Lionel Blanc

List of Publications by Year
in descending order

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77 papers	2,844 citations	201674 27 h-index	182427 51 g-index
85 all docs	85 docs citations	85 times ranked	5478 citing authors

#	Article	IF	Citations
1	EVpedia: a community web portal for extracellular vesicles research. Bioinformatics, 2015, 31, 933-939.	4.1	317
2	Exosome secretion, including the DNA damage-induced p53-dependent secretory pathway, is severely compromised in TSAP6/Steap3-null mice. Cell Death and Differentiation, 2008, 15, 1723-1733.	11.2	295
3	Galectin-5 is bound onto the surface of rat reticulocyte exosomes and modulates vesicle uptake by macrophages. Blood, 2010, 115, 696-705.	1.4	250
4	New insights into the function of Rab GTPases in the context of exosomal secretion. Small GTPases, 2018, 9, 95-106.	1.6	228
5	Degradation of AP2 During Reticulocyte Maturation Enhances Binding of Hsc70 and Alix to a Common Site on TfR for Sorting into Exosomes. Traffic, 2004, 5, 181-193.	2.7	164
6	Exosome release by reticulocytesâ€"An integral part of the red blood cell differentiation system. Blood Cells, Molecules, and Diseases, 2005, 35, 21-26.	1.4	87
7	Myosin IIA interacts with the spectrin-actin membrane skeleton to control red blood cell membrane curvature and deformability. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4377-E4385.	7.1	87
8	Erythropoiesis: insights into pathophysiology and treatments in 2017. Molecular Medicine, 2018, 24, 11.	4.4	76
9	Pomalidomide reverses Î³-globin silencing through the transcriptional reprogramming of adult hematopoietic progenitors. Blood, 2016, 127, 1481-1492.	1.4	75
10	Expression of Concern: <scp>HMGB</scp>1 mediates splenomegaly and expansion of splenic <scp>CD</scp>11b+ <scp>L</scp>yâ€6<scp>C</scp>^{high} inflammatory monocytes in murine sepsis survivors. Journal of Internal Medicine, 2013, 274, 381-390.	6.0	74
11	Unraveling Macrophage Heterogeneity in Erythroblastic Islands. Frontiers in Immunology, 2017, 8, 1140.	4.8	73
12	The Glut1 and Glut4 glucose transporters are differentially expressed during perinatal and postnatal erythropoiesis. Blood, 2008, 112, 4729-4738.	1.4	71
13	Diamond Blackfan anemia: a model for the translational approach to understanding human disease. Expert Review of Hematology, 2014, 7, 359-372.	2.2	62
14	Reticulocyte-secreted exosomes bind natural IgM antibodies: involvement of a ROS-activatable endosomal phospholipase iPLA2. Blood, 2007, 110, 3407-3416.	1.4	60
15	The water channel aquaporin-1 partitions into exosomes during reticulocyte maturation: implication for the regulation of cell volume. Blood, 2009, 114, 3928-3934.	1.4	54
16	Reticulocyte membrane remodeling: contribution of the exosome pathway. Current Opinion in Hematology, 2010, 17, 1.	2.5	54
17	The erythroblastic island as an emerging paradigm in the anemia of inflammation. Immunologic Research, 2015, 63, 75-89.	2.9	49
18	Correcting Smad1/5/8, mTOR, and VEGFR2 treats pathology in hereditary hemorrhagic telangiectasia models. Journal of Clinical Investigation, 2020, 130, 942-957.	8.2	48

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19	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. Molecular Medicine, 2015, 21, 951-958.	4.4	45
20	Tacrolimus rescues the signaling and gene expression signature of endothelial ALK1 loss-of-function and improves HHT vascular pathology. Human Molecular Genetics, 2017, 26, 4786-4798.	2.9	45
21	Developmental differences between neonatal and adult human erythropoiesis. American Journal of Hematology, 2018, 93, 494-503.	4.1	45
22	A mouse model of hereditary hemorrhagic telangiectasia generated by transmammary-delivered immunoblocking of BMP9 and BMP10. Scientific Reports, 2016, 6, 37366.	3.3	44
23	Control of Erythrocyte Membrane-Skeletal Cohesion by the Spectrin-Membrane Linkage. Biochemistry, 2010, 49, 4516-4523.	2.5	37
24	p53-Independent Cell Cycle and Erythroid Differentiation Defects in Murine Embryonic Stem Cells Haploinsufficient for Diamond Blackfan Anemia-Proteins: RPS19 versus RPL5. PLoS ONE, 2014, 9, e89098.	2.5	33
25	CALHM1 ion channel elicits amyloid-Î² clearance by insulin-degrading enzyme in cell lines and in vivo in the mouse brain. Journal of Cell Science, 2015, 128, 2330-2338.	2.0	32
26	Critical function for the Ras-GTPase activating protein RASA3 in vertebrate erythropoiesis and megakaryopoiesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12099-12104.	7.1	31
27	Tropomodulin 1 controls erythroblast enucleation via regulation of F-actin in the enucleosome. Blood, 2017, 130, 1144-1155.	1.4	31
28	Molecular convergence in ex vivo models of Diamond-Blackfan anemia. Blood, 2017, 129, 3111-3120.	1.4	30
29	Poly(I:C) induces controlled release of IL-36Î³ from keratinocytes in the absence of cell death. Immunologic Research, 2015, 63, 228-235.	2.9	29
30	Steroid resistance in Diamond Blackfan anemia associates with p57Kip2 dysregulation in erythroid progenitors. Journal of Clinical Investigation, 2020, 130, 2097-2110.	8.2	29
31	An IDH1-vitamin C crosstalk drives human erythroid development by inhibiting pro-oxidant mitochondrial metabolism. Cell Reports, 2021, 34, 108723.	6.4	28
32	Comprehensive phenotyping of erythropoiesis in human bone marrow: Evaluation of normal and ineffective erythropoiesis. American Journal of Hematology, 2021, 96, 1064-1076.	4.1	28
33	Interactions between Plasmodium falciparum skeleton-binding protein 1 and the membrane skeleton of malaria-infected red blood cells. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1619-1628.	2.6	24
34	HMGB1-mediated restriction of EPO signaling contributes to anemia of inflammation. Blood, 2022, 139, 3181-3193.	1.4	23
35	Increased hepcidin in transferrin-treated thalassemic mice correlates with increased liver BMP2 expression and decreased hepatocyte ERK activation. Haematologica, 2016, 101, 297-308.	3.5	22
36	Characterization, regulation, and targeting of erythroid progenitors in normal and disordered human erythropoiesis. Current Opinion in Hematology, 2017, 24, 159-166.	2.5	22

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37	Dynamic changes in murine erythropoiesis from birth to adulthood: implications for the study of murine models of anemia. Blood Advances, 2021, 5, 16-25.	5.2	21
38	VPS4A Mutations in Humans Cause Syndromic Congenital Dyserythropoietic Anemia due to Cytokinesis and Trafficking Defects. American Journal of Human Genetics, 2020, 107, 1149-1156.	6.2	20
39	Abnormal erythroid maturation leads to microcytic anemia in the TSAP6/Steap3 null mouse model. American Journal of Hematology, 2015, 90, 235-241.	4.1	17
40	Diminutive somatic deletions in the 5q region lead to a phenotype atypical of classical 5qâ˜’ syndrome. Blood, 2013, 122, 2487-2490.	1.4	14
41	Mutant KLF1 in Adult Anemic Nan Mice Leads to Profound Transcriptome Changes and Disordered Erythropoiesis. Scientific Reports, 2018, 8, 12793.	3.3	14
42	Increased Reactive Oxygen Species and Cell Cycle Defects Contribute to Anemia in the RASA3 Mutant Mouse Model scat. Frontiers in Physiology, 2018, 9, 689.	2.8	10
43	Pomalidomide and Dexamethasone Regulate Human Erythroid Progenitor Signaling through Two Distinct Pathways. Blood, 2016, 128, 2423-2423.	1.4	6
44	HMGB1 Is a Key Modulator Of Stress Erythropoiesis During Sepsis. Blood, 2013, 122, 8-8.	1.4	5
45	Thescatmouse model highlights RASA3, a GTPase activating protein, as a key regulator of vertebrate erythropoiesis and megakaryopoiesis. Small GTPases, 2013, 4, 47-50.	1.6	4
46	Synthesis and pharmacological evaluation of pomalidomide derivatives useful for sickle cell disease treatment. Bioorganic Chemistry, 2021, 114, 105077.	4.1	3
47	Differential effects of RASA3 mutations on hematopoiesis are profoundly influenced by genetic background and molecular variant. PLoS Genetics, 2020, 16, e1008857.	3.5	3
48	General Considerations of Hemolytic Diseases, Red Cell Membrane, and Enzyme Defects. , 2016, , 134-158.		2
49	Stress erythropoiesis: selenium to the rescue!. Blood, 2018, 131, 2512-2513.	1.4	2
50	Rasa3 regulates stage-specific cell cycle progression in murine erythropoiesis. Blood Cells, Molecules, and Diseases, 2021, 87, 102524.	1.4	2
51	RASA3 Plays a Critical, Conserved Role in Erythroid Differentiation. Blood, 2012, 120, 3186-3186.	1.4	2
52	RASA3 Deficiency Contributes to Anemia By Multiple Mechanisms. Blood, 2017, 130, 920-920.	1.4	2
53	RASA3 Is Involved in Cell Cycle Progression, Hemoglobinization and Generation of Reactive Oxygen Species during Mammalian Erythropoiesis. Blood, 2015, 126, 3328-3328.	1.4	1
54	Pomalidomide Augments Fetal Hemoglobin Production In Primary Erythroid Cells By a Novel Mechanism Modulating BCL11A But Not KLF-1. Blood, 2013, 122, 314-314.	1.4	1

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55	Down-Regulation of TfR1 Increases Erythroid Precursor Enucleation and Hepatocyte Hepcidin Expression in ÃŸ-Thalassemic Mice. Blood, 2015, 126, 754-754.	1.4	1
56	Pomalidomide Transcriptionally Reprograms Adult Erythroid Progenitors Independently of Ikaros Proteasomal Degradation. Blood, 2015, 126, 160-160.	1.4	1
57	VPS4A : A Novel Candidate Gene for Congenital Dyserythropoietic Anemia. Blood, 2017, 130, 923-923.	1.4	1
58	HMGB1 Causes Anemia of Inflammation By Modulating Erythropoietin Signal Transduction. Blood, 2018, 132, 628-628.	1.4	1
59	Failure of Erythropoiesis and Megakaryocytopoiesis in RASA3 Mutant Scat Mice. Blood, 2011, 118, 680-680.	1.4	0
60	Increased Transferrin Concentration Ameliorates Anemia in Beta-Thalassemic Mice Through Changes in Iron Uptake and TfR1 Trafficking. Blood, 2011, 118, 906-906.	1.4	0
61	Suppression of the Hematopoietic Defect in TF-1 Cells Depleted of Shwachman-Diamond Syndrome Protein: Correlation with Decreased eIF6 Levels. Blood, 2012, 120, 1270-1270.	1.4	0
62	MiR-144/451 Facilitates Erythroid Cellular Iron Uptake by Targeting Rab14. Blood, 2012, 120, 609-609.	1.4	0
63	Primitive Erythropoiesis and Osteogenesis Are Differentially Impaired In Rpl5 and Rps19 Mutant Murine Embryonic Stem Cell Models Of Diamond Blackfan Anemia. Blood, 2013, 122, 3704-3704.	1.4	0
64	Mechanisms Regulating Increased Embryonic Î²h1 Globin Expression in Adult Nan anemic Mice. Blood, 2014, 124, 742-742.	1.4	0
65	Degenerate DNA Binding By Mutant (E339D) KLF1 Dramatically Alters the Erythroid Transcriptome in the Nan Mouse Model. Blood, 2015, 126, 932-932.	1.4	0
66	Transcriptome Analysis of Erythroid Cells Cultured from Diamond Blackfan Anemia Patients with Ribosomal and GATA1 Mutations Reveals Dysregulation of Inflammatory Response Genes. Blood, 2015, 126, 3605-3605.	1.4	0
67	Unravelling Macrophage Heterogeneity in Erythroblastic Islands Between Species. Blood, 2016, 128, 2436-2436.	1.4	0
68	Inhibition of Human Erythropoiesis during Inflammation Is Mediated By High Mobility Group Box Protein 1 (HMGB1) through Decreased Commitment of Hematopoietic Stem Cells to the Erythroid Lineage and By Increased Apoptosis of Terminally Differentiating Erythroblasts. Blood, 2016, 128, 702-702.	1.4	0
69	The Erythro-Myeloblastic Island (EMBI): A Hematopoietic Niche Balancing Erythropoiesis and Myelopoiesis. Blood, 2018, 132, 842-842.	1.4	0
70	Dexamethasone Accelerates the Transition of Human BFU-E to CFU-E and Enhances CFU-E Proliferation through Cell Cycle Regulation. Blood, 2018, 132, 3620-3620.	1.4	0
71	VPS4A mutations Cause a Syndrome with Dyserythropoiesis, Hemolytic Anemia, and Neurodevelopmental Delay. Blood, 2019, 134, 339-339.	1.4	0
72	Glucocorticoids Induce the Maintenance and Expansion of an Immature CFU-E Erythroid Progenitor Population in Humans. Blood, 2019, 134, 943-943.	1.4	0

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73	Is the erythropoietin receptor the key to the identification of the central macrophage in erythroblastic islands?. Blood Science, 2020, 2, 38-39.	0.9	0
74	RASA3 Regulates Stage-Specific AKT Signaling and Cell Cycle Progression in Mammalian Erythropoiesis. Blood, 2020, 136, 3-3.	1.4	0
75	Targeting of Calbindin 1 (CALB1) Rescues Erythropoiesis in a Human Model of Diamond Blackfan Anemia: Implications for Novel Therapies. Blood, 2020, 136, 4-4.	1.4	0
76	Blood cells molecules and diseases in 2022: A fountain of youth. Blood Cells, Molecules, and Diseases, 2022, 95, 102665.	1.4	0
77	Defending the island against excess heme. Blood, 2022, 139, 3359-3360.	1.4	0