Ludmila B Buravkova

List of Publications by Year in Descending Order

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	Simulated Microgravity Affects the TNF-Induced Interleukin Profile of Endothelial Cells Depending on the Initial ICAM-1 Expression. *Microgravity Science and Technology*, **2022**, 34, 1	1.6	
116	Susceptibility of Healthy Volunteers Adaptive Immune Cells to MSC-Mediated Immunomodulation in Long-Term Dry Immersion Experiment. *Human Physiology*, **2022**, 48, 152-160	0.3	
115	rd blood hematopoietic stem cells ex vivo enhance the bipotential commitment of adipose mesenchymal stromal progenitors. *Life Sciences*, **2021**, 268, 118970	6.8	0
114	Proteomic profile of cultured human endothelial cells after exposition to simulated microgravity. *Acta Astronautica*, **2021**, 179, 11-19	2.9	1
113	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	0.8	0
112	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	0.8	0
111	Crosstalk of Endothelial and Mesenchymal Stromal Cells under Tissue-Related O2. *International Journal of Translational Medicine*, **2021**, 1, 116-136		0
110	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	0.8	2
109	Secretome of Senescent Adipose-Derived Mesenchymal Stem Cells Negatively Regulates Angiogenesis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	21
108	Differential Expression of Bipotent Commitment-Related Genes in Multipotent Mesenchymal Stromal Cells at Different O Levels. *Doklady Biochemistry and Biophysics*, **2020**, 491, 67-69	0.8	0
107	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	6.1	1
106	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	0.8	
105	Cell Senescence and Mesenchymal Stromal Cells. *Human Physiology*, **2020**, 46, 85-93	0.3	
104	Adipose-derived stromal cell immunosuppression of T cells is enhanced under "physiological" hypoxia. *Tissue and Cell*, **2020**, 63, 101320	2.7	2
103	Magnetic levitational bioassembly of 3D tissue construct in space. *Science Advances*, **2020**, 6, eaba4174	14.3	29
102	Replicative Senescence and Expression of Autophagy Genes in Mesenchymal Stromal Cells. *Biochemistry (Moscow)*, **2020**, 85, 1169-1177	2.9	0
101	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	0.4	

100	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	6.7	8
99	Alteration of Hypoxia-Associated Gene Expression in Replicatively Senescent Mesenchymal Stromal Cells under Physiological Oxygen Level. *Biochemistry (Moscow)*, **2019**, 84, 263-271	2.9	8
98	Reciprocal modulation of cell functions upon direct interaction of adipose mesenchymal stromal and activated immune cells. *Cell Biochemistry and Function*, **2019**, 37, 228-238	4.2	5
97	Simulated microgravity modulates the mesenchymal stromal cell response to inflammatory stimulation. *Scientific Reports*, **2019**, 9, 9279	4.9	2
96	Secretome of Cultured Human Endothelial Cells in Simulated Microgravity. *Bulletin of Experimental Biology and Medicine*, **2019**, 167, 35-38	0.8	3
95	Hematopoiesis-supportive function of growth-arrested human adipose-tissue stromal cells under physiological hypoxia. *Journal of Bioscience and Bioengineering*, **2019**, 127, 647-654	3.3	7
94	Expression of Adhesion Molecules in Activated Endothelium after Interaction with Mesenchymal Stromal Cells. *Bulletin of Experimental Biology and Medicine*, **2018**, 164, 453-455	0.8	
93	Stromal and Hematopoietic Progenitors from C57/BI/6N Murine Bone Marrow After 30-Day "BION-M1" Spaceflight. *Stem Cells and Development*, **2018**, 27, 1268-1277	4.4	3
92	Angiogenic Activity of Human Adipose-Derived Mesenchymal Stem Cells Under Simulated Microgravity. *Stem Cells and Development*, **2018**, 27, 831-837	4.4	19
91	Evaluation of committed and primitive cord blood progenitors after expansion on adipose stromal cells. *Cell and Tissue Research*, **2018**, 372, 523-533	4.2	5
90	The Role of Interplay of Mesenchymal Stromal Cells and Macrophages in Physiological and Reparative Tissue Remodeling. *Human Physiology*, **2018**, 44, 102-114	0.3	4
89	IFN-gamma priming of adipose-derived stromal cells at "physiological" hypoxia. *Journal of Cellular Physiology*, **2018**, 233, 1535-1547	7	13
88	The ICAM-1 expression level determines the susceptibility of human endothelial cells to simulated microgravity. *Journal of Cellular Biochemistry*, **2018**, 119, 2875-2885	4.7	16
87	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	2.2	6
86	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	0.7	
85	The Effects of Radiation and Hindlimb Unloading on Rat Bone Marrow Progenitor Cells. *Cell and Tissue Biology*, **2018**, 12, 183-196	0.4	3
84	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	0.8	7
83	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	0.8	3

82	Endothelial Cells Modulate Differentiation Potential and Mobility of Mesenchymal Stromal Cells. *Bulletin of Experimental Biology and Medicine*, **2018**, 165, 127-131	0.8	5
81	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	0.8	14
80	Transcriptomic changes in human umbilical cord blood endothelial cells under simulated microgravity. *Doklady Biochemistry and Biophysics*, **2017**, 472, 1-4	0.8	11
79	Expansion of adipose tissue-derived stromal cells at "physiologic" hypoxia attenuates replicative senescence. *Cell Biochemistry and Function*, **2017**, 35, 232-243	4.2	11
78	Interaction of multipotent mesenchymal stromal and immune cells: Bidirectional effects. *Cytotherapy*, **2017**, 19, 1152-1166	4.8	26
77	Expression of focal adhesion genes in mesenchymal stem cells under simulated microgravity. *Doklady Biochemistry and Biophysics*, **2017**, 477, 354-356	0.8	8
76	Factors governing the immunosuppressive effects of multipotent mesenchymal stromal cells in vitro. *Cytotechnology*, **2016**, 68, 565-77	2.2	11
75	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	0.8	1
74	Immobilized phthalocyanines of magnesium, aluminum, and zinc in photodynamic treatment of mesenchymal stromal cells. *Russian Chemical Bulletin*, **2016**, 65, 277-281	1.7	2
73	Gravisensitivity of endothelial cells: the role of cytoskeleton and adhesion molecules. *Human Physiology*, **2016**, 42, 687-693	0.3	9
72	Ex Vivo Expansion of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood. *Acta Naturae*, **2016**, 8, 6-16	2.1	4
71	Ex Vivo Expansion of Hematopoietic Stem and Progenitor Cells from Umbilical Cord Blood. *Acta Naturae*, **2016**, 8, 6-16	2.1	11
70	Tissue-Related Hypoxia Attenuates Proinflammatory Effects of Allogeneic PBMCs on Adipose-Derived Stromal Cells In Vitro. *Stem Cells International*, **2016**, 2016, 4726267	5	11
69	Acute Hypoxic Stress Affects Migration Machinery of Tissue O-Adapted Adipose Stromal Cells. *Stem Cells International*, **2016**, 2016, 7260562	5	10
68	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, 573-80	0.8	12
67	Hypoxic stress as an activation trigger of multipotent mesenchymal stromal cells. *Human Physiology* , **2015**, 41, 218-222	0.3	2
66	Anoxia resistance of cultured multipotent mesenchymal stromal cells from adipose tissue. *Cell and Tissue Biology*, **2015**, 9, 79-86	0.4	1
65	Response of Adipose Tissue-Derived Stromal Cells in Tissue-Related O2 Microenvironment to Short-Term Hypoxic Stress. *Cells Tissues Organs*, **2015**, 200, 307-15	2.1	17

64	The effect of stromal cells and oxygen concentration on maintenance of cord blood hematopoietic precursors. *Cell and Tissue Biology*, **2015**, 9, 341-347	0.4	1
63	Proinflammatory interleukins' production by adipose tissue-derived mesenchymal stromal cells: the impact of cell culture conditions and cell-to-cell interaction. *Cell Biochemistry and Function*, **2015**, 33, 386-93	4.2	7
62	Expression of HIF-1 in Multipotent Mesenchymal Stromal Cells under Hypoxic Conditions. *Bulletin of Experimental Biology and Medicine*, **2015**, 159, 355-7	0.8	6
61	WNT-associated gene expression in human mesenchymal stromal cells under hypoxic stress. *Doklady Biochemistry and Biophysics*, **2015**, 465, 354-7	0.8	6
60	Mesenchymal stem cells and hypoxia: where are we?. *Mitochondrion*, **2014**, 19 Pt A, 105-12	4.9	82
59	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, 584-9	0.8	9
58	In vitro evaluation of crystalline silicon nanoparticles cytotoxicity. *Biophysics (Russian Federation)*, **2014**, 59, 105-109	0.7	2
57	Long-term expansion of multipotent mesenchymal stromal cells under reduced oxygen tension. *Cell and Tissue Biology*, **2014**, 8, 107-114	0.4	3
56	Mechanical characteristics of mesenchymal stem cells under impact of silica-based nanoparticles. *Nanoscale Research Letters*, **2014**, 9, 284	5	13
55	Human adipose-tissue derived stromal cells in combination with hypoxia effectively support ex vivo expansion of cord blood haematopoietic progenitors. *PLoS ONE*, **2014**, 10, e0124939	3.7	11
54	Comparison of mitochondrial fluorescent dyes in stromal cells. *Bulletin of Experimental Biology and Medicine*, **2014**, 157, 654-8	0.8	4
53	Expression of hypoxia-associated genes in multipotent mesenchymal stromal cells during long-term cultivation at low oxygen. *Doklady Biological Sciences*, **2014**, 458, 310-2	0.9	2
52	Modification of silicon nanoparticle surface with gold or silver attenuates its biocompatibility in vitro. *Cell and Tissue Biology*, **2014**, 8, 384-388	0.4	2
51	Photophysical properties and photodynamic activity of nanostructured aluminum phthalocyanines. *Biophysics (Russian Federation)*, **2014**, 59, 854-860	0.7	1
50	Paracrine activity of multipotent mesenchymal stromal cells and its modulation in hypoxia. *Human Physiology*, **2013**, 39, 315-322	0.3	5
49	Accumulation and elimination of photosens and protoporphyrin IX by different types of mesenchymal cells. *Bulletin of Experimental Biology and Medicine*, **2013**, 155, 568-71	0.8	
48	Effects of photodynamic treatment on mesenchymal stromal cells. *Doklady Biological Sciences*, **2013**, 450, 185-8	0.9	2
47	In vitro study of interactions between silicon-containing nanoparticles and human peripheral blood leukocytes. *Bulletin of Experimental Biology and Medicine*, **2013**, 155, 396-8	0.8	4

46	Immunophenotype of human lymphocytes after interaction with mesenchymal stromal cells. *Human Physiology*, **2013**, 39, 530-534	0.3	1
45	Molecular genetic features of human mesenchymal stem cells after their osteogenic differentiation under the conditions of microgravity. *Human Physiology*, **2013**, 39, 540-544	0.3	7
44	Age-related differences in rat multipotent mesenchymal stromal bone marrow cells. *Bulletin of Experimental Biology and Medicine*, **2013**, 155, 129-33	0.8	6
43	Human MMSC immunosuppressive activity at low oxygen tension: Direct cell-to-cell contacts and paracrine regulation. *Human Physiology*, **2013**, 39, 136-146	0.3	8
42	Low ATP level is sufficient to maintain the uncommitted state of multipotent mesenchymal stem cells. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 4418-25	4	39
41	Immunosuppressive and Hematopoiesis-Supporting Properties of Stromal Cells at Low Oxygen. *American Journal of Biomedical Research*, **2013**, 1, 7-12	0	1
40	Etoposide and hypoxia do not activate apoptosis of multipotent mesenchymal stromal cells in vitro. *Bulletin of Experimental Biology and Medicine*, **2012**, 154, 141-4	0.8	3
39	The impact of oxygen in physiological regulation of human multipotent mesenchymal cell functions. *Human Physiology*, **2012**, 38, 444-452	0.3	9
38	Effects of microgravity simulation on the production of interleukins in culture of human mesenchymal stromal cells. *Human Physiology*, **2011**, 37, 860-865	0.3	1
37	Subpopulation composition and activation of T lymphocytes during coculturing with mesenchymal stromal cells in medium with different O(2) content. *Bulletin of Experimental Biology and Medicine*, **2011**, 151, 344-6	0.8	7
36	Simple method of specimen preparation for scanning electron microscopy. *Bulletin of Experimental Biology and Medicine*, **2011**, 151, 378-82	0.8	8
35	Low-fluence photodynamic treatment modifies functional properties of vascular cell wall. *Bulletin of Experimental Biology and Medicine*, **2011**, 151, 521-5	0.8	1
34	Immunosuppressive effects of multipotent mesenchymal stromal cells in cultures with different O2 content in the medium. *Bulletin of Experimental Biology and Medicine*, **2011**, 151, 526-9	0.8	5
33	Mechanisms of regulation of transcription factor HIF under hypoxia. *Biochemistry (Moscow)*, **2010**, 75, 151-8	2.9	8
32	Sensitivity of stromal precursor cells of different commitment to simulated microgravity. *Doklady Biological Sciences*, **2010**, 432, 237-40	0.9	3
31	Metal-free Phtalocyanine and 5-Aminolevulenic Acid in Photodynamic Treatment of Human Vascular Cells **2010**,		1
30	Interaction of human mesenhymal stromal with immune cells. *Human Physiology*, **2010**, 36, 590-598	0.3	9
29	Problems of the gravitational physiology of a cell. *Human Physiology*, **2010**, 36, 746-753	0.3	4

28	Mechanisms of gravitational sensitivity of osteogenic precursor cells. *Acta Naturae*, **2010**, 2, 28-36	2.1	9
27	Mechanisms of Gravitational Sensitivity of Osteogenic Precursor Cells. *Acta Naturae*, **2010**, 2, 28-35	2.1	13
26	Specific interaction of cultured human mesenchymal and hemopoietic stem cells under conditions of reduced oxygen content. *Bulletin of Experimental Biology and Medicine*, **2009**, 147, 525-30	0.8	14
25	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, 760-3	0.8	14
24	Resistance of rat bone marrow mesenchymal stromal precursor cells to anoxia in vitro. *Bulletin of Experimental Biology and Medicine*, **2009**, 148, 148-51	0.8	4
23	Characteristics of human lipoaspirate-isolated mesenchymal stromal cells cultivated under lower oxygen tension. *Cell and Tissue Biology*, **2009**, 3, 23-28	0.4	32
22	Cytoskeleton structure and adhesion properties of human stromal precursors under conditions of simulated microgravity. *Cell and Tissue Biology*, **2009**, 3, 423-430	0.4	16
21	Influence of clinorotation on embryoid body morphology. *Cell and Tissue Biology*, **2009**, 3, 532-537	0.4	1
20	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	0.3	3
19	Cytotoxic activity of natural killer cells in vitro under microgravity. *Doklady Biological Sciences*, **2008**, 421, 275-7	0.9	1
18	Cultured stem cells are sensitive to gravity changes. *Acta Astronautica*, **2008**, 63, 603-608	2.9	19
17	Effects of space flights on human allergic status (IgE-mediated sensitivity). *Acta Astronautica*, **2007**, 60, 254-258	2.9	4
16	Effects of various hyperbaric gas mixtures on metabolic parameters of human blood. *Human Physiology*, **2007**, 33, 603-613	0.3	3
15	Heterogenecity of stromal cell precursers isolated from rat bone marrow. *Cell and Tissue Biology*, **2007**, 1, 1-7	0.4	5
14	The effect of microgravity on thein vitro NK cell function during six International Space Station Missions. *Microgravity Science and Technology*, **2007**, 19, 145-147	1.6	3
13	Effect of hypoxia on stromal precursors from rat bone marrow at the early stage of culturing. *Bulletin of Experimental Biology and Medicine*, **2007**, 143, 411-3	0.8	15
12	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, 130-5	0.8	2
11	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, 608-13	0.8	23

10	The effects of synthesized analogs of vasotocin on water and ion excretion by the rat and monkey kidneys. *Doklady Biological Sciences*, **2006**, 406, 11-3	0.9	4
9	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	0.3	1
8	Analysis of antidiuretic effect of arginine-vasotocin and its analogs in primates. *Bulletin of Experimental Biology and Medicine*, **2006**, 142, 714-6	0.8	
7	Cell-to-cell interactions in changed gravity: ground-based and flight experiments. *Acta Astronautica*, **2005**, 57, 67-74	2.9	45
6	Mesenchymal stem cells from human bone marrow and adipose tissue: isolation, characterization, and differentiation potentialities. *Bulletin of Experimental Biology and Medicine*, **2005**, 140, 138-43	0.8	126
5	Renin-Aldosterone System in Osmoregulatory Reactions of Healthy Subjects in Response to Desmopressin. *Human Physiology*, **2005**, 31, 592-598	0.3	
4	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		10
3	The role of cytoskeleton in cell changes under condition of simulated microgravity. *Acta Astronautica*, **2001**, 48, 647-50	2.9	48
2	Fatty acid composition of plasma lipids and erythrocyte membranes during simulated extravehicular activity. *Acta Astronautica*, **1998**, 43, 77-86	2.9	3
1	Education programme on aerospace and environmental medicine for medical faculty of Lomonosov Moscow State University. *Advances in Space Research*, **1997**, 20, 1397-9	2.4	2