

Ludmila B Buravkova

List of Publications by Citations

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117
papers

1,124
citations

16
h-index

28
g-index

134
ext. papers

1,323
ext. citations

1.7
avg, IF

4.64
L-index

#	Paper	IF	Citations
117	Mesenchymal stem cells from human bone marrow and adipose tissue: isolation, characterization, and differentiation potentialities. <i>Bulletin of Experimental Biology and Medicine</i> , 2005 , 140, 138-43	0.8	126
116	Mesenchymal stem cells and hypoxia: where are we?. <i>Mitochondrion</i> , 2014 , 19 Pt A, 105-12	4.9	82
115	The role of cytoskeleton in cell changes under condition of simulated microgravity. <i>Acta Astronautica</i> , 2001 , 48, 647-50	2.9	48
114	Cell-to-cell interactions in changed gravity: ground-based and flight experiments. <i>Acta Astronautica</i> , 2005 , 57, 67-74	2.9	45
113	Low ATP level is sufficient to maintain the uncommitted state of multipotent mesenchymal stem cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4418-25	4	39
112	Characteristics of human lipoaspirate-isolated mesenchymal stromal cells cultivated under lower oxygen tension. <i>Cell and Tissue Biology</i> , 2009 , 3, 23-28	0.4	32
111	Magnetic levitational bioassembly of 3D tissue construct in space. <i>Science Advances</i> , 2020 , 6, eaba4174	14.3	29
110	Interaction of multipotent mesenchymal stromal and immune cells: Bidirectional effects. <i>Cytotherapy</i> , 2017 , 19, 1152-1166	4.8	26
109	Morphofunctional status and osteogenic differentiation potential of human mesenchymal stromal precursor cells during in vitro modeling of microgravity effects. <i>Bulletin of Experimental Biology and Medicine</i> , 2007 , 144, 608-13	0.8	23
108	Secretome of Senescent Adipose-Derived Mesenchymal Stem Cells Negatively Regulates Angiogenesis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	21
107	Angiogenic Activity of Human Adipose-Derived Mesenchymal Stem Cells Under Simulated Microgravity. <i>Stem Cells and Development</i> , 2018 , 27, 831-837	4.4	19
106	Cultured stem cells are sensitive to gravity changes. <i>Acta Astronautica</i> , 2008 , 63, 603-608	2.9	19
105	Response of Adipose Tissue-Derived Stromal Cells in Tissue-Related O ₂ Microenvironment to Short-Term Hypoxic Stress. <i>Cells Tissues Organs</i> , 2015 , 200, 307-15	2.1	17
104	The ICAM-1 expression level determines the susceptibility of human endothelial cells to simulated microgravity. <i>Journal of Cellular Biochemistry</i> , 2018 , 119, 2875-2885	4.7	16
103	Cytoskeleton structure and adhesion properties of human stromal precursors under conditions of simulated microgravity. <i>Cell and Tissue Biology</i> , 2009 , 3, 423-430	0.4	16
102	Effect of hypoxia on stromal precursors from rat bone marrow at the early stage of culturing. <i>Bulletin of Experimental Biology and Medicine</i> , 2007 , 143, 411-3	0.8	15
101	Myeloid Precursors in the Bone Marrow of Mice after a 30-Day Space Mission on a Bion-M1 Biosatellite. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 162, 496-500	0.8	14

100	Specific interaction of cultured human mesenchymal and hemopoietic stem cells under conditions of reduced oxygen content. <i>Bulletin of Experimental Biology and Medicine</i> , 2009 , 147, 525-30	0.8	14
99	Low level of O ₂ inhibits commitment of cultured mesenchymal stromal precursor cells from the adipose tissue in response to osteogenic stimuli. <i>Bulletin of Experimental Biology and Medicine</i> , 2009 , 147, 760-3	0.8	14
98	IFN-gamma priming of adipose-derived stromal cells at "physiological" hypoxia. <i>Journal of Cellular Physiology</i> , 2018 , 233, 1535-1547	7	13
97	Mechanical characteristics of mesenchymal stem cells under impact of silica-based nanoparticles. <i>Nanoscale Research Letters</i> , 2014 , 9, 284	5	13
96	Mechanisms of Gravitational Sensitivity of Osteogenic Precursor Cells. <i>Acta Naturae</i> , 2010 , 2, 28-35	2.1	13
95	Effect of proinflammatory activation on F-actin distribution in cultured human endothelial cells under conditions of experimental microgravity. <i>Bulletin of Experimental Biology and Medicine</i> , 2015 , 158, 573-80	0.8	12
94	Factors governing the immunosuppressive effects of multipotent mesenchymal stromal cells in vitro. <i>Cytotechnology</i> , 2016 , 68, 565-77	2.2	11
93	Transcriptomic changes in human umbilical cord blood endothelial cells under simulated microgravity. <i>Doklady Biochemistry and Biophysics</i> , 2017 , 472, 1-4	0.8	11
92	Expansion of adipose tissue-derived stromal cells at "physiologic" hypoxia attenuates replicative senescence. <i>Cell Biochemistry and Function</i> , 2017 , 35, 232-243	4.2	11
91	Human adipose-tissue derived stromal cells in combination with hypoxia effectively support ex vivo expansion of cord blood haematopoietic progenitors. <i>PLoS ONE</i> , 2014 , 10, e0124939	3.7	11
90	Ex Vivo Expansion of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood. <i>Acta Naturae</i> , 2016 , 8, 6-16	2.1	11
89	Tissue-Related Hypoxia Attenuates Proinflammatory Effects of Allogeneic PBMCs on Adipose-Derived Stromal Cells In Vitro. <i>Stem Cells International</i> , 2016 , 2016, 4726267	5	11
88	Acute Hypoxic Stress Affects Migration Machinery of Tissue O-Adapted Adipose Stromal Cells. <i>Stem Cells International</i> , 2016 , 2016, 7260562	5	10
87	Cell interactions in microgravity: cytotoxic effects of natural killer cells in vitro. <i>Journal of Gravitational Physiology: A Journal of the International Society for Gravitational Physiology</i> , 2004 , 11, P177-80		10
86	Gravisensitivity of endothelial cells: the role of cytoskeleton and adhesion molecules. <i>Human Physiology</i> , 2016 , 42, 687-693	0.3	9
85	Enrichment of umbilical cord blood mononuclears with hemopoietic precursors in co-culture with mesenchymal stromal cells from human adipose tissue. <i>Bulletin of Experimental Biology and Medicine</i> , 2014 , 156, 584-9	0.8	9
84	The impact of oxygen in physiological regulation of human multipotent mesenchymal cell functions. <i>Human Physiology</i> , 2012 , 38, 444-452	0.3	9
83	Interaction of human mesenchymal stromal with immune cells. <i>Human Physiology</i> , 2010 , 36, 590-598	0.3	9

82	Mechanisms of gravitational sensitivity of osteogenic precursor cells. <i>Acta Naturae</i> , 2010 , 2, 28-36	2.1	9
81	Low-dose photodynamic therapy promotes angiogenic potential and increases immunogenicity of human mesenchymal stromal cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 199, 111596	6.7	8
80	Alteration of Hypoxia-Associated Gene Expression in Replicatively Senescent Mesenchymal Stromal Cells under Physiological Oxygen Level. <i>Biochemistry (Moscow)</i> , 2019 , 84, 263-271	2.9	8
79	Expression of focal adhesion genes in mesenchymal stem cells under simulated microgravity. <i>Doklady Biochemistry and Biophysics</i> , 2017 , 477, 354-356	0.8	8
78	Human MMSC immunosuppressive activity at low oxygen tension: Direct cell-to-cell contacts and paracrine regulation. <i>Human Physiology</i> , 2013 , 39, 136-146	0.3	8
77	Simple method of specimen preparation for scanning electron microscopy. <i>Bulletin of Experimental Biology and Medicine</i> , 2011 , 151, 378-82	0.8	8
76	Mechanisms of regulation of transcription factor HIF under hypoxia. <i>Biochemistry (Moscow)</i> , 2010 , 75, 151-8	2.9	8
75	Molecular genetic features of human mesenchymal stem cells after their osteogenic differentiation under the conditions of microgravity. <i>Human Physiology</i> , 2013 , 39, 540-544	0.3	7
74	Proinflammatory interleukins' production by adipose tissue-derived mesenchymal stromal cells: the impact of cell culture conditions and cell-to-cell interaction. <i>Cell Biochemistry and Function</i> , 2015 , 33, 386-93	4.2	7
73	Subpopulation composition and activation of T lymphocytes during coculturing with mesenchymal stromal cells in medium with different O(2) content. <i>Bulletin of Experimental Biology and Medicine</i> , 2011 , 151, 344-6	0.8	7
72	Hematopoiesis-supportive function of growth-arrested human adipose-tissue stromal cells under physiological hypoxia. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 127, 647-654	3.3	7
71	Effect of 30-Day Hindlimb Unloading and Hypergravity on Bone Marrow Stromal Progenitors in C57Bl/6N Mice. <i>Bulletin of Experimental Biology and Medicine</i> , 2018 , 166, 130-134	0.8	7
70	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. <i>Cytotechnology</i> , 2018 , 70, 299-312 ^{2.2}	2.2	6
69	Age-related differences in rat multipotent mesenchymal stromal bone marrow cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2013 , 155, 129-33	0.8	6
68	Expression of HIF-1 α in Multipotent Mesenchymal Stromal Cells under Hypoxic Conditions. <i>Bulletin of Experimental Biology and Medicine</i> , 2015 , 159, 355-7	0.8	6
67	WNT-associated gene expression in human mesenchymal stromal cells under hypoxic stress. <i>Doklady Biochemistry and Biophysics</i> , 2015 , 465, 354-7	0.8	6
66	Reciprocal modulation of cell functions upon direct interaction of adipose mesenchymal stromal and activated immune cells. <i>Cell Biochemistry and Function</i> , 2019 , 37, 228-238	4.2	5
65	Evaluation of committed and primitive cord blood progenitors after expansion on adipose stromal cells. <i>Cell and Tissue Research</i> , 2018 , 372, 523-533	4.2	5

64	Paracrine activity of multipotent mesenchymal stromal cells and its modulation in hypoxia. <i>Human Physiology</i> , 2013 , 39, 315-322	0.3	5
63	Immunosuppressive effects of multipotent mesenchymal stromal cells in cultures with different O2 content in the medium. <i>Bulletin of Experimental Biology and Medicine</i> , 2011 , 151, 526-9	0.8	5
62	Heterogeneity of stromal cell precursors isolated from rat bone marrow. <i>Cell and Tissue Biology</i> , 2007 , 1, 1-7	0.4	5
61	Endothelial Cells Modulate Differentiation Potential and Mobility of Mesenchymal Stromal Cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2018 , 165, 127-131	0.8	5
60	The Role of Interplay of Mesenchymal Stromal Cells and Macrophages in Physiological and Reparative Tissue Remodeling. <i>Human Physiology</i> , 2018 , 44, 102-114	0.3	4
59	In vitro study of interactions between silicon-containing nanoparticles and human peripheral blood leukocytes. <i>Bulletin of Experimental Biology and Medicine</i> , 2013 , 155, 396-8	0.8	4
58	Comparison of mitochondrial fluorescent dyes in stromal cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2014 , 157, 654-8	0.8	4
57	Resistance of rat bone marrow mesenchymal stromal precursor cells to anoxia in vitro. <i>Bulletin of Experimental Biology and Medicine</i> , 2009 , 148, 148-51	0.8	4
56	Problems of the gravitational physiology of a cell. <i>Human Physiology</i> , 2010 , 36, 746-753	0.3	4
55	Effects of space flights on human allergic status (IgE-mediated sensitivity). <i>Acta Astronautica</i> , 2007 , 60, 254-258	2.9	4
54	The effects of synthesized analogs of vasotocin on water and ion excretion by the rat and monkey kidneys. <i>Doklady Biological Sciences</i> , 2006 , 406, 11-3	0.9	4
53	Ex Vivo Expansion of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood. <i>Acta Naturae</i> , 2016 , 8, 6-16	2.1	4
52	Stromal and Hematopoietic Progenitors from C57/Bl/6N Murine Bone Marrow After 30-Day "BION-M1" Spaceflight. <i>Stem Cells and Development</i> , 2018 , 27, 1268-1277	4.4	3
51	Secretome of Cultured Human Endothelial Cells in Simulated Microgravity. <i>Bulletin of Experimental Biology and Medicine</i> , 2019 , 167, 35-38	0.8	3
50	Long-term expansion of multipotent mesenchymal stromal cells under reduced oxygen tension. <i>Cell and Tissue Biology</i> , 2014 , 8, 107-114	0.4	3
49	Etoposide and hypoxia do not activate apoptosis of multipotent mesenchymal stromal cells in vitro. <i>Bulletin of Experimental Biology and Medicine</i> , 2012 , 154, 141-4	0.8	3
48	Sensitivity of stromal precursor cells of different commitment to simulated microgravity. <i>Doklady Biological Sciences</i> , 2010 , 432, 237-40	0.9	3
47	Changes in the higher fatty acid composition of blood plasma and erythrocyte membranes during long exposure of a human to hyperbaric gas medium. <i>Human Physiology</i> , 2009 , 35, 442-448	0.3	3

46	Fatty acid composition of plasma lipids and erythrocyte membranes during simulated extravehicular activity. <i>Acta Astronautica</i> , 1998 , 43, 77-86	2.9	3
45	Effects of various hyperbaric gas mixtures on metabolic parameters of human blood. <i>Human Physiology</i> , 2007 , 33, 603-613	0.3	3
44	The effect of microgravity on their vitro NK cell function during six International Space Station Missions. <i>Microgravity Science and Technology</i> , 2007 , 19, 145-147	1.6	3
43	The Effects of Radiation and Hindlimb Unloading on Rat Bone Marrow Progenitor Cells. <i>Cell and Tissue Biology</i> , 2018 , 12, 183-196	0.4	3
42	The Differential Expression of Adhesion Molecule and Extracellular Matrix Genes in Mesenchymal Stromal Cells after Interaction with Cord Blood Hematopoietic Progenitors. <i>Doklady Biochemistry and Biophysics</i> , 2018 , 479, 69-71	0.8	3
41	Hypoxic stress as an activation trigger of multipotent mesenchymal stromal cells. <i>Human Physiology</i> , 2015 , 41, 218-222	0.3	2
40	Extracellular Matrix Proteins and Transcription of Matrix-Associated Genes in Mesenchymal Stromal Cells during Modeling of the Effects of Microgravity. <i>Bulletin of Experimental Biology and Medicine</i> , 2020 , 170, 230-232	0.8	2
39	Immobilized phthalocyanines of magnesium, aluminum, and zinc in photodynamic treatment of mesenchymal stromal cells. <i>Russian Chemical Bulletin</i> , 2016 , 65, 277-281	1.7	2
38	Simulated microgravity modulates the mesenchymal stromal cell response to inflammatory stimulation. <i>Scientific Reports</i> , 2019 , 9, 9279	4.9	2
37	In vitro evaluation of crystalline silicon nanoparticles cytotoxicity. <i>Biophysics (Russian Federation)</i> , 2014 , 59, 105-109	0.7	2
36	Effects of photodynamic treatment on mesenchymal stromal cells. <i>Doklady Biological Sciences</i> , 2013 , 450, 185-8	0.9	2
35	Expression of hypoxia-associated genes in multipotent mesenchymal stromal cells during long-term cultivation at low oxygen. <i>Doklady Biological Sciences</i> , 2014 , 458, 310-2	0.9	2
34	Modification of silicon nanoparticle surface with gold or silver attenuates its biocompatibility in vitro. <i>Cell and Tissue Biology</i> , 2014 , 8, 384-388	0.4	2
33	Education programme on aerospace and environmental medicine for medical faculty of Lomonosov Moscow State University. <i>Advances in Space Research</i> , 1997 , 20, 1397-9	2.4	2
32	Effects of hypoxic gas mixtures on viability, expression of adhesion molecules, migration, and synthesis of interleukins by cultured human endothelial cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2007 , 144, 130-5	0.8	2
31	Adipose-derived stromal cell immunosuppression of T cells is enhanced under "physiological" hypoxia. <i>Tissue and Cell</i> , 2020 , 63, 101320	2.7	2
30	Anoxia resistance of cultured multipotent mesenchymal stromal cells from adipose tissue. <i>Cell and Tissue Biology</i> , 2015 , 9, 79-86	0.4	1
29	Adipose tissue-derived stromal cells retain immunosuppressive and angiogenic activity after coculture with cord blood hematopoietic precursors. <i>European Journal of Cell Biology</i> , 2020 , 99, 151069	6.1	1

28	Expression of senescence-associated genes in multipotent mesenchymal stromal cells during long-term cultivation at various hypoxic levels. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 470, 326-328	0.8	1
27	Immunophenotype of human lymphocytes after interaction with mesenchymal stromal cells. <i>Human Physiology</i> , 2013 , 39, 530-534	0.3	1
26	The effect of stromal cells and oxygen concentration on maintenance of cord blood hematopoietic precursors. <i>Cell and Tissue Biology</i> , 2015 , 9, 341-347	0.4	1
25	Photophysical properties and photodynamic activity of nanostructured aluminum phthalocyanines. <i>Biophysics (Russian Federation)</i> , 2014 , 59, 854-860	0.7	1
24	Effects of microgravity simulation on the production of interleukins in culture of human mesenchymal stromal cells. <i>Human Physiology</i> , 2011 , 37, 860-865	0.3	1
23	Low-fluence photodynamic treatment modifies functional properties of vascular cell wall. <i>Bulletin of Experimental Biology and Medicine</i> , 2011 , 151, 521-5	0.8	1
22	Influence of clinorotation on embryoid body morphology. <i>Cell and Tissue Biology</i> , 2009 , 3, 532-537	0.4	1
21	Metal-free Phtalocyanine and 5-Aminolevulenic Acid in Photodynamic Treatment of Human Vascular Cells 2010 ,		1
20	Cytotoxic activity of natural killer cells in vitro under microgravity. <i>Doklady Biological Sciences</i> , 2008 , 421, 275-7	0.9	1
19	Serum levels of immunoglobulins, allergen-specific IgE antibodies, and interleukin-4 in cosmonauts before and after short flights on the International Space Station. <i>Human Physiology</i> , 2006 , 32, 457-460	0.3	1
18	Immunosuppressive and Hematopoiesis-Supporting Properties of Stromal Cells at Low Oxygen. <i>American Journal of Biomedical Research</i> , 2013 , 1, 7-12	0	1
17	Proteomic profile of cultured human endothelial cells after exposition to simulated microgravity. <i>Acta Astronautica</i> , 2021 , 179, 11-19	2.9	1
16	Differential Expression of Bipotent Commitment-Related Genes in Multipotent Mesenchymal Stromal Cells at Different O Levels. <i>Doklady Biochemistry and Biophysics</i> , 2020 , 491, 67-69	0.8	0
15	Replicative Senescence and Expression of Autophagy Genes in Mesenchymal Stromal Cells. <i>Biochemistry (Moscow)</i> , 2020 , 85, 1169-1177	2.9	0
14	Ord blood hematopoietic stem cells ex vivo enhance the bipotential commitment of adipose mesenchymal stromal progenitors. <i>Life Sciences</i> , 2021 , 268, 118970	6.8	0
13	Secretory Activity of Mesenchymal Stromal Cells with Different Degree of Commitment under Conditions of Simulated Microgravity. <i>Bulletin of Experimental Biology and Medicine</i> , 2021 , 170, 560-564	0.8	0
12	Osteogenic Commitment of MSC Is Enhanced after Interaction with Umbilical Cord Blood Mononuclear Cells In Vitro. <i>Bulletin of Experimental Biology and Medicine</i> , 2021 , 171, 541-546	0.8	0
11	Crosstalk of Endothelial and Mesenchymal Stromal Cells under Tissue-Related O2. <i>International Journal of Translational Medicine</i> , 2021 , 1, 116-136		0

10	Combined Effects of Irradiation and Hindlimb Suspension on Erythroid Lineage Precursors from Rat Bone Marrow. <i>Bulletin of Experimental Biology and Medicine</i> , 2020 , 168, 517-520	0.8
9	Cell Senescence and Mesenchymal Stromal Cells. <i>Human Physiology</i> , 2020 , 46, 85-93	0.3
8	Expression of Adhesion Molecules in Activated Endothelium after Interaction with Mesenchymal Stromal Cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2018 , 164, 453-455	0.8
7	The Resistance of Multipotent Mesenchymal Stromal Cells to the Effect of Glucose Deprivation under Conditions of a Reduced Oxygen Content. <i>Biophysics (Russian Federation)</i> , 2018 , 63, 381-386	0.7
6	Accumulation and elimination of photosens and protoporphyrin IX by different types of mesenchymal cells. <i>Bulletin of Experimental Biology and Medicine</i> , 2013 , 155, 568-71	0.8
5	Analysis of antidiuretic effect of arginine-vasotocin and its analogs in primates. <i>Bulletin of Experimental Biology and Medicine</i> , 2006 , 142, 714-6	0.8
4	Renin-Aldosterone System in Osmoregulatory Reactions of Healthy Subjects in Response to Desmopressin. <i>Human Physiology</i> , 2005 , 31, 592-598	0.3
3	Characteristics of Bone Marrow Progenitor Cells of C57BL/6N Mice after 30-Day Hindlimb Suspension and 12-Hour Readaptation to Support Loading. <i>Cell and Tissue Biology</i> , 2020 , 14, 91-101	0.4
2	Simulated Microgravity Affects the TNF- α -Induced Interleukin Profile of Endothelial Cells Depending on the Initial ICAM-1 Expression. <i>Microgravity Science and Technology</i> , 2022 , 34, 1	1.6
1	Susceptibility of Healthy Volunteers' Adaptive Immune Cells to MSC-Mediated Immunomodulation in Long-Term Dry-Immersion Experiment. <i>Human Physiology</i> , 2022 , 48, 152-160	0.3