# Xiaoling Zhang

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 86 papers | 2,960 citations | 33 h-index | 52 g-index |
| 91 ext. papers | 3,503 ext. citations | 6 avg, IF | 5.09 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 86 | The mA "reader" YTHDF1 promotes osteogenesis of bone marrow mesenchymal stem cells through translational control of ZNF839. *Cell Death and Disease*, **2021**, 12, 1078 | 9.8 | 3 |
| 85 | Mechanical stretch promotes hypertrophic scar formation through mechanically activated cation channel Piezo1. *Cell Death and Disease*, **2021**, 12, 226 | 9.8 | 5 |
| 84 | KDM4 Orchestrates Epigenomic Remodeling of Senescent Cells and Potentiates the Senescence-Associated Secretory Phenotype. *Nature Aging*, **2021**, 1, 454-472 | | 4 |
| 83 | The Jumonji Domain-Containing Histone Demethylase Homolog 1D/lysine Demethylase 7A (JHDM1D/KDM7A) Is an Epigenetic Activator of RHOJ Transcription in Breast Cancer Cells. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 664375 | 5.7 | 8 |
| 82 | Three-Dimensional-Printed Poly-L-Lactic Acid Scaffolds with Different Pore Sizes Influence Periosteal Distraction Osteogenesis of a Rabbit Skull. *BioMed Research International*, **2020**, 2020, 7381391 | 3 | 5 |
| 81 | CircGCN1L1 promotes synoviocyte proliferation and chondrocyte apoptosis by targeting miR-330-3p and TNF- in TMJ osteoarthritis. *Cell Death and Disease*, **2020**, 11, 284 | 9.8 | 33 |
| 80 | IL-23, but not IL-12, plays a critical role in inflammation-mediated bone disorders. *Theranostics*, **2020**, 10, 3925-3938 | 12.1 | 7 |
| 79 | Tumor Necrosis Factor Receptor Associated Factor 3 Modulates Cartilage Degradation through Suppression of Interleukin 17 Signaling. *American Journal of Pathology*, **2020**, 190, 1701-1712 | 5.8 | 1 |
| 78 | Overexpression of mechanical sensitive miR-337-3p alleviates ectopic ossification in rat tendinopathy model via targeting IRS1 and Nox4 of tendon-derived stem cells. *Journal of Molecular Cell Biology*, **2020**, 12, 305-317 | 6.3 | 11 |
| 77 | PIP5k1 controls bone homeostasis through modulating both osteoclast and osteoblast differentiation. *Journal of Molecular Cell Biology*, **2020**, 12, 55-70 | 6.3 | 5 |
| 76 | High-Dose TGF-1 Impairs Mesenchymal Stem Cell-Mediated Bone Regeneration via Bmp2 Inhibition. *Journal of Bone and Mineral Research*, **2020**, 35, 167-180 | 6.3 | 14 |
| 75 | miR-146a interacting with lncRNA EPB41L4A-AS1 and lncRNA SNHG7 inhibits proliferation of bone marrow-derived mesenchymal stem cells. *Journal of Cellular Physiology*, **2020**, 235, 3292-3308 | 7 | 12 |
| 74 | Mechanical stretch promotes tumoricidal M1 polarization the FAK/NF-B signaling pathway. *FASEB Journal*, **2019**, 33, 13254-13266 | 0.9 | 11 |
| 73 | Association between asymptomatic sexually transmitted infections and high-risk human papillomavirus in cervical lesions. *Journal of International Medical Research*, **2019**, 47, 5548-5559 | 1.4 | 2 |
| 72 | Flavones hydroxylated at 5, 7, 3Tand 4Tameliorate skin fibrosis via inhibiting activin receptor-like kinase 5 kinase activity. *Cell Death and Disease*, **2019**, 10, 124 | 9.8 | 4 |
| 71 | Wnt16 attenuates osteoarthritis progression through a PCP/JNK-mTORC1-PTHrP cascade. *Annals of the Rheumatic Diseases*, **2019**, 78, 551-561 | 2.4 | 36 |
| 70 | MiR-146a Deletion Protects From Bone Loss in OVX Mice by Suppressing RANKL/OPG and M-CSF in Bone Microenvironment. *Journal of Bone and Mineral Research*, **2019**, 34, 2149-2161 | 6.3 | 23 |

| | | | |
|---|---|---|---|
| 69 | Osteoblast versus Adipocyte: Bone Marrow Microenvironment-Guided Epigenetic Control. *Case Reports in Orthopedics*, **2019**, 1, 2-18 | 0.4 | 9 |
| 68 | BMPER Enhances Bone Formation by Promoting the Osteogenesis-Angiogenesis Coupling Process in Mesenchymal Stem Cells. *Cellular Physiology and Biochemistry*, **2018**, 45, 1927-1939 | 3.9 | 11 |
| 67 | Degree of endplate chondrocyte degeneration in different tension regions during mechanical stimulation. *Molecular Medicine Reports*, **2018**, 17, 4415-4421 | 2.9 | 2 |
| 66 | Osteon Myospalacem Baileyi attenuates osteoclast differentiation through RANKL induced NFAT pathways. *Journal of Ethnopharmacology*, **2018**, 213, 65-71 | 5 | 4 |
| 65 | Improving Bone Regeneration Using Chordin siRNA Delivered by pH-Responsive and Non-Toxic Polyspermine Imidazole-4,5-Imine. *Cellular Physiology and Biochemistry*, **2018**, 46, 133-147 | 3.9 | 12 |
| 64 | Meta-analysis of urinary C-terminal telopeptide of type II collagen as a biomarker in osteoarthritis diagnosis. *Journal of Orthopaedic Translation*, **2018**, 13, 50-57 | 4.2 | 11 |
| 63 | The inhibition of RANKL expression in fibroblasts attenuate CoCr particles induced aseptic prosthesis loosening via the MyD88-independent TLR signaling pathway. *Biochemical and Biophysical Research Communications*, **2018**, 503, 1115-1122 | 3.4 | 8 |
| 62 | In vivo therapeutic efficacy of TNF silencing by folate-PEG-chitosan-DEAE/siRNA nanoparticles in arthritic mice. *International Journal of Nanomedicine*, **2018**, 13, 387-402 | 7.3 | 39 |
| 61 | Nano-sized AlO particle-induced autophagy reduces osteolysis in aseptic loosening of total hip arthroplasty by negative feedback regulation of RANKL expression in fibroblasts. *Cell Death and Disease*, **2018**, 9, 840 | 9.8 | 12 |
| 60 | Long noncoding RNA MALAT1 promotes osterix expression to regulate osteogenic differentiation by targeting miRNA-143 in human bone marrow-derived mesenchymal stem cells. *Journal of Cellular Biochemistry*, **2018**, 119, 6986-6996 | 4.7 | 64 |
| 59 | Regulation of immune response by bioactive ions released from silicate bioceramics for bone regeneration. *Acta Biomaterialia*, **2018**, 66, 81-92 | 10.8 | 81 |
| 58 | TNF- nhibits SATB2 expression and osteoblast differentiation through NF-B and MAPK pathways. *Oncotarget*, **2018**, 9, 4833-4850 | 3.3 | 15 |
| 57 | Gremlin2 Suppression Increases the BMP-2-Induced Osteogenesis of Human Bone Marrow-Derived Mesenchymal Stem Cells Via the BMP-2/Smad/Runx2 Signaling Pathway. *Journal of Cellular Biochemistry*, **2017**, 118, 286-297 | 4.7 | 42 |
| 56 | Mechanical stimulation promote the osteogenic differentiation of bone marrow stromal cells through epigenetic regulation of Sonic Hedgehog. *Experimental Cell Research*, **2017**, 352, 346-356 | 4.2 | 37 |
| 55 | Modification and evaluation of micro-nano structured porous bacterial cellulose scaffold for bone tissue engineering. *Materials Science and Engineering C*, **2017**, 75, 1034-1041 | 8.3 | 43 |
| 54 | miR-146a facilitates osteoarthritis by regulating cartilage homeostasis via targeting Camk2d and Ppp3r2. *Cell Death and Disease*, **2017**, 8, e2734 | 9.8 | 56 |
| 53 | TNF- nduced LRG1 promotes angiogenesis and mesenchymal stem cell migration in the subchondral bone during osteoarthritis. *Cell Death and Disease*, **2017**, 8, e2715 | 9.8 | 84 |
| 52 | Sophoridine from Sophora Flower Attenuates Ovariectomy Induced Osteoporosis through the RANKL-ERK-NFAT Pathway. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 9647-9654 | 5.7 | 12 |

| | | | |
|---|---|---|---|
| 51 | Gold nanoparticles promote osteogenic differentiation of human periodontal ligament stem cells via the p38 MAPK signaling pathway. *Molecular Medicine Reports*, **2017**, 16, 4879-4886 | 2.9 | 34 |
| 50 | MicroRNA-145 attenuates TNF-□driven cartilage matrix degradation in osteoarthritis via direct suppression of MKK4. *Cell Death and Disease*, **2017**, 8, e3140 | 9.8 | 71 |
| 49 | Sitagliptin, An Anti-diabetic Drug, Suppresses Estrogen Deficiency-Induced Osteoporosis and Inhibits RANKL-Induced Osteoclast Formation and Bone Resorption. *Frontiers in Pharmacology*, **2017**, 8, 407 | 5.6 | 25 |
| 48 | Biscarbamate Cross-Linked Low-Molecular-Weight Polyethylenimine for Delivering Anti-chordin siRNA into Human Mesenchymal Stem Cells for Improving Bone Regeneration. *Frontiers in Pharmacology*, **2017**, 8, 572 | 5.6 | 8 |
| 47 | Nardosinone Suppresses RANKL-Induced Osteoclastogenesis and Attenuates Lipopolysaccharide-Induced Alveolar Bone Resorption. *Frontiers in Pharmacology*, **2017**, 8, 626 | 5.6 | 18 |
| 46 | Interleukin-17A-promoted MSC2 polarization related with new bone formation of ankylosing spondylitis. *Oncotarget*, **2017**, 8, 96993-97008 | 3.3 | 8 |
| 45 | Connexin 43 promotes ossification of the posterior longitudinal ligament through activation of the ERK1/2 and p38 MAPK pathways. *Cell and Tissue Research*, **2016**, 363, 765-73 | 4.2 | 23 |
| 44 | KDM5A controls bone morphogenic protein 2-induced osteogenic differentiation of bone mesenchymal stem cells during osteoporosis. *Cell Death and Disease*, **2016**, 7, e2335 | 9.8 | 58 |
| 43 | IL-12p40 impairs mesenchymal stem cell-mediated bone regeneration via CD4 T cells. *Cell Death and Differentiation*, **2016**, 23, 1941-1951 | 12.7 | 32 |
| 42 | microRNA-103a functions as a mechanosensitive microRNA to inhibit bone formation through targeting Runx2. *Journal of Bone and Mineral Research*, **2015**, 30, 330-45 | 6.3 | 113 |
| 41 | In Vivo Identification and Induction of Articular Cartilage Stem Cells by Inhibiting NF-B Signaling in Osteoarthritis. *Stem Cells*, **2015**, 33, 3125-37 | 5.8 | 34 |
| 40 | Histone deacetylase1 promotes TGF-1-mediated early chondrogenesis through down-regulating canonical Wnt signaling. *Biochemical and Biophysical Research Communications*, **2014**, 453, 810-6 | 3.4 | 22 |
| 39 | High extracellular magnesium inhibits mineralized matrix deposition and modulates intracellular calcium signaling in human bone marrow-derived mesenchymal stem cells. *Biochemical and Biophysical Research Communications*, **2014**, 450, 1390-5 | 3.4 | 44 |
| 38 | Polyspermine imine, a pH responsive polycationic siRNA carrier degradable to endogenous metabolites. *Molecular Pharmaceutics*, **2014**, 11, 3300-6 | 5.6 | 10 |
| 37 | The role of SATB2 in skeletogenesis and human disease. *Cytokine and Growth Factor Reviews*, **2014**, 25, 35-44 | 17.9 | 55 |
| 36 | A heterocyclic molecule kartogenin induces collagen synthesis of human dermal fibroblasts by activating the smad4/smad5 pathway. *Biochemical and Biophysical Research Communications*, **2014**, 450, 568-74 | 3.4 | 20 |
| 35 | Native Polymer-based 3D Substitutes for Bone Repair **2014**, 145-183 | | 1 |
| 34 | Native Polymer-based 3D Substitutes in Plastic Surgery **2014**, 185-219 | | |

| | | | |
|---|---|---|---|
| 33 | Wnt and the Wnt signaling pathway in bone development and disease. *Frontiers in Bioscience - Landmark*, **2014**, 19, 379-407 | 2.8 | 148 |
| 32 | Multiple biomarkers analysis for the early detection of prosthetic aseptic loosening of hip arthroplasty. *International Orthopaedics*, **2013**, 37, 1025-31 | 3.8 | 18 |
| 31 | Expression of Wnt pathway mediators in metaplasic tissue in animal model and clinical samples of tendinopathy. *Rheumatology*, **2013**, 52, 1609-18 | 3.9 | 15 |
| 30 | Polyethylenimine600-β-cyclodextrin: a promising nanopolymer for nonviral gene delivery of primary mesenchymal stem cells. *International Journal of Nanomedicine*, **2013**, 8, 1935-46 | 7.3 | 12 |
| 29 | Linear polyethylenimine produced by partial acid hydrolysis of poly(2-ethyl-2-oxazoline) for DNA and siRNA delivery in vitro. *International Journal of Nanomedicine*, **2013**, 8, 4091-102 | 7.3 | 22 |
| 28 | Porous tantalum coatings prepared by vacuum plasma spraying enhance bmscs osteogenic differentiation and bone regeneration in vitro and in vivo. *PLoS ONE*, **2013**, 8, e66263 | 3.7 | 49 |
| 27 | The use of autologous enriched bone marrow MSCs to enhance osteoporotic bone defect repair in long-term estrogen deficient goats. *Biomaterials*, **2012**, 33, 5076-84 | 15.6 | 65 |
| 26 | Biscarbamate cross-linked low molecular weight PEI for delivering IL-1 receptor antagonist gene to synoviocytes for arthritis therapy. *Biomaterials*, **2012**, 33, 6520-32 | 15.6 | 32 |
| 25 | Inhibition of β-catenin signaling in chondrocytes induces delayed fracture healing in mice. *Journal of Orthopaedic Research*, **2012**, 30, 304-10 | 3.8 | 41 |
| 24 | Intermittent traction stretch promotes the osteoblastic differentiation of bone mesenchymal stem cells by the ERK1/2-activated Cbfa1 pathway. *Connective Tissue Research*, **2012**, 53, 451-9 | 3.3 | 20 |
| 23 | Uniaxial mechanical tension promoted osteogenic differentiation of rat tendon-derived stem cells (rTDSCs) via the Wnt5a-RhoA pathway. *Journal of Cellular Biochemistry*, **2012**, 113, 3133-42 | 4.7 | 52 |
| 22 | miR-146a, an IL-1β-responsive miRNA, induces vascular endothelial growth factor and chondrocyte apoptosis by targeting Smad4. *Arthritis Research and Therapy*, **2012**, 14, R75 | 5.7 | 113 |
| 21 | Uptake mechanisms of non-viral gene delivery. *Journal of Controlled Release*, **2012**, 158, 371-8 | 11.7 | 218 |
| 20 | Efficient Nonviral Gene Therapy Using Folate-Targeted Chitosan-DNA Nanoparticles In Vitro. *ISRN Pharmaceutics*, **2012**, 2012, 369270 | | 13 |
| 19 | Low molecular weight chitosan conjugated with folate for siRNA delivery in vitro: optimization studies. *International Journal of Nanomedicine*, **2012**, 7, 5833-45 | 7.3 | 43 |
| 18 | Continuous cyclic mechanical tension inhibited Runx2 expression in mesenchymal stem cells through RhoA-ERK1/2 pathway. *Journal of Cellular Physiology*, **2011**, 226, 2159-69 | 7 | 50 |
| 17 | Hydrodynamic delivery of chitosan-folate-DNA nanoparticles in rats with adjuvant-induced arthritis. *Journal of Biomedicine and Biotechnology*, **2011**, 2011, 148763 | | 15 |
| 16 | Effects of magnesium alloys extracts on adult human bone marrow-derived stromal cell viability and osteogenic differentiation. *Biomedical Materials (Bristol)*, **2010**, 5, 045005 | 3.5 | 70 |

| | | | |
|---|---|---|---|
| 15 | Human bone marrow-derived stromal cells cultured with a plasma sprayed CaO-ZrO2-SiO2 coating. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 95, 192-201 | 3.5 | 13 |
| 14 | Regulation of osteoblast differentiation by slit2 in osteoblastic cells. *Cells Tissues Organs*, **2009**, 190, 69-80 | 2.1 | 29 |
| 13 | Progress and prospects of chitosan and its derivatives as non-viral gene vectors in gene therapy. *Current Gene Therapy*, **2009**, 9, 495-502 | 4.3 | 35 |
| 12 | The role of CCAAT/enhancer binding protein (C/EBP)-alpha in osteogenesis of C3H10T1/2 cells induced by BMP-2. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2489-2505 | 5.6 | 34 |
| 11 | Enhancement of bone formation by genetically-engineered bone marrow stromal cells expressing BMP-2, VEGF and angiopoietin-1. *Biotechnology Letters*, **2009**, 31, 1183-9 | 3 | 26 |
| 10 | The destruction evaluation in different foot joints: new ideas in collagen-induced arthritis rat model. *Rheumatology International*, **2009**, 29, 607-13 | 3.6 | 1 |
| 9 | Periprosthetic strain magnitude-dependent upregulation of type I collagen synthesis in human osteoblasts through an ERK1/2 pathway. *International Orthopaedics*, **2009**, 33, 1455-60 | 3.8 | 5 |
| 8 | In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. *Biomaterials*, **2009**, 30, 5041-8 | 15.6 | 249 |
| 7 | The in vivo bone formation by mesenchymal stem cells in zein scaffolds. *Biomaterials*, **2009**, 30, 4369-76 | 15.6 | 87 |
| 6 | The immunologic properties of undifferentiated and osteogenic differentiated mouse mesenchymal stem cells and its potential application in bone regeneration. *Immunobiology*, **2009**, 214, 179-86 | 3.4 | 22 |
| 5 | Bone-protective effects of nonviral gene therapy with folate-chitosan DNA nanoparticle containing interleukin-1 receptor antagonist gene in rats with adjuvant-induced arthritis. *Molecular Therapy*, **2008**, 16, 1243-51 | 11.7 | 66 |
| 4 | Ectopic osteogenesis by ex vivo gene therapy using beta tricalcium phosphate as a carrier. *Connective Tissue Research*, **2008**, 49, 343-50 | 3.3 | 11 |
| 3 | Immunomodulatory and osteogenic differentiation effects of mesenchymal stem cells by adenovirus-mediated coexpression of CTLA4Ig and BMP2. *Journal of Orthopaedic Research*, **2008**, 26, 314-21 | 3.8 | 11 |
| 2 | In vitro proliferation and differentiation of human mesenchymal stem cells cultured in autologous plasma derived from bone marrow. *Tissue Engineering - Part A*, **2008**, 14, 391-400 | 3.9 | 17 |
| 1 | Direct chitosan-mediated gene delivery to the rabbit knee joints in vitro and in vivo. *Biochemical and Biophysical Research Communications*, **2006**, 341, 202-8 | 3.4 | 54 |