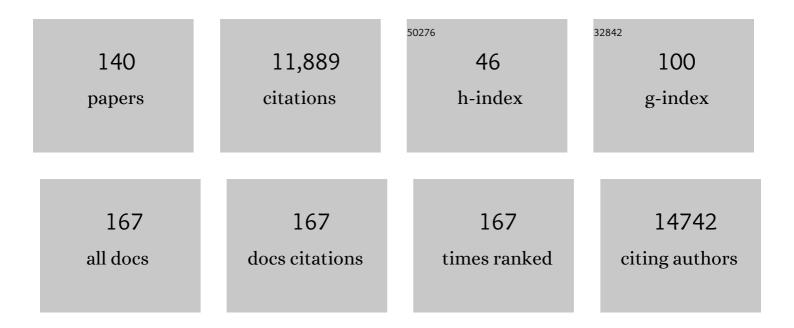
Vijay G Sankaran

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Human Fetal Hemoglobin Expression Is Regulated by the Developmental Stage-Specific Repressor <i>BCL11A</i> . Science, 2008, 322, 1839-1842.	12.6	759
2	Mapping the human genetic architecture of COVID-19. Nature, 2021, 600, 472-477.	27.8	640
3	Genome-wide association study shows <i>BCL11A</i> associated with persistent fetal hemoglobin and amelioration of the phenotype of β-thalassemia. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1620-1625.	7.1	561
4	DNA polymorphisms at the <i>BCL11A</i> , <i>HBS1L-MYB</i> , and β- <i>globin</i> loci associate with fetal hemoglobin levels and pain crises in sickle cell disease. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11869-11874.	7.1	510
5	The Polygenic and Monogenic Basis of Blood Traits and Diseases. Cell, 2020, 182, 1214-1231.e11.	28.9	388
6	Inherited causes of clonal haematopoiesis in 97,691 whole genomes. Nature, 2020, 586, 763-768.	27.8	376
7	Trans-ethnic and Ancestry-Specific Blood-Cell Genetics in 746,667 Individuals from 5 Global Populations. Cell, 2020, 182, 1198-1213.e14.	28.9	353
8	Lineage Tracing in Humans Enabled by Mitochondrial Mutations and Single-Cell Genomics. Cell, 2019, 176, 1325-1339.e22.	28.9	345
9	Developmental and species-divergent globin switching are driven by BCL11A. Nature, 2009, 460, 1093-1097.	27.8	339
10	Transcriptional silencing of \hat{I}^3 -globin by BCL11A involves long-range interactions and cooperation with SOX6. Genes and Development, 2010, 24, 783-798.	5.9	304
11	Ribosome Levels Selectively Regulate Translation and Lineage Commitment in Human Hematopoiesis. Cell, 2018, 173, 90-103.e19.	28.9	296
12	Systematic Functional Dissection of Common Genetic Variation Affecting Red Blood Cell Traits. Cell, 2016, 165, 1530-1545.	28.9	294
13	Exome sequencing identifies GATA1 mutations resulting in Diamond-Blackfan anemia. Journal of Clinical Investigation, 2012, 122, 2439-2443.	8.2	292
14	Correction of Sickle Cell Disease in Adult Mice by Interference with Fetal Hemoglobin Silencing. Science, 2011, 334, 993-996.	12.6	281
15	Coronavirus disease 2019 in patients with inborn errors of immunity: An international study. Journal of Allergy and Clinical Immunology, 2021, 147, 520-531.	2.9	278
16	Scalable, multimodal profiling of chromatin accessibility, gene expression and protein levels in single cells. Nature Biotechnology, 2021, 39, 1246-1258.	17.5	244
17	Fine-mapping at three loci known to affect fetal hemoglobin levels explains additional genetic variation. Nature Genetics, 2010, 42, 1049-1051.	21.4	243
18	Altered translation of GATA1 in Diamond-Blackfan anemia. Nature Medicine, 2014, 20, 748-753.	30.7	243

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19	The Switch from Fetal to Adult Hemoglobin. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a011643-a011643.	6.2	214
20	Anemia: progress in molecular mechanisms and therapies. Nature Medicine, 2015, 21, 221-230.	30.7	209
21	MicroRNA-15a and -16-1 act via MYB to elevate fetal hemoglobin expression in human trisomy 13. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1519-1524.	7.1	186
22	The Genetic Landscape of Diamond-Blackfan Anemia. American Journal of Human Genetics, 2018, 103, 930-947.	6.2	184
23	Advances in the understanding of haemoglobin switching. British Journal of Haematology, 2010, 149, 181-194.	2.5	180
24	Mapping transcriptomic vector fields of single cells. Cell, 2022, 185, 690-711.e45.	28.9	167
25	A Functional Element Necessary for Fetal Hemoglobin Silencing. New England Journal of Medicine, 2011, 365, 807-814.	27.0	161
26	Clinical experience with fetal hemoglobin induction therapy in patients with β-thalassemia. Blood, 2013, 121, 2199-2212.	1.4	154
27	Massively parallel single-cell mitochondrial DNA genotyping and chromatin profiling. Nature Biotechnology, 2021, 39, 451-461.	17.5	150
28	Interrogation of human hematopoiesis at single-cell and single-variant resolution. Nature Genetics, 2019, 51, 683-693.	21.4	147
29	Erythropoietin couples erythropoiesis, B-lymphopoiesis, and bone homeostasis within the bone marrow microenvironment. Blood, 2011, 117, 5631-5642.	1.4	123
30	Transcriptional States and Chromatin Accessibility Underlying Human Erythropoiesis. Cell Reports, 2019, 27, 3228-3240.e7.	6.4	122
31	BCL11A deletions result in fetal hemoglobin persistence and neurodevelopmental alterations. Journal of Clinical Investigation, 2015, 125, 2363-2368.	8.2	122
32	<i>Rb</i> intrinsically promotes erythropoiesis by coupling cell cycle exit with mitochondrial biogenesis. Genes and Development, 2008, 22, 463-475.	5.9	118
33	Advances in understanding erythropoiesis: evolving perspectives. British Journal of Haematology, 2016, 173, 206-218.	2.5	109
34	Inherited myeloproliferative neoplasm risk affects haematopoietic stem cells. Nature, 2020, 586, 769-775.	27.8	101
35	Cyclin D3 coordinates the cell cycle during differentiation to regulate erythrocyte size and number. Genes and Development, 2012, 26, 2075-2087.	5.9	100
36	Functional Selectivity in Cytokine Signaling Revealed Through a Pathogenic EPO Mutation. Cell, 2017, 168, 1053-1064.e15.	28.9	98

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37	Therapeutic levels of fetal hemoglobin in erythroid progeny of β-thalassemic CD34+ cells after lentiviral vector-mediated gene transfer. Blood, 2011, 117, 2817-2826.	1.4	96
38	Unraveling Hematopoiesis through the Lens of Genomics. Cell, 2020, 182, 1384-1400.	28.9	96
39	Topological control of cytokine receptor signaling induces differential effects in hematopoiesis. Science, 2019, 364, .	12.6	89
40	Fetal hemoglobin levels and morbidity in untransfused patients with β-thalassemia intermedia. Blood, 2012, 119, 364-367.	1.4	85
41	Targeted Therapeutic Strategies for Fetal Hemoglobin Induction. Hematology American Society of Hematology Education Program, 2011, 2011, 459-465.	2.5	78
42	Targeted Application of Human Genetic Variation Can Improve Red Blood Cell Production from Stem Cells. Cell Stem Cell, 2016, 18, 73-78.	11.1	78
43	Transcriptional divergence and conservation of human and mouse erythropoiesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4103-4108.	7.1	76
44	Control of human hemoglobin switching by LIN28B-mediated regulation of BCL11A translation. Nature Genetics, 2020, 52, 138-145.	21.4	73
45	Thalassemia: An Overview of 50 Years of Clinical Research. Hematology/Oncology Clinics of North America, 2010, 24, 1005-1020.	2.2	62
46	Purifying Selection against Pathogenic Mitochondrial DNA in Human T Cells. New England Journal of Medicine, 2020, 383, 1556-1563.	27.0	62
47	Insight into GATA1 transcriptional activity through interrogation of <i>cis</i> elements disrupted in human erythroid disorders. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4434-4439.	7.1	56
48	Adenosine-to-inosine RNA editing by ADAR1 is essential for normal murine erythropoiesis. Experimental Hematology, 2016, 44, 947-963.	0.4	52
49	Transcriptional silencing of fetal hemoglobin by BCL11A. Annals of the New York Academy of Sciences, 2010, 1202, 64-68.	3.8	50
50	Defining the Minimal Factors Required for Erythropoiesis through Direct Lineage Conversion. Cell Reports, 2016, 15, 2550-2562.	6.4	48
51	HRI coordinates translation necessary for protein homeostasis and mitochondrial function in erythropoiesis. ELife, 2019, 8, .	6.0	47
52	Whole-Exome Sequencing Identifies Loci Associated with Blood Cell Traits and Reveals a Role for Alternative GFI1B Splice Variants in Human Hematopoiesis. American Journal of Human Genetics, 2016, 99, 481-488.	6.2	45
53	Common α-globin variants modify hematologic and other clinical phenotypes in sickle cell trait and disease. PLoS Genetics, 2018, 14, e1007293.	3.5	45
54	Mitochondrial variant enrichment from high-throughput single-cell RNA sequencing resolves clonal populations. Nature Biotechnology, 2022, 40, 1030-1034.	17.5	45

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55	X-linked macrocytic dyserythropoietic anemia in females with an ALAS2 mutation. Journal of Clinical Investigation, 2015, 125, 1665-1669.	8.2	43
56	Altered Chromatin Occupancy of Master Regulators Underlies Evolutionary Divergence in the Transcriptional Landscape of Erythroid Differentiation. PLoS Genetics, 2014, 10, e1004890.	3.5	42
57	Regulation of the fetal hemoglobin silencing factor BCL11A. Annals of the New York Academy of Sciences, 2016, 1368, 25-30.	3.8	39
58	Comprehensive population-based genome sequencing provides insight into hematopoietic regulatory mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E327-E336.	7.1	39
59	Stabilizing HIF to Ameliorate Anemia. Cell, 2020, 180, 6.	28.9	39
60	Reversing the Hemoglobin Switch. New England Journal of Medicine, 2010, 363, 2258-2260.	27.0	38
61	The severity of hereditary porphyria is modulated by the porphyrin exporter and Lan antigen ABCB6. Nature Communications, 2016, 7, 12353.	12.8	37
62	Mutations in the substrate binding glycine-rich loop of the mitochondrial processing peptidase-α protein (PMPCA) cause a severe mitochondrial disease. Journal of Physical Education and Sports Management, 2016, 2, a000786.	1.2	33
63	The genetics of human hematopoiesis and its disruption in disease. EMBO Molecular Medicine, 2019, 11, e10316.	6.9	32
64	COVIDâ€19 presenting with autoimmune hemolytic anemia in the setting of underlying immune dysregulation. Pediatric Blood and Cancer, 2020, 67, e28382.	1.5	32
65	Genome-wide association studies of hematologic phenotypes: a window into human hematopoiesis. Current Opinion in Genetics and Development, 2013, 23, 339-344.	3.3	31
66	Longitudinal Single-Cell Dynamics of Chromatin Accessibility and Mitochondrial Mutations in Chronic Lymphocytic Leukemia Mirror Disease History. Cancer Discovery, 2021, 11, 3048-3063.	9.4	31
67	Inducible Gata1 suppression expands megakaryocyte-erythroid progenitors from embryonic stem cells. Journal of Clinical Investigation, 2015, 125, 2369-2374.	8.2	29
68	Deubiquitylase USP7 regulates human terminal erythroid differentiation by stabilizing GATA1. Haematologica, 2019, 104, 2178-2188.	3.5	28
69	Modifier genes in Mendelian disorders: the example of hemoglobin disorders. Annals of the New York Academy of Sciences, 2010, 1214, 47-56.	3.8	27
70	Impaired human hematopoiesis due to a cryptic intronic GATA1 splicing mutation. Journal of Experimental Medicine, 2019, 216, 1050-1060.	8.5	27
71	Infantile Myelofibrosis and Myeloproliferation with CDC42 Dysfunction. Journal of Clinical Immunology, 2020, 40, 554-566.	3.8	27
72	Calmodulin inhibitors improve erythropoiesis in Diamond-Blackfan anemia. Science Translational Medicine, 2020, 12, .	12.4	26

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73	Clonal hematopoiesis in sickle cell disease. Journal of Clinical Investigation, 2022, 132, .	8.2	26
74	Applications of high-throughput DNA sequencing to benign hematology. Blood, 2013, 122, 3575-3582.	1.4	25
75	Rare complete loss of function provides insight into a pleiotropic genome-wide association study locus. Blood, 2013, 122, 3845-3847.	1.4	25
76	Survival and causes of death in 2,033 patients with non-transfusion-dependent β-thalassemia. Haematologica, 2021, 106, 2489-2492.	3.5	25
77	CUT&RUNTools 2.0: a pipeline for single-cell and bulk-level CUT&RUN and CUT&Tag data analysis. Bioinformatics, 2021, 38, 252-254.	4.1	25
78	Variant to function mapping at single-cell resolution through network propagation. Nature Biotechnology, 2022, 40, 1644-1653.	17.5	25
79	A unified model of human hemoglobin switching through single-cell genome editing. Nature Communications, 2021, 12, 4991.	12.8	22
80	Molecular and cellular mechanisms that regulate human erythropoiesis. Blood, 2022, 139, 2450-2459.	1.4	22
81	Unexpected role for p19INK4d in posttranscriptional regulation of GATA1 and modulation of human terminal erythropoiesis. Blood, 2017, 129, 226-237.	1.4	21
82	Developmentallyâ€faithful and effective human erythropoiesis in immunodeficient and <i>Kit</i> mutant mice. American Journal of Hematology, 2017, 92, E513-E519.	4.1	20
83	Familial thrombocytopenia due to a complex structural variant resulting in a <i>WAC-ANKRD26</i> fusion transcript. Journal of Experimental Medicine, 2021, 218, .	8.5	20
84	Ribonuclease inhibitor 1 regulates erythropoiesis by controlling GATA1 translation. Journal of Clinical Investigation, 2018, 128, 1597-1614.	8.2	20
85	Risk of mortality from anemia and iron overload in nontransfusionâ€dependent βâ€thalassemia. American Journal of Hematology, 2022, 97, .	4.1	19
86	Functional Assays to Screen and Dissect Genomic Hits. Circulation Genomic and Precision Medicine, 2018, 11, e002178.	3.6	18
87	Rb and hematopoiesis: stem cells to anemia. Cell Division, 2008, 3, 13.	2.4	17
88	Characterization of Deletions of the HBA and HBB Loci by Array Comparative Genomic Hybridization. Journal of Molecular Diagnostics, 2016, 18, 92-99.	2.8	17
89	Genomeâ€wide association study followâ€up identifies cyclin A2 as a regulator of the transition through cytokinesis during terminal erythropoiesis. American Journal of Hematology, 2015, 90, 386-391.	4.1	15
90	Germline GATA1s-generating mutations predispose toÂleukemia with acquired trisomy 21 and Down syndrome-like phenotype. Blood, 2022, 139, 3159-3165.	1.4	15

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91	Gene-centric functional dissection of human genetic variation uncovers regulators of hematopoiesis. ELife, 2019, 8, .	6.0	14
92	Congenital anemia reveals distinct targeting mechanisms for master transcription factor GATA1. Blood, 2022, 139, 2534-2546.	1.4	14
93	Whole-exome sequencing identifies an α-globin cluster triplication resulting in increased clinical severity of β-thalassemia. Journal of Physical Education and Sports Management, 2017, 3, a001941.	1.2	13
94	CD11c regulates hematopoietic stem and progenitor cells under stress. Blood Advances, 2020, 4, 6086-6097.	5.2	13
95	In The Blood: Connecting Variant to Function In Human Hematopoiesis. Trends in Genetics, 2020, 36, 563-576.	6.7	12
96	Genotype-phenotype association and variant characterization in Diamond-Blackfan anemia caused by pathogenic variants in <i>RPL35A</i> . Haematologica, 2021, 106, 1303-1310.	3.5	12
97	Confounding in ex vivo models of Diamond-Blackfan anemia. Blood, 2017, 130, 1165-1168.	1.4	11
98	Exome sequencing results in successful diagnosis and treatment of a severe congenital anemia. Journal of Physical Education and Sports Management, 2016, 2, a000885.	1.2	10
99	Longitudinal assessment of clonal mosaicism in human hematopoiesis via mitochondrial mutation tracking. Blood Advances, 2019, 3, 4161-4165.	5.2	10
100	Pathogenic BCL11A variants provide insights into the mechanisms of human fetal hemoglobin silencing. PLoS Genetics, 2021, 17, e1009835.	3.5	10
101	Functional dissection of inherited non-coding variation influencing multiple myeloma risk. Nature Communications, 2022, 13, 151.	12.8	10
102	A novel pathogenic mutation in RPL11 identified in a patient diagnosed with diamond Blackfan anemia as a young adult. Blood Cells, Molecules, and Diseases, 2016, 61, 46-47.	1.4	9
103	From GWAS variant to function: A study of â^¼148,000 variants for blood cell traits. Human Genetics and Genomics Advances, 2022, 3, 100063.	1.7	9
104	Primary <i>HBB</i> gene mutation severity and longâ€ŧerm outcomes in a global cohort of βâ€ŧhalassaemia. British Journal of Haematology, 2022, 196, 414-423.	2.5	8
105	Normal hematologic parameters and fetal hemoglobin silencing with heterozygous IKZF1 mutations. Blood, 2016, 128, 2100-2103.	1.4	7
106	Development of autologous blood cell therapies. Experimental Hematology, 2016, 44, 887-894.	0.4	6
107	Emerging cellular and gene therapies for congenital anemias. American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, 2016, 172, 332-348.	1.6	6
108	Thrombopoietin: tickling the HSC's fancy. EMBO Molecular Medicine, 2018, 10, 10-12.	6.9	6

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109	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.	4.1	6
110	Uridineâ€responsive epileptic encephalopathy due to inherited variants in CAD : A Tale of Two Siblings. Annals of Clinical and Translational Neurology, 2021, 8, 716-722.	3.7	6
111	Transcriptome-wide association study in UK Biobank Europeans identifies associations with blood cell traits. Human Molecular Genetics, 2022, 31, 2333-2347.	2.9	6
112	Heterozygous disruption of human SOX6 is insufficient to impair erythropoiesis or silencing of fetal hemoglobin. Blood, 2011, 117, 4396-4397.	1.4	5
113	Persistence of Fetal Hemoglobin Expression in an Older Child with Trisomy 13. Journal of Pediatrics, 2012, 160, 352.	1.8	5
114	Macrothrombocytopenia associated with a rare <i>GFI1B</i> missense variant confounding the presentation of immune thrombocytopenia. Pediatric Blood and Cancer, 2019, 66, e27874.	1.5	5
115	Deciphering transcriptional and functional heterogeneity in hematopoiesis with single-cell genomics. Current Opinion in Hematology, 2021, 28, 269-276.	2.5	5
116	From blood development to disease: a paradigm for clinical translation. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	4
117	Super interactive promoters provide insight into cell type-specific regulatory networks in blood lineage cell types. PLoS Genetics, 2022, 18, e1009984.	3.5	4
118	Genome-wide association study on 13 167 individuals identifies regulators of blood CD34+cell levels. Blood, 2022, 139, 1659-1669.	1.4	4
119	A novel missense mutation outside the <scp>DNAJ</scp> domain of <scp><i>DNAJC21</i></scp> is associated with <scp>Shwachman–Diamond</scp> syndrome. British Journal of Haematology, 2022, 197, .	2.5	4
120	Sowing the Seeds of Clonal Hematopoiesis. Cell Stem Cell, 2020, 27, 195-197.	11.1	3
121	I <i>SPI1</i> something needed for B cells. Journal of Experimental Medicine, 2021, 218, .	8.5	3
122	Random Forest Clustering Identifies Three Subgroups of β-Thalassemia with Distinct Clinical Severity. Thalassemia Reports, 2022, 12, 14-23.	0.5	3
123	Biallelic Mutations in PARP4 Are Linked to a Variant Form of Congenital Dyserythropoietic Anemia. Blood, 2015, 126, 272-272.	1.4	2
124	Stimulating erythropoiesis in neonates. American Journal of Hematology, 2013, 88, 930-931.	4.1	1
125	A mummy emerges from the grave: Scurvy confounding the clinical presentation of a child with Fanconi anemia. American Journal of Hematology, 2019, 94, 506-507.	4.1	1
126	Human Fetal Hemoglobin Expression Is Regulated by the Developmental Stage-Specific Repressor BCL11A. Blood, 2008, 112, 487-487.	1.4	1

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127	Correction of Murine Sickle Cell Disease Through Interference with Fetal Hemoglobin Silencing. Blood, 2011, 118, 351-351.	1.4	1
128	Patchwork Cancer Predisposition. Cancer Discovery, 2022, 12, 889-891.	9.4	1
129	Society for Pediatric Research 2015 Young Investigator Award: genetics of human hematopoiesis—what patients can teach us about blood cell production. Pediatric Research, 2016, 79, 366-370.	2.3	0
130	A chance to cut (the genome) is a chance to cure. Blood, 2018, 131, 1884-1885.	1.4	0
131	A chance encounter changes everything. Nature Medicine, 2019, 25, 869-869.	30.7	0
132	Long-Term Patient-Customized Therapy for a Pathogenic EPO Mutation. Med, 2021, 2, 33-37.e1.	4.4	0
133	Rb Intrinsically Promotes Erythropoiesis by Coupling Cell Cycle Exit with Mitochondrial Biogenesis Blood, 2007, 110, 638-638.	1.4	0
134	Post-Transcriptional Defects and Erythroid Pathobiology. Blood, 2014, 124, SCI-35-SCI-35.	1.4	0
135	Direct Lineage Reprogramming of Murine Fibroblasts to Erythroid Progenitor Cells By Defined Factors. Blood, 2014, 124, 246-246.	1.4	0
136	Temporally Distinct Developmental Waves of Erythropoiesis from Human Pluripotent Stem Cells. Blood, 2015, 126, 1170-1170.	1.4	0
137	Transcriptional Signaling Centers Govern Human Erythropoiesis and Harbor Genetic Variations of Red Blood Cell Traits. Blood, 2018, 132, 1277-1277.	1.4	0
138	Investigating Germline Predisposition to Clonal Hematopoiesis through Perturbation of a Variant-Harboring Enhancer of TET2. Blood, 2021, 138, 3274-3274.	1.4	0
139	A Genetic Disorder Reveals a Hematopoietic Stem Cell Regulatory Network Co-Opted in Leukemia. Blood, 2021, 138, 861-861.	1.4	0
140	Single Cell Understanding of Hematopoiesis and Myeloid Lineage Commitment. Blood, 2020, 136, SCI5-SCI5.	1.4	0