

Xuemin Wang

List of Publications by Year in descending order

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62
papers

4,812
citations

126907

33
h-index

118850

62
g-index

64
all docs

64
docs citations

64
times ranked

6589
citing authors

#	ARTICLE	IF	CITATIONS
1	The mTOR Pathway in the Control of Protein Synthesis. <i>Physiology</i> , 2006, 21, 362-369.	3.1	549
2	Amino acid availability regulates p70 S6 kinase and multiple translation factors. <i>Biochemical Journal</i> , 1998, 334, 261-267.	3.7	322
3	The kinase DYRK phosphorylates protein-synthesis initiation factor eIF2B ϵ at Ser539 and the microtubule-associated protein tau at Thr212: potential role for DYRK as a glycogen synthase kinase 3-priming kinase. <i>Biochemical Journal</i> , 2001, 355, 609-615.	3.7	299
4	The Phosphorylation of Eukaryotic Initiation Factor eIF4E in Response to Phorbol Esters, Cell Stresses, and Cytokines Is Mediated by Distinct MAP Kinase Pathways. <i>Journal of Biological Chemistry</i> , 1998, 273, 9373-9377.	3.4	277
5	mTOR inhibitors in cancer therapy. <i>F1000Research</i> , 2016, 5, 2078.	1.6	228
6	Distinct Signaling Events Downstream of mTOR Cooperate To Mediate the Effects of Amino Acids and Insulin on Initiation Factor 4E-Binding Proteins. <i>Molecular and Cellular Biology</i> , 2005, 25, 2558-2572.	2.3	194
7	Nutrient control of TORC1, a cell-cycle regulator. <i>Trends in Cell Biology</i> , 2009, 19, 260-267.	7.9	186
8	Cellular stresses profoundly inhibit protein synthesis and modulate the states of phosphorylation of multiple translation factors. <i>FEBS Journal</i> , 2002, 269, 3076-3085.	0.2	149
9	Eukaryotic elongation factor 2 kinase, an unusual enzyme with multiple roles. <i>Advances in Biological Regulation</i> , 2014, 55, 15-27.	2.3	149
10	Re-evaluating the Roles of Proposed Modulators of Mammalian Target of Rapamycin Complex 1 (mTORC1) Signaling. <i>Journal of Biological Chemistry</i> , 2008, 283, 30482-30492.	3.4	132
11	ABC50 Interacts with Eukaryotic Initiation Factor 2 and Associates with the Ribosome in an ATP-dependent Manner. <i>Journal of Biological Chemistry</i> , 2000, 275, 34131-34139.	3.4	124
12	Target of Rapamycin (TOR)-signaling and RAIP Motifs Play Distinct Roles in the Mammalian TOR-dependent Phosphorylation of Initiation Factor 4E-binding Protein 1. <i>Journal of Biological Chemistry</i> , 2003, 278, 40717-40722.	3.4	116
13	mTORC1 signaling: what we still don't know. <i>Journal of Molecular Cell Biology</i> , 2011, 3, 206-220.	3.3	114
14	Mutations Linked to Leukoencephalopathy with Vanishing White Matter Impair the Function of the Eukaryotic Initiation Factor 2B Complex in Diverse Ways. <i>Molecular and Cellular Biology</i> , 2004, 24, 3295-3306.	2.3	113
15	Activation of mRNA translation in rat cardiac myocytes by insulin involves multiple rapamycin-sensitive steps. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H1056-H1068.	3.2	103
16	The C Terminus of Initiation Factor 4E-Binding Protein 1 Contains Multiple Regulatory Features That Influence Its Function and Phosphorylation. <i>Molecular and Cellular Biology</i> , 2003, 23, 1546-1557.	2.3	100
17	Activation of translation initiation factor eIF2B by insulin requires phosphatidylinositol 3-kinase. <i>FEBS Letters</i> , 1997, 410, 418-422.	2.8	93
18	ABC50 Promotes Translation Initiation in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 24061-24073.	3.4	91

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19	Eukaryotic Elongation Factor 2 Kinase Activity Is Controlled by Multiple Inputs from Oncogenic Signaling. <i>Molecular and Cellular Biology</i> , 2014, 34, 4088-4103.	2.3	84
20	Nutrients differentially regulate multiple translation factors and their control by insulin. <i>Biochemical Journal</i> , 1999, 344, 433-441.	3.7	74
21	Heat Shock Increases the Association of Binding Protein-1 with Initiation Factor 4E. <i>Journal of Biological Chemistry</i> , 1997, 272, 32779-32784.	3.4	69
22	Severity of vanishing white matter disease does not correlate with deficits in eIF2B activity or the integrity of eIF2B complexes. <i>Human Mutation</i> , 2011, 32, 1036-1045.	2.5	68
23	Elongation Factor 2 Kinase Is Regulated by Proline Hydroxylation and Protects Cells during Hypoxia. <i>Molecular and Cellular Biology</i> , 2015, 35, 1788-1804.	2.3	62
24	Impaired associative taste learning and abnormal brain activation in kinase-defective eEF2K mice. <i>Learning and Memory</i> , 2012, 19, 116-125.	1.3	61
25	Regulation of the Elongation Phase of Protein Synthesis Enhances Translation Accuracy and Modulates Lifespan. <i>Current Biology</i> , 2019, 29, 737-749.e5.	3.9	60
26	A Novel Mechanism for the Control of Translation Initiation by Amino Acids, Mediated by Phosphorylation of Eukaryotic Initiation Factor 2B. <i>Molecular and Cellular Biology</i> , 2008, 28, 1429-1442.	2.3	52
27	ANG II activates effectors of mTOR via PI3-K signaling in human coronary smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H1232-H1238.	3.2	51
28	p70 S6 Kinase Is Activated by Sodium Arsenite in Adult Rat Cardiomyocytes: Roles for Phosphatidylinositol 3-Kinase and p38 MAP Kinase. <i>Biochemical and Biophysical Research Communications</i> , 1997, 238, 207-212.	2.1	49
29	Identification of autophosphorylation sites in eukaryotic elongation factor-2 kinase. <i>Biochemical Journal</i> , 2012, 442, 681-692.	3.7	49
30	Eukaryotic Elongation Factor 2 Kinase (eEF2K) in Cancer. <i>Cancers</i> , 2017, 9, 162.	3.7	49
31	Evidence that the dephosphorylation of Ser535 in the α -subunit of eukaryotic initiation factor (eIF) 2B is insufficient for the activation of eIF2B by insulin. <i>Biochemical Journal</i> , 2002, 367, 475-481.	3.7	43
32	Eukaryotic elongation factor 2 kinase regulates the synthesis of microtubule-related proteins in neurons. <i>Journal of Neurochemistry</i> , 2016, 136, 276-284.	3.9	42
33	Elongation factor 2 kinase promotes cell survival by inhibiting protein synthesis without inducing autophagy. <i>Cellular Signalling</i> , 2016, 28, 284-293.	3.6	36
34	Methods for Studying Signal-Dependent Regulation of Translation Factor Activity. <i>Methods in Enzymology</i> , 2007, 431, 113-142.	1.0	33
35	Glucose exerts a permissive effect on the regulation of the initiation factor 4E binding protein 4E-BP1. <i>Biochemical Journal</i> , 2001, 358, 497-503.	3.7	32
36	Adult-onset leukoencephalopathies with vanishing white matter with novel missense mutations in EIF2B2, EIF2B3, and EIF2B5. <i>Neurogenetics</i> , 2011, 12, 259-261.	1.4	32

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37	Eukaryotic elongation factor 2 kinase upregulates the expression of proteins implicated in cell migration and cancer cell metastasis. <i>International Journal of Cancer</i> , 2018, 142, 1865-1877.	5.1	32
38	Glucose exerts a permissive effect on the regulation of the initiation factor 4E binding protein 4E-BP1. <i>Biochemical Journal</i> , 2001, 358, 497.	3.7	31
39	A novel role for CRTC2 in hepatic cholesterol synthesis through SREBP α 2. <i>Hepatology</i> , 2017, 66, 481-497.	7.3	31
40	The composition of the gut microbiota following early-life antibiotic exposure affects host health and longevity in later life. <i>Cell Reports</i> , 2021, 36, 109564.	6.4	31
41	Who does TORC2 talk to?. <i>Biochemical Journal</i> , 2018, 475, 1721-1738.	3.7	29
42	Design, synthesis and activity of Mnk1 and Mnk2 selective inhibitors containing thieno[2,3-d]pyrimidine scaffold. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 735-751.	5.5	28
43	Progress in developing MNK inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021, 219, 113420.	5.5	28
44	Glycine restores the anabolic response to leucine in a mouse model of acute inflammation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E970-E981.	3.5	26
45	eEF2K enhances expression of PD-L1 by promoting the translation of its mRNA. <i>Biochemical Journal</i> , 2020, 477, 4367-4381.	3.7	25
46	Nutrients differentially regulate multiple translation factors and their control by insulin. <i>Biochemical Journal</i> , 1999, 344, 433.	3.7	24
47	Rheb activates protein synthesis and growth in adult rat ventricular cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2008, 45, 812-820.	1.9	24
48	Identification of Residues That Underpin Interactions within the Eukaryotic Initiation Factor (eIF2) 2B Complex. <i>Journal of Biological Chemistry</i> , 2012, 287, 8263-8274.	3.4	23
49	The eEF2 kinase-induced STAT3 inactivation inhibits lung cancer cell proliferation by phosphorylation of PKM2. <i>Cell Communication and Signaling</i> , 2020, 18, 25.	6.5	23
50	mTORC2 is a tyrosine kinase. <i>Cell Research</i> , 2016, 26, 1-2.	12.0	21
51	Blocking eukaryotic initiation factor 4F complex formation does not inhibit the mTORC1-dependent activation of protein synthesis in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H505-H514.	3.2	19
52	Regulated stability of eukaryotic elongation factor 2 kinase requires intrinsic but not ongoing activity. <i>Biochemical Journal</i> , 2015, 467, 321-331.	3.7	18
53	Disabling MNK protein kinases promotes oxidative metabolism and protects against diet-induced obesity. <i>Molecular Metabolism</i> , 2020, 42, 101054.	6.5	18
54	Functional analysis of recently identified mutations in eukaryotic translation initiation factor 2B β (eIF2B β) identified in Chinese patients with vanishing white matter disease. <i>Journal of Human Genetics</i> , 2011, 56, 300-305.	2.3	17

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55	Evaluation of mTOR-Regulated mRNA Translation. <i>Methods in Molecular Biology</i> , 2012, 821, 171-185.	0.9	17
56	Oncogenic MNK signalling regulates the metastasis suppressor NDRG1. <i>Oncotarget</i> , 2017, 8, 46121-46135.	1.8	17
57	Reciprocal signaling between mTORC1 and MNK2 controls cell growth and oncogenesis. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 249-270.	5.4	14
58	The prohibitin-binding compound fluorizoline affects multiple components of the translational machinery and inhibits protein synthesis. <i>Journal of Biological Chemistry</i> , 2020, 295, 9855-9867.	3.4	9
59	Non-high-density lipoprotein cholesterol is more informative than traditional cholesterol indices in predicting diabetes risk for women with normal glucose tolerance. <i>Journal of Diabetes Investigation</i> , 2018, 9, 1304-1311.	2.4	7
60	The role of eIF2 phosphorylation in cell and organismal physiology: new roles for well-known actors. <i>Biochemical Journal</i> , 2022, 479, 1059-1082.	3.7	7
61	Role of Eukaryotic Initiation Factor eIF2B in Vanishing White Matter Disease. , 0, , 595-618.		1
62	Elongation factor eEF2 kinase and autophagy jointly promote survival of cancer cells. <i>Biochemical Journal</i> , 2021, 478, 1547-1569.	3.7	1