# Li Zhang

List of Publications by Year
in descending order



| 85 | 4,192 | 109311<br>35 | 114455<br>63 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 93 | 93 | 93 | 4890 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sperm, but Not Oocyte, DNA Methylome Is Inherited by Zebrafish Early Embryos. Cell, 2013, 153, 773-784. | 28.9 | 428 |
| 2 | DNA supercoiling promotes formation of a bent repression loop in lac DNA. Journal of Molecular Biology, 1987, 196, 101-111. | 4.2 | 265 |
| 3 | Heme binds to a short sequence that serves a regulatory function in diverse proteins.. EMBO Journal, 1995, 14, 313-320. | 7.8 | 254 |
| 4 | Heme: a versatile signaling molecule controlling the activities of diverse regulators ranging from transcription factors to MAP kinases. Cell Research, 2006, 16, 681-692. | 12.0 | 244 |
| 5 | Molecular mechanism of heme signaling in yeast: the transcriptional activator Hap1 serves as the key mediator. Cellular and Molecular Life Sciences, 1999, 56, 415-426. | 5.4 | 177 |
| 6 | Activation of notchâ€1 enhances epithelialâ€"mesenchymal transition in gefitinibâ€acquired resistant lung cancer cells. Journal of Cellular Biochemistry, 2012, 113, 1501-1513. | 2.6 | 159 |
| 7 | Heme, an Essential Nutrient from Dietary Proteins, Critically Impacts Diverse Physiological and Pathological Processes. Nutrients, 2014, 6, 1080-1102. | 4.1 | 154 |
| 8 | Mitochondria Targeting as an Effective Strategy for Cancer Therapy. International Journal of Molecular Sciences, 2020, 21, 3363. | 4.1 | 131 |
| 9 | Heme binds to a short sequence that serves a regulatory function in diverse proteins. EMBO Journal, 1995, 14, 313-20. | 7.8 | 118 |
| 10 | Gene expression profiling reveals the profound upregulation of hypoxia-responsive genes in primary human astrocytes. Physiological Genomics, 2006, 25, 435-449. | 2.3 | 115 |
| 11 | Molecular Mechanism Governing Heme Signaling in Yeast: a Higher-Order Complex Mediates Heme Regulation of the Transcriptional Activator HAP1. Molecular and Cellular Biology, 1998, 18, 3819-3828. | 2.3 | 106 |
| 12 | Enhanced Heme Function and Mitochondrial Respiration Promote the Progression of Lung Cancer Cells. PLoS ONE, 2013, 8, e63402. | 2.5 | 92 |
| 13 | The yeast activator HAP1--a GAL4 family member--binds DNA in a directly repeated orientation.. Genes and Development, 1994, 8, 2110-2119. | 5.9 | 90 |
| 14 | The Common Insecticides Cyfluthrin and Chlorpyrifos Alter the Expression of a Subset of Genes with Diverse Functions in Primary Human Astrocytes. Toxicological Sciences, 2006, 93, 125-135. | 3.1 | 90 |
| 15 | Structure of a HAP1-DNA complex reveals dramatically asymmetric DNA binding by a homodimeric protein. Nature Structural Biology, 1999, 6, 64-71. | 9.7 | 81 |
| 16 | A Mechanism of Oxygen Sensing in Yeast. Journal of Biological Chemistry, 2003, 278, 50771-50780. | 3.4 | 71 |
| 17 | Self-monitoring and reminder text messages to increase physical activity in colorectal cancer survivors (Smart Pace): a pilot randomized controlled trial. BMC Cancer, 2019, 19, 218. | 2.6 | 66 |
| 18 | A holistic view of cancer bioenergetics: mitochondrial function and respiration play fundamental roles in the development and progression of diverse tumors. Clinical and Translational Medicine, 2016, 5, 3. | 4.0 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | In situ nucleoprotein structure at the SV40 major late promoter: melted and wrapped DNA flank the start site.. Genes and Development, 1989, 3, 1814-1822. | 5.9 | 59 |
| 20 | HAP1 is nuclear but is bound to a cellular factor in the absence of heme.. Journal of Biological Chemistry, 1994, 269, 14643-14647. | 3.4 | 57 |
| 21 | Elevated Heme Synthesis and Uptake Underpin Intensified Oxidative Metabolism and Tumorigenic Functions in Nonâ€"Small Cell Lung Cancer Cells. Cancer Research, 2019, 79, 2511-2525. | 0.9 | 55 |
| 22 | Functional Analysis of Heme Regulatory Elements of the Transcriptional Activator Hap1. Biochemical and Biophysical Research Communications, 2000, 273, 584-591. | 2.1 | 52 |
| 23 | Antibody-promoted dimerization bypasses the regulation of DNA binding by the heme domain of the yeast transcriptional activator HAP1.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 2851-2855. | 7.1 | 50 |
| 24 | The Hsp70-Ydj1 Molecular Chaperone Represses the Activity of the Heme Activator Protein Hap1 in the Absence of Heme. Molecular and Cellular Biology, 2001, 21, 7923-7932. | 2.3 | 50 |
| 25 | Cyclopamine tartrate, an inhibitor of Hedgehog signaling, strongly interferes with mitochondrial function and suppresses aerobic respiration in lung cancer cells. BMC Cancer, 2016, 16, 150. | 2.6 | 49 |
| 26 | The nuclear localization of SWI/SNF proteins is subjected to oxygen regulation. Cell and Bioscience, 2012, 2, 30. | 4.8 | 48 |
| 27 | A Novel Mode of Chaperone Action. Journal of Biological Chemistry, 2004, 279, 27607-27612. | 3.4 | 43 |
| 28 | Evidence that TUP1/SSN6 has a positive effect on the activity of the yeast activator HAP1.. Genetics, 1994, 136, 813-817. | 2.9 | 43 |
| 29 | Heme controls the regulation of protein tyrosine kinases Jak2 and Src. Biochemical and Biophysical Research Communications, 2010, 403, 30-35. | 2.1 | 42 |
| 30 | The C6 zinc cluster dictates asymmetric binding by HAP1.. EMBO Journal, 1996, 15, 4676-4681. | 7.8 | 41 |
| 31 | Heme controls the expression of cell cycle regulators and cell growth in HeLa cells. Biochemical and Biophysical Research Communications, 2004, 315, 546-554. | 2.1 | 41 |
| 32 | A Predictive Model of the Oxygen and Heme Regulatory Network in Yeast. PLoS Computational Biology, 2008, 4, e1000224. | 3.2 | 40 |
| 33 | HAP1 is nuclear but is bound to a cellular factor in the absence of heme. Journal of Biological Chemistry, 1994, 269, 14643-7. | 3.4 | 39 |
| 34 | A New Class of Repression Modules Is Critical for Heme Regulation of the Yeast Transcriptional Activator Hap1. Molecular and Cellular Biology, 1999, 19, 4324-4333. | 2.3 | 37 |
| 35 | The Heme Activator Protein Hap1 Represses Transcription by a Heme-Independent Mechanism in Saccharomyces cerevisiae. Genetics, 2005, 169, 1343-1352. | 2.9 | 37 |
| 36 | Gene expression profiling of human primary astrocytes exposed to manganese chloride indicates selective effects on several functions of the cells. NeuroToxicology, 2007, 28, 478-489. | 3.0 | 37 |

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|---|---|---|---|
| 37 | Structural Environment Dictates the Biological Significance of Heme-Responsive Motifs and the Role of Hsp90 in the Activation of the Heme Activator Protein Hap1. Molecular and Cellular Biology, 2003, 23, 5857-5866. | 2.3 | 35 |
| 38 | Heme deficiency suppresses the expression of key neuronal genes and causes neuronal cell death. Molecular Brain Research, 2005, 137, 23-30. | 2.3 | 33 |
| 39 | The Molecular Chaperone Hsp90 Mediates Heme Activation of the Yeast Transcriptional Activator Hap1. Journal of Biological Chemistry, 2002, 277, 7430-7437. | 3.4 | 32 |
| 40 | Heme deficiency causes apoptosis but does not increase ROS generation in HeLa cells. Biochemical and Biophysical Research Communications, 2004, 319, 1065-1071. | 2.1 | 31 |
| 41 | Essential roles of mitochondrial and heme function in lung cancer bioenergetics and tumorigenesis. Cell and Bioscience, 2018, 8, 56. | 4.8 | 31 |
| 42 | The Yeast Heme-responsive Transcriptional Activator Hap1 Is a Preexisting Dimer in the Absence of Heme. Journal of Biological Chemistry, 1999, 274, 22770-22774. | 3.4 | 29 |
| 43 | Heme Initiates Changes in the Expression of a Wide Array of Genes during the Early Erythroid Differentiation Stage. Biochemical and Biophysical Research Communications, 1999, 258, 87-93. | 2.1 | 29 |
| 44 | An Examination of Heme Action in Gene Expression: Heme and Heme Deficiency Affect the Expression of Diverse Genes in Erythroid K562 and Neuronal PC12 Cells. DNA and Cell Biology, 2002, 21, 333-346. | 1.9 | 29 |
| 45 | Heme deficiency interferes with the Ras-mitogen-activated protein kinase signaling pathway and expression of a subset of neuronal genes. Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research, 2002, 13, 431-9. | 0.8 | 29 |
| 46 | In situnucleoprotein structure involving origin-proximal SV40 DNA control elements. Nucleic Acids Research, 1990, 18, 1797-1803. | 14.5 | 28 |
| 47 | Structure of HAP1-18-DNA implicates direct allosteric effect of protein-DNA interactions on transcriptional activation. Nature Structural Biology, 1999, 6, 22-27. | 9.7 | 26 |
| 48 | The vascular disrupting agent combretastatin A-4 phosphate causes prolonged elevation of proteins involved in heme flux and function in resistant tumor cells. Oncotarget, 2018, 9, 4090-4101. | 1.8 | 26 |
| 49 | Oxygen-Enhanced Optoacoustic Tomography Reveals the Effectiveness of Targeting Heme and Oxidative Phosphorylation at Normalizing Tumor Vascular Oxygenation. Cancer Research, 2020, 80, 3542-3555. | 0.9 | 22 |
| 50 | Hypoxia elicits broad and systematic changes in protein subcellular localization. American Journal of Physiology - Cell Physiology, 2011, 301, C913-C928. | 4.6 | 21 |
| 51 | Micrococcal nuclease as a probe for bound and distorted DNA in lac transcription and repression complexes. Nucleic Acids Research, 1989, 17, 5017-5028. | 14.5 | 20 |
| 52 | Heme promotes transcriptional and demethylase activities of Gis1, a member of the histone demethylase JMJD2/KDM4 family. Nucleic Acids Research, 2018, 46, 215-228. | 14.5 | 20 |
| 53 | Cyclopamine tartrate, a modulator of hedgehog signaling and mitochondrial respiration, effectively arrests lung tumor growth and progression. Scientific Reports, 2019, 9, 1405. | 3.3 | 20 |
| 54 | Rock the nucleus: significantly enhanced nuclear membrane permeability and gene transfection by plasmonic nanobubble induced nanomechanical transduction. Chemical Communications, 2018, 54, 2479-2482. | 4.1 | 19 |

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| 55 | Experimental Methods for Studying Cellular Heme Signaling. Cells, 2018, 7, 47. | 4.1 | 14 |
| 56 | The Coiled Coil Dimerization Element of the Yeast Transcriptional Activator Hap1, a Gal4 Family Member, Is Dispensable for DNA Binding but Differentially Affects Transcriptional Activation. Journal of Biological Chemistry, 2000, 275, 248-254. | 3.4 | 13 |
| 57 | Regulation of the HAP1 gene involves positive actions of histone deacetylases. Biochemical and Biophysical Research Communications, 2007, 362, 120-125. | 2.1 | 13 |
| 58 | Learning Regulatory Programs That Accurately Predict Differential Expression with MEDUSA. Annals of the New York Academy of Sciences, 2007, 1115, 178-202. | 3.8 | 13 |
| 59 | Deletion of a subgroup of ribosome-related genes minimizes hypoxia-induced changes and confers hypoxia tolerance. Physiological Genomics, 2011, 43, 855-872. | 2.3 | 13 |
| 60 | The C6 zinc cluster dictates asymmetric binding by HAP1. EMBO Journal, 1996, 15, 4676-81. | 7.8 | 12 |
| 61 | An Analysis of the Neurological and Molecular Alterations Underlying the Pathogenesis of Alzheimerâ€™s Disease. Cells, 2021, 10, 546. | 4.1 | 11 |
| 62 | An Analysis of the Multifaceted Roles of Heme in the Pathogenesis of Cancer and Related Diseases. Cancers, 2021, 13, 4142. | 3.7 | 10 |
| 63 | A Unique Mechanism of Chaperone Action: Heme Regulation of Hap1 Activity Involves Separate Control of Repression and Activation. Protein and Peptide Letters, 2009, 16, 642-649. | 0.9 | 9 |
| 64 | Measurement of Heme Synthesis Levels in Mammalian Cells. Journal of Visualized Experiments, 2015, , e51579. | 0.3 | 8 |
| 65 | Amyloid Î² perturbs elevated heme flux induced with neuronal development. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2019, 5, 27-37. | 3.7 | 8 |
| 66 | THE VAST POTENTIAL OF HEME IN REGULATING BIOLOGICAL PROCESSES: A Global Perspective. , 2011, , 139-159. | | 7 |
| 67 | Unique Insights into the Actions of CNS Agents: Lessons from Studies of Chlorpyrifos and Other Common Pesticides. Central Nervous System Agents in Medicinal Chemistry, 2007, 7, 183-199. | 1.1 | 6 |
| 68 | Heme Sequestration as an Effective Strategy for the Suppression of Tumor Growth and Progression. Molecular Cancer Therapeutics, 2021, 20, 2506-2518. | 4.1 | 6 |
| 69 | Feasibility and Acceptability of a Physical Activity Tracker and Text Messages to Promote Physical Activity During Chemotherapy for Colorectal Cancer: Pilot Randomized Controlled Trial (Smart Pace) Tj ETQq1 1 0.784314 rgBT /Overlo | 2.8 | 6 |
| 70 | Comparative proteomic analysis reveals characteristic molecular changes accompanying the transformation of nonmalignant to cancer lung cells. EuPA Open Proteomics, 2014, 3, 1-12. | 2.5 | 5 |
| 71 | Elucidating the regulatory mechanism of Swi1 prion in global transcription and stress responses. Scientific Reports, 2020, 10, 21838. | 3.3 | 5 |
| 72 | Heme Sequestration Effectively Suppresses the Development and Progression of Both Lung Adenocarcinoma and Squamous Cell Carcinoma. Molecular Cancer Research, 2022, 20, 139-149. | 3.4 | 5 |

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|---|---|---|---|
| 73 | The Bioenergetic Role of Mitochondria in Lung Cancer. , 2017, , . | | 3 |
| 74 | Processed electroencephalography: impact of patient age and surgical position on intraoperative processed electroencephalogram monitoring of burst-suppression. Journal of Clinical Monitoring and Computing, 2022, 36, 1099-1107. | 1.6 | 3 |
| 75 | SCT Promoter Methylation Is a Highly Discriminative Biomarker for Lung and Many Other Cancers. IEEE Life Sciences Letters, 2015, 1, 30-33. | 1.2 | 2 |
| 76 | Heme, A Metabolic Sensor, Directly Regulates the Activity of the KDM4 Histone Demethylase Family and Their Interactions with Partner Proteins. Cells, 2020, 9, 773. | 4.1 | 2 |
| 77 | THE CHEMICAL AND STRUCTURAL BASES OF HEME RECOGNITION: Binding Interactions of Heme with Proteins and Peptides. , 2011, , 161-196. | | 1 |
| 78 | The Swi3 protein plays a unique role in regulating respiration in eukaryotes. Bioscience Reports, 2016, 36, . | 2.4 | 1 |
| 79 | HEME BIOSYNTHESIS AND DEGRADATION: What Happens when it goes Haywire?. , 2011, , 7-31. | | 1 |
| 80 | HEME: An Ingenious Regulator of Gene Transcription. , 2011, , 33-54. | | 1 |
| 81 | Elevated Mitochondrial and Heme Function as Hallmarks for Non-Small Cell Lung Cancers. Journal of Molecular Biomarkers & Diagnosis, 2016, 07, . | 0.4 | 0 |
| 82 | HEME AND LUNG CANCER. , 2020, , 187-202. | | 0 |
| 83 | THE CHEMICAL AND STRUCTURAL BASES OF HEME RECOGNITION: BINDING INTERACTIONS OF HEME WITH PROTEINS AND PEPTIDES. , 2020, , 203-244. | | 0 |
| 84 | HEME: AN INGENIOUS REGULATOR OF GENE TRANSCRIPTION. , 2020, , 55-79. | | 0 |
| 85 | HEME BIOSYNTHESIS AND DEGRADATION: WHAT HAPPENS WHEN IT GOES HAYWIRE?. , 2020, , 7-31. | | 0 |