Chao Lu

List of Publications by Year in descending order

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81	13,232	53751 45	60583 81
papers	citations	h-index	g-index

84	84	84	22611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Leukemic IDH1 and IDH2 Mutations Result inÂa Hypermethylation Phenotype, Disrupt TET2 Function, and Impair Hematopoietic Differentiation. Cancer Cell, 2010, 18, 553-567.	7.7	2,328
2	IDH mutation impairs histone demethylation and results in a block to cell differentiation. Nature, 2012, 483, 474-478.	13.7	1,693
3	IDH1 mutation is sufficient to establish the glioma hypermethylator phenotype. Nature, 2012, 483, 479-483.	13.7	1,668
4	Metabolic Regulation of Epigenetics. Cell Metabolism, 2012, 16, 9-17.	7.2	568
5	Hypoxia Induces Production of L-2-Hydroxyglutarate. Cell Metabolism, 2015, 22, 304-311.	7.2	374
6	Serine Catabolism Regulates Mitochondrial Redox Control during Hypoxia. Cancer Discovery, 2014, 4, 1406-1417.	7.7	342
7	The histone mark H3K36me2 recruits DNMT3A and shapes the intergenic DNA methylation landscape. Nature, 2019, 573, 281-286.	13.7	338
8	Histone H3K36 mutations promote sarcomagenesis through altered histone methylation landscape. Science, 2016, 352, 844-849.	6.0	327
9	The hexosamine biosynthetic pathway couples growth factor-induced glutamine uptake to glucose metabolism. Genes and Development, 2010, 24, 2784-2799.	2.7	315
10	Ammonia-induced autophagy is independent of ULK1/ULK2 kinases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11121-11126.	3.3	311
11	Therapeutic targets in cancer cell metabolism and autophagy. Nature Biotechnology, 2012, 30, 671-678.	9.4	310
12	Factors influencing success of clinical genome sequencing across a broad spectrum of disorders. Nature Genetics, 2015, 47, 717-726.	9.4	310
13	DNA Hydroxymethylation Profiling Reveals that WT1 Mutations Result in Loss of TET2 Function in Acute Myeloid Leukemia. Cell Reports, 2014, 9, 1841-1855.	2.9	237
14	Bad bones, absent smell, selfish testes: The pleiotropic consequences of human FGF receptor mutations. Cytokine and Growth Factor Reviews, 2005, 16, 187-203.	3.2	223
15	H3K27M induces defective chromatin spread of PRC2-mediated repressive H3K27me2/me3 and is essential for glioma tumorigenesis. Nature Communications, 2019, 10, 1262.	5.8	215
16	Impaired H3K36 methylation defines a subset of head and neck squamous cell carcinomas. Nature Genetics, 2017, 49, 180-185.	9.4	195
17	FGFs, their receptors, and human limb malformations: Clinical and molecular correlations. American Journal of Medical Genetics Part A, 2002, 112, 266-278.	2.4	186
18	Cancer-associated IDH2 mutants drive an acute myeloid leukemia that is susceptible to Brd4 inhibition. Genes and Development, 2013, 27, 1974-1985.	2.7	165

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19	A biallelic mutation in IL6ST encoding the GP130 co-receptor causes immunodeficiency and craniosynostosis. Journal of Experimental Medicine, 2017, 214, 2547-2562.	4.2	158
20	Functional interrogation of DNA damage response variants with base editing screens. Cell, 2021, 184, 1081-1097.e19.	13.5	145
21	Lowered H3K27me3 and DNA hypomethylation define poorly prognostic pediatric posterior fossa ependymomas. Science Translational Medicine, 2016, 8, 366ra161.	5.8	144
22	Clinical genetics of craniosynostosis. Current Opinion in Pediatrics, 2017, 29, 622-628.	1.0	142
23	The Potential for Isocitrate Dehydrogenase Mutations to Produce 2-Hydroxyglutarate Depends on Allele Specificity and Subcellular Compartmentalization. Journal of Biological Chemistry, 2013, 288, 3804-3815.	1.6	141
24	Induction of sarcomas by mutant IDH2. Genes and Development, 2013, 27, 1986-1998.	2.7	135
25	New insights into craniofacial malformations. Human Molecular Genetics, 2015, 24, R50-R59.	1.4	122
26	Targeting p53 for enhanced radio- and chemo-sensitivity. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 597-606.	2.2	116
27	Specific detection of methionine 27 mutation in histone 3 variants (H3K27M) in fixed tissue from high-grade astrocytomas. Acta Neuropathologica, 2014, 128, 733-741.	3.9	116
28	Molecular basis for oncohistone H3 recognition by SETD2 methyltransferase. Genes and Development, 2016, 30, 1611-1616.	2.7	111
29	The interplay between DNA and histone methylation: molecular mechanisms and disease implications. EMBO Reports, 2021, 22, e51803.	2.0	83
30	SWI/SNF complex in cancer. Nature Genetics, 2017, 49, 178-179.	9.4	82
31	Clinical dividends from the molecular genetic diagnosis of craniosynostosisâ€. American Journal of Medical Genetics, Part A, 2007, 143A, 1941-1949.	0.7	75
32	DNMT1 Is Regulated by ATP-Citrate Lyase and Maintains Methylation Patterns during Adipocyte Differentiation. Molecular and Cellular Biology, 2013, 33, 3864-3878.	1.1	75
33	A Recurrent Mosaic Mutation in SMO , Encoding the Hedgehog Signal Transducer Smoothened, Is the Major Cause of Curry-Jones Syndrome. American Journal of Human Genetics, 2016, 98, 1256-1265.	2.6	70
34	Generation of functional lungs via conditional blastocyst complementation using pluripotent stem cells. Nature Medicine, 2019, 25, 1691-1698.	15.2	69
35	Genome analyses of the new model protist Euplotes vannus focusing on genome rearrangement and resistance to environmental stressors. Molecular Ecology Resources, 2019, 19, 1292-1308.	2.2	69
36	Mutations in the BAF-Complex Subunit DPF2 Are Associated with Coffin-Siris Syndrome. American Journal of Human Genetics, 2018, 102, 468-479.	2.6	63

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37	Clinical dividends from the molecular genetic diagnosis of craniosynostosis. American Journal of Medical Genetics, Part A, 2006, 140A, 2631-2639.	0.7	60
38	The Mitochondrial Permeability Transition Regulates Cytochrome c Release for Apoptosis during Endoplasmic Reticulum Stress by Remodeling the Cristae Junction. Journal of Biological Chemistry, 2008, 283, 3476-3486.	1.6	59
39	Two competing mechanisms of DNMT3A recruitment regulate the dynamics of de novo DNA methylation at PRC1-targeted CpG islands. Nature Genetics, 2021, 53, 794-800.	9.4	59
40	Genomic aberrations frequently alter chromatin regulatory genes in chordoma. Genes Chromosomes and Cancer, 2016, 55, 591-600.	1.5	58
41	Histone H3.3 G34 mutations promote aberrant PRC2 activity and drive tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27354-27364.	3.3	57
42	Oncogenic Mechanisms of Histone H3 Mutations. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a026443.	2.9	56
43	Selfish mutations dysregulating RAS-MAPK signaling are pervasive in aged human testes. Genome Research, 2018, 28, 1779-1790.	2.4	56
44	Histone 3 Lysine 9 Trimethylation Is Differentially Associated With Isocitrate Dehydrogenase Mutations in Oligodendrogliomas and High-Grade Astrocytomas. Journal of Neuropathology and Experimental Neurology, 2013, 72, 298-306.	0.9	51
45	Pparg promotes differentiation and regulates mitochondrial gene expression in bladder epithelial cells. Nature Communications, 2019, 10, 4589.	5.8	50
46	Role of calcium and cyclophilin D in the regulation of mitochondrial permeabilization induced by glutathione depletion. Biochemical and Biophysical Research Communications, 2007, 363, 572-577.	1.0	47
47	Resveratrol blocks high glucoseâ€“induced mitochondrial reactive oxygen species production in bovine aortic endothelial cells: role of phase 2 enzyme induction?. Diabetes, Obesity and Metabolism, 2008, 10, 347-349.	2.2	46
48	Chromatin dysregulation associated with NSD1 mutation in head and neck squamous cell carcinoma. Cell Reports, 2021, 34, 108769.	2.9	42
49	De Novo Missense Substitutions in the Gene Encoding CDK8, a Regulator of the Mediator Complex, Cause a Syndromic Developmental Disorder. American Journal of Human Genetics, 2019, 104, 709-720.	2.6	41
50	De Novo and Inherited Loss-of-Function Variants in TLK2: Clinical and Genotype-Phenotype Evaluation of a Distinct Neurodevelopmental Disorder. American Journal of Human Genetics, 2018, 102, 1195-1203.	2.6	37
51	Is Antioxidant Potential of the Mitochondrial Targeted Ubiquinone Derivative MitoQ Conserved in Cells Lacking mtDNA?. Antioxidants and Redox Signaling, 2008, 10, 651-660.	2.5	36
52	Non-genotoxic anti-neoplastic effects of ellipticine derivative NSC176327 in p53-deficient human colon carcinoma cells involve stimulation of p73. Cancer Biology and Therapy, 2008, 7, 2039-2046.	1.5	32
53	Depletion of H3K36me2 recapitulates epigenomic and phenotypic changes induced by the H3.3K36M oncohistone mutation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	31
54	Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. Science Translational Medicine, 2021, 13, eabc0497.	5.8	29

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55	Pparg signaling controls bladder cancer subtype and immune exclusion. Nature Communications, 2021, 12, 6160.	5.8	28
56	Truncated SALL1 Impedes Primary Cilia Function in Townes-Brocks Syndrome. American Journal of Human Genetics, 2018, 102, 249-265.	2.6	27
57	TAOK1 is associated with neurodevelopmental disorder and essential for neuronal maturation and cortical development. Human Mutation, 2021, 42, 445-459.	1.1	26
58	Histone H3.3 K27M and K36M mutations de-repress transposable elements through perturbation of antagonistic chromatin marks. Molecular Cell, 2021, 81, 4876-4890.e7.	4.5	26
59	Symplastic/pseudoanaplastic giant cell tumor of the bone. Skeletal Radiology, 2016, 45, 929-935.	1.2	25
60	Localized TWIST1 and TWIST2 basic domain substitutions cause four distinct human diseases that can be modeled in Caenorhabditis elegans. Human Molecular Genetics, 2017, 26, 2118-2132.	1.4	21
61	Identification of Intragenic Exon Deletions and Duplication ofTCF12by Whole Genome or Targeted Sequencing as a Cause ofTCF12-Related Craniosynostosis. Human Mutation, 2016, 37, 732-736.	1.1	19
62	De Novo SOX6 Variants Cause a Neurodevelopmental Syndrome Associated with ADHD, Craniosynostosis, and Osteochondromas. American Journal of Human Genetics, 2020, 106, 830-845.	2.6	17
63	The INO80 Complex Regulates Epigenetic Inheritance of Heterochromatin. Cell Reports, 2020, 33, 108561.	2.9	17
64	Apparently synonymous substitutions in FGFR2affect splicing and result in mild Crouzon syndrome. BMC Medical Genetics, 2014, 15, 95.	2.1	14
65	Many faces of SMCHD1. Nature Genetics, 2017, 49, 176-178.	9.4	14
66	Enabling Global Clinical Collaborations on Identifiable Patient Data: The Minerva Initiative. Frontiers in Genetics, 2019, 10, 611.	1.1	14
67	Evaluating the performance of a clinical genome sequencing program for diagnosis of rare genetic disease, seen through the lens of craniosynostosis. Genetics in Medicine, 2021, 23, 2360-2368.	1.1	13
68	CHAF1A/B mediate silencing of unintegrated HIV-1 DNAs early in infection. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
69	Recurrent de novo missense variants across multiple histone H4 genes underlie a neurodevelopmental syndrome. American Journal of Human Genetics, 2022, 109, 750-758.	2.6	13
70	Association of mutations in FLNA with craniosynostosis. European Journal of Human Genetics, 2015, 23, 1684-1688.	1.4	10
71	Disruption ofTWIST1translation by 5â€² UTR variants in Saethre-Chotzen syndrome. Human Mutation, 2018, 39, 1360-1365.	1.1	10
72	PIK3CA and p53 Mutations Promote 4NQO-Initated Head and Neck Tumor Progression and Metastasis in Mice. Molecular Cancer Research, 2020, 18, 822-834.	1.5	10

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73	The histone H3K9M mutation synergizes with H3K14 ubiquitylation to selectively sequester histone H3K9 methyltransferase Clr4 at heterochromatin. Cell Reports, 2021, 35, 109137.	2.9	8
74	Oncohistones: Hijacking the Histone Code. Annual Review of Cancer Biology, 2022, 6, 293-312.	2.3	8
75	Feeding, Communication, Hydrocephalus, and Intracranial Hypertension in Patients With Severe FGFR2-Associated Pfeiffer Syndrome. Journal of Craniofacial Surgery, 2021, 32, 134-140.	0.3	7
76	The cAMP signaling pathway regulates Epe1 protein levels and heterochromatin assembly. PLoS Genetics, 2022, 18, e1010049.	1.5	6
77	Chromosome 3p loss of heterozygosity and reduced expression of H3K36me3 correlate with longer relapse-free survival in sacral conventional chordoma. Human Pathology, 2020, 104, 73-83.	1.1	5
78	Growth Inhibition and Induction of Innate Immune Signaling of Chondrosarcomas with Epigenetic Inhibitors. Molecular Cancer Therapeutics, 2021, 20, 2362-2371.	1.9	4
79	Pitfalls in the phylogenomic evaluation of human disease-causing mutations. Journal of Biology, 2009, 8, 26.	2.7	3
80	A custom-designed panel sequencing study in 201 Chinese patients with craniosynostosis revealed novel variants and distinct mutation spectra. Journal of Genetics and Genomics, 2021, 48, 167-171.	1.7	3
81	Decoding the function of an oncogenic transcription factor: finding the first responders. Molecular Cell, 2021, 81, 418-420.	4.5	1