

Jane-Jane Chen

List of Publications by Year in descending order

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52
papers

4,308
citations

126907

33
h-index

189892

50
g-index

58
all docs

58
docs citations

58
times ranked

4728
citing authors

#	ARTICLE	IF	CITATIONS
1	Heme-regulated Inhibitor Kinase-mediated Phosphorylation of Eukaryotic Translation Initiation Factor 2 Inhibits Translation, Induces Stress Granule Formation, and Mediates Survival upon Arsenite Exposure. <i>Journal of Biological Chemistry</i> , 2005, 280, 16925-16933.	3.4	362
2	Regulation of protein synthesis by heme-regulated eIF-2 $\hat{\pm}$ kinase. <i>Trends in Biochemical Sciences</i> , 1995, 20, 105-108.	7.5	298
3	Translation Initiation Control by Heme-Regulated Eukaryotic Initiation Factor 2 $\hat{\pm}$ Kinase in Erythroid Cells under Cytoplasmic Stresses. <i>Molecular and Cellular Biology</i> , 2001, 21, 7971-7980.	2.3	282
4	Regulation of protein synthesis by the heme-regulated eIF2 $\hat{\pm}$ kinase: relevance to anemias. <i>Blood</i> , 2007, 109, 2693-2699.	1.4	269
5	Ppp1r15 gene knockout reveals an essential role for translation initiation factor 2 alpha (eIF2 $\hat{\pm}$) dephosphorylation in mammalian development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1832-1837.	7.1	230
6	Graphene Oxide Induces Toll-like Receptor 4 (TLR4)-Dependent Necrosis in Macrophages. <i>ACS Nano</i> , 2013, 7, 5732-5745.	14.6	229
7	Eukaryotic Translation Initiation Factor 4E Regulates Expression of Cyclin D1 at Transcriptional and Post-transcriptional Levels. <i>Journal of Biological Chemistry</i> , 1995, 270, 21176-21180.	3.4	226
8	Brain ischemia and reperfusion activates the eukaryotic initiation factor 2 $\hat{\pm}$ kinase, PERK. <i>Journal of Neurochemistry</i> , 2001, 77, 1418-1421.	3.9	209
9	Upregulation of protein synthesis initiation factor eIF-4E is an early event during colon carcinogenesis. <i>Oncogene</i> , 1999, 18, 2507-2517.	5.9	168
10	The cellular location of dihydroorotate dehydrogenase: Relation to de novo biosynthesis of pyrimidines. <i>Archives of Biochemistry and Biophysics</i> , 1976, 176, 82-90.	3.0	137
11	Heme-regulated eIF2 $\hat{\pm}$ kinase activated Atf4 signaling pathway in oxidative stress and erythropoiesis. <i>Blood</i> , 2012, 119, 5276-5284.	1.4	137
12	Expression of the Eukaryotic Translation Initiation Factors 4E and 2 $\hat{\pm}$ in Non-Hodgkin's Lymphomas. <i>American Journal of Pathology</i> , 1999, 155, 247-255.	3.8	132
13	Hemin enhances the differentiation of mouse 3T3 cells to adipocytes. <i>Cell</i> , 1981, 26, 117-122.	28.9	116
14	Two Heme-binding Domains of Heme-regulated Eukaryotic Initiation Factor-2 $\hat{\pm}$ Kinase. <i>Journal of Biological Chemistry</i> , 2000, 275, 5171-5178.	3.4	92
15	Heme-regulated eIF2 $\hat{\pm}$ kinase modifies the phenotypic severity of murine models of erythropoietic protoporphyria and $\hat{\beta}$ -thalassemia. <i>Journal of Clinical Investigation</i> , 2005, 115, 1562-1570.	8.2	89
16	The heme-regulated inhibitor is a cytosolic sensor of protein misfolding that controls innate immune signaling. <i>Science</i> , 2019, 365, .	12.6	81
17	The function of heme-regulated eIF2 $\hat{\pm}$ kinase in murine iron homeostasis and macrophage maturation. <i>Journal of Clinical Investigation</i> , 2007, 117, 3296-3305.	8.2	81
18	Hsp90 Regulates p50 Function during the Biogenesis of the Active Conformation of the Heme-regulated eIF2 $\hat{\pm}$ Kinase. <i>Journal of Biological Chemistry</i> , 2001, 276, 206-214.	3.4	79

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19	Translational control by heme-regulated eIF2 α kinase during erythropoiesis. <i>Current Opinion in Hematology</i> , 2014, 21, 172-178.	2.5	75
20	Hsp90 Is Obligatory for the Heme-regulated eIF-2 α Kinase to Acquire and Maintain an Activable Conformation. <i>Journal of Biological Chemistry</i> , 1997, 272, 11648-11656.	3.4	74
21	Control of human hemoglobin switching by LIN28B-mediated regulation of BCL11A translation. <i>Nature Genetics</i> , 2020, 52, 138-145.	21.4	73
22	Phosphorylation of Eukaryotic Initiation Factor 2 by Heme-Regulated Inhibitor Kinase-Related Protein Kinases in <i>Schizosaccharomyces pombe</i> Is Important for Resistance to Environmental Stresses. <i>Molecular and Cellular Biology</i> , 2002, 22, 7134-7146.	2.3	71
23	ATF4 Regulates CD4+ T Cell Immune Responses through Metabolic Reprogramming. <i>Cell Reports</i> , 2018, 23, 1754-1766.	6.4	69
24	Heme-regulated eIF-2 α kinase purifies as a hemoprotein. <i>FEBS Journal</i> , 1998, 258, 820-830.	0.2	65
25	Heme-regulated eIF2 α kinase in erythropoiesis and hemoglobinopathies. <i>Blood</i> , 2019, 134, 1697-1707.	1.4	60
26	HRI coordinates translation by eIF2 α P and mTORC1 to mitigate ineffective erythropoiesis in mice during iron deficiency. <i>Blood</i> , 2018, 131, 450-461.	1.4	55
27	Multiple Autophosphorylation Is Essential for the Formation of the Active and Stable Homodimer of Heme-Regulated eIF2 α Kinase. <i>Biochemistry</i> , 2001, 40, 11543-11551.	2.5	51
28	HRI coordinates translation necessary for protein homeostasis and mitochondrial function in erythropoiesis. <i>ELife</i> , 2019, 8, .	6.0	47
29	Regulation of globin-heme balance in Diamond-Blackfan anemia by HSP70/GATA1. <i>Blood</i> , 2019, 133, 1358-1370.	1.4	44
30	miR-214 protects erythroid cells against oxidative stress by targeting ATF4 and EZH2. <i>Free Radical Biology and Medicine</i> , 2016, 92, 39-49.	2.9	43
31	Haem-regulated eIF2 α kinase is necessary for adaptive gene expression in erythroid precursors under the stress of iron deficiency. <i>British Journal of Haematology</i> , 2008, 143, 129-137.	2.5	42
32	Regulation of hemoglobin synthesis and proliferation of differentiating erythroid cells by heme-regulated eIF-2 α kinase. <i>Blood</i> , 2000, 96, 3241-3248.	1.4	38
33	The Role of the 90-kDa Heat-Shock Protein and its Associated Cohorts in Stabilizing the Heme-Regulated eIF-2 α Kinase in Reticulocyte Lysates during Heat Stress. <i>FEBS Journal</i> , 1997, 246, 461-470.	0.2	35
34	Evidence that Hsc70 negatively modulates the activation of the heme-regulated eIF-2 α kinase in rabbit reticulocyte lysate. <i>FEBS Journal</i> , 1998, 255, 552-562.	0.2	33
35	The N-terminal region of the heme-regulated eIF2 α kinase is an autonomous heme binding domain. <i>FEBS Journal</i> , 2000, 267, 498-506.	0.2	27
36	The eIF2 α kinase HRI triggers the autophagic clearance of cytosolic protein aggregates. <i>Journal of Biological Chemistry</i> , 2021, 296, 100050.	3.4	21

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37	Deficiency of heme-regulated eIF2 $\hat{\pm}$ kinase decreases hepcidin expression and splenic iron in HFE-/- mice. <i>Haematologica</i> , 2008, 93, 753-756.	3.5	20
38	Bitopertin, a selective oral GLYT1 inhibitor, improves anemia in a mouse model of $\hat{\beta}$ -thalassemia. <i>JCI Insight</i> , 2019, 4, .	5.0	19
39	RNA and protein synthesis in cultured human fibroblasts derived from donors of various ages. <i>Mechanisms of Ageing and Development</i> , 1980, 13, 285-295.	4.6	18
40	EpoR stimulates rapid cycling and larger red cells during mouse and human erythropoiesis. <i>Nature Communications</i> , 2021, 12, 7334.	12.8	18
41	Effect of Interferon on Protein Translation during Growth Stages of 3T3 Cells. <i>Archives of Biochemistry and Biophysics</i> , 1996, 326, 290-297.	3.0	15
42	Microdosimetric and Biological Effects of Photon Irradiation at Different Energies in Bone Marrow. <i>Radiation Research</i> , 2015, 184, 378-391.	1.5	12
43	Heme-Regulated eIF2 $\hat{\pm}$ Kinase Coordinates Translational Repression of eIF2 $\hat{\pm}$ P and mTORC1 Signaling during Iron Deficiency to Mitigate Ineffective Erythropoiesis. <i>Blood</i> , 2016, 128, 1037-1037.	1.4	11
44	Requirement of activating transcription factor 5 for murine fetal liver erythropoiesis. <i>British Journal of Haematology</i> , 2020, 188, 582-585.	2.5	7
45	Translational control by heme-regulated eIF2 $\hat{\pm}$ kinase during erythropoiesis. <i>Current Opinion in Hematology</i> , 2022, 29, 103-111.	2.5	6
46	The Effects of Pyrroloquinoline Quinone on Heme-Regulated eIF-2 $\hat{\pm}$ Kinase and eIF-2B Activities in Eukaryotic Protein Synthesis. <i>Blood Cells, Molecules, and Diseases</i> , 1997, 23, 177-187.	1.4	5
47	Oxidative Stress Signaling Pathway of Heme Regulated eIF2 $\hat{\pm}$ Kinase in mitigating the Severity of $\hat{\beta}$ -Thalassemia. <i>Blood</i> , 2008, 112, 127-127.	1.4	4
48	Targeting elevated heme levels to treat a mouse model for Diamond-Blackfan Anemia. <i>Experimental Hematology</i> , 2021, , .	0.4	3
49	HRI stress signaling and HbF production. <i>Blood</i> , 2020, 135, 2113-2114.	1.4	1
50	HRI Protects Erythroid Precursors in Iron Deficiency and in $\hat{\beta}$ -Thalassemia by Maintaining GATA-1 and Fog-1 Expressions.. <i>Blood</i> , 2006, 108, 266-266.	1.4	0
51	HEME-REGULATED eIF2 $\hat{\pm}$ KINASE IN TRANSLATION AND ERYTHROPOIESIS. , 2011, , 55-84.		0
52	Heme-Regulated eIF2 $\hat{\pm}$ Kinase in Erythropoiesis and Oxidative Stress. <i>Blood</i> , 2011, 118, SCI-23-SCI-23.	1.4	0