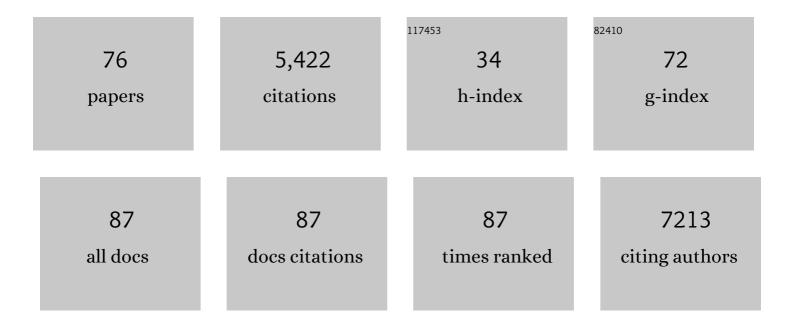
## Matthew J Hilton

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | G protein-coupled receptor kinase 3 modulates mesenchymal stem cell proliferation and<br>differentiation through sphingosine-1-phosphate receptor regulation. Stem Cell Research and Therapy,<br>2022, 13, 37. | 2.4 | 1         |
| 2  | Hypertrophic chondrocytes serve as a reservoir for marrow-associated skeletal stem and progenitor cells, osteoblasts, and adipocytes during skeletal development. ELife, 2022, 11, .                           | 2.8 | 28        |
| 3  | Identification of distinct non-myogenic skeletal-muscle-resident mesenchymal cell populations. Cell<br>Reports, 2022, 39, 110785.  | 2.9 | 23        |
| 4  | Magic angle effect on diffusion tensor imaging in ligament and brain. Magnetic Resonance Imaging, 2022, 92, 243-250.   | 1.0 | 2         |
| 5  | Effect of surface topography on in vitro osteoblast function and mechanical performance of<br><scp>3D</scp> printed titanium. Journal of Biomedical Materials Research - Part A, 2021, 109, 1792-1802.         | 2.1 | 9         |
| 6  | Hypoxia depletes contaminating CD45+ hematopoietic cells from murine bone marrow stromal cell<br>(BMSC) cultures: Methods for BMSC culture purification. Stem Cell Research, 2021, 53, 102317.                 | 0.3 | 5         |
| 7  | Whole-Exome Sequencing of Radiation-Induced Thymic Lymphoma in Mouse Models Identifies Notch1<br>Activation as a Driver of p53 Wild-Type Lymphoma. Cancer Research, 2021, 81, 3777-3790.                       | 0.4 | 10        |
| 8  | STING suppresses bone cancer pain via immune and neuronal modulation. Nature Communications, 2021, 12, 4558.   | 5.8 | 50        |
| 9  | Isolation and Culture of Murine Primary Chondrocytes: Costal and Growth Plate Cartilage. Methods<br>in Molecular Biology, 2021, 2230, 415-423.   | 0.4 | 5         |
| 10 | Demineralized Murine Skeletal Histology. Methods in Molecular Biology, 2021, 2230, 283-302.  | 0.4 | 2         |
| 11 | Whole Mount In Situ Hybridization in Murine Tissues. Methods in Molecular Biology, 2021, 2230, 367-376.  | 0.4 | Ο         |
| 12 | HES1 is a novel downstream modifier of the SHH-GLI3 Axis in the development of preaxial polydactyly.<br>PLoS Genetics, 2021, 17, e1009982.   | 1.5 | 5         |
| 13 | Application of genetically modified animals in bone research. , 2020, , 1787-1800.   |     | Ο         |
| 14 | Notch Signaling in Cartilage Development and Disease. , 2020, , 589-604.   |     | 0         |
| 15 | Characterization complex collagen fiber architecture in knee joint using highâ€resolution diffusion<br>imaging. Magnetic Resonance in Medicine, 2020, 84, 908-919.   | 1.9 | 13        |
| 16 | PD-1 blockade inhibits osteoclast formation and murine bone cancer pain. Journal of Clinical<br>Investigation, 2020, 130, 3603-3620.   | 3.9 | 90        |
| 17 | Dysregulation of STAT3 signaling is associated with endplate-oriented herniations of the intervertebral disc in Adgrg6 mutant mice. PLoS Genetics, 2019, 15, e1008096.   | 1.5 | 24        |
| 18 | Diffusion tractography of the rat knee at microscopic resolution. Magnetic Resonance in Medicine, 2019, 81, 3775-3786.   | 1.9 | 21        |

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|----|--|-----|-----------|
| 19 | Chondrocyte-Specific RUNX2 Overexpression Accelerates Post-traumatic Osteoarthritis Progression in Adult Mice. Journal of Bone and Mineral Research, 2019, 34, 1676-1689.                                | 3.1 | 51        |
| 20 | The CaV1.2 L-type calcium channel regulates bone homeostasis in the middle and inner ear. Bone, 2019, 125, 160-168.  | 1.4 | 19        |
| 21 | Glutamine Metabolism Regulates Proliferation and Lineage Allocation in Skeletal Stem Cells. Cell<br>Metabolism, 2019, 29, 966-978.e4.  | 7.2 | 170       |
| 22 | Cell typeâ€specific effects of Notch signaling activation on intervertebral discs: Implications for intervertebral disc degeneration. Journal of Cellular Physiology, 2018, 233, 5431-5440.              | 2.0 | 26        |
| 23 | Intracellular biosynthesis of lipids and cholesterol by Scap and Insig in mesenchymal cells regulates<br>long bone growth and chondrocyte homeostasis. Development (Cambridge), 2018, 145, .             | 1.2 | 18        |
| 24 | The Notch Ligand Jagged1 Regulates the Osteoblastic Lineage by Maintaining the Osteoprogenitor Pool.<br>Journal of Bone and Mineral Research, 2017, 32, 1320-1331.                                       | 3.1 | 44        |
| 25 | Increased Ca2+ signaling through CaV1.2 promotes bone formation and prevents estrogen deficiencyâ $\epsilon^{"}$ induced bone loss. JCI Insight, 2017, 2, .  | 2.3 | 38        |
| 26 | Daily oral consumption of hydrolyzed type 1 collagen is chondroprotective and anti-inflammatory in murine posttraumatic osteoarthritis. PLoS ONE, 2017, 12, e0174705.                                    | 1.1 | 38        |
| 27 | HES factors regulate specific aspects of chondrogenesis and chondrocyte hypertrophy during cartilage development. Journal of Cell Science, 2016, 129, 2145-55.   | 1.2 | 24        |
| 28 | Suppressive Effects of Insulin on Tumor Necrosis Factor–Dependent Early Osteoarthritic Changes<br>Associated With Obesity and Type 2 Diabetes Mellitus. Arthritis and Rheumatology, 2016, 68, 1392-1402. | 2.9 | 91        |
| 29 | Use of Hes1 -GFP reporter mice to assess activity of the Hes1 promoter in bone cells under chronic inflammation. Bone, 2016, 90, 80-89.  | 1.4 | 9         |
| 30 | Notch signaling indirectly promotes chondrocyte hypertrophy via regulation of BMP signaling and cell cycle arrest. Scientific Reports, 2016, 6, 25594.   | 1.6 | 26        |
| 31 | CCN1 Regulates Chondrocyte Maturation and Cartilage Development. Journal of Bone and Mineral Research, 2016, 31, 549-559.  | 3.1 | 22        |
| 32 | Notch signaling in postnatal joint chondrocytes, but not subchondral osteoblasts, is required for articular cartilage and joint maintenance. Osteoarthritis and Cartilage, 2016, 24, 740-751.            | 0.6 | 28        |
| 33 | NOTCH signaling in skeletal progenitors is critical for fracture repair. Journal of Clinical<br>Investigation, 2016, 126, 1471-1481.   | 3.9 | 96        |
| 34 | HES factors regulate specific aspects of chondrogenesis and chondrocyte hypertrophy during cartilage development. Development (Cambridge), 2016, 143, e1.1-e1.1.   | 1.2 | 1         |
| 35 | Notch signaling controls chondrocyte hypertrophy via indirect regulation of Sox9. Bone Research, 2015, 3, 15021.   | 5.4 | 41        |
| 36 | Transient gamma-secretase inhibition accelerates and enhances fracture repair likely via Notch signaling modulation. Bone, 2015, 73, 77-89.  | 1.4 | 21        |

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|----|---|-----|-----------|
| 37 | A dual role for NOTCH signaling in joint cartilage maintenance and osteoarthritis. Science Signaling, 2015, 8, ra71.  | 1.6 | 83        |
| 38 | PTH Receptor Signaling in Osteoblasts Regulates Endochondral Vascularization in Maintenance of Postnatal Growth Plate. Journal of Bone and Mineral Research, 2015, 30, 309-317.   | 3.1 | 33        |
| 39 | Delayed Fracture Healing and Increased Callus Adiposity in a C57BL/6J Murine Model of Obesity-Associated Type 2 Diabetes Mellitus. PLoS ONE, 2014, 9, e99656.   | 1.1 | 88        |
| 40 | NOTCH-Mediated Maintenance and Expansion of Human Bone Marrow Stromal/Stem Cells: A<br>Technology Designed for Orthopedic Regenerative Medicine. Stem Cells Translational Medicine, 2014,<br>3, 1456-1466.                                  | 1.6 | 33        |
| 41 | Multiple hereditary exostoses (MHE): elucidating the pathogenesis of a rare skeletal disorder through interdisciplinary research. Connective Tissue Research, 2014, 55, 80-88.  | 1.1 | 21        |
| 42 | The effect of mesenchymal stem cell sheets on structural allograft healing of critical sized femoral defects in mice. Biomaterials, 2014, 35, 2752-2759.  | 5.7 | 89        |
| 43 | Demineralized Murine Skeletal Histology. Methods in Molecular Biology, 2014, 1130, 165-183.   | 0.4 | 10        |
| 44 | Whole-Mount In Situ Hybridization on Murine Skeletogenic Tissues. Methods in Molecular Biology, 2014, 1130, 193-201.  | 0.4 | 4         |
| 45 | Isolation and Culture of Murine Primary Chondrocytes. Methods in Molecular Biology, 2014, 1130, 267-277.  | 0.4 | 25        |
| 46 | NOTCH inhibits osteoblast formation in inflammatory arthritis via noncanonical NF-κB. Journal of Clinical Investigation, 2014, 124, 3200-3214.  | 3.9 | 67        |
| 47 | RBPâ€Ĵ⁰–Dependent Notch Signaling Is Required for Murine Articular Cartilage and Joint Maintenance.<br>Arthritis and Rheumatism, 2013, 65, 2623-2633.   | 6.7 | 44        |
| 48 | TAK1 regulates SOX9 expression in chondrocytes and is essential for postnatal development of the growth plate and articular cartilages. Journal of Cell Science, 2013, 126, 5704-13.  | 1.2 | 44        |
| 49 | Troponin T3 expression in skeletal and smooth muscle is required for growth and postnatal survival:<br>Characterization of <i>Tnnt3<sup>tm2a(KOMP)Wtsi</sup></i> mice. Genesis, 2013, 51, 667-675.  | 0.8 | 20        |
| 50 | Engineering superficial zone features in tissue engineered cartilage. Biotechnology and Bioengineering, 2013, 110, 1476-1486.   | 1.7 | 24        |
| 51 | Cartilage-specific RBPjκ-dependent and -independent Notch signals regulate cartilage and bone<br>development. Development (Cambridge), 2012, 139, 1198-1212.  | 1.2 | 88        |
| 52 | Cartilage-specific β-catenin signaling regulates chondrocyte maturation, generation of ossification<br>centers, and perichondrial bone formation during skeletal development. Journal of Bone and Mineral<br>Research, 2012, 27, 1680-1694. | 3.1 | 116       |
| 53 | Ski inhibits TGFâ€Î²/phosphoâ€Smad3 signaling and accelerates hypertrophic differentiation in chondrocytes. Journal of Cellular Biochemistry, 2012, 113, 2156-2166.   | 1.2 | 34        |
| 54 | Impact of Smad3 loss of function on scarring and adhesion formation during tendon healing. Journal of Orthopaedic Research, 2011, 29, 684-693.  | 1.2 | 103       |

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|----|---|------|-----------|
| 55 | Establishment of an index with increased sensitivity for assessing murine arthritis. Journal of<br>Orthopaedic Research, 2011, 29, 1145-1151.   | 1.2  | 45        |
| 56 | TNF is required for the induction but not the maintenance of compressionâ€induced BME signals in<br>murine tail vertebrae: Limitations of antiâ€TNF therapy for degenerative disc disease. Journal of<br>Orthopaedic Research, 2011, 29, 1367-1374. | 1.2  | 5         |
| 57 | BMP2, but not BMP4, is crucial for chondrocyte proliferation and maturation during endochondral bone development. Journal of Cell Science, 2011, 124, 3428-3440.  | 1.2  | 211       |
| 58 | Teriparatide as a Chondroregenerative Therapy for Injury-Induced Osteoarthritis. Science<br>Translational Medicine, 2011, 3, 101ra93.   | 5.8  | 145       |
| 59 | Axin2 regulates chondrocyte maturation and axial skeletal development. Journal of Orthopaedic Research, 2010, 28, 89-95.  | 1.2  | 38        |
| 60 | TAK1 regulates cartilage and joint development via the MAPK and BMP signaling pathways. Journal of<br>Bone and Mineral Research, 2010, 25, 1784-1797.   | 3.1  | 79        |
| 61 | Chronic axial compression of the mouse tail segment induces MRI bone marrow edema changes that correlate with increased marrow vasculature and cellularity. Journal of Orthopaedic Research, 2010, 28, 1220-1228.                                   | 1.2  | 12        |
| 62 | RBPjκ-dependent Notch signaling regulates mesenchymal progenitor cell proliferation and differentiation during skeletal development. Development (Cambridge), 2010, 137, 1461-1471.   | 1.2  | 154       |
| 63 | Efficacy of colistinâ€mpregnated beads to prevent multidrugâ€resistant <i>A. baumannii</i> implantâ€associated osteomyelitis. Journal of Orthopaedic Research, 2009, 27, 1008-1015.   | 1.2  | 32        |
| 64 | Mechanism of shortened bones in mucopolysaccharidosis VII. Molecular Genetics and Metabolism, 2009, 97, 202-211.  | 0.5  | 61        |
| 65 | Suppression of CXCL12 production by bone marrow osteoblasts is a common and critical pathway for cytokine-induced mobilization. Blood, 2009, 114, 1331-1339.  | 0.6  | 211       |
| 66 | Notch signaling maintains bone marrow mesenchymal progenitors by suppressing osteoblast differentiation. Nature Medicine, 2008, 14, 306-314.  | 15.2 | 532       |
| 67 | An FGF–WNT gene regulatory network controls lung mesenchyme development. Developmental<br>Biology, 2008, 319, 426-436.  | 0.9  | 127       |
| 68 | Rac1 Activation Controls Nuclear Localization of β-catenin during Canonical Wnt Signaling. Cell, 2008, 133, 340-353.  | 13.5 | 433       |
| 69 | NOTCH1 Regulates Osteoclastogenesis Directly in Osteoclast Precursors and Indirectly via Osteoblast<br>Lineage Cells. Journal of Biological Chemistry, 2008, 283, 6509-6518.  | 1.6  | 202       |
| 70 | Regulation of chondrogenesis and chondrocyte differentiation by stress. Journal of Clinical Investigation, 2008, 118, 429-438.  | 3.9  | 194       |
| 71 | Tamoxifen-inducible gene deletion reveals a distinct cell type associated with trabecular bone, and direct regulation of PTHrP expression and chondrocyte morphology by Ihh in growth region cartilage. Developmental Biology, 2007, 308, 93-105.   | 0.9  | 97        |
| 72 | Suppression of CXCL12 Production by Bone Marrow Osteoblasts Is a Common and Critical Pathway for<br>Cytokine-Induced Mobilization Blood, 2007, 110, 220-220.  | 0.6  | 18        |

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| 73 | Ihh controls cartilage development by antagonizing Gli3, but requires additional effectors to regulate osteoblast and vascular development. Development (Cambridge), 2005, 132, 4339-4351. | 1.2 | 172       |
| 74 | EXT1 regulates chondrocyte proliferation and differentiation during endochondral bone development. Bone, 2005, 36, 379-386.  | 1.4 | 62        |
| 75 | Sequential roles of Hedgehog and Wnt signaling in osteoblast development. Development<br>(Cambridge), 2005, 132, 49-60.  | 1.2 | 593       |
| 76 | An Integrated Physical Map of 8q22–q24: Use in Positional Cloning and Deletion Analysis of<br>Langer–Giedion Syndrome. Genomics, 2001, 71, 192-199.  | 1.3 | 18        |