived from pediatric primary care patients. *American Journal of Hematology*, **2020**, 95, E255	7.1	4
196	Non-Parametric Combined Reference Regions and Prediction of Clinical Risk. *Clinical Chemistry*, **2020**, 66, 363-372	5.5	1
195	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
194	Measuring Reticulocyte Hemoglobin Content As a Marker for Iron Deficiency and Response to Therapy Represents a Paradigm Shift in Care. *Blood*, **2020**, 136, 42-43	2.2	
193	The Pyruvate Kinase Activator Mitapivat Ameliorates Anemia and Prevents Iron Overload in a Mouse Model of Hereditary Spherocytosis. *Blood*, **2020**, 136, 29-29	2.2	1
192	Genetic disruption of KCC cotransporters in a mouse model of thalassemia intermedia. *Blood Cells, Molecules, and Diseases*, **2020**, 81, 102389	2.1	4
191	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
190	Monitoring of blood coagulation with non-contact drop oscillation rheometry. *Journal of Thrombosis and Haemostasis*, **2019**, 17, 1345-1353	15.4	3
189	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
188	Laboratory Assessment of Iron Status **2019**, 51-68		
187	Highly efficient therapeutic gene editing of human hematopoietic stem cells. *Nature Medicine*, **2019** , 25, 776-783	50.5	197
186	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
185	Bitopertin, a selective oral GLYT1 inhibitor, improves anemia in a mouse model of Ethalassemia. *JCI Insight*, **2019**, 4,	9.9	12
184	Resolution of sickle cell disease-associated inflammation and tissue damage with 17-resolvin D1. *Blood*, **2019**, 133, 252-265	2.2	32
183	Sickle cell dehydration: Pathophysiology and therapeutic applications. *Clinical Hemorheology and Microcirculation*, **2018**, 68, 187-204	2.5	16
182	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
181	Iron balance and iron supplementation for the female athlete: A practical approach. *European Journal of Sport Science*, **2018**, 18, 295-305	3.9	44
180	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

179	Erythrocytes lacking the Langereis blood group protein ABCB6 are resistant to the malaria parasite. *Communications Biology*, **2018**, 1, 45	6.7	13
178	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
177	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
176	Imatinib Protects Against Hypoxia/Reoxygenation Induced Lung and Kidney Injury in a Humanized Mouse Model for SCD. *Blood*, **2018**, 132, 725-725	2.2	1
175	Highly Efficient Therapeutic Gene Editing of BCL11A enhancer in Human Hematopoietic Stem Cells from Hemoglobinopathy Patients for Fetal Hemoglobin Induction. *Blood*, **2018**, 132, 3482-3482	2.2	1
174	Optimized Beta-Globin Expression and Enucleation from Induced Red Blood Cells for In Vitro Modeling of Sickle Cell Disease. *Blood*, **2018**, 132, 2359-2359	2.2	
173	Dietary Omega-3 Fatty Acid Supplementation Improves Sickle Cell Bone Disease By Affecting Osteoblastogenesis and Adipogenesis. *Blood*, **2018**, 132, 2356-2356	2.2	
172	Shape oscillations of single blood drops: applications to human blood and sickle cell disease. *Scientific Reports*, **2018**, 8, 16794	4.9	16
171	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
170	Variant-aware saturating mutagenesis using multiple Cas9 nucleases identifies regulatory elements at trait-associated loci. *Nature Genetics*, **2017**, 49, 625-634	36.3	73
169	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
168	Genome-wide association study of erythrocyte density in sickle cell disease patients. *Blood Cells, Molecules, and Diseases*, **2017**, 65, 60-65	2.1	8
167	Haematological Responses to Detraining Following the Boston Marathon. *Medicine and Science in Sports and Exercise*, **2017**, 49, 331-332	1.2	2
166	Knowledge of Blood Group Decreases von Willebrand Factor Panel Testing in Children. *HemaSphere* , **2017**, 1, e3	0.3	2
165	Targeted Application of Human Genetic Variation Can Improve Red Blood Cell Production from Stem Cells. *Cell Stem Cell*, **2016**, 18, 73-78	18	57
164	A Selective ORAL GLYT1 Inhibitor, Improves Anemia and RED CELL Survival in a MOUSE MODEL of Beta-Thalassemia. *Blood*, **2016**, 128, 1284-1284	2.2	
163	The Clinically Tested Gardos Channel Inhibitor Senicapoc Exhibits Antimalarial Activity. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 613-6	5.9	6
162	Diagnosis of iron deficiency anemia using density-based fractionation of red blood cells. *Lab on A Chip*, **2016**, 16, 3929-3939	7.2	15

161	Functional characterization of novel ABCB6 mutations and their clinical implications in familial pseudohyperkalemia. *Haematologica*, **2016**, 101, 909-17	6.6	23
160	Malaria. A forward genetic screen identifies erythrocyte CD55 as essential for Plasmodium falciparum invasion. *Science*, **2015**, 348, 711-4	33.3	74
159	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
158	Diagnosis of iron-deficient states. *Critical Reviews in Clinical Laboratory Sciences*, **2015**, 52, 256-72	9.4	45
157	Clinical utility of reticulocyte parameters. *Clinics in Laboratory Medicine*, **2015**, 35, 133-63	2.1	72
156	2015 Clinical trials update in sickle cell anemia. *American Journal of Hematology*, **2015**, 90, 934-50	7.1	27
155	Dietary Ɛ fatty acids protect against vasculopathy in a transgenic mouse model of sickle cell disease. *Haematologica*, **2015**, 100, 870-80	6.6	40
154	Novel Gardos channel mutations linked to dehydrated hereditary stomatocytosis (xerocytosis). *American Journal of Hematology*, **2015**, 90, 921-6	7.1	63
153	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
152	Resolvin D1 and Resolvin D2 Protect Against Hypoxia/Reoxygenation Induced Lung and Kidney Damage in a Sickle Cell Mouse Model of Acute Vaso-Occlusive Crisis. *Blood*, **2015**, 126, 966-966	2.2	
151	Optical assay of erythrocyte function in banked blood. *Scientific Reports*, **2014**, 4, 6211	4.9	31
150	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
149	FOXO3-mTOR metabolic cooperation in the regulation of erythroid cell maturation and homeostasis. *American Journal of Hematology*, **2014**, 89, 954-63	7.1	58
148	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
147	Aging-like phenotype and defective lineage specification in SIRT1-deleted hematopoietic stem and progenitor cells. *Stem Cell Reports*, **2014**, 3, 44-59	8	109
146	Resveratrol accelerates erythroid maturation by activation of FoxO3 and ameliorates anemia in beta-thalassemic mice. *Haematologica*, **2014**, 99, 267-75	6.6	73
145	Hereditary xerocytosis revisited. *American Journal of Hematology*, **2014**, 89, 1142-6	7.1	39
144	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

143	Dietary ⊟ Fatty Acid Supplementation As a Potential New Therapy for Vasculopathy in Sickle Cell Disease: Proof of Concept in a Transgenic Mouse Model. *Blood*, **2014**, 124, 220-220	2.2	
142	Senicapoc, a Gardos Channel Inhibitor Developed to Treat Sickle Cell Disease, Exhibits Antimalarial Activity. *Blood*, **2014**, 124, 743-743	2.2	
141	Strain-specific variations in cation content and transport in mouse erythrocytes. *Physiological Genomics*, **2013**, 45, 343-50	3.6	8
140	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
139	Missense mutations in the ABCB6 transporter cause dominant familial pseudohyperkalemia. *American Journal of Hematology*, **2013**, 88, 66-72	7.1	54
138	Expansion of host cellular niche can drive adaptation of a zoonotic malaria parasite to humans. *Nature Communications*, **2013**, 4, 1638	17.4	75
137	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
136	Iron deficiency: what are the future trends in diagnostics and therapeutics?. *Clinical Chemistry*, **2013**, 59, 740-5	5.5	16
135	Multiple clinical forms of dehydrated hereditary stomatocytosis arise from mutations in PIEZO1. *Blood*, **2013**, 121, 3925-35, S1-12	2.2	204
134	Erythrocyte density in sickle cell syndromes is associated with specific clinical manifestations and hemolysis. *Blood*, **2012**, 120, 3136-41	2.2	71
133	Mitochondrial Atpif1 regulates haem synthesis in developing erythroblasts. *Nature*, **2012**, 491, 608-12	50.4	54
132	Calpain-1 knockout reveals broad effects on erythrocyte deformability and physiology. *Biochemical Journal*, **2012**, 448, 141-52	3.8	23
131	Metabolic Pathways Control Normal and Beta-Thalassemic Erythroid Cell Maturation. *Blood*, **2012**, 120, 369-369	2.2	1
130	Missense Mutations in the ABCB6 Transporter Cause Dominant Familial Pseudohyperkalemia. *Blood*, **2012**, 120, 3184-3184	2.2	
129	Resveratrol Induces Erythroid Maturation by Activating FOXO3 and Improves in Vivo Erythropoiesis in Normal and Beta -Thalassemic Mice. *Blood*, **2012**, 120, 3191-3191	2.2	
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	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
126	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

125	Mitochondrial Atpif1 Regulates Heme Synthesis in Developing Erythroblasts. *Blood*, **2011**, 118, 343-343	2.2	0
124	Pharmacological Inhibition of Calpain-1 Prevents Red Cell Dehydration and Reduces Gardos Channel Activity in a Mouse Model of Sickle Cell Disease. Identification of Druggable Protease Target. *Blood*, **2011**, 118, 852-852	2.2	
123	Early detection of response to hydroxyurea therapy in patients with sickle cell anemia. *Hemoglobin*, **2010**, 34, 424-9	0.6	7
122	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
121	Sequence variation at multiple loci influences red cell hemoglobin concentration. *Blood*, **2010**, 116, e139-49	2.2	13
120	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
119	atpif1 regulates Mitochondrial Heme Synthesis In Developing Erythroid Cells. *Blood*, **2010**, 116, 163-163	2.2	
118	An economic analysis of anemia prevention during infancy. *Journal of Pediatrics*, **2009**, 154, 44-9	3.6	15
117	Chemical crosslinking studies with the mouse Kcc1 K-Cl cotransporter. *Blood Cells, Molecules, and Diseases*, **2009**, 42, 233-40	2.1	10
116	Effects of Hydroxyurea (HU) and Magnesium Pidolate (Mg) in Hemoglobin SC Disease (HbSC): the "HAMPS" Trial.. *Blood*, **2009**, 114, 819-819	2.2	5
115	Footprints of Response to Hydroxyurea Are in the Hemogram.. *Blood*, **2009**, 114, 4619-4619	2.2	
114	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
113	Use of a preoperative bleeding questionnaire in pediatric patients who undergo adenotonsillectomy. *Otolaryngology - Head and Neck Surgery*, **2008**, 139, 546-550	5.5	31
112	Reduced DIDS-sensitive chloride conductance in Ae1-/- mouse erythrocytes. *Blood Cells, Molecules, and Diseases*, **2008**, 41, 22-34	2.1	10
111	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
110	An immunoassay for human serum hepcidin at last: Ganz klar?. *Blood*, **2008**, 112, 3922-3	2.2	6
109	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
108	PTPepsilon has a critical role in signaling transduction pathways and phosphoprotein network topology in red cells. *Proteomics*, **2008**, 8, 4695-708	4.8	26

107	The American Journal of Hematology in 2007. *American Journal of Hematology*, **2008**, 83, 259-262	7.1	
106	Quantitative trait loci for peripheral blood cell counts: a study in baboons. *Mammalian Genome*, **2007**, 18, 361-72	3.2	7
105	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
104	Foxo3 is required for the regulation of oxidative stress in erythropoiesis. *Journal of Clinical Investigation*, **2007**, 117, 2133-44	15.9	225
103	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
102	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
101	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
100	Reticulocyte hemoglobin equivalent (Ret He) and assessment of iron-deficient states. *International Journal of Laboratory Hematology*, **2006**, 28, 303-8		145
99	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
98	Quantitative trait loci for baseline erythroid traits. *Mammalian Genome*, **2006**, 17, 298-309	3.2	16
97	Foxo3 Transcription Factor Regulates Oxidative Stress in In Vivo Erythropoiesis.. *Blood*, **2006**, 108, 468-468	2.2	
96	An algorithm using reticulocyte hemoglobin content (CHr) measurement in screening adolescents for iron deficiency. *Journal of Adolescent Health*, **2005**, 36, 529	5.8	59
95	Abnormal regulation of Mg2+ transport via Na/Mg exchanger in sickle erythrocytes. *Blood*, **2005**, 105, 382-6	2.2	21
94	Genetic influences on peripheral blood cell counts: a study in baboons. *Blood*, **2005**, 106, 1210-4	2.2	26
93	Evidence for a protective role of the Gardos channel against hemolysis in murine spherocytosis. *Blood*, **2005**, 106, 1454-9	2.2	26
92	Band 3 Neapolis ciao ciao aldolase. *Blood*, **2005**, 106, 4024-4025	2.2	
91	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
90	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

89	Quantitative trait loci for baseline white blood cell count, platelet count, and mean platelet volume. *Mammalian Genome*, **2005**, 16, 749-63	3.2	24
88	Screening healthy infants for iron deficiency using reticulocyte hemoglobin content. *JAMA - Journal of the American Medical Association*, **2005**, 294, 924-30	27.4	112
87	The Safety and Efficacy of Oral Magnesium Pidolate in Children with Hemoglobin SC Disease.. *Blood* , **2005**, 106, 3777-3777	2.2	
86	Physiological roles of the intermediate conductance, Ca2+-activated potassium channel Kcnn4. *Journal of Biological Chemistry*, **2004**, 279, 47681-7	5.4	158
85	Daily multivitamins with iron to prevent anemia in high-risk infants: a randomized clinical trial. *Pediatrics*, **2004**, 114, 86-93	7.4	27
84	Iron therapy in the pediatric hemodialysis population. *Pediatric Nephrology*, **2004**, 19, 655-61	3.2	46
83	Physiology and Pathophysiology of the Erythrocyte Gardos Channel in Hematological Diseases. *Advances in Experimental Medicine and Biology*, **2004**, 387-388	3.6	
82	MSDD1, a Prodrug of 5-Hydroxymethyl-2-Furfural (5HMF), Prolongs the Antisickling Effect of 5HMF in Transgenic Sickle Mice.. *Blood*, **2004**, 104, 3576-3576	2.2	1
81	Protective Effects of No-Albumin and Albumin on Lung Injury Induced by Hypoxia/Reoxygenation in a Mouse Model of Sickle Cell Disease.. *Blood*, **2004**, 104, 3580-3580	2.2	
80	Murine Spherocytosis: Evidence for a Functional Interaction between Protein 4.1 and Na/H Exchange and for a Protective Role of the Gardos Channel Against Hemolysis.. *Blood*, **2004**, 104, 578-578	2.2	
79	PDE-4 Inhibitor Rolipram Prevents Hypoxia Induced Pulmonary Hypertension in Transgenic Sickle Cell Sad Mice.. *Blood*, **2004**, 104, 3577-3577	2.2	
78	In vivo reduction of erythrocyte oxidant stress in a murine model of beta-thalassemia. *Haematologica*, **2004**, 89, 1287-98	6.6	40
77	Pathophysiological-based approaches to treatment of sickle cell disease. *Annual Review of Medicine* , **2003**, 54, 89-112	17.4	35
76	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
75	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
74	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
73	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
72	Iron deficiency and erythropoiesis: new diagnostic approaches. *Clinical Chemistry*, **2003**, 49, 1573-8	5.5	384

71	Hydroxyurea and sickle cell disease: a chance for every patient. *JAMA - Journal of the American Medical Association*, **2003**, 289, 1692-4	27.4	8
70	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
69	Developing treatment for sickle cell disease. *Expert Opinion on Investigational Drugs*, **2002**, 11, 645-59	5.9	2
68	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
67	Modulation of Gardos channel activity by cytokines in sickle erythrocytes. *Blood*, **2002**, 99, 357-603	2.2	84
66	A Hematologic Gold Standard for Iron-deficient States?1. *Clinical Chemistry*, **2002**, 48, 981-982	5.5	30
65	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
64	Hereditary spherocytosis: back to the reticulocytes. *Blood*, **2001**, 98, 2885-2886	2.2	
63	Ineffective erythropoiesis in Stat5a(-/-)5b(-/-) mice due to decreased survival of early erythroblasts. *Blood*, **2001**, 98, 3261-73	2.2	572
62	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
61	Prevention of Red Cell Dehydration: A Possible New Treatment for Sickle Cell Disease. *Fetal and Pediatric Pathology*, **2001**, 20, 15-25		5
60	Therapeutic strategies for prevention of sickle cell dehydration. *Blood Cells, Molecules, and Diseases* , **2001**, 27, 71-80	2.1	21
59	Erythrocyte-active agents and treatment of sickle cell disease. *Seminars in Hematology*, **2001**, 38, 324-32	4	11
58	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
57	Erythrocyte[mdash]active agents and treatment of sickle cell disease. *Seminars in Hematology*, **2001**, 38, 324-332	4	9
56	Maximum urine concentrating ability in children with Hb SC disease: effects of hydroxyurea. *American Journal of Hematology*, **2000**, 64, 47-52	7.1	19
55	Positional cloning of zebrafish ferroportin1 identifies a conserved vertebrate iron exporter. *Nature*, **2000**, 403, 776-81	50.4	1304
54	Structure and genetic polymorphism of the mouse KCC1 gene. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **2000**, 1492, 353-61		7

53	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
52	Erythropoietin, iron, and erythropoiesis. *Blood*, **2000**, 96, 823-833	2.2	277
51	Plasminogen activator inhibitor-1: defining characteristics in the cerebrospinal fluid of newborns. *Journal of Pediatrics*, **2000**, 137, 132-4	3.6	8
50	E2F4 is essential for normal erythrocyte maturation and neonatal viability. *Molecular Cell*, **2000**, 6, 281-91	17.6	155
49	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
48	Erythropoietin, iron, and erythropoiesis. *Blood*, **2000**, 96, 823-833	2.2	4
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