

Liya Wang

List of Publications by Year in descending order

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52
papers

1,981
citations

331538

21
h-index

254106

43
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54
all docs

54
docs citations

54
times ranked

2578
citing authors

#	ARTICLE	IF	CITATIONS
1	mTORC1 Regulates Mitochondrial Integrated Stress Response and Mitochondrial Myopathy Progression. <i>Cell Metabolism</i> , 2017, 26, 419-428.e5.	7.2	291
2	Mitochondrial DNA Replication Defects Disturb Cellular dNTP Pools and Remodel One-Carbon Metabolism. <i>Cell Metabolism</i> , 2016, 23, 635-648.	7.2	222
3	Fibroblast Growth Factor 21 Drives Dynamics of Local and Systemic Stress Responses in Mitochondrial Myopathy with mtDNA Deletions. <i>Cell Metabolism</i> , 2019, 30, 1040-1054.e7.	7.2	166
4	Human thymidine kinase 2: molecular cloning and characterisation of the enzyme activity with antiviral and cytostatic nucleoside substrates. <i>FEBS Letters</i> , 1999, 443, 170-174.	1.3	138
5	Structures of thymidine kinase 1 of human and mycoplasmic origin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17970-17975.	3.3	107
6	Thymidine kinase 2 mutations in autosomal recessive progressive external ophthalmoplegia with multiple mitochondrial DNA deletions. <i>Human Molecular Genetics</i> , 2012, 21, 66-75.	1.4	91
7	Mitochondrial purine and pyrimidine metabolism and beyond. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016, 35, 578-594.	0.4	71
8	Kinetic Properties of Mutant Human Thymidine Kinase 2 Suggest a Mechanism for Mitochondrial DNA Depletion Myopathy. <i>Journal of Biological Chemistry</i> , 2003, 278, 6963-6968.	1.6	69
9	Molecular insight into mitochondrial DNA depletion syndrome in two patients with novel mutations in the deoxyguanosine kinase and thymidine kinase 2 genes. <i>Molecular Genetics and Metabolism</i> , 2005, 84, 75-82.	0.5	69
10	MPV17 Loss Causes Deoxynucleotide Insufficiency and Slow DNA Replication in Mitochondria. <i>PLoS Genetics</i> , 2016, 12, e1005779.	1.5	67
11	Cloning and expression of human mitochondrial deoxyguanosine kinase cDNA. <i>FEBS Letters</i> , 1996, 390, 39-43.	1.3	61
12	Defects in mtDNA replication challenge nuclear genome stability through nucleotide depletion and provide a unifying mechanism for mouse progerias. <i>Nature Metabolism</i> , 2019, 1, 958-965.	5.1	57
13	Cloning and characterization of full-length mouse thymidine kinase 2: the N-terminal sequence directs import of the precursor protein into mitochondria. <i>Biochemical Journal</i> , 2000, 351, 469-476.	1.7	53
14	Novel deoxynucleoside-phosphorylating enzymes in mycoplasmas: evidence for efficient utilization of deoxynucleosides. <i>Molecular Microbiology</i> , 2001, 42, 1065-1073.	1.2	43
15	Multiplex cytokine analyses in dogs with pyometra suggest involvement of KC-like chemokine in canine bacterial sepsis. <i>Veterinary Immunology and Immunopathology</i> , 2016, 170, 41-46.	0.5	40
16	Molecular characterization of thymidine kinase from <i>Ureaplasma urealyticum</i> : nucleoside analogues as potent inhibitors of mycoplasma growth. <i>Molecular Microbiology</i> , 2003, 50, 771-780.	1.2	36
17	Oxidative Stress Induced S-glutathionylation and Proteolytic Degradation of Mitochondrial Thymidine Kinase 2. <i>Journal of Biological Chemistry</i> , 2012, 287, 24304-24312.	1.6	35
18	Substrate Specificities, Expression and Primary Sequences of Deoxynucleoside Kinases; Implications for Chemotherapy. <i>Nucleosides & Nucleotides</i> , 1997, 16, 653-659.	0.5	30

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19	Targeted Transgenic Overexpression of Mitochondrial Thymidine Kinase (TK2) Alters Mitochondrial DNA (mtDNA) and Mitochondrial Polypeptide Abundance. <i>American Journal of Pathology</i> , 2007, 170, 865-874.	1.9	29
20	Inhibition of <i>Mycoplasma pneumoniae</i> growth by FDA-approved anticancer and antiviral nucleoside and nucleobase analogs. <i>BMC Microbiology</i> , 2013, 13, 184.	1.3	28
21	Molecular Mechanisms of Mitochondrial DNA Depletion Diseases Caused by Deficiencies in Enzymes in Purine and Pyrimidine Metabolism. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008, 27, 800-808.	0.4	26
22	Zidovudine Induces Downregulation of Mitochondrial Deoxynucleoside Kinases: Implications for Mitochondrial Toxicity of Antiviral Nucleoside Analogs. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 6758-6766.	1.4	22
23	The contribution of mitochondrial thymidylate synthesis in preventing the nuclear genome stress. <i>Nucleic Acids Research</i> , 2014, 42, 4972-4984.	6.5	18
24	The Kinetic Effects on Thymidine Kinase 2 by Enzyme-Bound dTTP May Explain the Mitochondrial Side Effects of Antiviral Thymidine Analogs. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2552-2558.	1.4	17
25	Pan-Pathway Based Interaction Profiling of FDA-Approved Nucleoside and Nucleobase Analogs with Enzymes of the Human Nucleotide Metabolism. <i>PLoS ONE</i> , 2012, 7, e37724.	1.1	17
26	Thymidine Kinase 2 Enzyme Kinetics Elucidate the Mechanism of Thymidine-Induced Mitochondrial DNA Depletion. <i>Biochemistry</i> , 2014, 53, 6142-6150.	1.2	17
27	Down-regulation of mitochondrial thymidine kinase 2 and deoxyguanosine kinase by didanosine: Implication for mitochondrial toxicities of anti-HIV nucleoside analogs. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1021-1026.	1.0	17
28	The role of <i>Ureaplasma</i> nucleoside monophosphate kinases in the synthesis of nucleoside triphosphates. <i>FEBS Journal</i> , 2007, 274, 1983-1990.	2.2	15
29	Mechanisms of substrate selectivity for <i>Bacillus anthracis</i> thymidylate kinase. <i>Protein Science</i> , 2008, 17, 1486-1493.	3.1	15
30	Pathogenic <i>Escherichia coli</i> and lipopolysaccharide enhance the expression of IL-8, CXCL5, and CXCL10 in canine endometrial stromal cells. <i>Theriogenology</i> , 2015, 84, 34-42.	0.9	14
31	DTYMK is essential for genome integrity and neuronal survival. <i>Acta Neuropathologica</i> , 2022, 143, 245-262.	3.9	11
32	Kinetic Mechanism of Deoxyadenosine Kinase from <i>Mycoplasma</i> Determined by Surface Plasmon Resonance Technology. <i>Biochemistry</i> , 2006, 45, 513-522.	1.2	9
33	5-Bromovinyl 2-Deoxyuridine Phosphorylation by Mitochondrial and Cytosolic Thymidine Kinase (TK2) <i>Tj ETQq1 1 0.784314 rgBT /Ov</i> <i>Nucleotides and Nucleic Acids</i> , 2008, 27, 858-862.	0.4	9
34	Structural and functional studies of the human phosphoribosyltransferase domain containing protein 1. <i>FEBS Journal</i> , 2010, 277, 4920-4930.	2.2	8
35	Upregulation of thymidine kinase activity compensates for loss of thymidylate synthase activity in <i>Mycoplasma pneumoniae</i> . <i>Molecular Microbiology</i> , 2010, 77, 1502-1511.	1.2	8
36	Mitochondrial Thymidine Kinase 2 but Not Deoxyguanosine Kinase Is Up-Regulated During the Stationary Growth Phase of Cultured Cells. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014, 33, 282-286.	0.4	7

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37	Quantitative solid-phase assay to measure deoxynucleoside triphosphate pools. <i>Biology Methods and Protocols</i> , 2018, 3, bpy011.	1.0	7
38	<i>Mycoplasma Pneumoniae</i> Thymidine Phosphorylase. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2014, 33, 296-304.	0.4	6
39	Identification of a novel thymidylate kinase activity. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 1359-1368.	0.4	6
40	Basic biochemical characterization of cytosolic enzymes in thymidine nucleotide synthesis in adult rat tissues: implications for tissue specific mitochondrial DNA depletion and deoxynucleoside-based therapy for TK2-deficiency. <i>BMC Molecular and Cell Biology</i> , 2020, 21, 33.	1.0	6
41	Comparison of cellular location and expression of Plakophilin-2 in epidermal cells from nonlesional atopic skin and healthy skin in German shepherd dogs. <i>Veterinary Dermatology</i> , 2017, 28, 377.	0.4	5
42	Feline thymidine kinase 1: molecular characterization and evaluation of its serum form as a diagnostic biomarker. <i>BMC Veterinary Research</i> , 2021, 17, 316.	0.7	4
43	Biochemical Characterizations of Human TMPK Mutations Identified in Patients with Severe Microcephaly: Single Amino Acid Substitutions Impair Dimerization and Abolish Their Catalytic Activity. <i>ACS Omega</i> , 2021, 6, 33943-33952.	1.6	4
44	Reply to: Proofreading deficiency in mitochondrial DNA polymerase does not affect total dNTP pools in mouse embryos. <i>Nature Metabolism</i> , 2020, 2, 676-677.	5.1	2
45	The expression and activity of thymidine kinase 1 and deoxycytidine kinase are modulated by hydrogen peroxide and nucleoside analogs. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 1347-1358.	0.4	2
46	Structural and functional analysis of human thymidylate kinase isoforms. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2022, , 1-12.	0.4	2
47	Mutational analyses of human thymidine kinase 2 reveal key residues in ATP-Mg ²⁺ binding and catalysis. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2021, , 1-9.	0.4	1
48	Heavy metal tolerance of <i>Mesorhizobium delmotii</i> thymidylate kinase. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2022, 41, 1305-1317.	0.4	1
49	Differential expression of enzymes in thymidylate biosynthesis in zebrafish at different developmental stages: implications for dtymk mutation-caused neurodegenerative disorders. <i>BMC Neuroscience</i> , 2022, 23, 19.	0.8	1
50	Molecular characterization of equine thymidine kinase 1 and preliminary evaluation of its suitability as a serum biomarker for equine lymphoma. <i>BMC Molecular and Cell Biology</i> , 2021, 22, 59.	1.0	1
51	Negative Cooperative Binding of Thymidine, Ordered Substrate Binding, and Product Release of Human Mitochondrial Thymidine Kinase 2 Explain Its Complex Kinetic Properties and Physiological Functions. <i>ACS Omega</i> , 2018, 3, 8971-8979.	1.6	0
52	Whole-Cell and Mitochondrial dNTP Quantification from Cells and Tissues. <i>Methods in Molecular Biology</i> , 2021, 2276, 143-151.	0.4	0