

# Amel Dudakovic

## List of Publications by Year in descending order

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71  
papers

2,367  
citations

201674

27  
h-index

233421

45  
g-index

73  
all docs

73  
docs citations

73  
times ranked

3220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Autologous Mesenchymal Stem Cells, Applied in a Bioabsorbable Matrix, for Treatment of Perianal Fistulas in Patients With Crohn's Disease. <i>Gastroenterology</i> , 2017, 153, 59-62.e2.	1.3	147
2	Epigenetic Control of Skeletal Development by the Histone Methyltransferase Ezh2. <i>Journal of Biological Chemistry</i> , 2015, 290, 27604-27617.	3.4	144
3	High-Resolution Molecular Validation of Self-Renewal and Spontaneous Differentiation in Clinical-Grade Adipose-Tissue Derived Human Mesenchymal Stem Cells. <i>Journal of Cellular Biochemistry</i> , 2014, 115, 1816-1828.	2.6	142
4	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. <i>Stem Cell Research and Therapy</i> , 2016, 7, 107.	5.5	130
5	Biological effects of melatonin on osteoblast/osteoclast cocultures, bone, and quality of life: Implications of a role for <i>MT</i> <sup>2</sup> melatonin receptors, <i>MEK</i> <sup>1/2</sup> , and <i>MEK</i> <sup>5</sup> in melatonin-mediated osteoblastogenesis. <i>Journal of Pineal Research</i> , 2018, 64, e12465.	7.4	122
6	Inhibition of mutant IDH1 decreases D-2-HG levels without affecting tumorigenic properties of chondrosarcoma cell lines. <i>Oncotarget</i> , 2015, 6, 12505-12519.	1.8	81
7	Histone Deacetylase Inhibition Promotes Osteoblast Maturation by Altering the Histone H4 Epigenome and Reduces Akt Phosphorylation. <i>Journal of Biological Chemistry</i> , 2013, 288, 28783-28791.	3.4	78
8	Enhancer of Zeste Homolog 2 Inhibition Stimulates Bone Formation and Mitigates Bone Loss Caused by Ovariectomy in Skeletally Mature Mice. <i>Journal of Biological Chemistry</i> , 2016, 291, 24594-24606.	3.4	78
9	Proteomic Analysis of Exosomes and Exosome-Free Conditioned Media From Human Osteosarcoma Cell Lines Reveals Secretion of Proteins Related to Tumor Progression. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 351-360.	2.6	68
10	Intranuclear Actin Structure Modulates Mesenchymal Stem Cell Differentiation. <i>Stem Cells</i> , 2017, 35, 1624-1635.	3.2	63
11	Enhancer of zeste homolog 2 ( <i>Ezh2</i> ) controls bone formation and cell cycle progression during osteogenesis in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 12894-12907.	3.4	63
12	Histone deacetylase 3 supports endochondral bone formation by controlling cytokine signaling and matrix remodeling. <i>Science Signaling</i> , 2016, 9, ra79.	3.6	60
13	Anabolic and Antiresorptive Modulation of Bone Homeostasis by the Epigenetic Modulator Sulforaphane, a Naturally Occurring Isothiocyanate. <i>Journal of Biological Chemistry</i> , 2016, 291, 6754-6771.	3.4	60
14	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. <i>Aging</i> , 2017, 9, 256-285.	3.1	56
15	Multi-disciplinary antimicrobial strategies for improving orthopaedic implants to prevent prosthetic joint infections in hip and knee. <i>Journal of Orthopaedic Research</i> , 2016, 34, 177-186.	2.3	55
16	Biological functions of chromobox (CBX) proteins in stem cell self-renewal, lineage-commitment, cancer and development. <i>Bone</i> , 2021, 143, 115659.	2.9	52
17	Inhibition of the epigenetic suppressor EZH2 primes osteogenic differentiation mediated by BMP2. <i>Journal of Biological Chemistry</i> , 2020, 295, 7877-7893.	3.4	51
18	Loss of histone methyltransferase Ezh2 stimulates an osteogenic transcriptional program in chondrocytes but does not affect cartilage development. <i>Journal of Biological Chemistry</i> , 2018, 293, 19001-19011.	3.4	50

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19	Myeloma-Modified Adipocytes Exhibit Metabolic Dysfunction and a Senescence-Associated Secretory Phenotype. <i>Cancer Research</i> , 2021, 81, 634-647.	0.9	50
20	Histone Deacetylase Inhibition Destabilizes the Multi-Potent State of Uncommitted Adipose-Derived Mesenchymal Stromal Cells. <i>Journal of Cellular Physiology</i> , 2015, 230, 52-62.	4.1	46
21	Wnt/Catenin Preserves the Stem State of Murine Bone Marrow Stromal Cells Through Activation of EZH2. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1149-1162.	2.8	42
22	Improved Post-Thaw Function and Epigenetic Changes in Mesenchymal Stromal Cells Cryopreserved Using Multicomponent Osmolyte Solutions. <i>Stem Cells and Development</i> , 2017, 26, 828-842.	2.1	38
23	Molecular landscape of arthrofibrosis: Microarray and bioinformatic analysis of the temporal expression of 380 genes during contracture genesis. <i>Gene</i> , 2017, 610, 15-23.	2.2	37
24	Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissue-Derived Human Mesenchymal Stromal Cells. <i>Cartilage</i> , 2017, 8, 283-299.	2.7	32
25	Osteogenic Stimulation of Human Adipose-Derived Mesenchymal Stem Cells Using a Fungal Metabolite That Suppresses the Polycomb Group Protein EZH2. <i>Stem Cells Translational Medicine</i> , 2018, 7, 197-209.	3.3	32
26	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. <i>Stem Cells Translational Medicine</i> , 2017, 6, 910-922.	3.3	31
27	A Versatile Protocol for Studying Calvarial Bone Defect Healing in a Mouse Model. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 686-693.	2.1	30
28	Osteoblasts secrete miRNA-containing extracellular vesicles that enhance expansion of human umbilical cord blood cells. <i>Scientific Reports</i> , 2016, 6, 32034.	3.3	27
29	Osteogenic potential of human adipose-tissue-derived mesenchymal stromal cells cultured on 3D-printed porous structured titanium. <i>Gene</i> , 2016, 581, 95-106.	2.2	25
30	Profiling of human epigenetic regulators using a semi-automated real-time qPCR platform validated by next generation sequencing. <i>Gene</i> , 2017, 609, 28-37.	2.2	25
31	Histone H4 Methyltransferase Suv420h2 Maintains Fidelity of Osteoblast Differentiation. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 1262-1272.	2.6	25
32	Multiple pharmacological inhibitors targeting the epigenetic suppressor enhancer of zeste homolog 2 (Ezh2) accelerate osteoblast differentiation. <i>Bone</i> , 2021, 150, 115993.	2.9	25
33	RNA-seq analysis of clinical-grade osteochondral allografts reveals activation of early response genes. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1950-1959.	2.3	24
34	Validation of Osteogenic Properties of Cytochalasin D by High-Resolution RNA-Sequencing in Mesenchymal Stem Cells Derived from Bone Marrow and Adipose Tissues. <i>Stem Cells and Development</i> , 2018, 27, 1136-1145.	2.1	24
35	Molecular characterization of human osteoblast-derived extracellular vesicle mRNA using next-generation sequencing. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1133-1141.	4.1	22
36	The epigenetic reader Brd4 is required for osteoblast differentiation. <i>Journal of Cellular Physiology</i> , 2020, 235, 5293-5304.	4.1	21

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37	Molecular characterization of physis tissue by RNA sequencing. <i>Gene</i> , 2018, 668, 87-96.	2.2	18
38	Mechanical strain-mediated reduction in RANKL expression is associated with RUNX2 and BRD2. <i>Gene: X</i> , 2020, 763, 100027.	2.3	16
39	Combination of BMP2 and EZH2 Inhibition to Stimulate Osteogenesis in a 3D Bone Reconstruction Model. <i>Tissue Engineering - Part A</i> , 2021, 27, 1084-1098.	3.1	16
40	Epigenetic Control of Osteoblast Differentiation by Enhancer of Zeste Homolog 2 (EZH2). <i>Current Molecular Biology Reports</i> , 2017, 3, 94-106.	1.6	15
41	Lumbar intervertebral disc mRNA sequencing identifies the regulatory pathway in patients with disc herniation and spondylolisthesis. <i>Gene</i> , 2020, 750, 144634.	2.2	15
42	Surface Roughness of Titanium Orthopedic Implants Alters the Biological Phenotype of Human Mesenchymal Stromal Cells. <i>Tissue Engineering - Part A</i> , 2021, 27, 1503-1516.	3.1	14
43	Hypoxia-related microRNA-210 is a diagnostic marker for discriminating osteoblastoma and osteosarcoma. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1137-1146.	2.3	13
44	Knockdown of formin mDia2 alters lamin B1 levels and increases osteogenesis in stem cells. <i>Stem Cells</i> , 2020, 38, 102-117.	3.2	13
45	Brd4 is required for chondrocyte differentiation and endochondral ossification. <i>Bone</i> , 2022, 154, 116234.	2.9	13
46	Molecular pathology of adverse local tissue reaction caused by metal-on-metal implants defined by RNA-seq. <i>Genomics</i> , 2019, 111, 1404-1411.	2.9	12
47	Tissue-Nonspecific Alkaline Phosphatase Is Required for MC3T3 Osteoblast-Mediated Protection of Acute Myeloid Leukemia Cells from Apoptosis. <i>Journal of Immunology</i> , 2018, 201, 1086-1096.	0.8	11
48	Low-Dose Tamoxifen Induces Significant Bone Formation in Mice. <i>JBMR Plus</i> , 2021, 5, e10450.	2.7	11
49	Challenges in the Measurement and Interpretation of Serum Titanium Concentrations. <i>Biological Trace Element Research</i> , 2020, 196, 20-26.	3.5	10
50	Lamin A/C Is Dispensable to Mechanical Repression of Adipogenesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6580.	4.1	10
51	Lysine-Specific Demethylase 1 (LSD1) epigenetically controls osteoblast differentiation. <i>PLoS ONE</i> , 2022, 17, e0265027.	2.5	10
52	Fibrin glue mediated delivery of bone anabolic reagents to enhance healing of tendon to bone. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5715-5724.	2.6	9
53	Hypothermia and nutrient deprivation alter viability of human adipose-derived mesenchymal stem cells. <i>Gene</i> , 2020, 722, 144058.	2.2	9
54	Genetic background dependent modifiers of craniosynostosis severity. <i>Journal of Structural Biology</i> , 2020, 212, 107629.	2.8	9

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55	A Potential Theragnostic Regulatory Axis for Arthrofibrosis Involving Adiponectin (ADIPOQ) Receptor 1 and 2 (ADIPOR1 and ADIPOR2), TGFÎ²1, and Smooth Muscle Î±-Actin (ACTA2). <i>Journal of Clinical Medicine</i> , 2020, 9, 3690.	2.4	8
56	Alterations of mesenchymal stromal cells in cerebrospinal fluid: insights from transcriptomics and an ALS clinical trial. <i>Stem Cell Research and Therapy</i> , 2021, 12, 187.	5.5	8
57	Ezh2 knockout in mesenchymal cells causes enamel hyper-mineralization. <i>Biochemical and Biophysical Research Communications</i> , 2021, 567, 72-78.	2.1	8
58	Cell Surface Glycoprotein CD24 Marks Bone Marrow-Derived Human Mesenchymal Stem/Stromal Cells with Reduced Proliferative and Differentiation Capacity In Vitro. <i>Stem Cells and Development</i> , 2021, 30, 325-336.	2.1	7
59	Functional expression of ZNF467 and PCBP2 supports adipogenic lineage commitment in adipose-derived mesenchymal stem cells. <i>Gene</i> , 2020, 737, 144437.	2.2	6
60	Intra-articular celecoxib improves knee extension regardless of surgical release in a rabbit model of arthrofibrosis. <i>Bone and Joint Research</i> , 2022, 11, 32-39.	3.6	6
61	RNA sequencing reveals a depletion of collagen targeting microRNAs in Dupuytren's disease. <i>BMC Medical Genomics</i> , 2015, 8, 59.	1.5	5
62	A Versatile Protocol for Studying Anterior Cruciate Ligament Reconstruction in a Rabbit Model. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 191-196.	2.1	5
63	Autophagy Is Involved in Mesenchymal Stem Cell Death in Coculture with Chondrocytes. <i>Cartilage</i> , 2021, 13, 969S-979S.	2.7	4
64	Inhibition of the catalytic subunit of DNA-dependent protein kinase (DNA-PKcs) stimulates osteoblastogenesis by potentiating bone morphogenetic protein 2 (BMP2) responses. <i>Journal of Cellular Physiology</i> , 2021, 236, 1195-1213.	4.1	4
65	Ezh2 Is Essential for Patterning of Multiple Musculoskeletal Tissues but Dispensable for Tendon Differentiation. <i>Stem Cells and Development</i> , 2021, 30, 601-609.	2.1	4
66	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. <i>PLoS ONE</i> , 2021, 16, e0254426.	2.5	4
67	Human outgrowth knee fibroblasts from patients undergoing total knee arthroplasty exhibit a unique gene expression profile and undergo myofibroblastogenesis upon TGFÎ²1 stimulation. <i>Journal of Cellular Biochemistry</i> , 2022, 123, 878-892.	2.6	4
68	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). <i>Gene</i> , 2021, 788, 145662.	2.2	3
69	Brd4 Inactivation Increases Adenoviral Delivery of BMP2 for Paracrine Stimulation of Osteogenic Differentiation as a Gene Therapeutic Concept to Enhance Bone Healing. <i>JBMR Plus</i> , 2021, 5, e10520.	2.7	2
70	Engineering Cartilage Tissue by Co-culturing of Chondrocytes and Mesenchymal Stromal Cells. <i>Methods in Molecular Biology</i> , 2021, 2221, 53-70.	0.9	2
71	Elevated expression of plasminogen activator inhibitor (PAI-1/SERPINE1) is independent from rs1799889 genotypes in arthrofibrosis. <i>Meta Gene</i> , 2021, 28, 100877.	0.6	1