Ludmila B Buravkova

List of Publications by Year
in descending order

121	1,551	430442	395343
papers	citations	18 h-index	33 g-index

134	134	134	1950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mesenchymal Stem Cells from Human Bone Marrow and Adipose Tissue: Isolation, Characterization, and Differentiation Potentialities. Bulletin of Experimental Biology and Medicine, 2005, 140, 138-143.	0.3	147
2	Mesenchymal stem cells and hypoxia: Where are we?. Mitochondrion, 2014, 19, 105-112.	1.6	110
3	Magnetic levitational bioassembly of 3D tissue construct in space. Science Advances, 2020, 6, eaba4174.	4.7	77
4	The role of cytoskeleton in cell changes under condition of simulated microgravity. Acta Astronautica, 2001, 48, 647-650.	1.7	53
5	Cell-to-cell interactions in changed gravity: Ground-based and flight experiments. Acta Astronautica, 2005, 57, 67-74.	1.7	50
6	Secretome of Senescent Adipose-Derived Mesenchymal Stem Cells Negatively Regulates Angiogenesis. International Journal of Molecular Sciences, 2020, 21, 1802.	1.8	46
7	Low ATP level is sufficient to maintain the uncommitted state of multipotent mesenchymal stem cells. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4418-4425.	1.1	44
8	Characteristics of human lipoaspirate-isolated mesenchymal stromal cells cultivated under lower oxygen tension. Cell and Tissue Biology, 2009, 3, 23-28.	0.2	42
9	Interaction of multipotent mesenchymal stromal and immune cells: Bidirectional effects. Cytotherapy, 2017, 19, 1152-1166.	0.3	41
10	Morphofunctional status and osteogenic differentiation potential of human mesenchymal stromal precursor cells during in vitro modeling of microgravity effects. Bulletin of Experimental Biology and Medicine, 2007, 144, 608-613.	0.3	26
11	Angiogenic Activity of Human Adipose-Derived Mesenchymal Stem Cells Under Simulated Microgravity. Stem Cells and Development, 2018, 27, 831-837.	1.1	24
12	Low-dose photodynamic therapy promotes angiogenic potential and increases immunogenicity of human mesenchymal stromal cells. Journal of Photochemistry and Photobiology B: Biology, 2019, 199, 111596.	1.7	24
13	WNT-associated gene expression in human mesenchymal stromal cells under hypoxic stress. Doklady Biochemistry and Biophysics, 2015, 465, 354-357.	0.3	21
14	Cultured stem cells are sensitive to gravity changes. Acta Astronautica, 2008, 63, 603-608.	1.7	20
15	The ICAMâ€1 expression level determines the susceptibility of human endothelial cells to simulated microgravity. Journal of Cellular Biochemistry, 2018, 119, 2875-2885.	1.2	20
16	Mechanisms of Gravitational Sensitivity of Osteogenic Precursor Cells. Acta Naturae, 2010, 2, 28-35.	1.7	19
17	Specific Interaction of Cultured Human Mesenchymal and Hemopoietic Stem Cells under Conditions of Reduced Oxygen Content. Bulletin of Experimental Biology and Medicine, 2009, 147, 525-530.	0.3	18
18	Cytoskeleton structure and adhesion properties of human stromal precursors under conditions of simulated microgravity. Cell and Tissue Biology, 2009, 3, 423-430.	0.2	18

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19	Mechanical characteristics of mesenchymal stem cells under impact of silica-based nanoparticles. Nanoscale Research Letters, 2014, 9, 284.	3.1	18
20	Tissue-Related Hypoxia Attenuates Proinflammatory Effects of Allogeneic PBMCs on Adipose-Derived Stromal CellsIn Vitro. Stem Cells International, 2016, 2016, 1-13.	1.2	18
21	Myeloid Precursors in the Bone Marrow of Mice after a 30-Day Space Mission on a Bion-M1 Biosatellite. Bulletin of Experimental Biology and Medicine, 2017, 162, 496-500.	0.3	18
22	IFNâ€gamma priming of adiposeâ€derived stromal cells at â€œphysiologicalâ€•hypoxia. Journal of Cellular Physiology, 2018, 233, 1535-1547.	2.0	18
23	Response of Adipose Tissue-Derived Stromal Cells in Tissue-Related O₂ Microenvironment to Short-Term Hypoxic Stress. Cells Tissues Organs, 2014, 200, 307-315.	1.3	17
24	Factors governing the immunosuppressive effects of multipotent mesenchymal stromal cells in vitro. Cytotechnology, 2016, 68, 565-577.	0.7	17
25	Effect of hypoxia on stromal precursors from rat bone marrow at the early stage of culturing. Bulletin of Experimental Biology and Medicine, 2007, 143, 411-413.	0.3	16
26	Low Level of O2 Inhibits Commitment of Cultured Mesenchymal Stromal Precursor Cells from the Adipose Tissue in Response to Osteogenic Stimuli. Bulletin of Experimental Biology and Medicine, 2009, 147, 760-763.	0.3	16
27	Adipose-derived stromal cell immunosuppression of T cells is enhanced under â€œphysiologicalâ€•hypoxia. Tissue and Cell, 2020, 63, 101320.	1.0	14
28	Effect of Proinflammatory Activation on F-Actin Distribution in Cultured Human Endothelial Cells under Conditions of Experimental Microgravity. Bulletin of Experimental Biology and Medicine, 2015, 158, 573-580.	0.3	13
29	Expansion of adipose tissueâ€derived stromal cells at â€œphysiologicâ€•hypoxia attenuates replicative senescence. Cell Biochemistry and Function, 2017, 35, 232-243.	1.4	13
30	The impact of oxygen in physiological regulation of human multipotent mesenchymal cell functions. Human Physiology, 2012, 38, 444-452.	0.1	12
31	Enrichment of Umbilical Cord Blood Mononuclears with Hemopoietic Precursors in Co-Culture with Mesenchymal Stromal Cells from Human Adipose Tissue. Bulletin of Experimental Biology and Medicine, 2014, 156, 584-589.	0.3	12
32	Proinflammatory interleukins' production by adipose tissueâ€derived mesenchymal stromal cells: the impact of cell culture conditions and cellâ€toâ€cell interaction. Cell Biochemistry and Function, 2015, 33, 385-392.	1.4	12
33	Human Adipose-Tissue Derived Stromal Cells in Combination with Hypoxia Effectively Support Ex Vivo Expansion of Cord Blood Haematopoietic Progenitors. PLoS ONE, 2015, 10, e0124939.	1.1	12
34	Acute Hypoxic Stress Affects Migration Machinery of Tissue O₂-Adapted Adipose Stromal Cells. Stem Cells International, 2016, 2016, 1-16.	1.2	12
35	Expression of focal adhesion genes in mesenchymal stem cells under simulated microgravity. Doklady Biochemistry and Biophysics, 2017, 477, 354-356.	0.3	12
36	Alteration of Hypoxia-Associated Gene Expression in Replicatively Senescent Mesenchymal Stromal Cells under Physiological Oxygen Level. Biochemistry (Moscow), 2019, 84, 263-271.	0.7	12

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37	Ex Vivo Expansion of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood. Acta Naturae, 2016, 8, 6-16.	1.7	12
38	Mechanisms of gravitational sensitivity of osteogenic precursor cells. Acta Naturae, 2010, 2, 28-36.	1.7	12
39	Mechanisms of regulation of transcription factor HIF under hypoxia. Biochemistry (Moscow), 2010, 75, 151-158.	0.7	11
40	Transcriptomic changes in human umbilical cord blood endothelial cells under simulated microgravity. Doklady Biochemistry and Biophysics, 2017, 472, 1-4.	0.3	11
41	Effect of 30-Day Hindlimb Unloading and Hypergravity on Bone Marrow Stromal Progenitors in C57Bl/6N Mice. Bulletin of Experimental Biology and Medicine, 2018, 166, 130-134.	0.3	11
42	Microgravity Effects on the Matrisome. Cells, 2021, 10, 2226.	1.8	11
43	Cell interactions in microgravity: cytotoxic effects of natural killer cells in vitro. Journal of Gravitational Physiology: A Journal of the International Society for Gravitational Physiology, 2004, 11, P177-80.	0.0	11
44	Human MMSC immunosuppressive activity at low oxygen tension: Direct cell-to-cell contacts and paracrine regulation. Human Physiology, 2013, 39, 136-146.	0.1	10
45	Interaction of human mesenhymal stromal with immune cells. Human Physiology, 2010, 36, 590-598.	0.1	9
46	Subpopulation Composition and Activation of T Lymphocytes during Coculturing with Mesenchymal Stromal Cells in Medium with Different O2 Content. Bulletin of Experimental Biology and Medicine, 2011, 151, 344-346.	0.3	9
47	Simple Method of Specimen Preparation for Scanning Electron Microscopy. Bulletin of Experimental Biology and Medicine, 2011, 151, 378-382.	0.3	9
48	Comparison of Mitochondrial Fluorescent Dyes in Stromal Cells. Bulletin of Experimental Biology and Medicine, 2014, 157, 654-658.	0.3	9
49	Gravisensitivity of endothelial cells: the role of cytoskeleton and adhesion molecules. Human Physiology, 2016, 42, 687-693.	0.1	9
50	Stromal and Hematopoietic Progenitors from C57/Bl/6N Murine Bone Marrow After 30-Day â€œBION-M1â€• Spaceflight. Stem Cells and Development, 2018, 27, 1268-1277.	1.1	9
51	Interaction of allogeneic adipose tissue-derived stromal cells and unstimulated immune cells in vitro: the impact of cell-to-cell contact and hypoxia in the local milieu. Cytotechnology, 2018, 70, 299-312.	0.7	9
52	Molecular genetic features of human mesenchymal stem cells after their osteogenic differentiation under the conditions of microgravity. Human Physiology, 2013, 39, 540-544.	0.1	8
53	Heterogenecity of stromal cell precursers isolated from rat bone marrow. Cell and Tissue Biology, 2007, 1, 1-7.	0.2	7
54	Paracrine activity of multipotent mesenchymal stromal cells and its modulation in hypoxia. Human Physiology, 2013, 39, 315-322.	0.1	7

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55	Expression of HIF-1Î± in Multipotent Mesenchymal Stromal Cells under Hypoxic Conditions. Bulletin of Experimental Biology and Medicine, 2015, 159, 355-357.	0.3	7
56	Simulated microgravity modulates the mesenchymal stromal cell response to inflammatory stimulation. Scientific Reports, 2019, 9, 9279.	1.6	7
57	Reciprocal modulation of cell functions upon direct interaction of adipose mesenchymal stromal and activated immune cells. Cell Biochemistry and Function, 2019, 37, 228-238.	1.4	7
58	Hematopoiesis-supportive function of growth-arrested human adipose-tissue stromal cells under physiological hypoxia. Journal of Bioscience and Bioengineering, 2019, 127, 647-654.	1.1	7
59	Extracellular Matrix Proteins and Transcription of Matrix-Associated Genes in Mesenchymal Stromal Cells during Modeling of the Effects of Microgravity. Bulletin of Experimental Biology and Medicine, 2020, 170, 230-232.	0.3	7
60	Immunosuppressive Effects of Multipotent Mesenchymal Stromal Cells in Cultures with Different O2 Content in the Medium. Bulletin of Experimental Biology and Medicine, 2011, 151, 526-529.	0.3	6
61	Age-Related Differences in Rat Multipotent Mesenchymal Stromal Bone Marrow Cells. Bulletin of Experimental Biology and Medicine, 2013, 155, 129-133.	0.3	6
62	Evaluation of committed and primitive cord blood progenitors after expansion on adipose stromal cells. Cell and Tissue Research, 2018, 372, 523-533.	1.5	6
63	Endothelial Cells Modulate Differentiation Potential and Mobility of Mesenchymal Stromal Cells. Bulletin of Experimental Biology and Medicine, 2018, 165, 127-131.	0.3	6
64	Secretome of Cultured Human Endothelial Cells in Simulated Microgravity. Bulletin of Experimental Biology and Medicine, 2019, 167, 35-38.	0.3	6
65	Resistance of Rat Bone Marrow Mesenchymal Stromal Precursor Cells to Anoxia In Vitro. Bulletin of Experimental Biology and Medicine, 2009, 148, 148-151.	0.3	5
66	Problems of the gravitational physiology of a cell. Human Physiology, 2010, 36, 746-753.	0.1	5
67	In Vitro Study of Interactions between Silicon-Containing Nanoparticles and Human Peripheral Blood Leukocytes. Bulletin of Experimental Biology and Medicine, 2013, 155, 396-398.	0.3	5
68	The Role of Interplay of Mesenchymal Stromal Cells and Macrophages in Physiological and Reparative Tissue Remodeling. Human Physiology, 2018, 44, 102-114.	0.1	5
69	The Effects of Radiation and Hindlimb Unloading on Rat Bone Marrow Progenitor Cells. Cell and Tissue Biology, 2018, 12, 183-196.	0.2	5
70	Replicative Senescence and Expression of Autophagy Genes in Mesenchymal Stromal Cells. Biochemistry (Moscow), 2020, 85, 1169-1177.	0.7	5
71	Simulated Microgravity Remodels Extracellular Matrix of Osteocommitted Mesenchymal Stromal Cells. International Journal of Molecular Sciences, 2021, 22, 5428.	1.8	5
72	The effects of synthesized analogs of vasotocin on water and ion excretion by the rat and monkey kidneys. Doklady Biological Sciences, 2006, 406, 11-13.	0.2	4

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73	Effects of space flights on human allergic status (IgE-mediated sensitivity). Acta Astronautica, 2007, 60, 254-258.	1.7	4
74	The effect of microgravity on thein vitro NK cell function during six International Space Station Missions. Microgravity Science and Technology, 2007, 19, 145-147.	0.7	4
75	Cytotoxic activity of natural killer cells in vitro under microgravity. Doklady Biological Sciences, 2008, 421, 275-277.	0.2	4
76	Sensitivity of stromal precursor cells of different commitment to simulated microgravity. Doklady Biological Sciences, 2010, 432, 237-240.	0.2	4
77	Etoposide and Hypoxia Do Not Activate Apoptosis of Multipotent Mesenchymal Stromal Cells In Vitro. Bulletin of Experimental Biology and Medicine, 2012, 154, 141-144.	0.3	4
78	Long-term expansion of multipotent mesenchymal stromal cells under reduced oxygen tension. Cell and Tissue Biology, 2014, 8, 107-114.	0.2	4
79	The Differential Expression of Adhesion Molecule and Extracellular Matrix Genes in Mesenchymal Stromal Cells after Interaction with Cord Blood Hematopoietic Progenitors. Doklady Biochemistry and Biophysics, 2018, 479, 69-71.	0.3	4
80	Ex Vivo Expansion of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood. Acta Naturae, 2016, 8, 6-16.	1.7	4
81	Fatty acid composition of plasma lipids and erythrocyte membranes during simulated extravehicular activity. Acta Astronautica, 1998, 43, 77-86.	1.7	3
82	Serum levels of immunoglobulins, allergen-specific IgE antibodies, and interleukin-4 in cosmonauts before and after short flights on the International Space Station. Human Physiology, 2006, 32, 457-460.	0.1	3
83	Effects of various hyperbaric gas mixtures on metabolic parameters of human blood. Human Physiology, 2007, 33, 603-613.	0.1	3
84	Effects of hypoxic gas mixtures on viability, expression of adhesion molecules, migration, and synthesis of interleukins by cultured human endothelial cells. Bulletin of Experimental Biology and Medicine, 2007, 144, 130-135.	0.3	3
85	Changes in the higher fatty acid composition of blood plasma and erythrocyte membranes during long exposure of a human to hyperbaric gas medium. Human Physiology, 2009, 35, 442-448.	0.1	3
86	Modification of silicon nanoparticle surface with gold or silver attenuates its biocompatibility in vitro. Cell and Tissue Biology, 2014, 8, 384-388.	0.2	3
87	Hypoxic stress as an activation trigger of multipotent mesenchymal stromal cells. Human Physiology, 2015, 41, 218-222.	0.1	3
88	Immobilized phthalocyanines of magnesium, aluminum, and zinc in photodynamic treatment of mesenchymal stromal cells. Russian Chemical Bulletin, 2016, 65, 277-281.	0.4	3
89	Secretory Activity of Mesenchymal Stromal Cells with Different Degree of Commitment under Conditions of Simulated Microgravity. Bulletin of Experimental Biology and Medicine, 2021, 170, 560-564.	0.3	3
90	Education programme on aerospace and environmental medicine for medical faculty of Lomonosov Moscow State University. Advances in Space Research, 1997, 20, 1397-1399.	1.2	2

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91	Effects of microgravity simulation on the production of interleukins in culture of human mesenchymal stromal cells. Human Physiology, 2011, 37, 860-865.	0.1	2
92	Effects of photodynamic treatment on mesenchymal stromal cells. Doklady Biological Sciences, 2013, 450, 185-188.	0.2	2
93	Expression of hypoxia-associated genes in multipotent mesenchymal stromal cells during long-term cultivation at low oxygen. Doklady Biological Sciences, 2014, 458, 310-312.	0.2	2
94	Photophysical properties and photodynamic activity of nanostructured aluminum phthalocyanines. Biophysics (Russian Federation), 2014, 59, 854-860.	0.2	2
95	In vitro evaluation of crystalline silicon nanoparticles cytotoxicity. Biophysics (Russian Federation), 2014, 59, 105-109.	0.2	2
96	Expression of senescence-associated genes in multipotent mesenchymal stromal cells during long-term cultivation at various hypoxic levels. Doklady Biochemistry and Biophysics, 2016, 470, 326-328.	0.3	2
97	Adipose tissue-derived stromal cells retain immunosuppressive and angiogenic activity after coculture with cord blood hematopoietic precursors. European Journal of Cell Biology, 2020, 99, 151069.	1.6	2
98	Cell Senescence and Mesenchymal Stromal Cells. Human Physiology, 2020, 46, 85-93.	0.1	2
99	Proteomic profile of cultured human endothelial cells after exposition to simulated microgravity. Acta Astronautica, 2021, 179, 11-19.	1.7	2
100	Ðjord blood hematopoietic stem cells ex vivo enhance the bipotential commitment of adipose mesenchymal stromal progenitors. Life Sciences, 2021, 268, 118970.	2.0	2
101	Osteogenic Commitment of MSC Is Enhanced after Interaction with Umbilical Cord Blood Mononuclear Cells In Vitro. Bulletin of Experimental Biology and Medicine, 2021, 171, 541-546.	0.3	2
102	Crosstalk of Endothelial and Mesenchymal Stromal Cells under Tissue-Related O2. International Journal of Translational Medicine, 2021, 1, 116-136.	0.1	2
103	Susceptibility of Healthy Volunteersâ€™ Adaptive Immune Cells to MSC-Mediated Immunomodulation in Long-Term â€œDryâ€•Immersion Experiment. Human Physiology, 2022, 48, 152-160.	0.1	2
104	Influence of clinorotation on embryoid body morphology. Cell and Tissue Biology, 2009, 3, 532-537.	0.2	1
105	Metal-free Phtalocyanine and 5-Aminolevulenic Acid in Photodynamic Treatment of Human Vascular Cells. , 2010, , .		1
106	Low-Fluence Photodynamic Treatment Modifies Functional Properties of Vascular Cell Wall. Bulletin of Experimental Biology and Medicine, 2011, 151, 521-525.	0.3	1
107	Immunophenotype of human lymphocytes after interaction with mesenchymal stromal cells. Human Physiology, 2013, 39, 530-534.	0.1	1
108	The effect of stromal cells and oxygen concentration on maintenance of cord blood hematopoietic precursors. Cell and Tissue Biology, 2015, 9, 341-347.	0.2	1

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109	Anoxia resistance of cultured multipotent mesenchymal stromal cells from adipose tissue. Cell and Tissue Biology, 2015, 9, 79-86.	0.2	1
110	Differential Expression of Bipotent Commitment-Related Genes in Multipotent Mesenchymal Stromal Cells at Different O2 Levels. Doklady Biochemistry and Biophysics, 2020, 491, 67-69.	0.3	1
111	Characteristics of Bone Marrow Progenitor Cells of C57BL/6N Mice after 30-Day Hindlimb Suspension and 12-Hour Readaptation to Support Loading. Cell and Tissue Biology, 2020, 14, 91-101.	0.2	1
112	Immunosuppressive and Hematopoiesis-Supporting Properties of Stromal Cells at Low Oxygen. American Journal of Biomedical Research, 2013, 1, 7-12.	0.2	1
113	Short-term reloading after prolonged unloading ensures restoration of stromal but not hematopoietic precursor activity in tibia bone marrow of C57Bl/6N mice. Stem Cells and Development, 2021, , .	1.1	1
114	Simulated Microgravity Affects the TNF-Î±-Induced Interleukin Profile of Endothelial Cells Depending on the Initial ICAM-1 Expression. Microgravity Science and Technology, 2022, 34, 1.	0.7	1
115	Renin-Aldosterone System in Osmoregulatory Reactions of Healthy Subjects in Response to Desmopressin. Human Physiology, 2005, 31, 592-598.	0.1	0
116	Analysis of antidiuretic effect of arginine-vasotocin and its analogs in primates. Bulletin of Experimental Biology and Medicine, 2006, 142, 714-716.	0.3	0
117	Accumulation and Elimination of Photosens and Protoporphyrin IX by Different Types of Mesenchymal Cells. Bulletin of Experimental Biology and Medicine, 2013, 155, 568-571.	0.3	0
118	Expression of Adhesion Molecules in Activated Endothelium after Interaction with Mesenchymal Stromal Cells. Bulletin of Experimental Biology and Medicine, 2018, 164, 453-455.	0.3	0
119	The Resistance of Multipotent Mesenchymal Stromal Cells to the Effect of Glucose Deprivation under Conditions of a Reduced Oxygen Content. Biophysics (Russian Federation), 2018, 63, 381-386.	0.2	0
120	Combined Effects of Irradiation and Hindlimb Suspension on Erythroid Lineage Precursors from Rat Bone Marrow. Bulletin of Experimental Biology and Medicine, 2020, 168, 517-520.	0.3	0
121	FUNCTIONAL STATE OF MULTIPOTENT MESENCHYMAL STROMAL CELLS DURING MODELING THE EFFECTS OF MICROGRAVITY. Aerospace and Environmental Medicine, 2016, 50, 24-29.	0.0	0