

Frank S Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

5,240
citations

30
h-index

72
g-index

77
ext. papers

5,676
ext. citations

8.4
avg, IF

5.39
L-index

#	Paper	IF	Citations
64	Fatal systemic inflammatory response syndrome in a ornithine transcarbamylase deficient patient following adenoviral gene transfer. <i>Molecular Genetics and Metabolism</i> , 2003 , 80, 148-58	3.7	1115
63	Activation of the IkappaB alpha kinase complex by MEKK1, a kinase of the JNK pathway. <i>Cell</i> , 1997 , 88, 213-22	56.2	675
62	MEKK1 activates both IkappaB kinase alpha and IkappaB kinase beta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 9319-24	11.5	360
61	A family with erythrocytosis establishes a role for prolyl hydroxylase domain protein 2 in oxygen homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 654-9	11.5	263
60	A gain-of-function mutation in the HIF2A gene in familial erythrocytosis. <i>New England Journal of Medicine</i> , 2008 , 358, 162-8	59.2	247
59	Sequence determinants in hypoxia-inducible factor-1alpha for hydroxylation by the prolyl hydroxylases PHD1, PHD2, and PHD3. <i>Journal of Biological Chemistry</i> , 2002 , 277, 39792-800	5.4	233
58	Mitogen-activated protein kinase/ERK kinase kinases 2 and 3 activate nuclear factor-kappaB through IkappaB kinase-alpha and IkappaB kinase-beta. <i>Journal of Biological Chemistry</i> , 1999 , 274, 8355-8	5.4	229
57	Regulation of adult erythropoiesis by prolyl hydroxylase domain proteins. <i>Blood</i> , 2008 , 111, 3229-35	2.2	211
56	Human high-altitude adaptation: forward genetics meets the HIF pathway. <i>Genes and Development</i> , 2014 , 28, 2189-204	12.6	168
55	Tight-binding inhibition of angiogenin and ribonuclease A by placental ribonuclease inhibitor. <i>Biochemistry</i> , 1989 , 28, 225-30	3.2	148
54	The HIF pathway and erythrocytosis. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2011 , 6, 165-92	3.4	128
53	A novel erythrocytosis-associated PHD2 mutation suggests the location of a HIF binding groove. <i>Blood</i> , 2007 , 110, 2193-6	2.2	128
52	Novel exon 12 mutations in the HIF2A gene associated with erythrocytosis. <i>Blood</i> , 2008 , 111, 5400-2	2.2	96
51	Structure and action of mammalian ribonuclease (angiogenin) inhibitor. <i>Progress in Molecular Biology and Translational Science</i> , 1993 , 44, 1-30		81
50	Erythrocytosis and pulmonary hypertension in a mouse model of human HIF2A gain of function mutation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17134-44	5.4	76
49	Primary structure of human placental ribonuclease inhibitor. <i>Biochemistry</i> , 1988 , 27, 8545-53	3.2	71
48	A role for IOP1 in mammalian cytosolic iron-sulfur protein biogenesis. <i>Journal of Biological Chemistry</i> , 2008 , 283, 9231-8	5.4	61

47	Defective Tibetan PHD2 binding to p23 links high altitude adaption to altered oxygen sensing. <i>Journal of Biological Chemistry</i> , 2014 , 289, 14656-65	5.4	52
46	Tryptophan fluorescence as a probe of placental ribonuclease inhibitor binding to angiogenin. <i>Biochemistry</i> , 1989 , 28, 219-24	3.2	50
45	Erythrocytosis-associated HIF-2alpha mutations demonstrate a critical role for residues C-terminal to the hydroxylacceptor proline. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9050-8	5.4	47
44	A common polymorphism in the oxygen-dependent degradation (ODD) domain of hypoxia inducible factor-1alpha (HIF-1alpha) does not impair Pro-564 hydroxylation. <i>Molecular Cancer</i> , 2003 , 2, 31	42.1	45
43	Human ISCA1 interacts with IOP1/NARFL and functions in both cytosolic and mitochondrial iron-sulfur protein biogenesis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35297-307	5.4	43
42	I kappa B kinase is critical for TNF-alpha-induced VCAM1 gene expression in renal tubular epithelial cells. <i>Journal of Immunology</i> , 2001 , 166, 6839-46	5.3	42
41	Prolyl hydroxylase domain protein 2 (PHD2) binds a Pro-Xaa-Leu-Glu motif, linking it to the heat shock protein 90 pathway. <i>Journal of Biological Chemistry</i> , 2013 , 288, 9662-9674	5.4	40
40	IOP1, a novel hydrogenase-like protein that modulates hypoxia-inducible factor-1alpha activity. <i>Biochemical Journal</i> , 2007 , 401, 341-52	3.8	38
39	A knock-in mouse model of human PHD2 gene-associated erythrocytosis establishes a haploinsufficiency mechanism. <i>Journal of Biological Chemistry</i> , 2013 , 288, 33571-33584	5.4	36
38	Characterization of ribonucleolytic activity of angiogenin towards tRNA. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 161, 121-6	3.4	36
37	Genetic causes of erythrocytosis and the oxygen-sensing pathway. <i>Blood Reviews</i> , 2008 , 22, 321-32	11.1	35
36	Binding of placental ribonuclease inhibitor to the active site of angiogenin. <i>Biochemistry</i> , 1989 , 28, 3556-61	3.1	33
35	Two new mutations in the HIF2A gene associated with erythrocytosis. <i>American Journal of Hematology</i> , 2012 , 87, 439-42	7.1	32
34	Update on mutations in the HIF: EPO pathway and their role in erythrocytosis. <i>Blood Reviews</i> , 2019 , 37, 100590	11.1	30
33	The transcriptional activity of the APP intracellular domain-Fe65 complex is inhibited by activation of the NF-kappaB pathway. <i>Biochemistry</i> , 2003 , 42, 3627-34	3.2	30
32	Electronic spectroscopy of cobalt angiotensin converting enzyme and its inhibitor complexes. <i>Biochemistry</i> , 1987 , 26, 7291-7	3.2	30
31	Erythrocytosis associated with a novel missense mutation in the HIF2A gene. <i>Haematologica</i> , 2010 , 95, 829-32	6.6	28
30	Mouse knock-out of IOP1 protein reveals its essential role in mammalian cytosolic iron-sulfur protein biogenesis. <i>Journal of Biological Chemistry</i> , 2011 , 286, 15797-805	5.4	27

29	The role of PHD2 mutations in the pathogenesis of erythrocytosis. <i>Hypoxia (Auckland, N Z)</i> , 2014 , 2, 71-90	1	26
28	Expression of human placental ribonuclease inhibitor in Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 160, 115-20	3.4	23
27	Kinetic characterization of two active mutants of placental ribonuclease inhibitor that lack internal repeats. <i>Biochemistry</i> , 1990 , 29, 6633-8	3.2	18
26	Functional Assays to Screen and Dissect Genomic Hits: Doubling Down on the National Investment in Genomic Research. <i>Circulation Genomic and Precision Medicine</i> , 2018 , 11, e002178	5.2	16
25	Association of gene with high aerobic capacity of Peruvian Quechua at high altitude. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24006-24011	11.5	16
24	Identification of prolyl hydroxylation modifications in mammalian cell proteins. <i>Proteomics</i> , 2015 , 15, 1259-67	4.8	14
23	A novel beta-oxa polyunsaturated fatty acid downregulates the activation of the I κ B kinase/nuclear factor kappaB pathway, inhibits expression of endothelial cell adhesion molecules, and depresses inflammation. <i>Circulation Research</i> , 2006 , 99, 34-41	15.7	14
22	A subdomain of MEKK1 that is critical for binding to MKK4. <i>Cellular Signalling</i> , 2003 , 15, 65-77	4.9	14
21	Tibetan , an allele with loss-of-function properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12230-12238	11.5	13
20	Oxygen sensing: recent insights from idiopathic erythrocytosis. <i>Cell Cycle</i> , 2006 , 5, 941-5	4.7	13
19	Integrity of the prolyl hydroxylase domain protein 2:erythropoietin pathway in aging mice. <i>Blood Cells, Molecules, and Diseases</i> , 2010 , 45, 9-19	2.1	12
18	The Zinc Finger of Prolyl Hydroxylase Domain Protein 2 Is Essential for Efficient Hydroxylation of Hypoxia-Inducible Factor \square <i>Molecular and Cellular Biology</i> , 2016 , 36, 2328-43	4.8	10
17	Loss-of-function zinc finger mutation in the gene associated with erythrocytosis. <i>Blood</i> , 2018 , 132, 1455-1458	14.58	10
16	Analysis of HIF-1a and its regulator, PHD2, in retroperitoneal sarcomas: clinico-pathologic implications. <i>Cancer Biology and Therapy</i> , 2010 , 9, 303-11	4.6	10
15	Loss of Phd2 cooperates with BRAF to drive melanomagenesis. <i>Nature Communications</i> , 2018 , 9, 5426	17.4	8
14	Novel Homozygous Mutation of the Internal Translation Initiation Start Site of VHL is Exclusively Associated with Erythrocytosis: Indications for Distinct Functional Roles of von Hippel-Lindau Tumor Suppressor Isoforms. <i>Human Mutation</i> , 2015 , 36, 1039-42	4.7	7
13	Subdomain VIII is a specificity-determining region in MEKK1. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48498-505	5.4	7
12	Mutations in protein kinase subdomain X differentially affect MEKK2 and MEKK1 activity. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 303, 532-40	3.4	7

11	Identification of Small-Molecule PHD2 Zinc Finger Inhibitors that Activate Hypoxia Inducible Factor. <i>ChemBioChem</i> , 2016 , 17, 2316-2323	3.8	5
10	Substrates of PHD. <i>Cell Metabolism</i> , 2019 , 30, 626-627	24.6	5
9	At the crossroads of oxygen and iron sensing: hepcidin control of HIF-2. <i>Journal of Clinical Investigation</i> , 2019 , 129, 72-74	15.9	3
8	High-altitude deer mouse hypoxia-inducible factor-2 shows defective interaction with CREB-binding protein. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100461	5.4	3
7	gain-of-function mutation modulates the stiffness of smooth muscle cells and compromises vascular mechanics. <i>IScience</i> , 2021 , 24, 102246	6.1	2
6	Erythrocytosis Caused by Mutations in the PHD2 and VHL Genes.. <i>Blood</i> , 2007 , 110, 3663-3663	2.2	1
5	HIF-2alpha Associated Familial Erythrocytosis Supports the PHD2-HIF- 2alpha-VHL Axis as the Major Regulator of Erythropoietin Production. <i>Blood</i> , 2008 , 112, 481-481	2.2	1
4	An Erythrocytosis-Associated Mutation in the Zinc Finger of PHD2 Provides Insights into Its Binding of p23. <i>Hypoxia (Auckland, N Z)</i> , 2019 , 7, 81-86	2.1	0
3	Activation of Nuclear Factor- B 2001 , 203-227		
2	A Novel HIFalpha Mutation Associated with Familial Erythrocytosis Supports This Isoform Being the Major Regulator of Erythropoietin in Humans.. <i>Blood</i> , 2007 , 110, LB5-LB5	2.2	
1	Reply to Liu et al.: The Andean adaptive allele could be a loss of function variant that increases HIF1- in skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29286-29287	11.5	