Yves Colin

List of Publications by Year
in descending order

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135 papers	7,652 citations	50276 46 h-index	58581 82 g-index
138 all docs	138 docs citations	138 times ranked	5274 citing authors

#	Article	IF	Citations
1	Cellâ€derived microparticles and sickle cell disease chronic vasculopathy in subâ€Saharan Africa: A multinational study. British Journal of Haematology, 2021, 192, 634-642.	2.5	6
2	Inherited glycosylphosphatidylinositol defects cause the rare Emm-negative blood phenotype and developmental disorders. Blood, 2021, 137, 3660-3669.	1.4	18
3	Rapid clearance of storage-induced microerythrocytes alters transfusion recovery. Blood, 2021, 137, 2285-2298.	1.4	45
4	The equilibrative nucleoside transporter ENT1 is critical for nucleotide homeostasis and optimal erythropoiesis. Blood, 2021, 137, 3548-3562.	1.4	16
5	Renal allograft DARCness in subclinical acute and chronic active ABMR. Transplant International, 2021, 34, 1494-1505.	1.6	3
6	Metabolic rejuvenation upgrades circulatory functions of red blood cells stored under blood bank conditions. Transfusion, 2021, 61, 903-918.	1.6	11
7	Lack of the multidrug transporter MRP4/ABCC4 defines the PEL-negative blood group and impairs platelet aggregation. Blood, 2020, 135, 441-448.	1.4	18
8	Dimerization and phosphorylation of Lutheran/basal cell adhesion molecule are critical for its function in cell migration on laminin. Journal of Biological Chemistry, 2019, 294, 14911-14921.	3.4	7
9	Insights into determinants of spleen injury in sickle cell anemia. Blood Advances, 2019, 3, 2328-2336.	5.2	26
10	Storage-Induced Micro-Erythrocytes Are Rapidly Cleared from Recipient Circulation and Predict Transfusion Recovery. Blood, 2019, 134, 717-717.	1.4	5
11	Band 3 phosphorylation induces irreversible alterations of stored red blood cells. American Journal of Hematology, 2018, 93, E110-E112.	4.1	23
12	Involvement of hepcidin in iron metabolism dysregulation in Gaucher disease. Haematologica, 2018, 103, 587-596.	3.5	18
13	The ammonia transporter RhCG modulates urinary acidification by interacting with the vacuolar proton-ATPases in renal intercalated cells. Kidney International, 2018, 93, 390-402.	5.2	13
14	Fluorescence Exclusion: A Simple Method to Assess Projected Surface, Volume and Morphology of Red Blood Cells Stored in Blood Bank. Frontiers in Medicine, 2018, 5, 164.	2.6	12
15	Prognostic factors of disease severity in infants with sickle cell anemia: A comprehensive longitudinal cohort study. American Journal of Hematology, 2018, 93, 1411-1419.	4.1	17
16	Spherocytic shift of red blood cells during storage provides a quantitative whole cellâ€“based marker of the storage lesion. Transfusion, 2017, 57, 1007-1018.	1.6	62
17	The endothelin B receptor plays a crucial role in the adhesion of neutrophils to the endothelium in sickle cell disease. Haematologica, 2017, 102, 1161-1172.	3.5	33
18	Antioxidant and Membrane Binding Properties of Serotonin Protect Lipids from Oxidation. Biophysical Journal, 2017, 112, 1863-1873.	0.5	66

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19	Effect of velaglucerase alfa enzyme replacement therapy on red blood cell properties in Gaucher disease. American Journal of Hematology, 2017, 92, E561-E563.	4.1	7
20	Unexpected macrophage-independent dyserythropoiesis in Gaucher disease. Haematologica, 2016, 101, 1489-1498.	3.5	7
21	Unambiguous determination of Plasmodium vivax reticulocyte invasion by flow cytometry. International Journal for Parasitology, 2016, 46, 31-39.	3.1	22
22	The human Kell blood group binds the erythroid 4.1R protein: new insights into the 4.1R-dependent red cell membrane complex. British Journal of Haematology, 2015, 171, 862-871.	2.5	14
23	Î±II-Spectrin Regulates Invadosome Stability and Extracellular Matrix Degradation. PLoS ONE, 2015, 10, e0120781.	2.5	11
24	Evidence of a Structural and Functional Ammonium Transporter RhBGÂ·Anion Exchanger 1Â·Ankyrin-G Complex in Kidney Epithelial Cells. Journal of Biological Chemistry, 2015, 290, 6925-6936.	3.4	9
25	Erythroid Adhesion Molecules in Sickle Cell Anaemia Infants: Insights Into Early Pathophysiology. EBioMedicine, 2015, 2, 154-157.	6.1	11
26	Staphylococcus aureus Targets the Duffy Antigen Receptor for Chemokines (DARC) to Lyse Erythrocytes. Cell Host and Microbe, 2015, 18, 363-370.	11.0	88
27	Studies of a Murine Monoclonal Antibody Directed against DARC: Reappraisal of Its Specificity. PLoS ONE, 2015, 10, e0116472.	2.5	6
28	Hydroxycarbamide Decreases Sickle Reticulocyte Adhesion to Resting Endothelium by Inhibiting Endothelial Lutheran/Basal Cell Adhesion Molecule (Lu/BCAM) through Phosphodiesterase 4A Activation. Journal of Biological Chemistry, 2014, 289, 11512-11521.	3.4	34
29	Lutheran/basal cell adhesion molecule accelerates progression of crescentic glomerulonephritis in mice. Kidney International, 2014, 85, 1123-1136.	5.2	11
30	Flow cytometry analyses reveal association between Lu/BCAM adhesion molecule and osteonecrosis in sickle cell disease. American Journal of Hematology, 2014, 89, 115-117.	4.1	6
31	Red cell adhesion in human diseases. Current Opinion in Hematology, 2014, 21, 186-192.	2.5	32
32	Abnormal properties of red blood cells suggest a role in the pathophysiology of Gaucher disease. Blood, 2013, 121, 546-555.	1.4	37
33	Rapid Cl^{â^'}/HCO₃^{â^'}exchange kinetics of AE1 in HEK293 cells and hereditary stomatocytosis red blood cells. American Journal of Physiology - Cell Physiology, 2013, 305, C654-C662.	4.6	10
34	VHH (nanobody) directed against human glycophorin A: A tool for autologous red cell agglutination assays. Analytical Biochemistry, 2013, 438, 82-89.	2.4	35
35	JAK2V617F activates Lu/BCAM-mediated red cell adhesion in polycythemia vera through an EpoR-independent Rap1/Akt pathway. Blood, 2013, 121, 658-665.	1.4	88
36	Energetic and Molecular Water Permeation Mechanisms of the Human Red Blood Cell Urea Transporter B. PLoS ONE, 2013, 8, e82338.	2.5	27

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37	Serotonin Is a Key Factor for Mouse Red Blood Cell Survival. PLoS ONE, 2013, 8, e83010.	2.5	29
38	Significant Biochemical, Biophysical and Metabolic Diversity in Circulating Human Cord Blood Reticulocytes. PLoS ONE, 2013, 8, e76062.	2.5	114
39	Human RhAG ammonia channel is impaired by the Phe65Ser mutation in overhydrated stomatocytic red cells. American Journal of Physiology - Cell Physiology, 2012, 302, C419-C428.	4.6	34
40	Pathophysiology of sickle cell disease is mirrored by the red blood cell metabolome. Blood, 2011, 117, e57-e66.	1.4	96
41	A reliable ex vivo invasion assay of human reticulocytes by Plasmodium vivax. Blood, 2011, 118, e74-e81.	1.4	120
42	Novel role for the Lu/BCAMâ€“spectrin interaction in actin cytoskeleton reorganization. Biochemical Journal, 2011, 436, 699-708.	3.7	20
43	Decreased sickle red blood cell adhesion to laminin by hydroxyurea is associated with inhibition of Lu/BCAM protein phosphorylation. Blood, 2010, 116, 2152-2159.	1.4	65
44	A recombinant dromedary antibody fragment (VHH or nanobody) directed against human Duffy antigen receptor for chemokines. Cellular and Molecular Life Sciences, 2010, 67, 3371-3387.	5.4	47
45	Generation and characterisation of Rhd and Rhag null mice. British Journal of Haematology, 2010, 148, 161-172.	2.5	17
46	Role of the interaction between Lu/BCAM and the spectrinâ€based membrane skeleton in the increased adhesion of hereditary spherocytosis red cells to laminin. British Journal of Haematology, 2010, 148, 456-465.	2.5	22
47	Functional Reconstitution into Liposomes of Purified Human RhCG Ammonia Channel. PLoS ONE, 2010, 5, e8921.	2.5	47
48	Aggregation of mononuclear and red blood cells through an Â4Â1-Lu/basal cell adhesion molecule interaction in sickle cell disease. Haematologica, 2010, 95, 1841-1848.	3.5	42
49	Role of Lu/BCAM glycoproteins in red cell diseases. Transfusion Clinique Et Biologique, 2010, 17, 143-147.	0.4	20
50	Plasmodium vivax clinical malaria is commonly observed in Duffy-negative Malagasy people. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5967-5971.	7.1	332
51	Functional analysis of human RhCG: comparison withE. coliammonium transporter reveals similarities in the pore and differences in the vestibule. American Journal of Physiology - Cell Physiology, 2009, 297, C537-C547.	4.6	28
52	Î±II-Spectrin Is Critical for Cell Adhesion and Cell Cycle. Journal of Biological Chemistry, 2009, 284, 2409-2418.	3.4	53
53	In Silico Studies on DARC. Infectious Disorders - Drug Targets, 2009, 9, 289-303.	0.8	18
54	Role of Lu/BCAM in abnormal adhesion of sickle red blood cells to vascular endothelium. Transfusion Clinique Et Biologique, 2008, 15, 29-33.	0.4	24

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55	Red cell and endothelial Lu/BCAM beyond sickle cell disease. Transfusion Clinique Et Biologique, 2008, 15, 402-405.	0.4	4
56	Genetic inactivation of the laminin Î±₅chain receptor Lu/BCAM leads to kidney and intestinal abnormalities in the mouse. American Journal of Physiology - Renal Physiology, 2008, 294, F393-F406.	2.7	35
57	Phosphorylation and Ankyrin-G Binding of the C-terminal Domain Regulate Targeting and Function of the Ammonium Transporter RhBG. Journal of Biological Chemistry, 2008, 283, 26557-26567.	3.4	16
58	A Mutant Î±II-spectrin Designed to Resist Calpain and Caspase Cleavage Questions the Functional Importance of This Process in Vivo. Journal of Biological Chemistry, 2007, 282, 14226-14237.	3.4	20
59	Ubc9 interacts with Lu/BCAM adhesion glycoproteins and regulates their stability at the membrane of polarized MDCK cells. Biochemical Journal, 2007, 402, 311-319.	3.7	8
60	Endothelial Lu/BCAM glycoproteins are novel ligands for red blood cell Î±4Î²1integrin: role in adhesion of sickle red blood cells to endothelial cells. Blood, 2007, 109, 3544-3551.	1.4	57
61	Increased adhesion to endothelial cells of erythrocytes from patients with polycythemia vera is mediated by laminin Î±5 chain and Lu/BCAM. Blood, 2007, 110, 894-901.	1.4	114
62	Noninvasive fetal RHD genotyping from maternal plasma. Transfusion Clinique Et Biologique, 2007, 14, 572-577.	0.4	44
63	Functional interaction between Rh proteins andÂtheÂspectrin-based skeleton inÂerythroid andÂepithelial cells. Transfusion Clinique Et Biologique, 2006, 13, 23-28.	0.4	37
64	Ammonium transport properties ofÂHEK293 cells expressing RhCG mutants: preliminary analysis ofÂstructure/function byÂsite-directed mutagenesis. Transfusion Clinique Et Biologique, 2006, 13, 128-131.	0.4	8
65	Rh proteins: Key structural and functional components of the red cell membrane. Blood Reviews, 2006, 20, 93-110.	5.7	109
66	Different Transport Mechanisms in Plant and Human AMT/Rh-type Ammonium Transporters. Journal of General Physiology, 2006, 127, 133-144.	1.9	89
67	Human Rhesus B and Rhesus C glycoproteins: properties of facilitated ammonium transport in recombinant kidney cells. Biochemical Journal, 2005, 391, 33-40.	3.7	79
68	Fine mapping of the Duffy antigen binding site for the Plasmodium vivax Duffy-binding protein. Molecular and Biochemical Parasitology, 2005, 144, 100-103.	1.1	25
69	Genetic ablation of Rhbg in the mouse does not impair renal ammonium excretion. American Journal of Physiology - Renal Physiology, 2005, 289, F1281-F1290.	2.7	78
70	Protein Kinase A-dependent Phosphorylation of Lutheran/Basal Cell Adhesion Molecule Glycoprotein Regulates Cell Adhesion to Laminin Î±5. Journal of Biological Chemistry, 2005, 280, 30055-30062.	3.4	64
71	The Ammonium Transporter RhBG. Journal of Biological Chemistry, 2005, 280, 8221-8228.	3.4	46
72	Human Rhesus-associated glycoprotein mediates facilitated transport of NH ₃ into red blood cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17222-17227.	7.1	157

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73	Direct interaction between the Lu/B-CAM adhesion glycoproteins and erythroid spectrinâ€. British Journal of Haematology, 2004, 126, 255-264.	2.5	39
74	Sequence, evolution and ligand binding properties of mammalian Duffy antigen/receptor for chemokines. Immunogenetics, 2004, 55, 682-694.	2.4	46
75	Large-Scale Pre-Diagnosis Study of Fetal RHD Genotyping by PCR on Plasma DNA from RhD-Negative Pregnant Women. Molecular Diagnosis and Therapy, 2004, 8, 23-31.	1.1	41
76	Large-Scale Pre-Diagnosis Study of Fetal RHD Genotyping by PCR on Plasma DNA from RhD-Negative Pregnant Women. Molecular Diagnosis and Therapy, 2004, 8, 23-31.	1.1	97
77	Structure-function analysis of the extracellular domains of the Duffy antigen/receptor for chemokines: characterization of antibody and chemokine binding sites. British Journal of Haematology, 2003, 122, 1014-1023.	2.5	51
78	Enhanced Expression of Duffy Antigen in the Lungs During Suppurative Pneumonia. Journal of Histochemistry and Cytochemistry, 2003, 51, 159-166.	2.5	30
79	RhBG and RhCG, the Putative Ammonia Transporters, Are Expressed in the Same Cells in the Distal Nephron. Journal of the American Society of Nephrology: JASN, 2003, 14, 545-554.	6.1	137
80	Rh-RhAG/Ankyrin-R, a New Interaction Site between the Membrane Bilayer and the Red Cell Skeleton, Is Impaired by Rhnull-associated Mutation. Journal of Biological Chemistry, 2003, 278, 25526-25533.	3.4	116
81	When renal allografts turn darc1. Transplantation, 2003, 75, 1030-1034.	1.0	41
82	Evidence that the red cell skeleton protein 4.2 interacts with the Rh membrane complex member CD47. Blood, 2003, 101, 338-344.	1.4	110
83	Cell-surface expression of RhD blood group polypeptide is posttranscriptionally regulated by the RhAG glycoprotein. Blood, 2002, 100, 1038-1047.	1.4	40
84	Structural characterization of the epitope recognized by the new anti-Fy6 monoclonal antibody NaM185-2C3. Transfusion Medicine, 2002, 12, 205-211.	1.1	37
85	Rh Proteins: A Family of Structural Membrane Proteins with Putative Transport Activity. Vox Sanguinis, 2002, 83, 179-183.	1.5	4
86	Cell-surface expression of RhD blood group polypeptide is posttranscriptionally regulated by the RhAG glycoprotein. Blood, 2002, 100, 1038-1047.	1.4	6
87	Cell-surface expression of RhD blood group polypeptide is posttranscriptionally regulated by the RhAG glycoprotein. Blood, 2002, 100, 1038-47.	1.4	11
88	Expression of chemokines and chemokine receptors during human renal transplant rejection. American Journal of Kidney Diseases, 2001, 37, 518-531.	1.9	200
89	Flow cytometric analysis of the association between blood group-related proteins and the detergent-insoluble material of K562 cells and erythroid precursors. British Journal of Haematology, 2001, 113, 680-688.	2.5	35
90	Characterization of the Laminin Binding Domains of the Lutheran Blood Group Glycoprotein. Journal of Biological Chemistry, 2001, 276, 23757-23762.	3.4	37

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91	The Duffy antigen receptor for chemokines is up-regulated during acute renal transplant rejection and crescentic glomerulonephritis. Kidney International, 2000, 58, 1546-1556.	5.2	81
92	Analysis of deletions in three McLeod patients: exclusion of the XS locus from the Xp21.1-Xp21.2 region. International Journal of Immunogenetics, 2000, 27, 29-33.	1.2	17
93	Isoforms of the Lutheran/Basal Cell Adhesion Molecule Glycoprotein Are Differentially Delivered in Polarized Epithelial Cells. Journal of Biological Chemistry, 1999, 274, 31903-31908.	3.4	47
94	Characterization of a mouse laminin receptor gene homologous to the human blood group Lutheran gene. Immunogenetics, 1999, 50, 271-277.	2.4	12
95	Structure and expression of the mouse homologue of the XK gene. Immunogenetics, 1999, 50, 16-21.	2.4	13
96	Cloning, Expression, and Chromosomal Mapping of a Human ATPase II Gene, Member of the Third Subfamily of P-Type ATPases and Orthologous to the Presumed Bovine and Murine Aminophospholipid Translocase. Biochemical and Biophysical Research Communications, 1999, 257, 333-339.	2.1	29
97	The Lutheran Blood Group Glycoproteins, the Erythroid Receptors for Laminin, Are Adhesion Molecules. Journal of Biological Chemistry, 1998, 273, 16686-16693.	3.4	118
98	Arg89Cys Substitution Results in Very Low Membrane Expression of the Duffy Antigen/Receptor for Chemokines in Fyx Individuals. Blood, 1998, 92, 2147-2156.	1.4	110
99	Arg89Cys Substitution Results in Very Low Membrane Expression of the Duffy Antigen/Receptor for Chemokines in Fyx Individuals. Blood, 1998, 92, 2147-2156.	1.4	6
100	Close Association of the First and Fourth Extracellular Domains of the Duffy Antigen/Receptor for Chemokines by a Disulfide Bond Is Required for Ligand Binding. Journal of Biological Chemistry, 1997, 272, 16274-16280.	3.4	68
101	Phosphatidylserine exposure and aminophospholipid translocase activity in Rh-deficient erythrocytes. Molecular Membrane Biology, 1997, 14, 125-132.	2.0	10
102	The 1.35-kb and 7.5-kb Duffy mRNA Isoforms Are Differently Regulated in Various Regions of Brain, Differ by the Length of Their 5â€² Untranslated Sequence, but Encode the Same Polypeptide. Blood, 1997, 90, 2851-2853.	1.4	9
103	Organization of the Human LU Gene and Molecular Basis of the Lua/Lub Blood Group Polymorphism. Blood, 1997, 89, 4608-4616.	1.4	63
104	Specificity and sensitivity of RHD genotyping methods by PCRâ€based DNA amplification. British Journal of Haematology, 1997, 98, 356-364.	2.5	79
105	The 1.35-kb and 7.5-kb Duffy mRNA Isoforms Are Differently Regulated in Various Regions of Brain, Differ by the Length of Their 5â€² Untranslated Sequence, but Encode the Same Polypeptide. Blood, 1997, 90, 2851-2853.	1.4	3
106	Tentative model for the mapping of D epitopes on the RhD polypeptide. Transfusion Clinique Et Biologique, 1996, 3, 497-503.	0.4	35
107	Molecular analysis of blood group Rh transcripts from a r G r variant. British Journal of Haematology, 1996, 93, 472-474.	2.5	27
108	Candidate gene acting as a suppressor of the RH locus in most cases of Rh-deficiency. Nature Genetics, 1996, 12, 168-173.	21.4	160

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109	Lack of G blood group antigen in D^{IIIb} erythrocytes is associated with segmental DNA exchange between RH genes. British Journal of Haematology, 1995, 89, 424-426.	2.5	40
110	Leu110Pro substitution in the RhD polypeptide is responsible for the DVII category blood group phenotype. American Journal of Hematology, 1995, 49, 87-88.	4.1	54
111	Structural analysis of the RH-like blood group gene products in nonhuman primates. Immunogenetics, 1995, 41, 271-281.	2.4	47
112	Molecular basis and PCR-DNA typing of the Fya/fyb blood group polymorphism. Human Genetics, 1995, 95, 407-410.	3.8	129
113	Disruption of a GATA motif in the Duffy gene promoter abolishes erythroid gene expression in Duffyâ€“negative individuals. Nature Genetics, 1995, 10, 224-228.	21.4	673
114	Single-cell analysis of the RhD blood type for use in preimplantation diagnosis in the prevention of severe hemolytic disease of the newborn. American Journal of Obstetrics and Gynecology, 1995, 172, 533-540.	1.3	37
115	Rh Haemolytic Disease of the Newborn and Rh genotyping by RFLP - and allele-specific â€” PCR. Transfusion Clinique Et Biologique, 1995, 2, 317-324.	0.4	3
116	Gerbich Blood Groups and Minor Glycophorins. Blood Cell Biochemistry, 1995, , 331-350.	0.3	1
117	Molecular genetic basis of RH and LW blood groups. Vox Sanguinis, 1994, 67, 67-72.	1.5	2
118	Molecular characterization of the rh-like locus and gene transcripts from the rhesus monkey (Macaca mulatta). Journal of Molecular Evolution, 1994, 38, 169-176.	1.8	28
119	PCRâ€based determination of Rhc and RhE status of fetuses at risk of Rhc and RhE haemolytic disease. British Journal of Haematology, 1994, 88, 193-195.	2.5	63
120	MOLECULAR GENETIC BASIS OF RH AND LW BLOOD GROUPS. Vox Sanguinis, 1994, 67, 67-72.	1.5	11
121	Organization of the Gene (RHCE) Encoding the Human Blood Group RhCcEe Antigens and Characterization of the Promoter Region. Genomics, 1994, 19, 68-74.	2.9	116
122	Molecular genetic basis of the human Rhesus blood group system. Nature Genetics, 1993, 5, 62-65.	21.4	279
123	Prenatal Determination of Fetal RhD Type by DNA Amplification. New England Journal of Medicine, 1993, 329, 607-610.	27.0	276
124	Molecular cloning and primary structure of the human blood group RhD polypeptide.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 10925-10929.	7.1	285
125	Erythrocyte webb-type glycophorin C variant lacks N-glycosylation due to an asparagine to serine substitution. American Journal of Hematology, 1991, 37, 51-52.	4.1	19
126	Localization of the human Rh blood group gene structure to chromosome region 1p34.3â€“1p36.1 by in situ hybridization. Human Genetics, 1991, 86, 398-400.	3.8	157

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127	An ubiquitous isoform of glycophorin C is produced by alternative splicing. Nucleic Acids Research, 1990, 18, 3076-3076.	14.5	7
128	Molecular cloning and protein structure of a human blood group Rh polypeptide.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 6243-6247.	7.1	305
129	Structure of the 5â€² flanking region of the gene encoding human glycophorin A and analysis of its multiple transcripts. Gene, 1989, 85, 471-477.	2.2	18
130	Alteration of the genes for glycophorin A and B in glycophorin-A-deficient individuals. FEBS Journal, 1988, 177, 605-614.	0.2	25
131	RFLPs for the human erythrocyte membrane glycophorin C gene. Nucleic Acids Research, 1987, 15, 1880-1880.	14.5	4
132	Gerbich blood group deficiency of the Ge:-1,-2,-3 and Ge:-1,-2,3 types.. Immunochemical study and genomic analysis with cDNA probes. FEBS Journal, 1987, 165, 571-579.	0.2	52
133	Structure of human erythrocyte glycophorin C deduced from cDNA analysis. Revue FranÃ§aise De Transfusion Et Immuno-hÃ©matologie, 1986, 29, 267-285.	0.1	3
134	Localization of the gene for human erythrocyte glycophorin C to chromosome 2, q14â€“q21. Human Genetics, 1986, 74, 420-422.	3.8	53
135	A new putative gene in the mitochondrial genome of Saccharomyces cerevisiae. Gene, 1985, 36, 1-13.	2.2	19