Sjaak Philipsen

List of Publications by Year in descending order

115 papers	8,694 citations	50170 46 h-index	43802 91 g-index
120 all docs	120 docs citations	120 times ranked	9722 citing authors

#	Article	IF	Citations
1	Gene Expression-Based Classification of Non-Small Cell Lung Carcinomas and Survival Prediction. PLoS ONE, 2010, 5, e10312.	1.1	656
2	A tale of three fingers: the family of mammalian Sp/XKLF transcription factors. Nucleic Acids Research, 1999, 27, 2991-3000.	6.5	571
3	Transcription Factor Sp1 Is Essential for Early Embryonic Development but Dispensable for Cell Growth and Differentiation. Cell, 1997, 89, 619-628.	13.5	484
4	Regulation of the activity of Sp1-related transcription factors. Molecular and Cellular Endocrinology, 2002, 195, 27-38.	1.6	416
5	GATA1 Function, a Paradigm for Transcription Factors in Hematopoiesis. Molecular and Cellular Biology, 2005, 25, 1215-1227.	1.1	360
6	Mammalian SP/KLF transcription factors: Bring in the family. Genomics, 2005, 85, 551-556.	1.3	328
7	Haploinsufficiency for the erythroid transcription factor KLF1 causes hereditary persistence of fetal hemoglobin. Nature Genetics, 2010, 42, 801-805.	9.4	323
8	The active spatial organization of the Â-globin locus requires the transcription factor EKLF. Genes and Development, 2004, 18, 2485-2490.	2.7	321
9	The beta-globin dominant control region: hypersensitive site 2.. EMBO Journal, 1990, 9, 2159-2167.	3.5	273
10	Sox2 cooperates with Chd7 to regulate genes that are mutated in human syndromes. Nature Genetics, 2011, 43, 607-611.	9.4	230
11	Transcriptional Regulation of BACE1, the Î²-Amyloid Precursor Protein Î²-Secretase, by Sp1. Molecular and Cellular Biology, 2004, 24, 865-874.	1.1	207
12	A dominant chromatin-opening activity in 5â€² hypersensitive site 3 of the human beta-globin locus control region.. EMBO Journal, 1996, 15, 562-568.	3.5	201
13	The role of EKLF in human beta-globin gene competition.. Genes and Development, 1996, 10, 2894-2902.	2.7	187
14	Transcription factor Sp3 is essential for post-natal survival and late tooth development. EMBO Journal, 2000, 19, 655-661.	3.5	175
15	Comparative genome analysis delimits a chromosomal domain and identifies key regulatory elements in the alpha globin cluster. Human Molecular Genetics, 2001, 10, 371-382.	1.4	151
16	Hypersensitive site 4 of the human Î² globin locus control region. Nucleic Acids Research, 1991, 19, 1413-1419.	6.5	148
17	The Erythroid Phenotype of EKLF-Null Mice: Defects in Hemoglobin Metabolism and Membrane Stability. Molecular and Cellular Biology, 2005, 25, 5205-5214.	1.1	147
18	Systematic documentation and analysis of human genetic variation in hemoglobinopathies using the microattribution approach. Nature Genetics, 2011, 43, 295-301.	9.4	142

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19	Detailed analysis of the site 3 region of the human beta-globin dominant control region. EMBO Journal, 1990, 9, 2169-77.	3.5	134
20	The beta-globin dominant control region: hypersensitive site 2. EMBO Journal, 1990, 9, 2159-67.	3.5	126
21	KrÃ¼ppeling erythropoiesis: an unexpected broad spectrum of human red blood cell disorders due to KLF1 variants. Blood, 2016, 127, 1856-1862.	0.6	124
22	Endogenous WNT Signals Mediate BMP-Induced and Spontaneous Differentiation of Epiblast Stem Cells and Human Embryonic Stem Cells. Stem Cell Reports, 2015, 4, 114-128.	2.3	122
23	Impaired ossification in mice lacking the transcription factor Sp3. Mechanisms of Development, 2001, 106, 77-83.	1.7	99
24	An intrinsic but cell-nonautonomous defect in GATA-1-overexpressing mouse erythroid cells. Nature, 2000, 406, 519-524.	13.7	97
25	The minimal requirements for activity in transgenic mice of hypersensitive site 3 of the beta globin locus control region.. EMBO Journal, 1993, 12, 1077-1085.	3.5	92
26	Ablation of Gata1 in adult mice results in aplastic crisis, revealing its essential role in steady-state and stress erythropoiesis. Blood, 2008, 111, 4375-4385.	0.6	88
27	A generic tool for biotinylation of tagged proteins in transgenic mice. Transgenic Research, 2005, 14, 477-482.	1.3	81
28	Sp1 Binding Is Critical for Promoter Assembly and Activation of the MCP-1 Gene by Tumor Necrosis Factor. Journal of Biological Chemistry, 2000, 275, 1708-1714.	1.6	80
29	Erythroid phenotypes associated with KLF1 mutations. Haematologica, 2011, 96, 635-638.	1.7	78
30	Mutations in KrÃ¼ppel-like factor 1 cause transfusion-dependent hemolytic anemia and persistence of embryonic globin gene expression. Blood, 2014, 123, 1586-1595.	0.6	76
31	A dominant chromatin-opening activity in 5' hypersensitive site 3 of the human beta-globin locus control region. EMBO Journal, 1996, 15, 562-8.	3.5	76
32	Genome-wide DNA methylation profiling of non-small cell lung carcinomas. Epigenetics and Chromatin, 2012, 5, 9.	1.8	74
33	Erythroid Kruppel-like factor (EKLF) is active in primitive and definitive erythroid cells and is required for the function of 5'HS3 of the beta -globin locus control region. EMBO Journal, 1998, 17, 2334-2341.	3.5	70
34	A tissue-specific knockout reveals that Gata1 is not essential for Sertoli cell function in the mouse. Nucleic Acids Research, 2003, 31, 5405-5412.	6.5	65
35	The level of the tissueâ€specific factor GATAâ€1 affects the cellâ€cycle machinery. Genes and Function, 1997, 1, 11-24.	2.8	61
36	Altered DNA-binding specificity mutants of EKLF and Sp1 show that EKLF is an activator of the beta -globin locus control region in vivo. Genes and Development, 1998, 12, 2863-2873.	2.7	60

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37	Sp1/Sp3 compound heterozygous mice are not viable: Impaired erythropoiesis and severe placental defects. Developmental Dynamics, 2007, 236, 2235-2244.	0.8	59
38	Sp1/Sp3 transcription factors regulate hallmarks of megakaryocyte maturation and platelet formation and function. Blood, 2015, 125, 1957-1967.	0.6	57
39	Gata1 regulates dendritic-cell development and survival. Blood, 2007, 110, 1933-1941.	0.6	55
40	Complex phenotype of mice homozygous for a null mutation in the Sp4 transcription factor gene. Genes To Cells, 2001, 6, 689-697.	0.5	54
41	Functional and comparative analysis of globin loci in pufferfish and humans. Blood, 2003, 101, 2842-2849.	0.6	53
42	Role of DNA Sequences Outside the Cores of DNase Hypersensitive Sites (HSs) in Functions of the Î²-Globin Locus Control Region. Journal of Biological Chemistry, 1996, 271, 11871-11878.	1.6	52
43	A crucial role for the ubiquitously expressed transcription factor Sp1 at early stages of hematopoietic specification. Development (Cambridge), 2014, 141, 2391-2401.	1.2	51
44	Hypoxia increases membrane metallo-endopeptidase expression in a novel lung cancer ex vivo model â€“ role of tumor stroma cells. BMC Cancer, 2014, 14, 40.	1.1	51
45	Transcription Factor Sp3 Knockout Mice Display Serious Cardiac Malformations. Molecular and Cellular Biology, 2007, 27, 8571-8582.	1.1	50
46	Activation of the beta globin locus by transcription factors and chromatin modifiers. EMBO Journal, 2000, 19, 4986-4996.	3.5	48
47	Sp1-Mediated TRAIL Induction in Chemosensitization. Cancer Research, 2008, 68, 6718-6726.	0.4	46
48	Erythropoiesis and globin switching in compound Klf1::Bcl11a mutant mice. Blood, 2013, 121, 2553-2562.	0.6	46
49	Dynamic regulation of Gata factor levels is more important than their identity. Blood, 2007, 109, 5481-5490.	0.6	45
50	Fetal globin expression is regulated by Friend of Prmt1. Blood, 2010, 116, 4349-4352.	0.6	43
51	KLF1 directly activates expression of the novel fetal globin repressor ZBTB7A/LRF in erythroid cells. Blood Advances, 2017, 1, 685-692.	2.5	42
52	Impaired hematopoiesis in mice lacking the transcription factor Sp3. Blood, 2003, 102, 858-866.	0.6	41
53	Functional analysis of the role of the TPMT gene promoter VNTR polymorphism in TPMT gene transcription. Pharmacogenomics, 2010, 11, 547-557.	0.6	40
54	Expression Profiling-Based Subtyping Identifies Novel Non-small Cell Lung Cancer Subgroups and Implicates Putative Resistance to Pemetrexed Therapy. Journal of Thoracic Oncology, 2012, 7, 105-114.	0.5	39

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55	Genomic Location of PRMT6-Dependent H3R2 Methylation Is Linked to the Transcriptional Outcome of Associated Genes. Cell Reports, 2018, 24, 3339-3352.	2.9	38
56	Study of the hypoxia-dependent regulation of human CYGB gene. Biochemical and Biophysical Research Communications, 2007, 364, 145-150.	1.0	37
57	Evolution of hemoglobin loci and their regulatory elements. Blood Cells, Molecules, and Diseases, 2018, 70, 2-12.	0.6	37
58	The minimal requirements for activity in transgenic mice of hypersensitive site 3 of the beta globin locus control region. EMBO Journal, 1993, 12, 1077-85.	3.5	37
59	Identification of a novel distal regulatory element of the humanNeuroglobingene by the chromosome conformation capture approach. Nucleic Acids Research, 2017, 45, 115-126.	6.5	36
60	Epigenetic Silencing of Spermatocyte-Specific and Neuronal Genes by SUMO Modification of the Transcription Factor Sp3. PLoS Genetics, 2010, 6, e1001203.	1.5	34
61	Functional and sequence analysis of human neuroglobin gene promoter region. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2011, 1809, 236-244.	0.9	31
62	Genomewide DNA Methylation Analysis Identifies Novel Methylated Genes in Nonâ€“Small-Cell Lung Carcinomas. Journal of Thoracic Oncology, 2013, 8, 562-573.	0.5	31
63	The human Î²-globin locus control region confers an early embryonic erythroid-specific expression pattern to a basic promoter driving the bacterial lacZ gene. Development (Cambridge), 1996, 122, 3991-3999.	1.2	31
64	PLGA-Nanoparticles for Intracellular Delivery of the CRISPR-Complex to Elevate Fetal Globin Expression in Erythroid Cells. Biomaterials, 2021, 268, 120580.	5.7	29
65	Effects of three Sp1 motifs on the transcription of the FGF-4 gene. Molecular Reproduction and Development, 2000, 57, 4-15.	1.0	27
66	Isolation of Transcription Factor Complexes by In Vivo Biotinylation Tagging and Direct Binding to Streptavidin Beads. , 2006, 338, 305-323.		25
67	Genomic variation in the MAP3K5 gene is associated with Î²-thalassemia disease severity and hydroxyurea treatment efficacy. Pharmacogenomics, 2013, 14, 469-483.	0.6	25
68	Transcription Factor GATA1 Is Dispensable for Mast Cell Differentiation in Adult Mice. Molecular and Cellular Biology, 2014, 34, 1812-1826.	1.1	25
69	Synergistic Activation of the Human Btk Promoter by Transcription Factors Sp1/3 and PU.1. Biochemical and Biophysical Research Communications, 1999, 259, 364-369.	1.0	24
70	Vegf regulates embryonic erythroid development through Gata1 modulation. Blood, 2010, 116, 2141-2151.	0.6	23
71	Specificity Protein 2 (Sp2) Is Essential for Mouse Development and Autonomous Proliferation of Mouse Embryonic Fibroblasts. PLoS ONE, 2010, 5, e9587.	1.1	22
72	Real-time monitoring of stress erythropoiesis in vivo using Gata1 and Î²-globin LCR luciferase transgenic mice. Blood, 2006, 108, 726-733.	0.6	21

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73	Characterization of human cytoglobin gene promoter region. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2006, 1759, 208-215.	2.4	21
74	Robust hematopoietic specification requires the ubiquitous Sp1 and Sp3 transcription factors. Epigenetics and Chromatin, 2019, 12, 33.	1.8	21
75	Homotypic signalling regulates Gata1 activity in the erythroblastic island. Development (Cambridge), 2004, 131, 3183-3193.	1.2	20
76	A hanging drop culture method to study terminal erythroid differentiation. Experimental Hematology, 2005, 33, 1083-1091.	0.2	18
77	The human beta-globin locus control region confers an early embryonic erythroid-specific expression pattern to a basic promoter driving the bacterial lacZ gene. Development (Cambridge), 1996, 122, 3991-9.	1.2	18
78	Nucleotide changes in the Î³-globin promoter and the (AT)xNy(AT)z polymorphic sequence of Î²LCRHS-2 region associated with altered levels of HbF. European Journal of Human Genetics, 1999, 7, 345-356.	1.4	17
79	Rapid and Sensitive Assessment of Globin Chains for Gene and Cell Therapy of Hemoglobinopathies. Human Gene Therapy Methods, 2018, 29, 60-74.	2.1	17
80	The DNA binding factor Hmg20b is a repressor of erythroid differentiation. Haematologica, 2011, 96, 1252-1260.	1.7	16
81	Chtop (Chromatin target of Prmt1) auto-regulates its expression level via intron retention and nonsense-mediated decay of its own mRNA. Nucleic Acids Research, 2016, 44, gkw831.	6.5	16
82	An evolutionarily ancient mechanism for regulation of hemoglobin expression in vertebrate red cells. Blood, 2020, 136, 269-278.	0.6	16
83	Localization and expression pattern of cytoglobin in carbon tetrachloride-induced liver fibrosis. Toxicology Letters, 2008, 183, 36-44.	0.4	15
84	Transcriptional activation by hypersensitive site three of the human Î²-globin locus control region in murine erythroleukemia cells. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1994, 1219, 351-360.	2.4	14
85	Flicking the switch: adult hemoglobin expression in erythroid cells derived from cord blood and human induced pluripotent stem cells. Haematologica, 2014, 99, 1647-1649.	1.7	14
86	TAF10 Interacts with the GATA1 Transcription Factor and Controls Mouse Erythropoiesis. Molecular and Cellular Biology, 2015, 35, 2103-2118.	1.1	14
87	GATA1-Deficient Dendritic Cells Display Impaired CCL21-Dependent Migration toward Lymph Nodes Due to Reduced Levels of Polysialic Acid. Journal of Immunology, 2016, 197, 4312-4324.	0.4	12
88	A Dual Reporter Mouse Model of the Human Î²-Globin Locus: Applications and Limitations. PLoS ONE, 2012, 7, e51272.	1.1	12
89	Dynamic regulation of Gata1 expression during the maturation of conventional dendritic cells. Experimental Hematology, 2010, 38, 489-503.e1.	0.2	11
90	The mouse KLF1 Nan variant impairs nuclear condensation and erythroid maturation. PLoS ONE, 2019, 14, e0208659.	1.1	10

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91	Erythropoietic Defect Associated with Reduced Cell Proliferation in Mice Lacking the 26S Proteasome Shuttling Factor Rad23b. Molecular and Cellular Biology, 2013, 33, 3879-3892.	1.1	9
92	Prediction of response to pemetrexed in non-small-cell lung cancer with immunohistochemical phenotyping based on gene expression profiles. BMC Cancer, 2019, 19, 440.	1.1	7
93	Targeted Protein Degradation as a Promising Tool for Epigenetic Upregulation of Fetal Hemoglobin. ChemMedChem, 2020, 15, 2436-2443.	1.6	7
94	Molecular analysis of the erythroid phenotype of a patient with BCL11A haploinsufficiency. Blood Advances, 2021, 5, 2339-2349.	2.5	7
95	<scp>ASH</scp>1L (a histone methyltransferase protein) is a novel candidate globin gene regulator revealed by genetic study of an English family with betaâ€thalassaemia unlinked to the betaâ€globin locus. British Journal of Haematology, 2016, 175, 525-530.	1.2	6
96	Hereditary persistence of fetal hemoglobin in two patients with KLF1 haploinsufficiency due to 19p13.2â€“p13.12/13 deletion. American Journal of Hematology, 2017, 92, E2-E3.	2.0	6
97	Transcription factor Sp4 is required for hyperalgesic state persistence. PLoS ONE, 2019, 14, e0211349.	1.1	6
98	Transfusion-independent Î²(0)-thalassemia after bone marrow transplantation failure: proposed involvement of high parental HbF and an epigenetic mechanism. American Journal of Blood Research, 2014, 4, 27-32.	0.6	6
99	A new twist to the GATA switch. Blood, 2013, 122, 3391-3392.	0.6	5
100	Epigenomic analysis of KLF1 haploinsufficiency in primary human erythroblasts. Scientific Reports, 2022, 12, 336.	1.6	5
101	Differential regulation of sense and antisense promoter activity at the Csf1R locus in B cells by the transcription factor PAX5. Experimental Hematology, 2011, 39, 730-740.e2.	0.2	4
102	Hemoglobin switching in mice carrying the Klf1Nan variant. Haematologica, 2021, 106, 464-473.	1.7	4
103	Comparison of the PU.1 transcriptional regulome and interactome in human and mouse inflammatory dendritic cells. Journal of Leukocyte Biology, 2021, 110, 735-751.	1.5	3
104	Sp2 is the only glutamineâ€rich specificity protein with minor impact on development and differentiation in myelinating glia. Journal of Neurochemistry, 2017, 140, 245-256.	2.1	2
105	Mild dyserythropoiesis and Î²-like globin gene expression imbalance due to the loss of histone chaperone ASF1B. Human Genomics, 2020, 14, 39.	1.4	2
106	Erythropoiesis. , 2009, , 24-45.		1
107	A ubiquitin ligase toggles red cell differentiation. Blood, 2021, 137, 143-144.	0.6	1
108	The regulation of human globin gene switching. , 1993, , 45-53.		1

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109	Does Quantitative Heterogeneity of Human Fetal Hemoglobin (Hb F) Reveal Friends or Foes of KLF1 in Globin Gene Switching ?. Blood, 2011, 118, 1092-1092.	0.6	1
110	Erythropoiesis and Globin Switching in Compound Klf1::Bcl11a mutant mice. Blood, 2012, 120, 1019-1019.	0.6	1
111	A Twenty-Five Year Prospective Clinical Review and Family Studies Revealed New Globin Gene Regulators for Hb F Induction. Hemoglobin, 2019, 43, 337-337.	0.4	0
112	Editorial: Mutation-Specific Gene Editing for Blood Disorders. Frontiers in Genome Editing, 2021, 3, 761771.	2.7	0
113	TAF10 Interacts with GATA1 Transcription Factor and Controls Mouse Erythropoiesis. Blood, 2014, 124, 2912-2912.	0.6	0
114	ASH1L: A Novel Beta-Globin Gene Regulator in Humans?. Blood, 2015, 126, 641-641.	0.6	0
115	Genetic Heterogeneity of KLF1, a Master Regulator of Erythropoiesis, Revealed an Autosomal Recessive Î²-Thalassemia and a Very Strong Promoter In Vivo. Blood, 2020, 136, 7-7.	0.6	0