

Mikhail G Kolonin

List of Publications by Year in descending order

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99
papers

8,672
citations

81900
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90
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101
all docs

101
docs citations

101
times ranked

11926
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for advancing our understanding of cancer-associated fibroblasts. <i>Nature Reviews Cancer</i> , 2020, 20, 174-186.	28.4	2,012
2	A Population of Multipotent CD34-Positive Adipose Stromal Cells Share Pericyte and Mesenchymal Surface Markers, Reside in a Periendothelial Location, and Stabilize Endothelial Networks. <i>Circulation Research</i> , 2008, 102, 77-85.	4.5	762
3	Steps toward mapping the human vasculature by phage display. <i>Nature Medicine</i> , 2002, 8, 121-127.	30.7	557
4	Reversal of obesity by targeted ablation of adipose tissue. <i>Nature Medicine</i> , 2004, 10, 625-632.	30.7	523
5	White Adipose Tissue Cells Are Recruited by Experimental Tumors and Promote Cancer Progression in Mouse Models. <i>Cancer Research</i> , 2009, 69, 5259-5266.	0.9	294
6	Cancer as a Matter of Fat: The Crosstalk between Adipose Tissue and Tumors. <i>Trends in Cancer</i> , 2018, 4, 374-384.	7.4	286
7	PRUNE2 is a human prostate cancer suppressor regulated by the intronic long noncoding RNA <i>PCA3</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8403-8408.	7.1	226
8	Display technologies: Application for the discovery of drug and gene delivery agents. <i>Advanced Drug Delivery Reviews</i> , 2006, 58, 1622-1654.	13.7	216
9	Stromal Progenitor Cells from Endogenous Adipose Tissue Contribute to Pericytes and Adipocytes That Populate the Tumor Microenvironment. <i>Cancer Research</i> , 2012, 72, 5198-5208.	0.9	183
10	An Isoform of Decorin Is a Resistin Receptor on the Surface of Adipose Progenitor Cells. <i>Cell Stem Cell</i> , 2011, 9, 74-86.	11.1	178
11	Omental Adipose Tissue-Derived Stromal Cells Promote Vascularization and Growth of Endometrial Tumors. <i>Clinical Cancer Research</i> , 2012, 18, 771-782.	7.0	151
12	Adipose Tissue Engineering in Three-Dimensional Levitation Tissue Culture System Based on Magnetic Nanoparticles. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 336-344.	2.1	141
13	Molecular addresses in blood vessels as targets for therapy. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 308-313.	6.1	123
14	Synchronous selection of homing peptides for multiple tissues by in vivo phage display. <i>FASEB Journal</i> , 2006, 20, 979-981.	0.5	118
15	CXCL1 mediates obesity-associated adipose stromal cell trafficking and function in the tumour microenvironment. <i>Nature Communications</i> , 2016, 7, 11674.	12.8	118
16	Cooperative effects of aminopeptidase N (CD13) expressed by nonmalignant and cancer cells within the tumor microenvironment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1637-1642.	7.1	111
17	Influence of BMI on Level of Circulating Progenitor Cells. <i>Obesity</i> , 2011, 19, 1722-1726.	3.0	96
18	Targeting cyclin-dependent kinases in <i>Drosophila</i> with peptide aptamers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 14266-14271.	7.1	95

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19	Human Omental-Derived Adipose Stem Cells Increase Ovarian Cancer Proliferation, Migration, and Chemoresistance. PLoS ONE, 2013, 8, e81859.	2.5	95
20	Human and Mouse Brown Adipose Tissue Mitochondria Have Comparable UCP1 Function. Cell Metabolism, 2016, 24, 246-255.	16.2	93
21	A Peptidomimetic Targeting White Fat Causes Weight Loss and Improved Insulin Resistance in Obese Monkeys. Science Translational Medicine, 2011, 3, 108ra112.	12.4	80
22	Adipose tissue-derived progenitor cells and cancer. World Journal of Stem Cells, 2010, 2, 103.	2.8	78
23	Ligand-Directed Surface Profiling of Human Cancer Cells with Combinatorial Peptide Libraries. Cancer Research, 2006, 66, 34-40.	0.9	77
24	PDGFR α / PDGFR β signaling balance modulates progenitor cell differentiation into white and beige adipocytes. Development (Cambridge), 2018, 145, .	2.5	77
25	Proinflammatory CXCL12 α –CXCR4/CXCR7 Signaling Axis Drives Myc-Induced Prostate Cancer in Obese Mice. Cancer Research, 2017, 77, 5158-5168.	0.9	77
26	Incompatibility of the circadian protein BMAL1 and HNF4 α in hepatocellular carcinoma. Nature Communications, 2018, 9, 4349.	12.8	76
27	Circulation of Progenitor Cells in Obese and Lean Colorectal Cancer Patients. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 2461-2468.	2.5	72
28	Vascular ligand-receptor mapping by direct combinatorial selection in cancer patients. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18637-18642.	7.1	71
29	IFATS Collection: Combinatorial Peptides Identify α 5 β 1 Integrin as a Receptor for the Matricellular Protein SPARC on Adipose Stromal Cells. Stem Cells, 2008, 26, 2735-2745.	3.2	70
30	Vascular targeting of adipose tissue as an anti-obesity approach. Trends in Pharmacological Sciences, 2011, 32, 300-307.	8.7	68
31	Adipose stromal cell targeting suppresses prostate cancer epithelial-mesenchymal transition and chemoresistance. Oncogene, 2019, 38, 1979-1988.	5.9	63
32	Alternative origins of stroma in normal organs and disease. Stem Cell Research, 2012, 8, 312-323.	0.7	57
33	[3] Interaction mating methods in two-hybrid systems. Methods in Enzymology, 2000, 328, 26-46.	1.0	56
34	Critical Role of Matrix Metalloproteinase 14 in Adipose Tissue Remodeling during Obesity. Molecular and Cellular Biology, 2020, 40, .	2.3	56
35	A peptide probe for targeted brown adipose tissue imaging. Nature Communications, 2013, 4, 2472.	12.8	55
36	Depletion of white adipocyte progenitors induces beige adipocyte differentiation and suppresses obesity development. Cell Death and Differentiation, 2015, 22, 351-363.	11.2	53

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37	Combinatorial treatment with natural compounds in prostate cancer inhibits prostate tumor growth and leads to key modulations of cancer cell metabolism. Npj Precision Oncology, 2017, 1, .	5.4	52
38	Prohibitin/annexin 2 interaction regulates fatty acid transport in adipose tissue. JCI Insight, 2016, 1, .	5.0	51
39	Body composition and breast cancer risk and treatment: mechanisms and impact. Breast Cancer Research and Treatment, 2021, 186, 273-283.	2.5	47
40	Adipose tissue cells, lipotransfer and cancer: A challenge for scientists, oncologists and surgeons. Biochimica Et Biophysica Acta: Reviews on Cancer, 2012, 1826, 209-214.	7.4	45
41	A Role for Cyclin J in the Rapid Nuclear Division Cycles of Early Drosophila Embryogenesis. Developmental Biology, 2000, 227, 661-672.	2.0	43
42	Combinatorial stem cell mobilization. Nature Biotechnology, 2009, 27, 252-253.	17.5	39
43	Divergent functions of endotrophin on different cell populations in adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E952-E963.	3.5	39
44	Age-associated telomere attrition in adipocyte progenitors predisposes to metabolic disease. Nature Metabolism, 2020, 2, 1482-1497.	11.9	39
45	Intracellular targeting of annexin A2 inhibits tumor cell adhesion, migration, and in vivo grafting. Scientific Reports, 2017, 7, 4243.	3.3	38
46	Electroacupuncture Promotes Central Nervous System-Dependent Release of Mesenchymal Stem Cells. Stem Cells, 2017, 35, 1303-1315.	3.2	37
47	Teratogenicity induced by targeting a placental immunoglobulin transporter. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13055-13060.	7.1	35
48	Stromal Cells Derived from Visceral and Obese Adipose Tissue Promote Growth of Ovarian Cancers. PLoS ONE, 2015, 10, e0136361.	2.5	35
49	Targeted Proapoptotic Peptides Depleting Adipose Stromal Cells Inhibit Tumor Growth. Molecular Therapy, 2016, 24, 34-40.	8.2	35
50	Fatty acid mobilization from adipose tissue is mediated by CD36 posttranslational modifications and intracellular trafficking. JCI Insight, 2021, 6, .	5.0	34
51	Treatment of obesity as a potential complementary approach to cancer therapy. Drug Discovery Today, 2013, 18, 567-573.	6.4	33
52	A Ligand Peptide Motif Selected from a Cancer Patient Is a Receptor-Interacting Site within Human Interleukin-11. PLoS ONE, 2008, 3, e3452.	2.5	31
53	Interaction between Tumor Cell Surface Receptor RAGE and Proteinase 3 Mediates Prostate Cancer Metastasis to Bone. Cancer Research, 2017, 77, 3144-3150.	0.9	31
54	Transient Overexpression of Vascular Endothelial Growth Factor A in Adipose Tissue Promotes Energy Expenditure via Activation of the Sympathetic Nervous System. Molecular and Cellular Biology, 2018, 38, .	2.3	31

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55	CRISPR/Cas9-Based Dystrophin Restoration Reveals a Novel Role for Dystrophin in Bioenergetics and Stress Resistance of Muscle Progenitors. <i>Stem Cells</i> , 2019, 37, 1615-1628.	3.2	30
56	Browning white adipose tissue using adipose stromal cell-targeted resveratrol-loaded nanoparticles for combating obesity. <i>Journal of Controlled Release</i> , 2021, 333, 339-351.	9.9	28
57	Adipose Stromal Cell Expansion and Exhaustion: Mechanisms and Consequences. <i>Cells</i> , 2020, 9, 863.	4.1	26
58	Interaction Trap/Two-Hybrid System to Identify Interacting Proteins. <i>Current Protocols in Cell Biology</i> , 2011, 53, Unit 17.3..	2.3	25
59	Proteolytic Isoforms of SPARC Induce Adipose Stromal Cell Mobilization in Obesity. <i>Stem Cells</i> , 2016, 34, 174-190.	3.2	24
60	Non-glycanated Decorin Is a Drug Target on Human Adipose Stromal Cells. <i>Molecular Therapy - Oncolytics</i> , 2017, 6, 1-9.	4.4	24
61	HNF4 α -Deficient Fatty Liver Provides a Permissive Environment for Sex-Independent Hepatocellular Carcinoma. <i>Cancer Research</i> , 2019, 79, 5860-5873.	0.9	23
62	Interaction Trap/Two-Hybrid System to Identify Interacting Proteins. <i>Current Protocols in Molecular Biology</i> , 2008, 82, Unit 20.1.	2.9	20
63	Interaction Trap/Two-Hybrid System to Identify Interacting Proteins. <i>Current Protocols in Neuroscience</i> , 2011, 55, Unit 4.4.	2.6	20
64	Transient inflammatory signaling promotes beige adipogenesis. <i>Science Signaling</i> , 2018, 11, .	3.6	18
65	Cellular and physiological circadian mechanisms drive diurnal cell proliferation and expansion of white adipose tissue. <i>Nature Communications</i> , 2021, 12, 3482.	12.8	18
66	Evaluation of Cell Function Upon Nanovector Internalization. <i>Small</i> , 2013, 9, 1696-1702.	10.0	17
67	Heterogeneity and immunophenotypic plasticity of malignant cells in human liposarcomas. <i>Stem Cell Research</i> , 2013, 11, 772-781.	0.7	16
68	Obesity, proinflammatory mediators, adipose tissue progenitors, and breast cancer. <i>Current Opinion in Oncology</i> , 2014, 26, 545-550.	2.4	15
69	Three-Dimensional Magnetic Levitation Culture System Simulating White Adipose Tissue. <i>Methods in Molecular Biology</i> , 2018, 1773, 147-154.	0.9	15
70	Progression of prostate carcinoma is promoted by adipose stromal cell-secreted CXCL12 signaling in prostate epithelium. <i>Npj Precision Oncology</i> , 2021, 5, 26.	5.4	15
71	Ablation of Stromal Cells with a Targeted Proapoptotic Peptide Suppresses Cancer Chemotherapy Resistance and Metastasis. <i>Molecular Therapy - Oncolytics</i> , 2020, 18, 579-586.	4.4	13
72	Prohibitin Inactivation in Adipocytes Results in Reduced Lipid Metabolism and Adaptive Thermogenesis Impairment. <i>Diabetes</i> , 2021, 70, 2204-2212.	0.6	13

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73	Progenitor Cell Mobilization from Extramedullary Organs. Methods in Molecular Biology, 2012, 904, 243-252.	0.9	12
74	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Molecular Biology, 1999, 46, Unit 20.1.	2.9	11
75	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Cell Biology, 2000, 8, Unit 17.3.	2.3	11
76	Cytokine signaling regulating adipose stromal cell trafficking. Adipocyte, 2016, 5, 369-374.	2.8	11
77	Glycosaminoglycan Modification of Decorin Depends on MMP14 Activity and Regulates Collagen Assembly. Cells, 2020, 9, 2646.	4.1	11
78	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Protein Science, 1998, 14, Unit19.2.	2.8	9
79	Tissue-Specific Targeting Based on Markers Expressed Outside Endothelial Cells. Advances in Genetics, 2009, 67, 61-102.	1.8	9
80	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Protein Science, 2009, 57, Unit19.2.	2.8	8
81	The role of adipose stroma in prostate cancer aggressiveness. Translational Andrology and Urology, 2019, 8, S348-S350.	1.4	8
82	Endothelial Prohibitin Mediates Bidirectional Long-Chain Fatty Acid Transport in White and Brown Adipose Tissues. Diabetes, 2022, 71, 1400-1409.	0.6	7
83	Endothelial TrkA coordinates vascularization and innervation in thermogenic adipose tissue and can be targeted to control metabolism. Molecular Metabolism, 2022, 63, 101544.	6.5	7
84	Semiparametric Bayesian Inference for Phage Display Data. Biometrics, 2013, 69, 174-183.	1.4	6
85	PAI-1-Dependent Inactivation of SMAD4-Modulated Junction and Adhesion Complex in Obese Endometrial Cancer. Cell Reports, 2020, 33, 108253.	6.4	6
86	How brown is brown fat that we can see?. Adipocyte, 2014, 3, 155-159.	2.8	5
87	Bayesian mixture models for complex high dimensional count data in phage display experiments. Journal of the Royal Statistical Society Series C: Applied Statistics, 2007, 56, 139-152.	1.0	4
88	Bad Cholesterol Uptake by CD36 in T-Cells Cripples Anti-Tumor Immune Response. Immunometabolism, 2021, 3, .	1.6	4
89	Role of Adipose Cells in Tumor Microenvironment. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2013, , 271-294.	1.0	3
90	Synthetic polypeptide crotamine: characterization as a myotoxin and as a target of combinatorial peptides. Journal of Molecular Medicine, 2022, 100, 65-76.	3.9	3

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91	Partial Ablation of Non-Myogenic Progenitor Cells as a Therapeutic Approach to Duchenne Muscular Dystrophy. Biomolecules, 2021, 11, 1519.	4.0	3
92	Neutrophil-Secreted Proteinase 3 Mediates Metastasis of Prostate Cancer Cells Expressing RAGE to the Bone Marrow. Blood, 2016, 128, 1025-1025.	1.4	1
93	Characterization of Peptides Targeting Metastatic Tumor Cells as Probes for Cancer Detection and Vehicles for Therapy Delivery. Cancer Research, 2021, 81, 5756-5764.	0.9	1
94	Chemotherapy Triggers T Cells to Remodel the Extracellular Matrix and Promote Metastasis. Cancer Research, 2022, 82, 197-198.	0.9	1
95	Response to Comment on "A Peptidomimetic Targeting White Fat Causes Weight Loss and Improved Insulin Resistance in Obese Monkeys". Science Translational Medicine, 2012, 4, .	12.4	0
96	Circulating Mesenchymal Stromal Cells As a New Prospective Cancer Marker,. Blood, 2011, 118, 3404-3404.	1.4	0
97	Adipose Tissue-Derived Progenitor Cells and Cancer. , 2013, , 321-337.		0
98	Vascular Targeting of Adipose Tissue. , 2013, , 381-400.		0
99	Depletion of white adipocyte progenitors suppresses obesity development (LB763). FASEB Journal, 2014, 28, LB763.	0.5	0