Amel Dudakovic

List of Publications by Year
in descending order

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71	2,367	201674	233421
papers	citations	27 h-index	45 g-index

73	73	73	3220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brd4 is required for chondrocyte differentiation and endochondral ossification. Bone, 2022, 154, 116234.	2.9	13
2	Intra-articular celecoxib improves knee extension regardless of surgical release in a rabbit model of arthrofibrosis. Bone and Joint Research, 2022, 11, 32-39.	3.6	6
3	Human outgrowth knee fibroblasts from patients undergoing total knee arthroplasty exhibit a unique gene expression profile and undergo myofibroblastogenesis upon TGFÎ²1 stimulation. Journal of Cellular Biochemistry, 2022, 123, 878-892.	2.6	4
4	Lysine-Specific Demethylase 1 (LSD1) epigenetically controls osteoblast differentiation. PLoS ONE, 2022, 17, e0265027.	2.5	10
5	Autophagy Is Involved in Mesenchymal Stem Cell Death in Coculture with Chondrocytes. Cartilage, 2021, 13, 969S-979S.	2.7	4
6	Inhibition of the catalytic subunit of DNAâ€dependent protein kinase (DNAâ€PKcs) stimulates osteoblastogenesis by potentiating bone morphogenetic protein 2 (BMP2) responses. Journal of Cellular Physiology, 2021, 236, 1195-1213.	4.1	4
7	Myeloma-Modified Adipocytes Exhibit Metabolic Dysfunction and a Senescence-Associated Secretory Phenotype. Cancer Research, 2021, 81, 634-647.	0.9	50
8	Combination of BMP2 and EZH2 Inhibition to Stimulate Osteogenesis in a 3D Bone Reconstruction Model. Tissue Engineering - Part A, 2021, 27, 1084-1098.	3.1	16
9	Lowâ€Dose Tamoxifen Induces Significant Bone Formation in Mice. JBMR Plus, 2021, 5, e10450.	2.7	11
10	Biological functions of chromobox (CBX) proteins in stem cell self-renewal, lineage-commitment, cancer and development. Bone, 2021, 143, 115659.	2.9	52
11	Alterations of mesenchymal stromal cells in cerebrospinal fluid: insights from transcriptomics and an ALS clinical trial. Stem Cell Research and Therapy, 2021, 12, 187.	5.5	8
12	Cell Surface Glycoprotein CD24 Marks Bone Marrow-Derived Human Mesenchymal Stem/Stromal Cells with Reduced Proliferative and Differentiation Capacity In Vitro. Stem Cells and Development, 2021, 30, 325-336.	2.1	7
13	Lamin A/C Is Dispensable to Mechanical Repression of Adipogenesis. International Journal of Molecular Sciences, 2021, 22, 6580.	4.1	10
14	Elevated expression of plasminogen activator inhibitor (PAI-1/SERPINE1) is independent from rs1799889 genotypes in arthrofibrosis. Meta Gene, 2021, 28, 100877.	0.6	1
15	Ezh2 Is Essential for Patterning of Multiple Musculoskeletal Tissues but Dispensable for Tendon Differentiation. Stem Cells and Development, 2021, 30, 601-609.	2.1	4
16	Brd4 Inactivation Increases Adenoviral Delivery of <scp>BMP2</scp> for Paracrine Stimulation of Osteogenic Differentiation as a Gene Therapeutic Concept to Enhance Bone Healing. JBMR Plus, 2021, 5, e10520.	2.7	2
17	Constitutive activation of NF-Î²B inducing kinase (NIK) in the mesenchymal lineage using Osterix (Sp7)- or Fibroblast-specific protein 1 (S100a4)-Cre drives spontaneous soft tissue sarcoma. PLoS ONE, 2021, 16, e0254426.	2.5	4
18	Fibroblastic differentiation of mesenchymal stem/stromal cells (MSCs) is enhanced by hypoxia in 3D cultures treated with bone morphogenetic protein 6 (BMP6) and growth and differentiation factor 5 (GDF5). Gene, 2021, 788, 145662.	2.2	3

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19	Ezh2 knockout in mesenchymal cells causes enamel hyper-mineralization. Biochemical and Biophysical Research Communications, 2021, 567, 72-78.	2.1	8
20	Surface Roughness of Titanium Orthopedic Implants Alters the Biological Phenotype of Human Mesenchymal Stromal Cells. Tissue Engineering - Part A, 2021, 27, 1503-1516.	3.1	14
21	Multiple pharmacological inhibitors targeting the epigenetic suppressor enhancer of zeste homolog 2 (Ezh2) accelerate osteoblast differentiation. Bone, 2021, 150, 115993.	2.9	25
22	Engineering Cartilage Tissue by Co-culturing of Chondrocytes and Mesenchymal Stromal Cells. Methods in Molecular Biology, 2021, 2221, 53-70.	0.9	2
23	Hypothermia and nutrient deprivation alter viability of human adipose-derived mesenchymal stem cells. Gene, 2020, 722, 144058.	2.2	9
24	Knockdown of formin mDia2 alters lamin B1 levels and increases osteogenesis in stem cells. Stem Cells, 2020, 38, 102-117.	3.2	13
25	Challenges in the Measurement and Interpretation of Serum Titanium Concentrations. Biological Trace Element Research, 2020, 196, 20-26.	3.5	10
26	The epigenetic reader Brd4 is required for osteoblast differentiation. Journal of Cellular Physiology, 2020, 235, 5293-5304.	4.1	21
27	Genetic background dependent modifiers of craniosynostosis severity. Journal of Structural Biology, 2020, 212, 107629.	2.8	9
28	A Potential Theragnostic Regulatory Axis for Arthrofibrosis Involving Adiponectin (ADIPOQ) Receptor 1 and 2 (ADIPOR1 and ADIPOR2), TGFÎ²1, and Smooth Muscle Î±-Actin (ACTA2). Journal of Clinical Medicine, 2020, 9, 3690.	2.4	8
29	Functional expression of ZNF467 and PCBP2 supports adipogenic lineage commitment in adipose-derived mesenchymal stem cells. Gene, 2020, 737, 144437.	2.2	6
30	Mechanical strain-mediated reduction in RANKL expression is associated with RUNX2 and BRD2. Gene: X, 2020, 763, 100027.	2.3	16
31	Î²â€Catenin Preserves the Stem State of Murine Bone Marrow Stromal Cells Through Activation of EZH2. Journal of Bone and Mineral Research, 2020, 35, 1149-1162.	2.8	42
32	Inhibition of the epigenetic suppressor EZH2 primes osteogenic differentiation mediated by BMP2. Journal of Biological Chemistry, 2020, 295, 7877-7893.	3.4	51
33	Lumbar intervertebral disc mRNA sequencing identifies the regulatory pathway in patients with disc herniation and spondylolisthesis. Gene, 2020, 750, 144634.	2.2	15
34	A Versatile Protocol for Studying Anterior Cruciate Ligament Reconstruction in a Rabbit Model. Tissue Engineering - Part C: Methods, 2019, 25, 191-196.	2.1	5
35	Molecular pathology of adverse local tissue reaction caused by metal-on-metal implants defined by RNA-seq. Genomics, 2019, 111, 1404-1411.	2.9	12
36	Fibrin glue mediated delivery of bone anabolic reagents to enhance healing of tendon to bone. Journal of Cellular Biochemistry, 2018, 119, 5715-5724.	2.6	9

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37	Osteogenic Stimulation of Human Adipose-Derived Mesenchymal Stem Cells Using a Fungal Metabolite That Suppresses the Polycomb Group Protein EZH2. Stem Cells Translational Medicine, 2018, 7, 197-209.	3.3	32
38	Biological effects of melatonin on osteoblast/osteoclast cocultures, bone, and quality of life: Implications of a role for <scp>MT</scp>2 melatonin receptors, <scp>MEK</scp>1/2, and <scp>MEK</scp>5 in melatoninâ€mediated osteoblastogenesis. Journal of Pineal Research, 2018, 64, e12465.	7.4	122
39	Loss of histone methyltransferase Ezh2 stimulates an osteogenic transcriptional program in chondrocytes but does not affect cartilage development. Journal of Biological Chemistry, 2018, 293, 19001-19011.	3.4	50
40	Molecular characterization of physis tissue by RNA sequencing. Gene, 2018, 668, 87-96.	2.2	18
41	Enhancer of zeste homolog 2 (Ezh2) controls bone formation and cell cycle progression during osteogenesis in mice. Journal of Biological Chemistry, 2018, 293, 12894-12907.	3.4	63
42	Validation of Osteogenic Properties of Cytochalasin D by High-Resolution RNA-Sequencing in Mesenchymal Stem Cells Derived from Bone Marrow and Adipose Tissues. Stem Cells and Development, 2018, 27, 1136-1145.	2.1	24
43	Tissue-Nonspecific Alkaline Phosphatase Is Required for MC3T3 Osteoblastâ€“Mediated Protection of Acute Myeloid Leukemia Cells from Apoptosis. Journal of Immunology, 2018, 201, 1086-1096.	0.8	11
44	Hypoxia-related microRNA-210 is a diagnostic marker for discriminating osteoblastoma and osteosarcoma. Journal of Orthopaedic Research, 2017, 35, 1137-1146.	2.3	13
45	Profiling of human epigenetic regulators using a semi-automated real-time qPCR platform validated by next generation sequencing. Gene, 2017, 609, 28-37.	2.2	25
46	Molecular landscape of arthrofibrosis: Microarray and bioinformatic analysis of the temporal expression of 380 genes during contracture genesis. Gene, 2017, 610, 15-23.	2.2	37
47	Improved Post-Thaw Function and Epigenetic Changes in Mesenchymal Stromal Cells Cryopreserved Using Multicomponent Osmolyte Solutions. Stem Cells and Development, 2017, 26, 828-842.	2.1	38
48	Autologous Mesenchymal Stem Cells, Applied in a Bioabsorbable Matrix, for Treatment of Perianal Fistulas in Patients With Crohn's Disease. Gastroenterology, 2017, 153, 59-62.e2.	1.3	147
49	Epigenetic Control of Osteoblast Differentiation by Enhancer of Zeste Homolog 2 (EZH2). Current Molecular Biology Reports, 2017, 3, 94-106.	1.6	15
50	Histone H4 Methyltransferase Suv420h2 Maintains Fidelity of Osteoblast Differentiation. Journal of Cellular Biochemistry, 2017, 118, 1262-1272.	2.6	25
51	A Versatile Protocol for Studying Calvarial Bone Defect Healing in a Mouse Model. Tissue Engineering - Part C: Methods, 2017, 23, 686-693.	2.1	30
52	Intranuclear Actin Structure Modulates Mesenchymal Stem Cell Differentiation. Stem Cells, 2017, 35, 1624-1635.	3.2	63
53	Molecular characterization of human osteoblast-derived extracellular vesicle mRNA using next-generation sequencing. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1133-1141.	4.1	22
54	Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissueâ€“Derived Human Mesenchymal Stromal Cells. Cartilage, 2017, 8, 283-299.	2.7	32

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55	Safety Studies for Use of Adipose Tissue-Derived Mesenchymal Stromal/Stem Cells in a Rabbit Model for Osteoarthritis to Support a Phase I Clinical Trial. Stem Cells Translational Medicine, 2017, 6, 910-922.	3.3	31
56	Proteomic Analysis of Exosomes and Exosome-Free Conditioned Media From Human Osteosarcoma Cell Lines Reveals Secretion of Proteins Related to Tumor Progression. Journal of Cellular Biochemistry, 2017, 118, 351-360.	2.6	68
57	Melatonin-micronutrients Osteopenia Treatment Study (MOTS): a translational study assessing melatonin, strontium (citrate), vitamin D3 and vitamin K2 (MK7) on bone density, bone marker turnover and health related quality of life in postmenopausal osteopenic women following a one-year double-blind RCT and on osteoblast-osteoclast co-cultures. Aging, 2017, 9, 256-285.	3.1	56
58	RNAâ€seq analysis of clinicalâ€grade osteochondral allografts reveals activation of early response genes. Journal of Orthopaedic Research, 2016, 34, 1950-1959.	2.3	24
59	Osteoblasts secrete miRNA-containing extracellular vesicles that enhance expansion of human umbilical cord blood cells. Scientific Reports, 2016, 6, 32034.	3.3	27
60	Histone deacetylase 3 supports endochondral bone formation by controlling cytokine signaling and matrix remodeling. Science Signaling, 2016, 9, ra79.	3.6	60
61	Enhancer of Zeste Homolog 2 Inhibition Stimulates Bone Formation and Mitigates Bone Loss Caused by Ovariectomy in Skeletally Mature Mice. Journal of Biological Chemistry, 2016, 291, 24594-24606.	3.4	78
62	Identification and validation of multiple cell surface markers of clinical-grade adipose-derived mesenchymal stromal cells as novel release criteria for good manufacturing practice-compliant production. Stem Cell Research and Therapy, 2016, 7, 107.	5.5	130
63	Multiâ€disciplinary antimicrobial strategies for improving orthopaedic implants to prevent prosthetic joint infections in hip and knee. Journal of Orthopaedic Research, 2016, 34, 177-186.	2.3	55
64	Anabolic and Antiresorptive Modulation of Bone Homeostasis by the Epigenetic Modulator Sulforaphane, a Naturally Occurring Isothiocyanate. Journal of Biological Chemistry, 2016, 291, 6754-6771.	3.4	60
65	Osteogenic potential of human adipose-tissue-derived mesenchymal stromal cells cultured on 3D-printed porous structured titanium. Gene, 2016, 581, 95-106.	2.2	25
66	RNA sequencing reveals a depletion of collagen targeting microRNAs in Dupuytrenâ€™s disease. BMC Medical Genomics, 2015, 8, 59.	1.5	5
67	Epigenetic Control of Skeletal Development by the Histone Methyltransferase Ezh2. Journal of Biological Chemistry, 2015, 290, 27604-27617.	3.4	144
68	Histone Deacetylase Inhibition Destabilizes the Multiâ€Potent State of Uncommitted Adiposeâ€Derived Mesenchymal Stromal Cells. Journal of Cellular Physiology, 2015, 230, 52-62.	4.1	46
69	Inhibition of mutant IDH1 decreases D-2-HG levels without affecting tumorigenic properties of chondrosarcoma cell lines. Oncotarget, 2015, 6, 12505-12519.	1.8	81
70	Highâ€Resolution Molecular Validation of Selfâ€Renewal and Spontaneous Differentiation in Clinicalâ€Grade Adiposeâ€Tissue Derived Human Mesenchymal Stem Cells. Journal of Cellular Biochemistry, 2014, 115, 1816-1828.	2.6	142
71	Histone Deacetylase Inhibition Promotes Osteoblast Maturation by Altering the Histone H4 Epigenome and Reduces Akt Phosphorylation. Journal of Biological Chemistry, 2013, 288, 28783-28791.	3.4	78