# Kathryn S E Cheah

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 4PBA reduces growth deficiency in osteogenesis imperfecta by enhancing transition of hypertrophic chondrocytes to osteoblasts. JCI Insight, 2022, 7, . | 5.0 | 16 |
| 2 | 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 |
| 3 | Hedgehog signaling orchestrates cartilage-to-bone transition independently of Smoothened. Matrix Biology, 2022, 110, 76-90. | 3.6 | 5 |
| 4 | Deciphering osteoarthritis genetics across 826,690 individuals from 9 populations. Cell, 2021, 184, 4784-4818.e17. | 28.9 | 188 |
| 5 | 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 |
| 6 | Cellular Plasticity in Musculoskeletal Development, Regeneration, and Disease. Journal of Orthopaedic Research, 2020, 38, 708-718. | 2.3 | 4 |
| 7 | 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 |
| 8 | Transformation of resident notochordâ€descendent nucleus pulposus cells in mouse injuryâ€induced fibrotic intervertebral discs. Aging Cell, 2020, 19, e13254. | 6.7 | 16 |
| 9 | <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 |
| 10 | Deep-learning-assisted biophysical imaging cytometry at massive throughput delineates cell population heterogeneity. Lab on A Chip, 2020, 20, 3696-3708. | 6.0 | 41 |
| 11 | 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 |
| 12 | 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 |
| 13 | DIPPER, a spatiotemporal proteomics atlas of human intervertebral discs for exploring ageing and degeneration dynamics. ELife, 2020, 9, . | 6.0 | 37 |
| 14 | Acquisition of multipotent and migratory neural crest cells in vertebrate evolution. Current Opinion in Genetics and Development, 2019, 57, 84-90. | 3.3 | 7 |
| 15 | The extended chondrocyte lineage: implications for skeletal homeostasis and disorders. Current Opinion in Cell Biology, 2019, 61, 132-140. | 5.4 | 20 |
| 16 | Lgr5 and Col22a1 Mark Progenitor Cells in the Lineage toward Juvenile Articular Chondrocytes. Stem Cell Reports, 2019, 13, 713-729. | 4.8 | 35 |
| 17 | Unique and overlapping GLI1 and GLI2 transcriptional targets in neoplastic chondrocytes. PLoS ONE, 2019, 14, e0211333. | 2.5 | 22 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Mechanistic insights into skeletal development gained from genetic disorders. Current Topics in Developmental Biology, 2019, 133, 343-385. | 2.2 | 17 |
| 20 | Multiâ€ATOM: Ultrahighâ€throughput singleâ€cell quantitative phase imaging with subcellular resolution. Journal of Biophotonics, 2019, 12, e201800479. | 2.3 | 34 |
| 21 | Histological and reference system for the analysis of mouse intervertebral disc. Journal of Orthopaedic Research, 2018, 36, 233-243. | 2.3 | 72 |
| 22 | 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 |
| 23 | 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 |
| 24 | Reprogramming of Mouse Calvarial Osteoblasts into Induced Pluripotent Stem Cells. Stem Cells International, 2018, 2018, 1-11. | 2.5 | 0 |
| 25 | Inhibiting the integrated stress response pathway prevents aberrant chondrocyte differentiation thereby alleviating chondrodysplasia. ELife, 2018, 7, . | 6.0 | 59 |
| 26 | Asymmetric localization of DLC1 defines avian trunk neural crest polarity for directional delamination and migration. Nature Communications, 2017, 8, 1185. | 12.8 | 16 |
| 27 | Activating the unfolded protein response in osteocytes causes hyperostosis consistent with craniodiaphyseal dysplasia. Human Molecular Genetics, 2017, 26, 4572-4587. | 2.9 | 28 |
| 28 | SOXE neofunctionalization and elaboration of the neural crest during chordate evolution. Scientific Reports, 2016, 6, 34964. | 3.3 | 16 |
| 29 | 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 |
| 30 | 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 |
| 31 | Fate of growth plate hypertrophic chondrocytes: Death or lineage extension?. Development Growth and Differentiation, 2015, 57, 179-192. | 1.5 | 90 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | A meta-analysis identifies adolescent idiopathic scoliosis association withLBX1locus in multiple ethnic groups. Journal of Medical Genetics, 2014, 51, 401-406. | 3.2 | 79 |

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|---|---|---|---|
| 37 | Lumbar disc degeneration is linked to a carbohydrate sulfotransferase 3 variant. Journal of Clinical Investigation, 2013, 123, 4909-4917. | 8.2 | 126 |
| 38 | SNP rs11190870 near LBX1 is associated with adolescent idiopathic scoliosis in southern Chinese. Journal of Human Genetics, 2012, 57, 244-246. | 2.3 | 64 |
| 39 | Exhaustion of nucleus pulposus progenitor cells with ageing and degeneration of the intervertebral disc. Nature Communications, 2012, 3, 1264. | 12.8 | 357 |
| 40 | Indian hedgehog mutations causing brachydactyly type A1 impair Hedgehog signal transduction at multiple levels. Cell Research, 2011, 21, 1343-1357. | 12.0 | 31 |
| 41 | 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 |
| 42 | The developmental roles of the extracellular matrix: beyond structure to regulation. Cell and Tissue Research, 2010, 339, 93-110. | 2.9 | 144 |
| 43 | Loss of procollagen IIA from the anterior mesendoderm disrupts the development of mouse embryonic forebrain. Developmental Dynamics, 2010, 239, 2319-2329. | 1.8 | 22 |
| 44 | In vivo cellular adaptation to ER stress: survival strategies with double-edged consequences. Journal of Cell Science, 2010, 123, 2145-2154. | 2.0 | 120 |
| 45 | Utility of HoxB2 enhancerâ€mediated Cre activity for functional studies in the developing inner ear. Genesis, 2009, 47, 361-365. | 1.6 | 10 |
| 46 | 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 |
| 47 | Association between promoter -1607 polymorphism of MMP1 and Lumbar Disc Disease in Southern Chinese. BMC Medical Genetics, 2008, 9, 38. | 2.1 | 44 |
| 48 | Association of the Asporin D14 Allele with Lumbar-Disc Degeneration in Asians. American Journal of Human Genetics, 2008, 82, 744-747. | 6.2 | 132 |
| 49 | The molecular and cellular basis of exostosis formation in hereditary multiple exostoses. International Journal of Experimental Pathology, 2008, 89, 321-331. | 1.3 | 35 |
| 50 | Highly efficient deletion method for the engineering of plasmid DNA with single-stranded oligonucleotides. BioTechniques, 2008, 44, 217-224. | 1.8 | 2 |
| 51 | Surviving Endoplasmic Reticulum Stress Is Coupled to Altered Chondrocyte Differentiation and Function. PLoS Biology, 2007, 5, e44. | 5.6 | 167 |
| 52 | 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 |
| 53 | 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 |
| 54 | Genomic instability in laminopathy-based premature aging. Nature Medicine, 2005, 11, 780-785. | 30.7 | 579 |

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|---|---|---|---|
| 55 | Sox2 is required for sensory organ development in the mammalian inner ear. Nature, 2005, 434, 1031-1035. | 27.8 | 485 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | An externally fixed femoral fracture model for mice. Journal of Orthopaedic Research, 2003, 21, 685-690. | 2.3 | 53 |
| 60 | Identification of factors influencing strand bias in oligonucleotide-mediated recombination in Escherichia coli. Nucleic Acids Research, 2003, 31, 6674-6687. | 14.5 | 90 |
| 61 | 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 |
| 62 | 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 |
| 63 | Chondrocyte antigen expression, immune response and susceptibility to arthritis. International Immunology, 2001, 13, 421-429. | 4.0 | 4 |
| 64 | Requirement forPbx1in skeletal patterning and programming chondrocyte proliferation and differentiation. Development (Cambridge), 2001, 128, 3543-3557. | 2.5 | 266 |
| 65 | 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 |
| 66 | Disrupted expression of matrix genes in the growth plate of the mouse cartilage matrix deficiency (cmd) mutant. , 1998, 22, 349-358. | | 42 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | SOX9 directly regulates the type-ll collagen gene. Nature Genetics, 1997, 16, 174-178. | 21.4 | 847 |
| 71 | 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 |
| 72 | 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 |

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|---|---|---|---|
| 73 | 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 |
| 74 | 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 |
| 75 | Autosomal dominant and recessive osteochondrodysplasias associated with the COL11A2 locus. Cell, 1995, 80, 431-437. | 28.9 | 390 |
| 76 | 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 |
| 77 | Influence of digits, ectoderm, and retinoic acid on chondrogenesis by mouse interdigital mesoderm in culture. Developmental Dynamics, 1994, 201, 297-309. | 1.8 | 29 |
| 78 | 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 |