Bakhos A Tannous

List of Publications by Citations

103 papers	9,460 citations	42 h-index	97 g-index
111 ext. papers	11,088 ext. citations	8.8 avg, IF	6.05 L-index

#	Paper	IF	Citations
103	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
102	Codon-optimized Gaussia luciferase cDNA for mammalian gene expression in culture and in vivo. *Molecular Therapy*, **2005**, 11, 435-43	11.7	553
101	RNA-Seq of Tumor-Educated Platelets Enables Blood-Based Pan-Cancer, Multiclass, and Molecular Pathway Cancer Diagnostics. *Cancer Cell*, **2015**, 28, 666-676	24.3	480
100	Dynamic biodistribution of extracellular vesicles in vivo using a multimodal imaging reporter. *ACS Nano*, **2014**, 8, 483-494	16.7	454
99	Surface functionalized exosomes as targeted drug delivery vehicles for cerebral ischemia therapy. *Biomaterials*, **2018**, 150, 137-149	15.6	418
98	Visualization and tracking of tumour extracellular vesicle delivery and RNA translation using multiplexed reporters. *Nature Communications*, **2015**, 6, 7029	17.4	345
97	A neural basis for melanocortin-4 receptor-regulated appetite. *Nature Neuroscience*, **2015**, 18, 863-71	25.5	238
96	A secreted luciferase for ex vivo monitoring of in vivo processes. *Nature Methods*, **2008**, 5, 171-3	21.6	235
95	Downregulated microRNA-200a in meningiomas promotes tumor growth by reducing E-cadherin and activating the Wnt/beta-catenin signaling pathway. *Molecular and Cellular Biology*, **2009**, 29, 5923-40	4.8	207
94	Gaussia luciferase reporter assay for monitoring biological processes in culture and in vivo. *Nature Protocols*, **2009**, 4, 582-91	18.8	196
93	Bioluminescence imaging: progress and applications. *Trends in Biotechnology*, **2011**, 29, 624-33	15.1	195
92	Microvesicle-associated AAV vector as a novel gene delivery system. *Molecular Therapy*, **2012**, 20, 960-71	11.7	188
91	Swarm Intelligence-Enhanced Detection of Non-Small-Cell Lung Cancer Using Tumor-Educated Platelets. *Cancer Cell*, **2017**, 32, 238-252.e9	24.3	150
90	Rearranged EML4-ALK fusion transcripts sequester in circulating blood platelets and enable blood-based crizotinib response monitoring in non-small-cell lung cancer. *Oncotarget*, **2016**, 7, 1066-75	3.3	120
89	Heparin affinity purification of extracellular vesicles. *Scientific Reports*, **2015**, 5, 10266	4.9	113
88	Mutant torsinA interferes with protein processing through the secretory pathway in DYT1 dystonia cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 7271-6	11.5	112
87	A highly sensitive assay for monitoring the secretory pathway and ER stress. *PLoS ONE*, **2007**, 2, e571	3.7	109

86	Dynamic GABAergic afferent modulation of AgRP neurons. *Nature Neuroscience*, **2016**, 19, 1628-1635	25.5	99
85	Secreted blood reporters: insights and applications. *Biotechnology Advances*, **2011**, 29, 997-1003	17.8	96
84	Metabolic biotinylation of cell surface receptors for in vivo imaging. *Nature Methods*, **2006**, 3, 391-6	21.6	92
83	Phenotypic Plasticity of Invasive Edge Glioma Stem-like Cells in Response to Ionizing Radiation. *Cell Reports*, **2019**, 26, 1893-1905.e7	10.6	84
82	Therapeutic potential of targeting microRNA-10b in established intracranial glioblastoma: first steps toward the clinic. *EMBO Molecular Medicine*, **2016**, 8, 268-87	12	83
81	Radiation-Induced Targeted Nanoparticle-Based Gene Delivery for Brain Tumor Therapy. *ACS Nano*, **2019**, 13, 4028-4040	16.7	81
80	TorsinA participates in endoplasmic reticulum-associated degradation. *Nature Communications*, **2011**, 2, 393	17.4	79
79	THER-04. OLFACTORY ENSHEATHING CELLS TRAVEL THEIR NATURE ROUTE FROM NASAL CAVITY TO CNS AND DELIVER THERAPEUTIC TRANSGENES TO HIGH-GRADE PEDIATRIC GLIOMAS. *Neuro-Oncology*, **2019**, 21, ii114-ii115	1	78
78	THER-03. REPURPOSING MEFLOQUINE AND ANALOGUES FOR DIPG THERAPY. *Neuro-Oncology*, **2019**, 21, ii114-ii114	1	78
77	ATPS-84HYDROXYUREA SENSITIZES PATIENT-DERIVED GLIOBLASTOMA TUMORS TO TEMOZOLOMIDE IRRESPECTIVE OF MGMT STATUS. *Neuro-Oncology*, **2015**, 17, v37.1-v37	1	78
76	BSCI-16. Olfactory receptor 5B21 drives breast cancer metastasis. *Neuro-Oncology Advances*, **2021**, 3, iii4-iii4	0.9	78
75	Effects of the selective MPS1 inhibitor MPS1-IN-3 on glioblastoma sensitivity to antimitotic drugs. *Journal of the National Cancer Institute*, **2013**, 105, 1322-31	9.7	74
74	Secreted Gaussia luciferase as a biomarker for monitoring tumor progression and treatment response of systemic metastases. *PLoS ONE*, **2009**, 4, e8316	3.7	71
73	Integrated Kidney Exosome Analysis for the Detection of Kidney Transplant Rejection. *ACS Nano*, **2017**, 11, 11041-11046	16.7	65
72	Triple bioluminescence imaging for in vivo monitoring of cellular processes. *Molecular Therapy - Nucleic Acids*, **2013**, 2, e99	10.7	65
71	Gaussia luciferase variant for high-throughput functional screening applications. *Analytical Chemistry*, **2009**, 81, 7102-6	7.8	65
70	Patient-Derived Glioma Models: From Patients to Dish to Animals. *Cells*, **2019**, 8,	7.9	54
69	siRNA knock-down of mutant torsinA restores processing through secretory pathway in DYT1 dystonia cells. *Human Molecular Genetics*, **2008**, 17, 1436-45	5.6	54

68	Optical clearing and fluorescence deep-tissue imaging for 3D quantitative analysis of the brain tumor microenvironment. *Angiogenesis*, **2017**, 20, 533-546	10.6	50
67	Bidirectional Anticipation of Future Osmotic Challenges by Vasopressin Neurons. *Neuron*, **2017**, 93, 57-65	13.9	47
66	Real-time monitoring of nuclear factor kappaB activity in cultured cells and in animal models. *Molecular Imaging*, **2009**, 8, 278-90	3.7	47
65	Glycosylated extracellular vesicles released by glioblastoma cells are decorated by CCL18 allowing for cellular uptake via chemokine receptor CCR8. *Journal of Extracellular Vesicles*, **2018**, 7, 1446660	16.4	46
64	Real-Time Monitoring of Nuclear Factor B Activity in Cultured Cells and in Animal Models. *Molecular Imaging*, **2009**, 8, 7290.2009.00026	3.7	44
63	Lanatoside C sensitizes glioblastoma cells to tumor necrosis factor-related apoptosis-inducing ligand and induces an alternative cell death pathway. *Neuro-Oncology*, **2011**, 13, 1213-24	1	43
62	Advances in stem cell therapy against gliomas. *Trends in Molecular Medicine*, **2013**, 19, 281-91	11.5	42
61	The acid test of fluoride: how pH modulates toxicity. *PLoS ONE*, **2010**, 5, e10895	3.7	42
60	Single reporter for targeted multimodal in vivo imaging. *Journal of the American Chemical Society*, **2012**, 134, 5149-56	16.4	40
59	EFEMP1 induces secretase/Notch-mediated temozolomide resistance in glioblastoma. *Oncotarget* , **2014**, 5, 363-74	3.3	36
58	Multimodal in vivo imaging and blood monitoring of intrinsic and extrinsic apoptosis. *Molecular Therapy*, **2011**, 19, 1090-6	11.7	35
57	Noninvasive in vivo monitoring of extracellular vesicles. *Methods in Molecular Biology*, **2014**, 1098, 249-58	1.4	33
56	Directed molecular evolution reveals Gaussia luciferase variants with enhanced light output stability. *Analytical Chemistry*, **2013**, 85, 3006-12	7.8	30
55	Dissecting inherent intratumor heterogeneity in patient-derived glioblastoma culture models. *Neuro-Oncology*, **2017**, 19, 820-832	1	29
54	Activity-Independent Effects of CREB on Neuronal Survival and Differentiation during Mouse Cerebral Cortex Development. *Cerebral Cortex*, **2018**, 28, 538-548	5.1	27
53	Methods for Systematic Identification of Membrane Proteins for Specific Capture of Cancer-Derived Extracellular Vesicles. *Cell Reports*, **2019**, 27, 255-268.e6	10.6	24
52	Analysis of AKT and ERK1/2 protein kinases in extracellular vesicles isolated from blood of patients with cancer. *Journal of Extracellular Vesicles*, **2014**, 3, 25657	16.4	24
51	Mouse gender influences brain transduction by intravascularly administered AAV9. *Molecular Therapy*, **2013**, 21, 1470-1	11.7	24

50	Functional drug screening assay reveals potential glioma therapeutics. *Assay and Drug Development Technologies*, **2011**, 9, 281-9	2.1	24
49	A water-soluble coelenterazine for sensitive in vivo imaging of coelenterate luciferases. *Molecular Therapy*, **2012**, 20, 692-3	11.7	24
48	Sustained subcutaneous delivery of secretome of human cardiac stem cells promotes cardiac repair following myocardial infarction. *Cardiovascular Research*, **2021**, 117, 918-929	9.9	24
47	Pharmacokinetics of natural and engineered secreted factors delivered by mesenchymal stromal cells. *PLoS ONE*, **2014**, 9, e89882	3.7	23
46	CXCR4 antagonist AMD3100 (plerixafor): From an impurity to a therapeutic agent. *Pharmacological Research*, **2020**, 159, 105010	10.2	22
45	Comparison of conventional guaiac to four immunochemical methods for fecal occult blood testing: implications for clinical practice in hospital and outpatient settings. *Clinica Chimica Acta*, **2009**, 400, 120-2	6.2	21
44	Tumor-Educated Platelet RNA for the Detection and (Pseudo)progression Monitoring of Glioblastoma. *Cell Reports Medicine*, **2020**, 1, 100101	18	21
43	Targeted delivery of neural progenitor cell-derived extracellular vesicles for anti-inflammation after cerebral ischemia. *Theranostics*, **2021**, 11, 6507-6521	12.1	20
42	Systemically administered AAV9-sTRAIL combats invasive glioblastoma in a patient-derived orthotopic xenograft model. *Molecular Therapy - Oncolytics*, **2016**, 3, 16017	6.4	19
41	Recycling drug screen repurposes hydroxyurea as a sensitizer of glioblastomas to temozolomide targeting de novo DNA synthesis, irrespective of molecular subtype. *Neuro-Oncology*, **2018**, 20, 642-654	1	18
40	Systemic anticancer neural stem cells in combination with a cardiac glycoside for glioblastoma therapy. *Stem Cells*, **2014**, 32, 2021-32	5.8	18
39	Targeting cancer cells with the natural compound obtusaquinone. *Journal of the National Cancer Institute*, **2013**, 105, 643-53	9.7	18
38	Regulatory T cells engineered with TCR signaling-responsive IL-2 nanogels suppress alloimmunity in sites of antigen encounter. *Science Translational Medicine*, **2020**, 12,	17.5	18
37	Mutant sodium channel for tumor therapy. *Molecular Therapy*, **2009**, 17, 810-9	11.7	17
36	Intracranial AAV-sTRAIL combined with lanatoside C prolongs survival in an orthotopic xenograft mouse model of invasive glioblastoma. *Molecular Oncology*, **2016**, 10, 625-34	7.9	15
35	Enhanced Gaussia luciferase blood assay for monitoring of in vivo biological processes. *Analytical Chemistry*, **2012**, 84, 1189-92	7.8	15
34	Sensitive assay for mycoplasma detection in mammalian cell culture. *Analytical Chemistry*, **2012**, 84, 4227-32	7.8	14
33	Olfactory Ensheathing Cells: A Trojan Horse for Glioma Gene Therapy. *Journal of the National Cancer Institute*, **2019**, 111, 283-291	9.7	14

32	Multimodal targeted high relaxivity thermosensitive liposome for in vivo imaging. *Scientific Reports*, **2015**, 5, 17220	4.9	13
31	Functional multiplex reporter assay using tagged Gaussia luciferase. *Scientific Reports*, **2013**, 3, 1046	4.9	13
30	Sustained NF-Β-STAT3 signaling promotes resistance to Smac mimetics in Glioma stem-like cells but creates a vulnerability to EZH2 inhibition. *Cell Death Discovery*, **2019**, 5, 72	6.9	11
29	Codon-Optimized Luciola Italica Luciferase Variants for Mammalian Gene Expression in Culture and in Vivo. *Molecular Imaging*, **2012**, 11, 7290.2011.00022	3.7	11
28	Synthesis and evaluation of N-(methylthiophenyl)picolinamide derivatives as PET radioligands for metabotropic glutamate receptor subtype 4. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 133-9	2.9	10
27	Multiplex blood reporters for simultaneous monitoring of cellular processes. *Analytical Chemistry*, **2013**, 85, 10205-10	7.8	10
26	Membrane-bound Gaussia luciferase as a tool to track shedding of membrane proteins from the surface of extracellular vesicles. *Scientific Reports*, **2019**, 9, 17387	4.9	10
25	Identification of ALDH1A3 as a Viable Therapeutic Target in Breast Cancer Metastasis-Initiating Cells. *Molecular Cancer Therapeutics*, **2020**, 19, 1134-1147	6.1	10
24	Long-Term Therapeutic Efficacy of Intravenous AAV-Mediated Hamartin Replacement in Mouse Model of Tuberous Sclerosis Type 1. *Molecular Therapy - Methods and Clinical Development*, **2019**, 15, 18-26	6.4	9
23	Co-operative binding assay for the characterization of mGlu4 allosteric modulators. *Neuropharmacology*, **2015**, 97, 142-8	5.5	9
22	Extracellular Vesicles Induce Mesenchymal Transition and Therapeutic Resistance in Glioblastomas through NF-Β/STAT3 Signaling. *Advanced Biology*, **2020**, 4, e1900312	3.5	9
21	Obtusaquinone: A Cysteine-Modifying Compound That Targets Keap1 for Degradation. *ACS Chemical Biology*, **2020**, 15, 1445-1454	4.9	9
20	Mesenchymal Transformation: The Rosetta Stone of Glioblastoma Pathogenesis and Therapy Resistance. *Advanced Science*, **2020**, 7, 2002015	13.6	8
19	Gene therapy for tuberous sclerosis complex type 2 in a mouse model by delivery of AAV9 encoding a condensed form of tuberin. *Science Advances*, **2021**, 7,	14.3	7
18	A TNF-NF-Β-STAT3 loop triggers resistance of glioma-stem-like cells to Smac mimetics while sensitizing to EZH2 inhibitors. *Cell Death and Disease*, **2019**, 10, 268	9.8	6
17	Measurement of fluoride-induced endoplasmic reticulum stress using Gaussia luciferase. *Methods in Enzymology*, **2011**, 491, 111-25	1.7	6
16	Simultaneous in vivo monitoring of regulatory and effector T lymphocytes using secreted Gaussia luciferase, Firefly luciferase, and secreted alkaline phosphatase. *Methods in Molecular Biology*, **2014** , 1098, 211-27	1.4	6
15	T7 RNA polymerase as a self-replicating label for antigen quantification. *Nucleic Acids Research*, **2002**, 30, e140	20.1	5

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14	Immune Checkpoint Inhibition in GBM Primed with Radiation by Engineered Extracellular Vesicles.. *ACS Nano*, **2022**,	16.7	5
13	An allosteric inhibitor of SHP2 effectively targets PDGFR□driven glioblastoma. *Neuro-Oncology*, **2019**, 21, 1348-1349	1	3
12	Secreted Reporters for Monitoring Multiple Promoter Function. *Methods in Molecular Biology*, **2017** , 1651, 33-47	1.4	3
11	Gaussia luciferase-based mycoplasma detection assay in mammalian cell culture. *Methods in Molecular Biology*, **2014**, 1098, 47-55	1.4	3
10	Re: a Word of Caution on New and Revolutionary Diagnostic Tests. *Cancer Cell*, **2016**, 29, 143-4	24.3	1
9	Tannous et al. Respond. *Molecular Therapy*, **2009**, 17, 1311-1312	11.7	1
8	The natural compound obtusaquinone targets pediatric high-grade gliomas through ROS-mediated ER stress. *Neuro-Oncology Advances*, **2020**, 2, vdaa106	0.9	1
7	Small but Fierce: Tracking the Role of Extracellular Vesicles in Glioblastoma Progression and Therapeutic Resistance. *Advanced Biology*, **2020**, 4, e2000035	3.5	1
6	Promoting Women in Academic Medicine during COVID-19 and Beyond. *Journal of General Internal Medicine*, **2021**, 36, 3292-3294	4	1
5	Imaging Tumor Vascularity and Response to Anti-Angiogenic Therapy Using Gaussia Luciferase. *Scientific Reports*, **2016**, 6, 26353	4.9	1
4	CBM-16TUMOR-EDUCATED PLATELET-BASED LIQUID BIOPSIES IN GLIOBLASTOMA PATIENTS. *Neuro-Oncology*, **2015**, 17, v72.3-v72	1	0
3	Olfactory receptor 5B21 drives breast cancer metastasis.. *IScience*, **2021**, 24, 103519	6.1	0
2	STEM-15. SMALL BUT FIERCE: THE ROLE OF EXTRACELLULAR VESICLES IN MESENCHYMAL TRANSITION AND THERAPEUTIC RESISTANCE IN GLIOBLASTOMA. *Neuro-Oncology*, **2020**, 22, ii199-ii199	1	
1	TAMI-46. FRIEND AND FOE: RADIATION THERAPY INCREASES GLIOBLASTOMA IMMUNE EVASION VIA EVS. *Neuro-Oncology*, **2021**, 23, vi208-vi208	1	