Georges Lacaud

List of Publications by Year
in descending order

94 papers	6,287 citations	61857 43 h-index	71532 76 g-index
100 all docs	100 docs citations	100 times ranked	7512 citing authors

#	Article	IF	Citations
1	The haemangioblast generates haematopoietic cells through a haemogenic endothelium stage. Nature, 2009, 457, 892-895.	13.7	561
2	Tracking mesoderm induction and its specification to the hemangioblast during embryonic stem cell differentiation. Development (Cambridge), 2003, 130, 4217-4227.	1.2	444
3	Runx1 is essential for hematopoietic commitment at the hemangioblast stage of development in vitro. Blood, 2002, 100, 458-466.	0.6	266
4	Dynamic Gene Regulatory Networks Drive Hematopoietic Specification and Differentiation. Developmental Cell, 2016, 36, 572-587.	3.1	213
5	Gata2, Fli1, and Scl form a recursively wired gene-regulatory circuit during early hematopoietic development. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17692-17697.	3.3	208
6	GFI1 proteins orchestrate the emergence of haematopoietic stem cells through recruitment of LSD1. Nature Cell Biology, 2016, 18, 21-32.	4.6	172
7	Sequential development of hematopoietic and cardiac mesoderm during embryonic stem cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13170-13175.	3.3	164
8	RUNX1 reshapes the epigenetic landscape at the onset of haematopoiesis. EMBO Journal, 2012, 31, 4318-4333.	3.5	158
9	Direct Reprogramming of Murine Fibroblasts to Hematopoietic Progenitor Cells. Cell Reports, 2014, 9, 1871-1884.	2.9	148
10	RUNX transcription factors: orchestrators of development. Development (Cambridge), 2019, 146, .	1.2	146
11	The stepwise specification of embryonic stem cells to hematopoietic fate is driven by sequential exposure to Bmp4, activin A, bFGF and VEGF. Development (Cambridge), 2008, 135, 1525-1535.	1.2	145
12	GFI1 and GFI1B control the loss of endothelial identity of hemogenic endothelium during hematopoietic commitment. Blood, 2012, 120, 314-322.	0.6	144
13	Development of the hematopoietic system in the mouse. Experimental Hematology, 1999, 27, 777-787.	0.2	140
14	Antigens Varying in Affinity for the B Cell Receptor Induce Differential B Lymphocyte Responses. Journal of Experimental Medicine, 1998, 188, 1453-1464.	4.2	138
15	Leptin Stimulates Fetal and Adult Erythroid and Myeloid Development. Blood, 1997, 89, 1507-1512.	0.6	135
16	Early chromatin unfolding by RUNX1: a molecular explanation for differential requirements during specification versus maintenance of the hematopoietic gene expression program. Blood, 2009, 114, 299-309.	0.6	113
17	The differential activities of Runx1 promoters define milestones during embryonic hematopoiesis. Blood, 2009, 114, 5279-5289.	0.6	108
18	Feedback regulation of p38 activity via ATF2 is essential for survival of embryonic liver cells. Genes and Development, 2007, 21, 2069-2082.	2.7	99

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19	Single-cell transcriptomics reveal the dynamic of haematopoietic stem cell production in the aorta. Nature Communications, 2018, 9, 2517.	5.8	99
20	Hemangioblast, hemogenic endothelium, and primitive versus definitive hematopoiesis. Experimental Hematology, 2017, 49, 19-24.	0.2	97
21	The histone acetyl transferase activity of monocytic leukemia zinc finger is critical for the proliferation of hematopoietic precursors. Blood, 2009, 113, 4866-4874.	0.6	87
22	Identification of a Fetal Hematopoietic Precursor with B Cell, T Cell, and Macrophage Potential. Immunity, 1998, 9, 827-838.	6.6	85
23	The Oncogenic Transcription Factor RUNX1/ETO Corrupts Cell Cycle Regulation to Drive Leukemic Transformation. Cancer Cell, 2018, 34, 626-642.e8.	7.7	81
24	Origin of blood cells and HSC production in the embryo. Trends in Immunology, 2012, 33, 215-223.	2.9	76
25	TIAM1 Antagonizes TAZ/YAP Both in the Destruction Complex in the Cytoplasm and in the Nucleus to Inhibit Invasion of Intestinal Epithelial Cells. Cancer Cell, 2017, 31, 621-634.e6.	7.7	73
26	Regulation of Hemangioblast Development. Annals of the New York Academy of Sciences, 2001, 938, 96-108.	1.8	72
27	The paralogous hematopoietic regulators Lyl1 and Scl are coregulated by Ets and GATA factors, but Lyl1 cannot rescue the early Sclâ€“/â€“ phenotype. Blood, 2007, 109, 1908-1916.	0.6	71
28	B cell receptor expression level determines the fate of developing B lymphocytes: Receptor editing versus selection. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 7435-7439.	3.3	70
29	SOX7 regulates the expression of VE-cadherin in the haemogenic endothelium at the onset of haematopoietic development. Development (Cambridge), 2012, 139, 1587-1598.	1.2	70
30	T Cell-Independent Rescue of B Lymphocytes from Peripheral Immune Tolerance. Science, 2000, 287, 2501-2503.	6.0	69
31	Expression of the leukemia oncogene Lmo2 is controlled by an array of tissue-specific elements dispersed over 100 kb and bound by Tal1/Lmo2, Ets, and Gata factors. Blood, 2009, 113, 5783-5792.	0.6	69
32	Quantitative Proteomics Analysis Demonstrates Post-transcriptional Regulation of Embryonic Stem Cell Differentiation to Hematopoiesis. Molecular and Cellular Proteomics, 2008, 7, 459-472.	2.5	67
33	The European Hematology Association Roadmap for European Hematology Research: a consensus document. Haematologica, 2016, 101, 115-208.	1.7	67
34	Haploinsufficiency of Runx1 results in the acceleration of mesodermal development and hemangioblast specification upon in vitro differentiation of ES cells. Blood, 2004, 103, 886-889.	0.6	65
35	Blood cell generation from the hemangioblast. Journal of Molecular Medicine, 2010, 88, 167-172.	1.7	63
36	RUNX1 positively regulates a cell adhesion and migration program in murine hemogenic endothelium prior to blood emergence. Blood, 2014, 124, e11-e20.	0.6	61

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37	Sox7-sustained expression alters the balance between proliferation and differentiation of hematopoietic progenitors at the onset of blood specification. Blood, 2009, 114, 4813-4822.	0.6	59
38	Graphene Oxide promotes embryonic stem cell differentiation to haematopoietic lineage. Scientific Reports, 2016, 6, 25917.	1.6	59
39	MOZ-Mediated Repression of <i>p16INK4a</i> Is Critical for the Self-Renewal of Neural and Hematopoietic Stem Cells. Stem Cells, 2014, 32, 1591-1601.	1.4	55
40	Runx/Cbfî² complexes protect group 2 innate lymphoid cells from exhausted-like hyporesponsiveness during allergic airway inflammation. Nature Communications, 2019, 10, 447.	5.8	55
41	The Flk1-Cre-Mediated Deletion of ETV2 Defines Its Narrow Temporal Requirement During Embryonic Hematopoietic Development. Stem Cells, 2012, 30, 1521-1531.	1.4	49
42	InÂVivo Repopulating Activity Emerges at the Onset of Hematopoietic Specification during Embryonic Stem Cell Differentiation. Stem Cell Reports, 2015, 4, 431-444.	2.3	47
43	In Vitro Differentiation of Embryonic Stem Cells as a Model of Early Hematopoietic Development. Methods in Molecular Biology, 2009, 538, 317-334.	0.4	46
44	Tracking Mesoderm Formation and Specification to the Hemangioblast in Vitro. Trends in Cardiovascular Medicine, 2004, 14, 314-317.	2.3	44
45	Influencing Hematopoietic Differentiation of Mouse Embryonic Stem Cells using Soluble Heparin and Heparan Sulfate Saccharides. Journal of Biological Chemistry, 2011, 286, 6241-6252.	1.6	44
46	SOXF transcription factors in cardiovascular development. Seminars in Cell and Developmental Biology, 2017, 63, 50-57.	2.3	44
47	A Developmentally Regulated Heparan Sulfate Epitope Defines a Subpopulation with Increased Blood Potential During Mesodermal Differentiation. Stem Cells, 2008, 26, 3108-3118.	1.4	43
48	Cooperative binding of AP-1 and TEAD4 modulates the balance between vascular smooth muscle and hemogenic cell fate. Development (Cambridge), 2016, 143, 4324-4340.	1.2	43
49	Endoglin expression in blood and endothelium is differentially regulated by modular assembly of the Ets/Gata hemangioblast code. Blood, 2008, 112, 4512-4522.	0.6	42
50	The <scp>MYST</scp>erious <scp>MOZ</scp>, a histone acetyltransferase with a key role in haematopoiesis. Immunology, 2013, 139, 161-165.	2.0	42
51	ETV2 expression marks blood and endothelium precursors, including hemogenic endothelium, at the onset of blood development. Developmental Dynamics, 2012, 241, 1454-1464.	0.8	40
52	The Hemogenic Competence of Endothelial Progenitors Is Restricted by Runx1 Silencing during Embryonic Development. Cell Reports, 2016, 15, 2185-2199.	2.9	40
53	Regulation of RUNX1 dosage is crucial for efficient blood formation from hemogenic endothelium. Development (Cambridge), 2018, 145, .	1.2	38
54	Early Human Hemogenic Endothelium Generates Primitive and Definitive Hematopoiesis InÂVitro. Stem Cell Reports, 2018, 11, 1061-1074.	2.3	38

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55	RUNX1 marks a luminal castration-resistant lineage established at the onset of prostate development. ELife, 2020, 9, .	2.8	34
56	Interplay between SOX7 and RUNX1 regulates hemogenic endothelial fate in the yolk sac. Development (Cambridge), 2016, 143, 4341-4351.	1.2	30
57	Contrasting effects of Sox17- and Sox18-sustained expression at the onset of blood specification. Blood, 2010, 115, 3895-3898.	0.6	29
58	Murine AGM single-cell profiling identifies a continuum of hemogenic endothelium differentiation marked by ACE. Blood, 2022, 139, 343-356.	0.6	29
59	Primitive erythrocytes are generated from hemogenic endothelial cells. Scientific Reports, 2017, 7, 6401.	1.6	28
60	HDAC1 and HDAC2 Modulate TGF-Î² Signaling during Endothelial-to-Hematopoietic Transition. Stem Cell Reports, 2018, 10, 1369-1383.	2.3	28
61	RUNX1B Expression Is Highly Heterogeneous and Distinguishes Megakaryocytic and Erythroid Lineage Fate in Adult Mouse Hematopoiesis. PLoS Genetics, 2016, 12, e1005814.	1.5	28
62	CUL2^{LRR1}, TRAIP and p97 control CMG helicase disassembly in the mammalian cell cycle. EMBO Reports, 2021, 22, e52164.	2.0	25
63	Developmental-stage-dependent transcriptional response to leukaemic oncogene expression. Nature Communications, 2015, 6, 7203.	5.8	24
64	SOX7 expression is critically required in FLK1-expressing cells for vasculogenesis and angiogenesis during mouse embryonic development. Mechanisms of Development, 2017, 146, 31-41.	1.7	24
65	Runx1 Structure and Function in Blood Cell Development. Advances in Experimental Medicine and Biology, 2017, 962, 65-81.	0.8	23
66	HOXB4 Promotes Hemogenic Endothelium Formation without Perturbing Endothelial Cell Development. Stem Cell Reports, 2018, 10, 875-889.	2.3	20
67	Concise Review: Recent Advances in the In Vitro Derivation of Blood Cell Populations. Stem Cells Translational Medicine, 2016, 5, 1330-1337.	1.6	19
68	Mouse RUNX1C regulates premegakaryocytic/erythroid output and maintains survival of megakaryocyte progenitors. Blood, 2017, 130, 271-284.	0.6	19
69	Embryonic stem cellâ€“derived hemangioblasts remain epigenetically plastic and require PRC1 to prevent neural gene expression. Blood, 2011, 117, 83-87.	0.6	18
70	New insights into the regulation by RUNX1 and GFI1(s) proteins of the endothelial to hematopoietic transition generating primordial hematopoietic cells. Cell Cycle, 2016, 15, 2108-2114.	1.3	18
71	Identification of gene specific cis-regulatory elements during differentiation of mouse embryonic stem cells: An integrative approach using high-throughput datasets. PLoS Computational Biology, 2019, 15, e1007337.	1.5	18
72	Transcriptional control of blood cell emergence. FEBS Letters, 2019, 593, 3304-3315.	1.3	16

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73	RUNX1 Dosage in Development and Cancer. Molecules and Cells, 2020, 43, 126-138.	1.0	16
74	Enhancer recruitment of transcription repressors RUNX1 and TLE3 by mis-expressed FOXC1 blocks differentiation in acute myeloid leukemia. Cell Reports, 2021, 36, 109725.	2.9	15
75	Contributions of Embryonic HSC-Independent Hematopoiesis to Organogenesis and the Adult Hematopoietic System. Frontiers in Cell and Developmental Biology, 2021, 9, 631699.	1.8	14
76	The transcription factor Mxd4 controls the proliferation of the first blood precursors atÂthe onset of hematopoietic development inÂvitro. Experimental Hematology, 2011, 39, 1090-1100.	0.2	13
77	Alternative Enhancer Usage and Targeted Polycomb Marking Hallmark Promoter Choice during T Cell Differentiation. Cell Reports, 2020, 32, 108048.	2.9	13
78	The Sequential Expression of CD40 and Icam2 Defines Progressive Steps in the Formation of Blood Precursors from the Mesoderm Germ Layer. Stem Cells, 2010, 28, 1089-1098.	1.4	12
79	Expression of the MOZ-TIF2 oncoprotein in mice represses senescence. Experimental Hematology, 2016, 44, 231-237.e4.	0.2	12
80	Smooth muscle cells largely develop independently of functional hemogenic endothelium. Stem Cell Research, 2014, 12, 222-232.	0.3	11
81	Identification and characterization of a novel transcriptional target of RUNX1/AML1 at the onset of hematopoietic development. Blood, 2011, 118, 594-597.	0.6	10
82	FOXF1 inhibits hematopoietic lineage commitment during early mesoderm specification. Development (Cambridge), 2015, 142, 3307-20.	1.2	10
83	Ezh2 is essential for the generation of functional yolk sac derived erythro-myeloid progenitors. Nature Communications, 2021, 12, 7019.	5.8	8
84	SOX7-enforced expression promotes the expansion of adult blood progenitors and blocks B-cell development. Open Biology, 2016, 6, 160070.	1.5	7
85	A novel prospective isolation of murine fetal liver progenitors to study in utero hematopoietic defects. PLoS Genetics, 2018, 14, e1007127.	1.5	7
86	Reduction of RUNX1 transcription factor activity by a CBFA2T3-mimicking peptide: application to B cell precursor acute lymphoblastic leukemia. Journal of Hematology and Oncology, 2021, 14, 47.	6.9	7
87	Quantitative phosphoproteome analysis of embryonic stem cell differentiation toward blood. Oncotarget, 2015, 6, 10924-10939.	0.8	7
88	Isolation of recombinant partial gag gene product p18 (HIV-1Bru) from Escherichia coli. Journal of Chromatography A, 1989, 476, 99-112.	1.8	6
89	SOX7 promotes the maintenance and proliferation of B cell precursor acute lymphoblastic cells. Oncotarget, 2017, 8, 64974-64983.	0.8	5
90	Endoglin potentiates nitric oxide synthesis to enhance definitive hematopoiesis. Biology Open, 2015, 4, 819-829.	0.6	4

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91	The RUNX1b Isoform Defines Hemogenic Competency in Developing Human Endothelial Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 812639.	1.8	3
92	Embryonic Stem Cell Differentiation â€“ A Model System to Study Embryonic Haematopoiesis. , 2014, , .		0
93	Decoding hematopoietic stem cellsâ€™ birth. Blood, 2020, 136, 775-776.	0.6	0
94	Epigenetic and Transcriptional Mechanisms Regulating the Development of the Haematopoietic System in Mammals. Epigenetics and Human Health, 2014, , 67-93.	0.2	0