Mikhail G Kolonin

List of Publications by Year
in descending order

99 papers	8,672 citations	81900 39 h-index	45317 90 g-index
101 all docs	101 docs citations	101 times ranked	11926 citing authors

#	Article	IF	Citations
1	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
2	Chemotherapy Triggers T Cells to Remodel the Extracellular Matrix and Promote Metastasis. Cancer Research, 2022, 82, 197-198.	0.9	1
3	Endothelial Prohibitin Mediates Bidirectional Long-Chain Fatty Acid Transport in White and Brown Adipose Tissues. Diabetes, 2022, 71, 1400-1409.	0.6	7
4	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
5	Body composition and breast cancer risk and treatment: mechanisms and impact. Breast Cancer Research and Treatment, 2021, 186, 273-283.	2.5	47
6	Bad Cholesterol Uptake by CD36 in T-Cells Cripples Anti-Tumor Immune Response. Immunometabolism, 2021, 3, .	1.6	4
7	Progression of prostate carcinoma is promoted by adipose stromal cell-secreted CXCL12 signaling in prostate epithelium. Npj Precision Oncology, 2021, 5, 26.	5.4	15
8	Browning white adipose tissue using adipose stromal cell-targeted resveratrol-loaded nanoparticles for combating obesity. Journal of Controlled Release, 2021, 333, 339-351.	9.9	28
9	Cellular and physiological circadian mechanisms drive diurnal cell proliferation and expansion of white adipose tissue. Nature Communications, 2021, 12, 3482.	12.8	18
10	Prohibitin Inactivation in Adipocytes Results in Reduced Lipid Metabolism and Adaptive Thermogenesis Impairment. Diabetes, 2021, 70, 2204-2212.	0.6	13
11	Fatty acid mobilization from adipose tissue is mediated by CD36 posttranslational modifications and intracellular trafficking. JCI Insight, 2021, 6, .	5.0	34
12	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
13	Partial Ablation of Non-Myogenic Progenitor Cells as a Therapeutic Approach to Duchenne Muscular Dystrophy. Biomolecules, 2021, 11, 1519.	4.0	3
14	Ablation of Stromal Cells with a Targeted Proapoptotic Peptide Suppresses Cancer Chemotherapy Resistance and Metastasis. Molecular Therapy - Oncolytics, 2020, 18, 579-586.	4.4	13
15	PAI-1-Dependent Inactivation of SMAD4-Modulated Junction and Adhesion Complex in Obese Endometrial Cancer. Cell Reports, 2020, 33, 108253.	6.4	6
16	Glycosaminoglycan Modification of Decorin Depends on MMP14 Activity and Regulates Collagen Assembly. Cells, 2020, 9, 2646.	4.1	11
17	Age-associated telomere attrition in adipocyte progenitors predisposes to metabolic disease. Nature Metabolism, 2020, 2, 1482-1497.	11.9	39
18	Critical Role of Matrix Metalloproteinase 14 in Adipose Tissue Remodeling during Obesity. Molecular and Cellular Biology, 2020, 40, .	2.3	56

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19	A framework for advancing our understanding of cancer-associated fibroblasts. Nature Reviews Cancer, 2020, 20, 174-186.	28.4	2,012
20	Adipose Stromal Cell Expansion and Exhaustion: Mechanisms and Consequences. Cells, 2020, 9, 863.	4.1	26
21	The role of adipose stroma in prostate cancer aggressiveness. Translational Andrology and Urology, 2019, 8, S348-S350.	1.4	8
22	CRISPR/Cas9-Based Dystrophin Restoration Reveals a Novel Role for Dystrophin in Bioenergetics and Stress Resistance of Muscle Progenitors. Stem Cells, 2019, 37, 1615-1628.	3.2	30
23	HNF4Î±-Deficient Fatty Liver Provides a Permissive Environment for Sex-Independent Hepatocellular Carcinoma. Cancer Research, 2019, 79, 5860-5873.	0.9	23
24	Adipose stromal cell targeting suppresses prostate cancer epithelial-mesenchymal transition and chemoresistance. Oncogene, 2019, 38, 1979-1988.	5.9	63
25	PDGFRÎ± / PDGFRÎ² signaling balance modulates progenitor cell differentiation into white and beige adipocytes. Development (Cambridge), 2018, 145, .	2.5	77
26	Transient inflammatory signaling promotes beige adipogenesis. Science Signaling, 2018, 11, .	3.6	18
27	Three-Dimensional Magnetic Levitation Culture System Simulating White Adipose Tissue. Methods in Molecular Biology, 2018, 1773, 147-154.	0.9	15
28	Cancer as a Matter of Fat: The Crosstalk between Adipose Tissue and Tumors. Trends in Cancer, 2018, 4, 374-384.	7.4	286
29	Incompatibility of the circadian protein BMAL1 and HNF4Î± in hepatocellular carcinoma. Nature Communications, 2018, 9, 4349.	12.8	76
30	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
31	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
32	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
33	Electroacupuncture Promotes Central Nervous System-Dependent Release of Mesenchymal Stem Cells. Stem Cells, 2017, 35, 1303-1315.	3.2	37
34	Proinflammatory CXCL12â€"CXCR4/CXCR7 Signaling Axis Drives Myc-Induced Prostate Cancer in Obese Mice. Cancer Research, 2017, 77, 5158-5168.	0.9	77
35	Intracellular targeting of annexin A2 inhibits tumor cell adhesion, migration, and in vivo grafting. Scientific Reports, 2017, 7, 4243.	3.3	38
36	Non-glycanated Decorin Is a Drug Target on Human Adipose Stromal Cells. Molecular Therapy - Oncolytics, 2017, 6, 1-9.	4.4	24

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37	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
38	Cytokine signaling regulating adipose stromal cell trafficking. Adipocyte, 2016, 5, 369-374.	2.8	11
39	Human and Mouse Brown Adipose Tissue Mitochondria Have Comparable UCP1 Function. Cell Metabolism, 2016, 24, 246-255.	16.2	93
40	Proteolytic Isoforms of SPARC Induce Adipose Stromal Cell Mobilization in Obesity. Stem Cells, 2016, 34, 174-190.	3.2	24
41	CXCL1 mediates obesity-associated adipose stromal cell trafficking and function in the tumour microenvironment. Nature Communications, 2016, 7, 11674.	12.8	118
42	Targeted Proapoptotic Peptides Depleting Adipose Stromal Cells Inhibit Tumor Growth. Molecular Therapy, 2016, 24, 34-40.	8.2	35
43	Prohibitin/annexin 2 interaction regulates fatty acid transport in adipose tissue. JCI Insight, 2016, 1, .	5.0	51
44	Neutrophil-Secreted Proteinase 3 Mediates Metastasis of Prostate Cancer Cells Expressing RAGE to the Bone Marrow. Blood, 2016, 128, 1025-1025.	1.4	1
45	Stromal Cells Derived from Visceral and Obese Adipose Tissue Promote Growth of Ovarian Cancers. PLoS ONE, 2015, 10, e0136361.	2.5	35
46	PRUNE2 is a human prostate cancer suppressor regulated by the intronic long noncoding RNA <i>PCA3</i>. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8403-8408.	7.1	226
47	Depletion of white adipocyte progenitors induces beige adipocyte differentiation and suppresses obesity development. Cell Death and Differentiation, 2015, 22, 351-363.	11.2	53
48	How brown is brown fat that we can see?. Adipocyte, 2014, 3, 155-159.	2.8	5
49	Obesity, proinflammatory mediators, adipose tissue progenitors, and breast cancer. Current Opinion in Oncology, 2014, 26, 545-550.	2.4	15
50	Depletion of white adipocyte progenitors suppresses obesity development (LB763). FASEB Journal, 2014, 28, LB763.	0.5	0
51	A peptide probe for targeted brown adipose tissue imaging. Nature Communications, 2013, 4, 2472.	12.8	55
52	Semiparametric Bayesian Inference for Phage Display Data. Biometrics, 2013, 69, 174-183.	1.4	6
53	Heterogeneity and immunophenotypic plasticity of malignant cells in human liposarcomas. Stem Cell Research, 2013, 11, 772-781.	0.7	16
54	Treatment of obesity as a potential complementary approach to cancer therapy. Drug Discovery Today, 2013, 18, 567-573.	6.4	33

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55	Adipose Tissue Engineering in Three-Dimensional Levitation Tissue Culture System Based on Magnetic Nanoparticles. Tissue Engineering - Part C: Methods, 2013, 19, 336-344.	2.1	141
56	Evaluation of Cell Function Upon Nanovector Internalization. Small, 2013, 9, 1696-1702.	10.0	17
57	Role of Adipose Cells in Tumor Microenvironment. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2013, , 271-294.	1.0	3
58	Human Omental-Derived Adipose Stem Cells Increase Ovarian Cancer Proliferation, Migration, and Chemoresistance. PLoS ONE, 2013, 8, e81859.	2.5	95
59	Adipose Tissue-Derived Progenitor Cells and Cancer. , 2013, , 321-337.		0
60	Vascular Targeting of Adipose Tissue. , 2013, , 381-400.		0
61	Response to Comment on â€œA Peptidomimetic Targeting White Fat Causes Weight Loss and Improved Insulin Resistance in Obese Monkeysâ€• Science Translational Medicine, 2012, 4, .	12.4	0
62	Cooperative effects of aminopeptidase N (CD13) expressed by nonmalignant and cancer cells within the tumor microenvironment. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1637-1642.	7.1	111
63	Stromal Progenitor Cells from Endogenous Adipose Tissue Contribute to Pericytes and Adipocytes That Populate the Tumor Microenvironment. Cancer Research, 2012, 72, 5198-5208.	0.9	183
64	Omental Adipose Tissueâ€"Derived Stromal Cells Promote Vascularization and Growth of Endometrial Tumors. Clinical Cancer Research, 2012, 18, 771-782.	7.0	151
65	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
66	Alternative origins of stroma in normal organs and disease. Stem Cell Research, 2012, 8, 312-323.	0.7	57
67	Progenitor Cell Mobilization from Extramedullary Organs. Methods in Molecular Biology, 2012, 904, 243-252.	0.9	12
68	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Neuroscience, 2011, 55, Unit 4.4.	2.6	20
69	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Cell Biology, 2011, 53, Unit 17.3..	2.3	25
70	An Isoform of Decorin Is a Resistin Receptor on the Surface of Adipose Progenitor Cells. Cell Stem Cell, 2011, 9, 74-86.	11.1	178
71	Vascular targeting of adipose tissue as an anti-obesity approach. Trends in Pharmacological Sciences, 2011, 32, 300-307.	8.7	68
72	Influence of BMI on Level of Circulating Progenitor Cells. Obesity, 2011, 19, 1722-1726.	3.0	96

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73	Circulation of Progenitor Cells in Obese and Lean Colorectal Cancer Patients. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 2461-2468.	2.5	72
74	A Peptidomimetic Targeting White Fat Causes Weight Loss and Improved Insulin Resistance in Obese Monkeys. Science Translational Medicine, 2011, 3, 108ra112.	12.4	80
75	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
76	Circulating Mesenchymal Stromal Cells As a New Prospective Cancer Marker,. Blood, 2011, 118, 3404-3404.	1.4	0
77	Adipose tissue-derived progenitor cells and cancer. World Journal of Stem Cells, 2010, 2, 103.	2.8	78
78	White Adipose Tissue Cells Are Recruited by Experimental Tumors and Promote Cancer Progression in Mouse Models. Cancer Research, 2009, 69, 5259-5266.	0.9	294
79	Combinatorial stem cell mobilization. Nature Biotechnology, 2009, 27, 252-253.	17.5	39
80	Tissue-Specific Targeting Based on Markers Expressed Outside Endothelial Cells. Advances in Genetics, 2009, 67, 61-102.	1.8	9
81	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Protein Science, 2009, 57, Unit19.2.	2.8	8
82	IFATS Collection: Combinatorial Peptides Identify Î±5Î²1 Integrin as a Receptor for the Matricellular Protein SPARC on Adipose Stromal Cells. Stem Cells, 2008, 26, 2735-2745.	3.2	70
83	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Molecular Biology, 2008, 82, Unit 20.1.	2.9	20
84	A Population of Multipotent CD34-Positive Adipose Stromal Cells Share Pericyte and Mesenchymal Surface Markers, Reside in a Periendothelial Location, and Stabilize Endothelial Networks. Circulation Research, 2008, 102, 77-85.	4.5	762
85	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
86	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
87	Display technologies: Application for the discovery of drug and gene delivery agentsâ˜†. Advanced Drug Delivery Reviews, 2006, 58, 1622-1654.	13.7	216
88	Ligand-Directed Surface Profiling of Human Cancer Cells with Combinatorial Peptide Libraries. Cancer Research, 2006, 66, 34-40.	0.9	77
89	Synchronous selection of homing peptides for multiple tissues by in vivo phage display. FASEB Journal, 2006, 20, 979-981.	0.5	118
90	Reversal of obesity by targeted ablation of adipose tissue. Nature Medicine, 2004, 10, 625-632.	30.7	523

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91	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
92	Steps toward mapping the human vasculature by phage display. Nature Medicine, 2002, 8, 121-127.	30.7	557
93	Molecular addresses in blood vessels as targets for therapy. Current Opinion in Chemical Biology, 2001, 5, 308-313.	6.1	123
94	[3] Interaction mating methods in two-hybrid systems. Methods in Enzymology, 2000, 328, 26-46.	1.0	56
95	A Role for Cyclin J in the Rapid Nuclear Division Cycles of Early Drosophila Embryogenesis. Developmental Biology, 2000, 227, 661-672.	2.0	43
96	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Cell Biology, 2000, 8, Unit 17.3.	2.3	11
97	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Molecular Biology, 1999, 46, Unit 20.1.	2.9	11
98	Interaction Trap/Twoâ€Hybrid System to Identify Interacting Proteins. Current Protocols in Protein Science, 1998, 14, Unit19.2.	2.8	9
99	Targeting cyclin-dependent kinases in Drosophila with peptide aptamers. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 14266-14271.	7.1	95