

Douglas Higgs

List of Publications by Year in descending order

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Version: 2024-02-01

166
papers

10,210
citations

31976

53
h-index

40979

93
g-index

236
all docs

236
docs citations

236
times ranked

11156
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable in vitro production of defined mouse erythroblasts. PLoS ONE, 2022, 17, e0261950.	2.5	8
2	Functional impairment of erythropoiesis in Congenital Dyserythropoietic Anaemia type I arises at the progenitor level. British Journal of Haematology, 2022, , .	2.5	0
3	The chromatin remodeller ATRX facilitates diverse nuclear processes, in a stochastic manner, in both heterochromatin and euchromatin. Nature Communications, 2022, 13, .	12.8	20
4	Genetic and functional insights into CDA-I prevalence and pathogenesis. Journal of Medical Genetics, 2021, 58, 185-195.	3.2	9
5	The relationship between genome structure and function. Nature Reviews Genetics, 2021, 22, 154-168.	16.3	160
6	The mouse alpha-globin cluster: a paradigm for studying genome regulation and organization. Current Opinion in Genetics and Development, 2021, 67, 18-24.	3.3	21
7	A remarkable case of HbH disease illustrates the relative contributions of the $\hat{\text{I}}\pm$ -globin enhancers to gene expression. Blood, 2021, 137, 572-575.	1.4	6
8	Enhancers predominantly regulate gene expression during differentiation via transcription initiation. Molecular Cell, 2021, 81, 983-997.e7.	9.7	27
9	Defining genome architecture at base-pair resolution. Nature, 2021, 595, 125-129.	27.8	107
10	A gain-of-function single nucleotide variant creates a new promoter which acts as an orientation-dependent enhancer-blocker. Nature Communications, 2021, 12, 3806.	12.8	18
11	Reactivation of a developmentally silenced embryonic globin gene. Nature Communications, 2021, 12, 4439.	12.8	19
12	Testing the super-enhancer concept. Nature Reviews Genetics, 2021, 22, 749-755.	16.3	53
13	Recapitulation of erythropoiesis in congenital dyserythropoietic anemia type I (CDA-I) identifies defects in differentiation and nucleolar abnormalities. Haematologica, 2021, 106, 2960-2970.	3.5	10
14	The EHA Research Roadmap: Normal Hematopoiesis. HemaSphere, 2021, 5, e669.	2.7	1
15	Base Editing Repairs the HbE Mutation Restoring the Production of Normal Globin Chains in Severe HbE/ $\hat{\text{I}}^2$ -Thalassemia Patient Hematopoietic Stem Cells and Erythroid Cells. Blood, 2021, 138, 2935-2935.	1.4	0
16	Systematic integration of GATA transcription factors and epigenomes via IDEAS paints the regulatory landscape of hematopoietic cells. IUBMB Life, 2020, 72, 27-38.	3.4	8
17	Loss of Extreme Long-Range Enhancers in Human Neural Crest Drives a Craniofacial Disorder. Cell Stem Cell, 2020, 27, 765-783.e14.	11.1	101
18	Enhancerâ€™promoter interactions and transcription. Nature Genetics, 2020, 52, 470-471.	21.4	15

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19	Dynamics of the 4D genome during in vivo lineage specification and differentiation. <i>Nature Communications</i> , 2020, 11, 2722.	12.8	79
20	An evolutionarily ancient mechanism for regulation of hemoglobin expression in vertebrate red cells. <i>Blood</i> , 2020, 136, 269-278.	1.4	16
21	An integrative view of the regulatory and transcriptional landscapes in mouse hematopoiesis. <i>Genome Research</i> , 2020, 30, 472-484.	5.5	38
22	A Dynamic Folded Hairpin Conformation Is Associated with $\hat{\alpha}$ -Globin Activation in Erythroid Cells. <i>Cell Reports</i> , 2020, 30, 2125-2135.e5.	6.4	38
23	ATR-16 syndrome: mechanisms linking monosomy to phenotype. <i>Journal of Medical Genetics</i> , 2020, 57, 414-421.	3.2	7
24	The bipartite TAD organization of the X-inactivation center ensures opposing developmental regulation of Tsix and Xist. <i>Nature Genetics</i> , 2019, 51, 1024-1034.	21.4	60
25	Single-Cell Proteomics Reveal that Quantitative Changes in Co-expressed Lineage-Specific Transcription Factors Determine Cell Fate. <i>Cell Stem Cell</i> , 2019, 24, 812-820.e5.	11.1	99
26	A revised model for promoter competition based on multi-way chromatin interactions at the $\hat{\alpha}$ -globin locus. <i>Nature Communications</i> , 2019, 10, 5412.	12.8	60
27	The Loss of ATRX Increases Susceptibility to Pancreatic Injury and Oncogenic KRAS in Female But Not Male Mice. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 93-113.	4.5	14
28	Beta thalassaemia intermedia due to coinheritance of three unique alpha globin cluster duplications characterised by next generation sequencing analysis. <i>British Journal of Haematology</i> , 2018, 180, 160-164.	2.5	19
29	Molecular Basis and Genetic Modifiers of Thalassemia. <i>Hematology/Oncology Clinics of North America</i> , 2018, 32, 177-191.	2.2	93
30	Phenotypic and molecular characterization of a serum-free miniature erythroid differentiation system suitable for high-throughput screening and single-cell assays. <i>Experimental Hematology</i> , 2018, 60, 10-20.	0.4	6
31	A tissue-specific self-interacting chromatin domain forms independently of enhancer-promoter interactions. <i>Nature Communications</i> , 2018, 9, 3849.	12.8	62
32	Anaemia among females in child-bearing age: Relative contributions, effects and interactions of $\hat{\alpha}$ - and $\hat{\beta}$ -thalassaemia. <i>PLoS ONE</i> , 2018, 13, e0206928.	2.5	17
33	Single-allele chromatin interactions identify regulatory hubs in dynamic compartmentalized domains. <i>Nature Genetics</i> , 2018, 50, 1744-1751.	21.4	150
34	Robust CRISPR/Cas9 Genome Editing of the HUDEP-2 Erythroid Precursor Line Using Plasmids and Single-Stranded Oligonucleotide Donors. <i>Methods and Protocols</i> , 2018, 1, 28.	2.0	17
35	Potential new approaches to the management of the Hb Bart's hydrops fetalis syndrome: the most severe form of $\hat{\alpha}$ -thalassaemia. <i>Hematology American Society of Hematology Education Program</i> , 2018, 2018, 353-360.	2.5	25
36	How to Tackle Challenging ChIP-Seq, with Long-Range Cross-Linking, Using ATRX as an Example. <i>Methods in Molecular Biology</i> , 2018, 1832, 105-130.	0.9	7

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37	Expression of the Human Alpha-Globin Cluster in the Absence of the Major Regulatory Element Mcs-R2. <i>Blood</i> , 2018, 132, 3632-3632.	1.4	1
38	How best to identify chromosomal interactions: a comparison of approaches. <i>Nature Methods</i> , 2017, 14, 125-134.	19.0	124
39	Selective silencing of β -globin by the histone demethylase inhibitor IOX1: a potentially new pathway for treatment of β -thalassemia. <i>Haematologica</i> , 2017, 102, e80-e84.	3.5	33
40	Functional characterisation of cis-regulatory elements governing dynamic α expression in the early mouse embryo. <i>Development (Cambridge)</i> , 2017, 144, 1249-1260.	2.5	32
41	An international registry of survivors with Hb Bart's hydrops fetalis syndrome. <i>Blood</i> , 2017, 129, 1251-1259.	1.4	59
42	The chromatin remodelling factor <i>ATRX</i> suppresses R-loops in transcribed telomeric repeats. <i>EMBO Reports</i> , 2017, 18, 914-928.	4.5	99
43	DNA methylation of intragenic CpG islands depends on their transcriptional activity during differentiation and disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7526-E7535.	7.1	125
44	Sasquatch: predicting the impact of regulatory SNPs on transcription factor binding from cell- and tissue-specific DNase footprints. <i>Genome Research</i> , 2017, 27, 1730-1742.	5.5	33
45	Editing an α -globin enhancer in primary human hematopoietic stem cells as a treatment for β -thalassemia. <i>Nature Communications</i> , 2017, 8, 424.	12.8	85
46	Tissue-specific CTCF-cohesin-mediated chromatin architecture delimits enhancer interactions and function in vivo. <i>Nature Cell Biology</i> , 2017, 19, 952-961.	10.3	179
47	Between form and function: the complexity of genome folding. <i>Human Molecular Genetics</i> , 2017, 26, R208-R215.	2.9	20
48	Robust detection of chromosomal interactions from small numbers of cells using low-input Capture-C. <i>Nucleic Acids Research</i> , 2017, 45, e184-e184.	14.5	27
49	Understanding β -globin gene regulation and implications for the treatment of β -thalassemia. <i>Annals of the New York Academy of Sciences</i> , 2016, 1368, 16-24.	3.8	44
50	Genetic dissection of the α -globin super-enhancer in vivo. <i>Nature Genetics</i> , 2016, 48, 895-903.	21.4	308
51	MicroRNAs of the miR-290/295 Family Maintain Bivalency in Mouse Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 635-642.	4.8	24
52	KLF1-perturbing erythropoiesis: an unexpected broad spectrum of human red blood cell disorders due to KLF1 variants. <i>Blood</i> , 2016, 127, 1856-1862.	1.4	124
53	Haemoglobin Variant Screening in Jamaica: Meeting Student's Request. <i>British Journal of Haematology</i> , 2016, 172, 634-636.	2.5	10
54	Transcription factors LRF and BCL11A independently repress expression of fetal hemoglobin. <i>Science</i> , 2016, 351, 285-289.	12.6	260

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55	Multiplexed analysis of chromosome conformation at vastly improved sensitivity. <i>Nature Methods</i> , 2016, 13, 74-80.	19.0	225
56	Stem Cell Transplantation. , 2015, , 651-675.		1
57	Hereditary Disorders of the Red Cell Membrane and Disorders of Red Cell Metabolism. , 2015, , 114-137.		1
58	Studying epigenomics in single cells: what is feasible and what can we learn?. <i>Epigenomics</i> , 2015, 7, 1231-1234.	2.1	2
59	Suppression of the alternative lengthening of telomere pathway by the chromatin remodelling factor ATRX. <i>Nature Communications</i> , 2015, 6, 7538.	12.8	219
60	ATRX Plays a Key Role in Maintaining Silencing at Interstitial Heterochromatic Loci and Imprinted Genes. <i>Cell Reports</i> , 2015, 11, 405-418.	6.4	152
61	Î±-Globin as a molecular target in the treatment of Î²-thalassemia. <i>Blood</i> , 2015, 125, 3694-3701.	1.4	102
62	An international effort to cure a global health problem: A report on the 19th Hemoglobin Switching Conference. <i>Experimental Hematology</i> , 2015, 43, 821-837.	0.4	7
63	ATRX Dysfunction Induces Replication Defects in Primary Mouse Cells. <i>PLoS ONE</i> , 2014, 9, e92915.	2.5	84
64	Mutations in KrÄppel-like factor 1 cause transfusion-dependent hemolytic anemia and persistence of embryonic globin gene expression. <i>Blood</i> , 2014, 123, 1586-1595.	1.4	76
65	Analysis of hundreds of cis-regulatory landscapes at high resolution in a single, high-throughput experiment. <i>Nature Genetics</i> , 2014, 46, 205-212.	21.4	417
66	Considerations when investigating lncRNA function in vivo. <i>ELife</i> , 2014, 3, e03058.	6.0	309
67	Regulated RNA Expression and Normal Erythropoiesis. <i>Blood</i> , 2014, 124, SCI-34-SCI-34.	1.4	0
68	Chromatin signatures at transcriptional start sites separate two equally populated yet distinct classes of intergenic long noncoding RNAs. <i>Genome Biology</i> , 2013, 14, R131.	9.6	183
69	Analysis of Sequence Variation Underlying Tissue-specific Transcription Factor Binding and Gene Expression. <i>Human Mutation</i> , 2013, 34, 1140-1148.	2.5	10
70	Causes and Consequences of Chromatin Variation between Inbred Mice. <i>PLoS Genetics</i> , 2013, 9, e1003570.	3.5	18
71	High-resolution analysis of cis-acting regulatory networks at the Î±-globin locus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120361.	4.0	12
72	Homozygous mutations in a predicted endonuclease are a novel cause of congenital dyserythropoietic anemia type I. <i>Haematologica</i> , 2013, 98, 1383-1387.	3.5	71

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73	The Molecular Basis of $\hat{\alpha}$ -Thalassemia. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a011718-a011718.	6.2	106
74	Dynamics and Mechanics Of KLF1 Regulation In Erythropoiesis. Blood, 2013, 122, 2176-2176.	1.4	11
75	Thalassaemia. Lancet, The, 2012, 379, 373-383.	13.7	371
76	Intragenic Enhancers Act as Alternative Promoters. Molecular Cell, 2012, 45, 447-458.	9.7	237
77	Nprl3 is required for normal development of the cardiovascular system. Mammalian Genome, 2012, 23, 404-415.	2.2	38
78	Global gene expression analysis of human erythroid progenitors. Blood, 2011, 117, e96-e108.	1.4	95
79	Codanin-1 mutations in congenital dyserythropoietic anemia type 1 affect HP1 $\hat{\alpha}$ localization in erythroblasts. Blood, 2011, 117, 6928-6938.	1.4	58
80	Systematic documentation and analysis of human genetic variation in hemoglobinopathies using the microattribution approach. Nature Genetics, 2011, 43, 295-301.	21.4	142
81	$\hat{\alpha}$ -thalassaemia. Orphanet Journal of Rare Diseases, 2010, 5, 13.	2.7	417
82	The Molecular Basis of $\hat{\alpha}$ -Thalassemia: A Model for Understanding Human Molecular Genetics. Hematology/Oncology Clinics of North America, 2010, 24, 1033-1054.	2.2	36
83	A Developmental Approach to Hematopoiesis. , 2009, , 3-23.		0
84	The Erythrocyte Membrane. , 2009, , 158-184.		3
85	The Molecular Basis of $\hat{\alpha}$ Thalassemia. , 2009, , 241-265.		1
86	Dyshemoglobinemias. , 2009, , 607-622.		11
87	Transfusion and Iron Chelation Therapy in Thalassemia and Sickle Cell Disease. , 2009, , 689-744.		2
88	Prospects for Gene Therapy of Sickle Cell Disease and Thalassemia. , 2009, , 791-814.		0
89	Foreword, by H. Franklin Bunn. , 2009, , xv-xvi.		0
90	Nuclear Factors That Regulate Erythropoiesis. , 2009, , 62-85.		3

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91	Rheology and Vascular Pathobiology in Sickle Cell Disease and Thalassemia. , 2009, , 139-157.		1
92	Novel Approaches to Treatment. , 2009, , 755-773.		0
93	Stem Cell Transplantation. , 2009, , 774-790.		0
94	THE $\hat{\alpha}^2$ THALASSEMIAS. , 2009, , 321-322.		0
95	Clinical Aspects of $\hat{\alpha}^2$ Thalassemia and Related Disorders. , 2009, , 357-416.		10
96	THE MOLECULAR, CELLULAR, AND GENETIC BASIS OF HEMOGLOBIN DISORDERS. , 2009, , 1-2.		0
97	Mechanisms and Clinical Complications of Hemolysis in Sickle Cell Disease and Thalassemia. , 2009, , 201-224.		9
98	The Pathophysiology and Clinical Features of $\hat{\alpha}^{\pm}$ Thalassaemia. , 2009, , 266-295.		7
99	The Molecular Basis of $\hat{\alpha}^2$ Thalassemia, $\hat{\alpha}^{\pm}$ Thalassemia, and Hereditary Persistence of Fetal Hemoglobin. , 2009, , 323-356.		34
100	Adventitious changes in long-range gene expression caused by polymorphic structural variation and promoter competition. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21771-21776.	7.1	77
101	Chromosome looping at the human $\hat{\alpha}^{\pm}$ -globin locus is mediated via the major upstream regulatory element (HS $\hat{\alpha}^{\sim}40$). Blood, 2009, 114, 4253-4260.	1.4	79
102	Clinical and Pathophysiological Aspects of Sickle Cell Anemia. , 2009, , 437-496.		3
103	PATHOPHYSIOLOGY OF HEMOGLOBIN AND ITS DISORDERS. , 2009, , 137-138.		0
104	Genetic Modulation of Sickle Cell Disease and Thalassemia. , 2009, , 638-657.		4
105	Sickle Cell Trait. , 2009, , 549-563.		0
106	SPECIAL TOPICS IN HEMOGLOBINOPATHIES. , 2009, , 623-624.		0
107	NEW APPROACHES TO THE TREATMENT OF HEMOGLOBINOPATHIES AND THALASSEMIA. , 2009, , 687-688.		0
108	OTHER CLINICALLY IMPORTANT DISORDERS OF HEMOGLOBIN. , 2009, , 587-588.		0

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109	Erythropoiesis. , 2009, , 24-45.		1
110	Hemoglobins of the Embryo, Fetus, and Adult. , 2009, , 119-136.		10
111	Hemoglobin E Disorders. , 2009, , 417-434.		10
112	Association between active genes occurs at nuclear speckles and is modulated by chromatin environment. Journal of Cell Biology, 2008, 182, 1083-1097.	5.2	231
113	Chapter 5 Long-Range Regulation of β -Globin Gene Expression. Advances in Genetics, 2008, 61, 143-173.	1.8	30
114	A large deletion in the human β -globin cluster caused by a replication error is associated with an unexpectedly mild phenotype. Human Molecular Genetics, 2008, 17, 3084-3093.	2.9	26
115	Genetic complexity in sickle cell disease. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11595-11596.	7.1	43
116	A New Dawn for Stem-Cell Therapy. New England Journal of Medicine, 2008, 358, 964-966.	27.0	12
117	Long-range regulation of β globin gene expression during erythropoiesis. Current Opinion in Hematology, 2008, 15, 176-183.	2.5	66
118	Switching Genes On and Off During Hematopoiesis.. Blood, 2008, 112, sci-17-sci-17.	1.4	0
119	Analysis of DNA Methylation at the Human Alpha Globin Cluster during Hematopoiesis.. Blood, 2008, 112, 1861-1861.	1.4	0
120	Manipulating the Mouse Genome to Engineer Precise Syntenic Replacements with Human Sequence. Cell, 2007, 128, 197-209.	28.9	150
121	Tissue-specific histone modification and transcription factor binding in β globin gene expression. Blood, 2007, 110, 4503-4510.	1.4	69
122	Using Genomics to Study How Chromatin Influences Gene Expression. Annual Review of Genomics and Human Genetics, 2007, 8, 299-325.	6.2	33
123	Long-range chromosomal interactions regulate the timing of the transition between poised and active gene expression. EMBO Journal, 2007, 26, 2041-2051.	7.8	224
124	A Regulatory SNP Causes a Human Genetic Disease by Creating a New Transcriptional Promoter. Science, 2006, 312, 1215-1217.	12.6	254
125	A lack of border guards?. Blood, 2006, 108, 1121-1121.	1.4	0
126	5-Azacytidine treatment of the patient with ATMDs. European Journal of Haematology, 2006, 76, 453-453.	2.2	0

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127	Coregulated human globin genes are frequently in spatial proximity when active. <i>Journal of Cell Biology</i> , 2006, 172, 177-187.	5.2	192
128	How transcriptional and epigenetic programmes are played out on an individual mammalian gene cluster during lineage commitment and differentiation. <i>Biochemical Society Symposia</i> , 2006, 73, 11-22.	2.7	7
129	Annotation of cis-regulatory elements by identification, subclassification, and functional assessment of multispecies conserved sequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9830-9835.	7.1	133
130	An Entirely Novel Form of $\hat{1}\pm$ Thalassemia in Patients from the South Pacific Linked to Chromosome 16.. <i>Blood</i> , 2005, 106, 2688-2688.	1.4	4
131	Ham-Wasserman Lecture. Hematology American Society of Hematology Education Program, 2004, 2004, 1-13.	2.5	25
132	Globin gene activation during haemopoiesis is driven by protein complexes nucleated by GATA-1 and GATA-2. <i>EMBO Journal</i> , 2004, 23, 2841-2852.	7.8	193
133	A Novel Splicing Mutation in the Gene Encoding the Chromatin-Associated Factor ATRX Associated with Acquired Hemoglobin H Disease in Myelodysplastic Syndrome (ATMDS).. <i>Blood</i> , 2004, 104, 3606-3606.	1.4	3
134	De novo deletion within the telomeric region flanking the human $\hat{1}\pm$ globin locus as a cause of $\hat{1}\pm$ thalassaemia. <i>British Journal of Haematology</i> , 2003, 120, 867-875.	2.5	36
135	Functional and comparative analysis of globin loci in pufferfish and humans. <i>Blood</i> , 2003, 101, 2842-2849.	1.4	53
136	Deletion of the mouse $\hat{1}\pm$ -globin regulatory element (HS $\hat{1}\pm$ 26) has an unexpectedly mild phenotype. <i>Blood</i> , 2002, 100, 3450-3456.	1.4	53
137	Monosomy for the most telomeric, gene-rich region of the short arm of human chromosome 16 causes minimal phenotypic effects. <i>European Journal of Human Genetics</i> , 2001, 9, 217-225.	2.8	47
138	Expression of $\hat{1}\pm$ - and $\hat{1}^2$ -globin genes occurs within different nuclear domains in haemopoietic cells. <i>Nature Cell Biology</i> , 2001, 3, 602-606.	10.3	139
139	Comparative genome analysis delimits a chromosomal domain and identifies key regulatory elements in the alpha globin cluster. <i>Human Molecular Genetics</i> , 2001, 10, 371-382.	2.9	151
140	Sequence, structure and pathology of the fully annotated terminal 2 Mb of the short arm of human chromosome 16. <i>Human Molecular Genetics</i> , 2001, 10, 339-352.	2.9	81
141	A nonsense mutation of the ATRX gene causing mild mental retardation and epilepsy. <i>Annals of Neurology</i> , 2000, 47, 117-121.	5.3	72
142	Comparison of the human and murine ATRX gene identifies highly conserved, functionally important domains. <i>Mammalian Genome</i> , 1998, 9, 400-403.	2.2	64
143	The relationship between chromosome structure and function at a human telomeric region. <i>Nature Genetics</i> , 1997, 15, 252-257.	21.4	143
144	Mutations in transcriptional regulator ATRX establish the functional significance of a PHD-like domain. <i>Nature Genetics</i> , 1997, 17, 146-148.	21.4	196

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145	X-linked β -thalassemia/mental retardation (ATR-X) syndrome: A new kindred with severe genital anomalies and mild hematologic expression. American Journal of Medical Genetics Part A, 1995, 55, 302-306.	2.4	50
146	β -Thalassaemia. Best Practice and Research: Clinical Haematology, 1993, 6, 117-150.	1.1	94
147	A base substitution (T \rightarrow C) in codon 29 of the β -globin gene causes β -thalassaemia. British Journal of Haematology, 1993, 85, 546-552.	2.5	47
148	The haematology of homozygous sickle cell disease after the age of 40 years. British Journal of Haematology, 1991, 77, 382-385.	2.5	44
149	A truncated human chromosome 16 associated with β -thalassaemia is stabilized by addition of telomeric repeat (TTAGCC) _n . Nature, 1990, 346, 868-871.	27.8	300
150	Individual specific DNA fingerprints from a hypervariable region probe: alpha-globin 3'HVR. Human Genetics, 1988, 79, 142-146.	3.8	71
151	Structure and expression of the human β -globin gene. Nature, 1988, 331, 94-96.	27.8	53
152	Hemoglobin SC Disease and Hemoglobin C Disorders. , 0, , 525-548.		4
153	Molecular and Cellular Basis of Hemoglobin Switching. , 0, , 86-100.		3
154	Introduction, by David J. Weatherall. , 0, , xix-xx.		0
155	The Biology of Vascular Nitric Oxide. , 0, , 185-200.		0
156	Animal Models of Hemoglobinopathies and Thalassemia. , 0, , 225-238.		0
157	β -THALASSEMIA. , 0, , 239-240.		6
158	Structure and Function of Hemoglobin and Its Dysfunction in Sickle Cell Disease. , 0, , 101-118.		0
159	Unusual Types of β -Thalassemia. , 0, , 296-320.		2
160	Population Genetics and Global Health Burden. , 0, , 625-637.		1
161	Induction of Fetal Hemoglobin in the Treatment of Sickle Cell Disease and β -Thalassemia. , 0, , 745-754.		6
162	Unstable Hemoglobins, Hemoglobins with Altered Oxygen Affinity, Hemoglobin M, and Other Variants of Clinical and Biological Interest. , 0, , 589-606.		6

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163	Sickle Cell Pain: Biology, Etiology, and Treatment. , 0, , 497-524.		5
164	Laboratory Methods for Diagnosis and Evaluation of Hemoglobin Disorders. , 0, , 658-686.		3
165	Other Sickle Hemoglobinopathies. , 0, , 564-586.		4
166	The Normal Structure and Regulation of Human Globin Gene Clusters. , 0, , 46-61.		8