Solomon Fiifi Ofori-Acquah

List of Publications by Year
in descending order

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		236912	206102
94	2,617	25	48
papers	citations	h-index	g-index

95	95	95	4059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enabling the genomic revolution in Africa. Science, 2014, 344, 1346-1348.	12.6	361
2	Extracellular hemin crisis triggers acute chest syndrome in sickle mice. Journal of Clinical Investigation, 2013, 123, 4809-4820.	8.2	221
3	Microvasculature-on-a-chip for the long-term study of endothelial barrier dysfunction and microvascular obstruction in disease. Nature Biomedical Engineering, 2018, 2, 453-463.	22.5	118
4	Antioxidant Defense to Hemolysis Is Organ-Specific and Reflects a Heterogeneity in Vascular Permeability in Sickle Cell Disease.. Blood, 2009, 114, 1537-1537.	1.4	111
5	Activated leukocyte cell adhesion molecule: a new paradox in cancer. Translational Research, 2008, 151, 122-128.	5.0	109
6	Activated leukocyte cell adhesion molecule in breast cancer: prognostic indicator. Breast Cancer Research, 2004, 6, R478-87.	5.0	102
7	Activated leukocyte cell adhesion molecule is a component of the endothelial junction involved in transendothelial monocyte migration. FEBS Letters, 2006, 580, 2637-2645.	2.8	101
8	Erythroid DAMPs drive inflammation in SCD. Blood, 2014, 123, 3689-3690.	1.4	89
9	p38 MAP kinase activation mediates Î³-globin gene induction in erythroid progenitors. Experimental Hematology, 2003, 31, 1089-1096.	0.4	78
10	Heme oxygenase-1 gene promoter polymorphism is associated with reduced incidence of acute chest syndrome among children with sickle cell disease. Blood, 2012, 120, 3822-3828.	1.4	74
11	Mechanism for fetal hemoglobin induction by histone deacetylase inhibitors involves Î³-globin activation by CREB1 and ATF-2. Blood, 2006, 108, 3590-3599.	1.4	70
12	Association between plasma free haem and incidence of vasoâ€•occlusive episodes and acute chest syndrome in children with sickle cell disease. British Journal of Haematology, 2013, 162, 702-705.	2.5	70
13	High dose vitamin <scp>D</scp> therapy for chronic pain in children and adolescents with sickle cell disease: results of a randomized double blind pilot study. British Journal of Haematology, 2012, 159, 211-215.	2.5	64
14	Heterogeneity of barrier function in the lung reflects diversity in endothelial cell junctions. Microvascular Research, 2008, 75, 391-402.	2.5	58
15	Vitamin D deficiency and chronic pain in sickle cell disease. British Journal of Haematology, 2011, 153, 538-540.	2.5	51
16	Cantharidin-induced mitotic arrest is associated with the formation of aberrant mitotic spindles and lagging chromosomes resulting, in part, from the suppression of PP2AÎ±. Molecular Cancer Therapeutics, 2006, 5, 2727-2736.	4.1	48
17	Zileuton induces hemoglobin F synthesis in erythroid progenitors: role of the l-arginineâ€“nitric oxide signaling pathway. Blood, 2004, 103, 3945-3950.	1.4	43
18	Heme Mediated STAT3 Activation in Severe Malaria. PLoS ONE, 2012, 7, e34280.	2.5	40

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19	Activated neutrophil-mediated sickle red blood cell adhesion to lung vascular endothelium: role of phosphatidylserine-exposed sickle red blood cells. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1679-H1685.	3.2	34
20	Comparative Analysis of Pain Behaviours in Humanized Mouse Models of Sickle Cell Anemia. PLoS ONE, 2016, 11, e0160608.	2.5	33
21	Inflammatory targets of therapy in sickle cell disease. Translational Research, 2016, 167, 281-297.	5.0	31
22	Spatiotemporal Dysfunction of the Vascular Permeability Barrier in Transgenic Mice with Sickle Cell Disease. Anemia, 2012, 2012, 1-6.	1.7	30
23	Role of STAT3 and GATA-1 interactions in Î³-globin gene expression. Experimental Hematology, 2009, 37, 889-900.	0.4	29
24	Nonhematopoietic Nrf2 dominantly impedes adult progression of sickle cell anemia in mice. JCI Insight, 2016, 1, .	5.0	29
25	Mechanisms of transcriptional regulation and prognostic significance of activated leukocyte cell adhesion molecule in cancer. Molecular Cancer, 2010, 9, 266.	19.2	27
26	Hemopexin deficiency promotes acute kidney injury in sickle cell disease. Blood, 2020, 135, 1044-1048.	1.4	25
27	Stat3Î² Inhibits Î³-Globin Gene Expression in Erythroid Cells. Journal of Biological Chemistry, 2002, 277, 16211-16219.	3.4	24
28	Global Gene Expression Profiling of Endothelium Exposed to Heme Reveals an Organ-Specific Induction of Cytoprotective Enzymes in Sickle Cell Disease. PLoS ONE, 2011, 6, e18399.	2.5	24
29	Alloimmunization to transfused HOD red blood cells is not increased in mice with sickle cell disease. Transfusion, 2012, 52, 231-240.	1.6	23
30	Inflammatory and oxidative stress phenotypes in transgenic sickle cell mice. Blood Cells, Molecules, and Diseases, 2016, 62, 13-21.	1.4	21
31	Biosynthesis of oxidized lipid mediators via lipoprotein-associated phospholipase A₂hydrolysis of extracellular cardiolipin induces endothelial toxicity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L303-L316.	2.9	20
32	Localisation ofcisRegulatory Elements at the Î²-Globin Locus: Analysis of Hybrid Haplotype Chromosomes. Biochemical and Biophysical Research Communications, 1999, 254, 181-187.	2.1	19
33	Stat3 Activity Is Required for Centrosome Duplication in Chinese Hamster Ovary Cells. Journal of Biological Chemistry, 2004, 279, 41801-41806.	3.4	19
34	Using Formative Research to Develop a Counselor Training Program for Newborn Screening in Ghana. Journal of Genetic Counseling, 2015, 24, 267-277.	1.6	19
35	Pâ€selectin plays a role in haemâ€induced acute lung injury in sickle mice. British Journal of Haematology, 2019, 186, 329-333.	2.5	18
36	Essential role for ALCAM gene silencing in megakaryocytic differentiation of K562 cells. BMC Molecular Biology, 2010, 11, 91.	3.0	17

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37	Augmented <scp>NRF</scp>2 activation protects adult sickle mice from lethal acute chest syndrome. British Journal of Haematology, 2018, 182, 271-275.	2.5	17
38	Heme Induces IL-6 and Cardiac Hypertrophy Genes Transcripts in Sickle Cell Mice. Frontiers in Immunology, 2020, 11, 1910.	4.8	17
39	Moderate exercise training decreases inflammation in transgenic sickle cell mice. Blood Cells, Molecules, and Diseases, 2018, 69, 45-52.	1.4	16
40	High protein diet attenuates histopathologic organ damage and vascular leakage in transgenic murine model of sickle cell anemia. Experimental Biology and Medicine, 2014, 239, 966-974.	2.4	15
41	Microarchitectural and mechanical characterization of the sickle bone. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 220-228.	3.1	15
42	Prevalence of relative systemic hypertension in adults with sickle cell disease in Ghana. PLoS ONE, 2018, 13, e0190347.	2.5	15
43	Mass Spectral Analysis of Asymmetric Hemoglobin Hybrids: Demonstration of Hb FS (Î±2Î³Î²S) in Sickle Cell Disease. Analytical Biochemistry, 2001, 298, 76-82.	2.4	14
44	Sickle Cell Disease: Genetics, Cellular and Molecular Mechanisms, and Therapies. Anemia, 2012, 2012, 1-2.	1.7	14
45	Free heme regulates placenta growth factor through NRF2-antioxidant response signaling. Free Radical Biology and Medicine, 2019, 143, 300-308.	2.9	14
46	The Sickle Cell Disease Ontology: enabling universal sickle cell-based knowledge representation. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	3.0	14
47	Enhanced down-regulation of ALCAM/CD166 in African-American Breast Cancer. BMC Cancer, 2014, 14, 715.	2.6	13
48	Xanthine Oxidase Drives Hemolysis and Vascular Malfunction in Sickle Cell Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 769-782.	2.4	13
49	Smooth muscle cytochrome b5 reductase 3 deficiency accelerates pulmonary hypertension development in sickle cell mice. Blood Advances, 2019, 3, 4104-4116.	5.2	12
50	Nucleotide Variation Regulates the Level of Enhancement by Hypersensitive Site 2 of the Î²-Globin Locus Control Region. Blood Cells, Molecules, and Diseases, 2001, 27, 803-811.	1.4	11
51	Sickle cell disease: tipping the balance of genomic research to catalyse discoveries in Africa. Lancet, The, 2017, 389, 2355-2358.	13.7	11
52	Sleep phenotype in the Townes mouse model of sickle cell disease. Sleep and Breathing, 2019, 23, 333-339.	1.7	11
53	Essential Role for Activated Leukocyte Cell Adhesion Molecule in Transendothelial Migration.. Blood, 2005, 106, 3691-3691.	1.4	11
54	Elevated Circulating Angiogenic Progenitors and White Blood Cells Are Associated with Hypoxia-Inducible Angiogenic Growth Factors in Children with Sickle Cell Disease. Anemia, 2012, 2012, 1-9.	1.7	10

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55	Sickle cell disease as a vascular disorder. Expert Review of Hematology, 2020, 13, 645-653.	2.2	9
56	Cloning of the human activated leukocyte cell adhesion molecule promoter and identification of its tissue-independent transcriptional activation by Sp1. Cellular and Molecular Biology Letters, 2012, 17, 571-85.	7.0	8
57	Nrf2 deficiency in mice attenuates erythropoietic stress-related macrophage hypercellularity. Experimental Hematology, 2020, 84, 19-28.e4.	0.4	8
58	Nonhematopoietic Nrf2 Deficiency Worsens Chronic Intravascular Hemolysis but Not Cardiomyopathy in Transgenic Sickle Cell Mice. Blood, 2020, 136, 18-18.	1.4	8
59	Stakeholder Perspectives on Public Health Genomics Applications for Sickle Cell Disease: A Methodology for a Human Heredity and Health in Africa (H3Africa) Qualitative Research Study. OMICS A Journal of Integrative Biology, 2017, 21, 323-332.	2.0	7
60	Sustained enhancement of OCTN1 transporter expression in association with hydroxyurea induced Î³-globin expression in erythroid progenitors. Experimental Hematology, 2017, 45, 69-73.e2.	0.4	7
61	Organ damage in sickle cell disease study (ORDISS): protocol for a longitudinal cohort study based in Ghana. BMJ Open, 2017, 7, e016727.	1.9	7
62	Effects of Individualized Treadmill Endurance Training on Oxidative Stress in Skeletal Muscles of Transgenic Sickle Mice. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-9.	4.0	7
63	Original Research: Diametric effects of hypoxia on pathophysiology of sickle cell disease in a murine model. Experimental Biology and Medicine, 2016, 241, 766-771.	2.4	6
64	Cardiac expression of HMOX1 and PGF in sickle cell mice and haemâ€treated wild type mice dominates organ expression profiles via Nrf2 (Nfe2l2). British Journal of Haematology, 2019, 187, 666-675.	2.5	6
65	Acute Chest Syndrome In Transgenic Mouse Models of Sickle Cell Disease Triggered by Free Heme. Blood, 2010, 116, 944-944.	1.4	6
66	Polygenic risk scores for CARDINAL study. Nature Genetics, 2022, 54, 527-530.	21.4	5
67	Hemoglobin Variants Influence Plasmodium Falciparum Sexual Differentiation. Blood, 2021, 138, 965-965.	1.4	4
68	Immunomodulatory actions of a kynurenine-derived endogenous electrophile. Science Advances, 2022, 8, .	10.3	4
69	Is N-Cadherin Expression Important in Ductal Carcinoma?. Southern Medical Journal, 2008, 101, 470-475.	0.7	3
70	The SickleGenAfrica Network. The Lancet Global Health, 2020, 8, e1255-e1256.	6.3	3
71	Sickle Cell Disease Genomics of Africa (SickleGenAfrica) Network: ethical framework and initial qualitative findings from community engagement in Ghana, Nigeria and Tanzania. BMJ Open, 2021, 11, e048208.	1.9	3
72	Beyond National Borders: A Global Perspective on Advances in Sickle Cell Disease Research and Management, and New Challenges in the Genome Era. , 2007, , 333-345.		2

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73	Mechanisms for Transcriptional Activation of the Human Activated Leukocyte Cell Adhesion Molecule Gene and Its Silencing by Immunosuppressive Toxins.. Blood, 2006, 108, 1637-1637.	1.4	2
74	Determinants Of Heme-Oxygenase-1 Upregulation In Patients With Sickle Cell Disease. Blood, 2013, 122, 2235-2235.	1.4	2
75	Targeted Treatment Of Acute Chest Syndrome In Transgenic Sickle Mice. Blood, 2013, 122, 727-727.	1.4	1
76	Platelet Transfusion Requirements Are Associated with Endothelial Cell Injury and Angiogenesis During Allogeneic Hematopoietic Stem Cell Transplantation.. Blood, 2010, 116, 3487-3487.	1.4	1
77	Sickle Cell Disease and Acute Chest Syndrome: Mechanisms and Pathogenenesis. Respiratory Medicine, 2017, , 49-65.	0.1	1
78	Heme Induced Progressive Loss of Endothelial Protein C Receptor Promotes Development of Chronic Kidney Disease in Sickle Cell Disorders. Blood, 2021, 138, 188-188.	1.4	1
79	Hydroxyurea decouples persistent F-cell elevation and induction of Î³-globin. Experimental Hematology, 2022, , .	0.4	1
80	Editorial: The Genetic and Environmental Basis for Diseases in Understudied Populations. Frontiers in Genetics, 2020, 11, 559956.	2.3	0
81	Sub-Marginal Endothelial Cells Dynamically Regulate Endothelial Sheet Migration.. Blood, 2005, 106, 3971-3971.	1.4	0
82	Essential Role for Activated Leukocyte Cell Adhesion Molecule Gene Silencing by GATA-1 in Megakaryocytic Progenitor Cell Biology.. Blood, 2006, 108, 1194-1194.	1.4	0
83	Fetal Hemoglobin for What Ails Sickle Hemoglobin. , 2007, , 173-192.		0
84	Cytoprotective Mechanisms of the Lung in Sickle Cell Disease.. Blood, 2009, 114, 1538-1538.	1.4	0
85	MicroRNAâ€27a and PPARÎ³ regulate endothelin signaling in sickle cell diseaseâ€related pulmonary hypertension. FASEB Journal, 2012, 26, 873.2.	0.5	0
86	Extracellular Hemin Auto-Amplification Intensifies Tissue Injury In Sickle Cell Disease. Blood, 2013, 122, 972-972.	1.4	0
87	microRNAâ€301b reduces PPARÎ³ expression in transgenic sickle mice and in heminâ€treated human pulmonary artery endothelial cells (1089.22). FASEB Journal, 2014, 28, 1089.22.	0.5	0
88	Moderate Exercise Training Attenuates Inflammation in Transgenic Sickle Cell Mice. Blood, 2015, 126, 976-976.	1.4	0
89	Prevalence of Relative Systemic Hypertension in Ghanaian Adults with Sickle Cell Disease. Blood, 2015, 126, 3409-3409.	1.4	0
90	Engineering a "Self-Healing" Hydrogel-Based Microvasculature-on-a-Chip for Investigating the Effects of Cellular and Biomolecular Interactions on Endothelial Permeability in Sickle Cell Disease. Blood, 2015, 126, 240-240.	1.4	0

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91	The Oxidant Response Transcription Factor NRF2 Mediates Heme Activation of Placenta Growth Factor Expression in Erythroid Cells, a Contributor to Pulmonary Hypertension in Sickle Cell Disease. Blood, 2015, 126, 403-403.	1.4	0
92	Heterogeneity in Multi-Organ Expression of HO-1 and PlGF in Sickle Mice Mimic Exposure of Non-Sickle Mice to Extracellular Heme Via Nrf2-Dependent Pathways. Blood, 2018, 132, 2392-2392.	1.4	0
93	The T117S Variant of Cytochrome b5 Reductase 3 Increases the Risk for Ischemic Stroke with Enhanced Anemia in Mice with Sickle Cell Disease. Blood, 2020, 136, 17-18.	1.4	0
94	Nrf2 Activation With CDDO-Methyl Promotes Beneficial and Deleterious Clinical Effects in Transgenic Mice With Sickle Cell Anemia. Frontiers in Pharmacology, 2022, 13, .	3.5	0