James Douglas Engel

List of Publications by Year
in descending order

105 papers	6,707 citations	71102 41 h-index	64796 79 g-index
108 all docs	108 docs citations	108 times ranked	7581 citing authors

#	Article	IF	Citations
1	Identification of novel Î³-globin inducers among all potential erythroid druggable targets. Blood Advances, 2022, 6, 3280-3285.	5.2	6
2	Decoding the pathogenesis of Diamondâ€“Blackfan anemia using single-cell RNA-seq. Cell Discovery, 2022, 8, 41.	6.7	14
3	Epigenetic activities in erythroid cell gene regulation. Seminars in Hematology, 2021, 58, 4-9.	3.4	4
4	Genome-wide analysis of pseudogenes reveals HBBP1â€™s human-specific essentiality in erythropoiesis and implication in Î²-thalassemia. Developmental Cell, 2021, 56, 478-493.e11.	7.0	22
5	In situ mapping identifies distinct vascular niches for myelopoiesis. Nature, 2021, 590, 457-462.	27.8	74
6	An erythroid-to-myeloid cell fate conversion is elicited by LSD1 inactivation. Blood, 2021, 138, 1691-1704.	1.4	17
7	A new murineRpl5(uL18) mutation provides a unique model of variably penetrant Diamond-Blackfan anemia. Blood Advances, 2021, 5, 4167-4178.	5.2	5
8	Gata2 heterozygous mutant mice exhibit reduced inflammatory responses and impaired bacterial clearance. IScience, 2021, 24, 102836.	4.1	6
9	GATA3 is essential for separating patterning domains during facial morphogenesis. Development (Cambridge), 2021, 148, .	2.5	10
10	SEC23A rescues SEC23B-deficient congenital dyserythropoietic anemia type II. Science Advances, 2021, 7, eabj5293.	10.3	4
11	GATA2 functions in adrenal chromaffin cells. Genes To Cells, 2020, 25, 607-614.	1.2	2
12	UNC0638 induces high levels of fetal hemoglobin expression in Î²-thalassemia/HbE erythroid progenitor cells. Annals of Hematology, 2020, 99, 2027-2036.	1.8	10
13	EVI1 and GATA2 misexpression induced by inv(3)(q21q26) contribute to megakaryocyte-lineage skewing and leukemogenesis. Blood Advances, 2020, 4, 1722-1736.	5.2	16
14	Spiral ganglion cell degenerationâ€induced deafness as a consequence of reduced GATA factor activity. Genes To Cells, 2019, 24, 534-545.	1.2	7
15	Inhibition of LSD1 by small molecule inhibitors stimulates fetal hemoglobin synthesis. Blood, 2019, 133, 2455-2459.	1.4	10
16	Transvection-like interchromosomal interaction is not observed at the transcriptional level when tested in the Rosa26 locus in mouse. PLoS ONE, 2019, 14, e0203099.	2.5	2
17	GATA2 controls lymphatic endothelial cell junctional integrity and lymphovenous valve morphogenesis through miR-126. Development (Cambridge), 2019, 146, .	2.5	30
18	Hemodynamic regulation of perivalvular endothelial gene expression prevents deep venous thrombosis. Journal of Clinical Investigation, 2019, 129, 5489-5500.	8.2	40

#	Article	IF	Citations
19	Spatial Mapping of Myelopoiesis Reveals the Bone Marrow Niche for Monocyte Dendritic Cell Progenitors. Blood, 2019, 134, 528-528.	1.4	2
20	Global dynamics of stage-specific transcription factor binding during thymocyte development. Scientific Reports, 2018, 8, 5605.	3.3	13
21	BAP1 regulation of the key adaptor protein NCoR1 is critical for Î³-globin gene repression. Genes and Development, 2018, 32, 1537-1549.	5.9	24
22	Long non-coding RNA-dependent mechanism to regulate heme biosynthesis and erythrocyte development. Nature Communications, 2018, 9, 4386.	12.8	84
23	High-Throughput Single-Cell Sequencing of both TCR-Î² Alleles. Journal of Immunology, 2018, 201, 3465-3470.	0.8	7
24	Fetal Hemoglobin Induction by Epigenetic Drugs. Seminars in Hematology, 2018, 55, 60-67.	3.4	35
25	Stage-specific roles for Zmiz1 in Notch-dependent steps of early T-cell development. Blood, 2018, 132, 1279-1292.	1.4	17
26	Oral administration of the LSD1 inhibitor ORY-3001 increases fetal hemoglobin in sickle cell mice and baboons. Experimental Hematology, 2018, 67, 60-64.e2.	0.4	17
27	A Gata3 3â€² Distal Otic Vesicle Enhancer Directs Inner Ear-Specific Gata3 Expression. Molecular and Cellular Biology, 2018, 38, .	2.3	9
28	LSD1 Inhibitors Induce Fetal Hemoglobin in Primary Human Erythroid Cells. Blood, 2018, 132, 1066-1066.	1.4	2
29	The LSD1 Inhibitor RN-1 Increases Î³-Globin Expression in Baboons By Targeting an Early Event Responsible for Î³-Globin Repression. Blood, 2018, 132, 1054-1054.	1.4	0
30	Derepression of the DNA Methylation Machinery of the Gata1 Gene Triggers the Differentiation Cue for Erythropoiesis. Molecular and Cellular Biology, 2017, 37, .	2.3	13
31	GATA2 haploinsufficiency accelerates EVI1-driven leukemogenesis. Blood, 2017, 130, 908-919.	1.4	30
32	GATA3 Abundance Is a Critical Determinant of T Cell Receptor Î² Allelic Exclusion. Molecular and Cellular Biology, 2017, 37, .	2.3	4
33	Efficacy and safety of long-term RN-1 treatment to increase HbF in baboons. Blood, 2017, 129, 260-263.	1.4	20
34	The orphan nuclear receptor TR4 regulates erythroid cell proliferation and maturation. Blood, 2017, 130, 2537-2547.	1.4	11
35	Reactivation of Fetal Hemoglobin for Treating Î²-Thalassemia and Sickle Cell Disease. Advances in Experimental Medicine and Biology, 2017, 1013, 177-202.	1.6	18
36	Intron 1 GATA site enhances ALAS2 expression indispensably during erythroid differentiation. Nucleic Acids Research, 2017, 45, 657-671.	14.5	29

#	Article	IF	Citations
37	Oral tetrahydrouridine and decitabine for non-cytotoxic epigenetic gene regulation in sickle cell disease: A randomized phase 1 study. PLoS Medicine, 2017, 14, e1002382.	8.4	107
38	In Vivo Effects of LSD1 Inhibition By Small Chemical Inhibitors in Sickle Cell Mice. Blood, 2017, 130, 968-968.	1.4	0
39	Gata3 Hypomorphic Mutant Mice Rescued with a Yeast Artificial Chromosome Transgene Suffer a Glomerular Mesangial Cell Defect. Molecular and Cellular Biology, 2016, 36, 2272-2281.	2.3	11
40	Multiple mouse models of primary lymphedema exhibit distinct defects in lymphovenous valve development. Developmental Biology, 2016, 409, 218-233.	2.0	78
41	Lineage-affiliated transcription factors bind the Gata3 Tce1 enhancer to mediate lineage-specific programs. Journal of Clinical Investigation, 2016, 126, 865-878.	8.2	20
42	Compound loss of function of nuclear receptors Tr2 and Tr4 leads to induction of murine embryonic Î²-type globin genes. Blood, 2015, 125, 1477-1487.	1.4	20
43	The LSD1 inhibitor RN-1 induces fetal hemoglobin synthesis and reduces disease pathology in sickle cell mice. Blood, 2015, 126, 386-396.	1.4	74
44	Regulatory network inferred using expression data of small sample size: application and validation in erythroid system. Bioinformatics, 2015, 31, 2537-2544.	4.1	8
45	Amelioration of inflammation and tissue damage in sickle cell model mice by Nrf2 activation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12169-12174.	7.1	99
46	An international effort to cure a global health problem: A report on the 19th Hemoglobin Switching Conference. Experimental Hematology, 2015, 43, 821-837.	0.4	7
47	Rare variant discovery by deep whole-genome sequencing of 1,070 Japanese individuals. Nature Communications, 2015, 6, 8018.	12.8	352
48	A monoallelic-to-biallelic T-cell transcriptional switch regulates GATA3 abundance. Genes and Development, 2015, 29, 1930-1941.	5.9	13
49	GATA2 Regulates Body Water Homeostasis through Maintaining Aquaporin 2 Expression in Renal Collecting Ducts. Molecular and Cellular Biology, 2014, 34, 1929-1941.	2.3	37
50	Biased, Non-equivalent Gene-Proximal and -Distal Binding Motifs of Orphan Nuclear Receptor TR4 in Primary Human Erythroid Cells. PLoS Genetics, 2014, 10, e1004339.	3.5	6
51	Modeling dynamic functional relationship networks and application to ex vivo human erythroid differentiation. Bioinformatics, 2014, 30, 3325-3333.	4.1	10
52	Fetal Globin Gene Repressors as Drug Targets for Molecular Therapies To Treat the Î²-Globinopathies. Molecular and Cellular Biology, 2014, 34, 3560-3569.	2.3	59
53	Developmental transcriptome analysis of human erythropoiesis. Human Molecular Genetics, 2014, 23, 4528-4542.	2.9	45
54	Proper Development of the Outer Longitudinal Smooth Muscle of the Mouse Pylorus Requires Nkx2-5 and Gata3. Gastroenterology, 2014, 146, 157-165.e10.	1.3	16

#	Article	IF	Citations
55	A Remote GATA2 Hematopoietic Enhancer Drives Leukemogenesis in inv(3)(q21;q26) by Activating EVI1 Expression. Cancer Cell, 2014, 25, 415-427.	16.8	194
56	PGC-1 Coactivator Activity Is Required for Murine Erythropoiesis. Molecular and Cellular Biology, 2014, 34, 1956-1965.	2.3	22
57	Disruption of the Hbs1l-Myb Locus Causes Hereditary Persistence of Fetal Hemoglobin in a Mouse Model. Molecular and Cellular Biology, 2013, 33, 1687-1695.	2.3	34
58	TRIM28 is essential for erythroblast differentiation in the mouse. Blood, 2013, 122, 3798-3807.	1.4	26
59	UG4 Enhancer-Driven GATA-2 and Bone Morphogenetic Protein 4 Complementation Remedies the CAKUT Phenotype in Gata2 Hypomorphic Mutant Mice. Molecular and Cellular Biology, 2012, 32, 2312-2322.	2.3	19
60	Thalassaemia. Lancet, The, 2012, 379, 373-383.	13.7	371
61	Conditional Gata2 inactivation results in HSC loss and lymphatic mispatterning. Journal of Clinical Investigation, 2012, 122, 3705-3717.	8.2	136
62	Nuclear Receptors TR2 and TR4 Recruit Multiple Epigenetic Transcriptional Corepressors That Associate Specifically with the Embryonic Î²-Type Globin Promoters in Differentiated Adult Erythroid Cells. Molecular and Cellular Biology, 2011, 31, 3298-3311.	2.3	98
63	Forced TR2/TR4 expression in sickle cell disease mice confers enhanced fetal hemoglobin synthesis and alleviated disease phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18808-18813.	7.1	42
64	The Orphan Nuclear Receptor TR4 Is a Vitamin A-activated Nuclear Receptor. Journal of Biological Chemistry, 2011, 286, 2877-2885.	3.4	69
65	An NK and T Cell Enhancer Lies 280 Kilobase Pairs 3â€² to the Gata3 Structural Gene. Molecular and Cellular Biology, 2011, 31, 1894-1904.	2.3	41
66	GATA-3 is required for early T lineage progenitor development. Journal of Experimental Medicine, 2009, 206, 2987-3000.	8.5	133
67	Transcription factor GATAâ€3 is essential for lens development. Developmental Dynamics, 2009, 238, 2280-2291.	1.8	39
68	GATA1-related leukaemias. Nature Reviews Cancer, 2008, 8, 279-287.	28.4	100
69	Reduced BMP4 abundance in Gata2 hypomorphic mutant mice result in uropathies resembling human CAKUT. Genes To Cells, 2008, 13, 159-170.	1.2	32
70	Defining the Functional Boundaries of the Gata2 Locus by Rescue with a Linked Bacterial Artificial Chromosome Transgene. Journal of Biological Chemistry, 2008, 283, 8976-8983.	3.4	19
71	The TR2 and TR4 orphan nuclear receptors repress Gata1 transcription. Genes and Development, 2007, 21, 2832-2844.	5.9	49
72	Dosage-dependent rescue of definitive nephrogenesis by a distant Gata3 enhancer. Developmental Biology, 2007, 301, 568-577.	2.0	34

#	Article	IF	Citations
73	Directed-Information Based Feature-Selection for Tissue-Specific Sequences. , 2007, , .		0
74	Embryonic and fetal Î²-globin gene repression by the orphan nuclear receptors, TR2 and TR4. EMBO Journal, 2007, 26, 2295-2306.	7.8	89
75	USING DIRECTED INFORMATION TO BUILD BIOLOGICALLY RELEVANT INFLUENCE NETWORKS. , 2007, , .		11
76	Gata3 participates in a complex transcriptional feedback network to regulate sympathoadrenal differentiation. Development (Cambridge), 2006, 133, 3871-3881.	2.5	81
77	MafB Is Essential for Renal Development and F4/80 Expression in Macrophages. Molecular and Cellular Biology, 2006, 26, 5715-5727.	2.3	189
78	MafG-Null Mice Show Delayed Leukocyte Engraftment Following Whole Bone Marrow Transplant.. Blood, 2006, 108, 1322-1322.	1.4	0
79	GATA Motifs Regulate Early Hematopoietic Lineage-Specific Expression of the Gata2 Gene. Molecular and Cellular Biology, 2005, 25, 7005-7020.	2.3	70
80	Adult Stage Î³-Globin Silencing Is Mediated by a Promoter Direct Repeat Element. Molecular and Cellular Biology, 2005, 25, 3443-3451.	2.3	35
81	Multiple, Distant Gata2 Enhancers Specify Temporally and Tissue-Specific Patterning in the Developing Urogenital System. Molecular and Cellular Biology, 2004, 24, 10263-10276.	2.3	53
82	An embryonic/fetal beta-type globin gene repressor contains a nuclear receptor TR2/TR4 heterodimer. EMBO Journal, 2002, 21, 3434-3442.	7.8	100
83	Gata3 loss leads to embryonic lethality due to noradrenaline deficiency of the sympathetic nervous system. Nature Genetics, 2000, 25, 209-212.	21.4	308
84	Context-dependent EKLF responsiveness defines the developmental specificity of the human varepsilon -globin gene in erythroid cells of YAC transgenic mice. Genes and Development, 2000, 14, 2778-2794.	5.9	69
85	GATA factor transgenes under GATA-1 locus control rescue germline GATA-1 mutant deficiencies. Blood, 2000, 96, 910-916.	1.4	96
86	The Mouse GATA-2 Gene is Expressed in the Para-Aortic Splanchnopleura and Aorta-Gonads and Mesonephros Region. Blood, 1999, 93, 4196-4207.	1.4	102
87	Long range interaction of cis-DNA elements mediated by architectural transcription factor Bach1. Genes To Cells, 1999, 4, 643-655.	1.2	85
88	Effects of altered gene order or orientation of the locus control region on human Î²-globin gene expression in mice. Nature, 1999, 398, 344-348.	27.8	170
89	Localization of Distant Urogenital System-, Central Nervous System-, and Endocardium-Specific Transcriptional Regulatory Elements in the GATA-3 Locus. Molecular and Cellular Biology, 1999, 19, 1558-1568.	2.3	82
90	Differential roles of GATAâ€1 and GATAâ€2 in growth and differentiation of mast cells. Genes To Cells, 1998, 3, 39-50.	1.2	87

#	Article	IF	Citations
91	A core region of themafKgene INpromoter directs neuroneâ€specific transcriptionin vivo. Genes To Cells, 1998, 3, 671-684.	1.2	13
92	Partial Rescue of GATA-3 by Yeast Artificial Chromosome Transgenes. Developmental Biology, 1998, 204, 451-463.	2.0	22
93	The world according to Maf. Nucleic Acids Research, 1997, 25, 2953-2959.	14.5	248
94	Temporal and Spatial Control of Murine GATA-3 Transcription by Promoter-Proximal Regulatory Elements. Developmental Biology, 1997, 188, 1-16.	2.0	46
95	Upstream and downstream of erythroid transcription factor GATA-1. Genes To Cells, 1997, 2, 107-115.	1.2	44
96	Mesodermal- vs. neuronal-specific expression of MafK is elicited by different promoters. Genes To Cells, 1996, 1, 223-238.	1.2	40
97	The Role of Transcription Factors in Erythroid Development. Annals of Medicine, 1996, 28, 47-55.	3.8	17
98	Targeted disruption of the GATA3 gene causes severe abnormalities in the nervous system and in fetal liver haematopoiesis. Nature Genetics, 1995, 11, 40-44.	21.4	576
99	Structure and regulation of vertebrate δ‐aminolevulinate synthases. Stem Cells, 1994, 12, 11-25.	3.2	1
100	Meticulous AP-1 factors. Nature, 1994, 367, 516-517.	27.8	16
101	Erythroid transcription factor GATA-1 is abundantly transcribed in mouse testis. Nature, 1993, 362, 466-468.	27.8	296
102	Developmental regulation of Î²-globin gene switching. Cell, 1988, 55, 17-26.	28.9	344
103	Erythroid-specific transcription of the chicken histone H5 gene is directed by a 3â€² enhancer. Nature, 1987, 328, 827-830.	27.8	76
104	A 3â€² enhancer is required for temporal and tissue-specific transcriptional activation of the chicken adult Î²-globin gene. Nature, 1986, 323, 731-734.	27.8	209
105	A chicken histone H3 gene contains intervening sequences. Nature, 1982, 297, 434-436.	27.8	98