Kathryn S E Cheah

List of Publications by Year
in descending order

78 papers	7,864 citations	87888 38 h-index	74163 75 g-index
86 all docs	86 docs citations	86 times ranked	9047 citing authors

#	Article	IF	Citations
1	SOX9 directly regulates the type-II collagen gene. Nature Genetics, 1997, 16, 174-178.	21.4	847
2	SOX9 Binds DNA, Activates Transcription, and Coexpresses with Type II Collagen during Chondrogenesis in the Mouse. Developmental Biology, 1997, 183, 108-121.	2.0	640
3	Hypertrophic chondrocytes can become osteoblasts and osteocytes in endochondral bone formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12097-12102.	7.1	589
4	Genomic instability in laminopathy-based premature aging. Nature Medicine, 2005, 11, 780-785.	30.7	579
5	Sox2 is required for sensory organ development in the mammalian inner ear. Nature, 2005, 434, 1031-1035.	27.8	485
6	Autosomal dominant and recessive osteochondrodysplasias associated with the COL11A2 locus. Cell, 1995, 80, 431-437.	28.9	390
7	Exhaustion of nucleus pulposus progenitor cells with ageing and degeneration of the intervertebral disc. Nature Communications, 2012, 3, 1264.	12.8	357
8	Requirement forPbx1in skeletal patterning and programming chondrocyte proliferation and differentiation. Development (Cambridge), 2001, 128, 3543-3557.	2.5	266
9	Abnormal Compartmentalization of Cartilage Matrix Components in Mice Lacking Collagen X: Implications for Function. Journal of Cell Biology, 1997, 136, 459-471.	5.2	188
10	Deciphering osteoarthritis genetics across 826,690 individuals from 9 populations. Cell, 2021, 184, 4784-4818.e17.	28.9	188
11	SOX9 Governs Differentiation Stage-Specific Gene Expression in Growth Plate Chondrocytes via Direct Concomitant Transactivation and Repression. PLoS Genetics, 2011, 7, e1002356.	3.5	174
12	Surviving Endoplasmic Reticulum Stress Is Coupled to Altered Chondrocyte Differentiation and Function. PLoS Biology, 2007, 5, e44.	5.6	167
13	Mechanism of Regulatory Target Selection by the SOX High-Mobility-Group Domain Proteins as Revealed by Comparison of SOX1/2/3 and SOX9. Molecular and Cellular Biology, 1999, 19, 107-120.	2.3	165
14	The developmental roles of the extracellular matrix: beyond structure to regulation. Cell and Tissue Research, 2010, 339, 93-110.	2.9	144
15	Association of the Asporin D14 Allele with Lumbar-Disc Degeneration in Asians. American Journal of Human Genetics, 2008, 82, 744-747.	6.2	132
16	Lumbar disc degeneration is linked to a carbohydrate sulfotransferase 3 variant. Journal of Clinical Investigation, 2013, 123, 4909-4917.	8.2	126
17	The TRP2 Allele of COL9A2 is an Age-Dependent Risk Factor for the Development and Severity of Intervertebral Disc Degeneration. Spine, 2005, 30, 2735-2742.	2.0	124
18	Association of the Taq I Allele in Vitamin D Receptor With Degenerative Disc Disease and Disc Bulge in a Chinese Population. Spine, 2006, 31, 1143-1148.	2.0	123

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19	In vivo cellular adaptation to ER stress: survival strategies with double-edged consequences. Journal of Cell Science, 2010, 123, 2145-2154.	2.0	120
20	Tissue-Specific and differential expression of alternatively spliced Î±1(II) collagen mRNAs in early human embryos. Developmental Dynamics, 1995, 203, 198-211.	1.8	94
21	Identification of factors influencing strand bias in oligonucleotide-mediated recombination in Escherichia coli. Nucleic Acids Research, 2003, 31, 6674-6687.	14.5	90
22	Fate of growth plate hypertrophic chondrocytes: Death or lineage extension?. Development Growth and Differentiation, 2015, 57, 179-192.	1.5	90
23	A meta-analysis identifies adolescent idiopathic scoliosis association withLBX1locus in multiple ethnic groups. Journal of Medical Genetics, 2014, 51, 401-406.	3.2	79
24	Histological and reference system for the analysis of mouse intervertebral disc. Journal of Orthopaedic Research, 2018, 36, 233-243.	2.3	72
25	The chondrocytic journey in endochondral bone growth and skeletal dysplasia. Birth Defects Research Part C: Embryo Today Reviews, 2014, 102, 52-73.	3.6	67
26	SOXE transcription factors form selective dimers on non-compact DNA motifs through multifaceted interactions between dimerization and high-mobility group domains. Scientific Reports, 2015, 5, 10398.	3.3	65
27	SNP rs11190870 near LBX1 is associated with adolescent idiopathic scoliosis in southern Chinese. Journal of Human Genetics, 2012, 57, 244-246.	2.3	64
28	Intron-exon structure, alternative use of promoter and expression of the mouse collagen X gene, Col10a-1. FEBS Journal, 1993, 213, 99-111.	0.2	60
29	Quantitative Phase Imaging Flow Cytometry for Ultraâ€Largeâ€Scale Singleâ€Cell Biophysical Phenotyping. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 510-520.	1.5	60
30	Increased efficiency of oligonucleotide-mediated gene repair through slowing replication fork progression. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2508-2513.	7.1	59
31	Inhibiting the integrated stress response pathway prevents aberrant chondrocyte differentiation thereby alleviating chondrodysplasia. ELife, 2018, 7, .	6.0	59
32	Misfolding of Collagen X Chains Harboring Schmid Metaphyseal Chondrodysplasia Mutations Results in Aberrant Disulfide Bond Formation, Intracellular Retention, and Activation of the Unfolded Protein Response. Journal of Biological Chemistry, 2005, 280, 15544-15552.	3.4	58
33	Different cis-Regulatory DNA Elements Mediate Developmental Stage- and Tissue-specific Expression of the Human COL2A1 Gene in Transgenic Mice. Journal of Cell Biology, 1998, 141, 1291-1300.	5.2	56
34	The TATA-containing core promoter of the type II collagen gene (COL2A1) is the target of interferon-gamma-mediated inhibition in human chondrocytes: requirement for Stat1alpha, Jak1 and Jak2. Biochemical Journal, 2003, 369, 103-115.	3.7	56
35	Synergistic co-regulation and competition by a SOX9-GLI-FOXA phasic transcriptional network coordinate chondrocyte differentiation transitions. PLoS Genetics, 2018, 14, e1007346.	3.5	56
36	An externally fixed femoral fracture model for mice. Journal of Orthopaedic Research, 2003, 21, 685-690.	2.3	53

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37	Directed Differentiation of Notochord-like and Nucleus Pulposus-like Cells Using Human Pluripotent Stem Cells. Cell Reports, 2020, 30, 2791-2806.e5.	6.4	48
38	Characterization of the Complete Genomic Structure of the Human WNT-5A Gene, Functional Analysis of its Promoter, Chromosomal Mapping, and Expression in Early Human Embryogenesis. Journal of Biological Chemistry, 1995, 270, 31225-31234.	3.4	46
39	Association between promoter -1607 polymorphism of MMP1 and Lumbar Disc Disease in Southern Chinese. BMC Medical Genetics, 2008, 9, 38.	2.1	44
40	Disrupted expression of matrix genes in the growth plate of the mouse cartilage matrix deficiency (cmd) mutant. , 1998, 22, 349-358.		42
41	Early onset of disc degeneration in SM/J mice is associated with changes in ion transport systems and fibrotic events. Matrix Biology, 2018, 70, 123-139.	3.6	41
42	Deep-learning-assisted biophysical imaging cytometry at massive throughput delineates cell population heterogeneity. Lab on A Chip, 2020, 20, 3696-3708.	6.0	41
43	DIPPER, a spatiotemporal proteomics atlas of human intervertebral discs for exploring ageing and degeneration dynamics. ELife, 2020, 9, .	6.0	37
44	The molecular and cellular basis of exostosis formation in hereditary multiple exostoses. International Journal of Experimental Pathology, 2008, 89, 321-331.	1.3	35
45	Lgr5 and Col22a1 Mark Progenitor Cells in the Lineage toward Juvenile Articular Chondrocytes. Stem Cell Reports, 2019, 13, 713-729.	4.8	35
46	Multiâ€ATOM: Ultrahighâ€throughput singleâ€cell quantitative phase imaging with subcellular resolution. Journal of Biophotonics, 2019, 12, e201800479.	2.3	34
47	Indian hedgehog mutations causing brachydactyly type A1 impair Hedgehog signal transduction at multiple levels. Cell Research, 2011, 21, 1343-1357.	12.0	31
48	Predicting the spatiotemporal dynamics of hair follicle patterns in the developing mouse. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2596-2601.	7.1	31
49	<scp>IRX3</scp> and <scp>IRX5</scp> Inhibit Adipogenic Differentiation of Hypertrophic Chondrocytes and Promote Osteogenesis. Journal of Bone and Mineral Research, 2020, 35, 2444-2457.	2.8	31
50	Influence of digits, ectoderm, and retinoic acid on chondrogenesis by mouse interdigital mesoderm in culture. Developmental Dynamics, 1994, 201, 297-309.	1.8	29
51	Activating the unfolded protein response in osteocytes causes hyperostosis consistent with craniodiaphyseal dysplasia. Human Molecular Genetics, 2017, 26, 4572-4587.	2.9	28
52	Hypertrophic chondrocytes serve as a reservoir for marrow-associated skeletal stem and progenitor cells, osteoblasts, and adipocytes during skeletal development. ELife, 2022, 11, .	6.0	28
53	Circling, Deafness, and Yellow Coat Displayed by Yellow Submarine (Ysb) and Light Coat and Circling (Lcc) Mice with Mutations on Chromosome 3. Genomics, 2002, 79, 777-784.	2.9	26
54	The Human Î±2(XI) Collagen Gene (COL11A2): Completion of Coding Information, Identification of the Promoter Sequence, and Precise Localization within the Major Histocompatibility Complex Reveal Overlap with the KE5 Gene. Genomics, 1996, 32, 401-412.	2.9	25

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55	Loss of procollagen IIA from the anterior mesendoderm disrupts the development of mouse embryonic forebrain. Developmental Dynamics, 2010, 239, 2319-2329.	1.8	22
56	Unique and overlapping GLI1 and GLI2 transcriptional targets in neoplastic chondrocytes. PLoS ONE, 2019, 14, e0211333.	2.5	22
57	Genome-Wide Haplotype Association Mapping in Mice Identifies a Genetic Variant in CER1 Associated With BMD and Fracture in Southern Chinese Women. Journal of Bone and Mineral Research, 2009, 24, 1013-1021.	2.8	21
58	Further evidence that the failure to cleave the aminopropeptide of type I procollagen is the cause of Ehlers-Danlos syndrome type VII. Human Mutation, 1994, 3, 358-364.	2.5	20
59	The extended chondrocyte lineage: implications for skeletal homeostasis and disorders. Current Opinion in Cell Biology, 2019, 61, 132-140.	5.4	20
60	Mechanistic insights into skeletal development gained from genetic disorders. Current Topics in Developmental Biology, 2019, 133, 343-385.	2.2	17
61	SOXE neofunctionalization and elaboration of the neural crest during chordate evolution. Scientific Reports, 2016, 6, 34964.	3.3	16
62	Asymmetric localization of DLC1 defines avian trunk neural crest polarity for directional delamination and migration. Nature Communications, 2017, 8, 1185.	12.8	16
63	Transformation of resident notochordâ€descendent nucleus pulposus cells in mouse injuryâ€induced fibrotic intervertebral discs. Aging Cell, 2020, 19, e13254.	6.7	16
64	4PBA reduces growth deficiency in osteogenesis imperfecta by enhancing transition of hypertrophic chondrocytes to osteoblasts. JCI Insight, 2022, 7, .	5.0	16
65	Extensive Alternative Splicing within the Amino-propeptide Coding Domain of Î±2(XI) Procollagen mRNAs. Journal of Biological Chemistry, 1996, 271, 16945-16951.	3.4	15
66	Label-Free Quantitative Proteomics Reveals Survival Mechanisms Developed by Hypertrophic Chondrocytes under ER Stress. Journal of Proteome Research, 2016, 15, 86-99.	3.7	14
67	Fbxo9 functions downstream of Sox10 to determine neuron-glial fate choice in the dorsal root ganglia through Neurog2 destabilization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4199-4210.	7.1	13
68	PRIMUS: Comprehensive proteomics of mouse intervertebral discs that inform novel biology and relevance to human disease modelling. Matrix Biology Plus, 2021, 12, 100082.	3.5	13
69	Mammary gland-specific secretion of biologically active immunosuppressive agent cytotoxic-T-lymphocyte antigen 4 human immunoglobulin fusion protein (CTLA4Ig) in milk by transgenesis. Journal of Immunological Methods, 2003, 277, 171-183.	1.4	11
70	Utility of HoxB2 enhancerâ€mediated Cre activity for functional studies in the developing inner ear. Genesis, 2009, 47, 361-365.	1.6	10
71	Acquisition of multipotent and migratory neural crest cells in vertebrate evolution. Current Opinion in Genetics and Development, 2019, 57, 84-90.	3.3	7
72	Hedgehog signaling orchestrates cartilage-to-bone transition independently of Smoothened. Matrix Biology, 2022, 110, 76-90.	3.6	5

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73	Chondrocyte antigen expression, immune response and susceptibility to arthritis. International Immunology, 2001, 13, 421-429.	4.0	4
74	Cellular Plasticity in Musculoskeletal Development, Regeneration, and Disease. Journal of Orthopaedic Research, 2020, 38, 708-718.	2.3	4
75	Highly efficient deletion method for the engineering of plasmid DNA with single-stranded oligonucleotides. BioTechniques, 2008, 44, 217-224.	1.8	2
76	Î²1 integrin regulates convergent extension in mouse notogenesis, ensures notochord integrity and the morphogenesis of vertebrae and intervertebral discs. Development (Cambridge), 2020, 147, .	2.5	2
77	Reprogramming of Mouse Calvarial Osteoblasts into Induced Pluripotent Stem Cells. Stem Cells International, 2018, 2018, 1-11.	2.5	0
78	Interplay between Genetic Risk Factors and Protective Mechanisms for Intervertebral Disc Degeneration in Mice. Global Spine Journal, 2015, 5, s-0035-1554500-s-0035-1554500.	2.3	0