

# Betty M Tyler

## List of Publications by Year in descending order

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102  
papers

5,189  
citations

87888

38  
h-index

91884

69  
g-index

103  
all docs

103  
docs citations

103  
times ranked

7919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(lactic acid) (PLA) controlled delivery carriers for biomedical applications. <i>Advanced Drug Delivery Reviews</i> , 2016, 107, 163-175.	13.7	725
2	Paclitaxel: a review of adverse toxicities and novel delivery strategies. <i>Expert Opinion on Drug Safety</i> , 2007, 6, 609-621.	2.4	388
3	Anti-PD-1 antitumor immunity is enhanced by local and abrogated by systemic chemotherapy in GBM. <i>Science Translational Medicine</i> , 2016, 8, 370ra180.	12.4	243
4	TIGIT and PD-1 dual checkpoint blockade enhances antitumor immunity and survival in GBM. <i>Oncot Immunology</i> , 2018, 7, e1466769.	4.6	217
5	Focal Radiation Therapy Combined with 4-1BB Activation and CTLA-4 Blockade Yields Long-Term Survival and a Protective Antigen-Specific Memory Response in a Murine Glioma Model. <i>PLoS ONE</i> , 2014, 9, e101764.	2.5	206
6	Polymeric Nanoparticles for Nonviral Gene Therapy Extend Brain Tumor Survival <i>in Vivo</i> . <i>ACS Nano</i> , 2015, 9, 1236-1249.	14.6	203
7	Chemotherapeutic drugs released from polymers: distribution of 1,3-bis(2-chloroethyl)-1-nitrosourea in the rat brain. <i>Pharmaceutical Research</i> , 1996, 13, 671-682.	3.5	190
8	Optimizing interstitial delivery of BCNU from controlled release polymers for the treatment of brain tumors. <i>Cancer Chemotherapy and Pharmacology</i> , 1997, 39, 383-389.	2.3	112
9	Local delivery of doxorubicin for the treatment of malignant brain tumors in rats. <i>Anticancer Research</i> , 2005, 25, 3825-31.	1.1	100
10	Interstitial delivery of carboplatin via biodegradable Polymers is effective against experimental glioma in the rat. <i>Cancer Chemotherapy and Pharmacology</i> , 1996, 39, 90-96.	2.3	94
11	Convection enhanced delivery of cisplatin-loaded brain penetrating nanoparticles cures malignant glioma in rats. <i>Journal of Controlled Release</i> , 2017, 263, 112-119.	9.9	90
12	Controlled local delivery of interleukin-2 by biodegradable polymers protects animals from experimental brain tumors and liver tumors. <i>Pharmaceutical Research</i> , 2001, 18, 899-906.	3.5	86
13	Resorbable polymer microchips releasing BCNU inhibit tumor growth in the rat 9L flank model. <i>Journal of Controlled Release</i> , 2007, 123, 172-178.	9.9	85
14	Polymer delivery of camptothecin against 9L gliosarcoma: release, distribution, and efficacy. <i>Journal of Neuro-Oncology</i> , 2002, 56, 209-217.	2.9	84
15	Non-virally engineered human adipose mesenchymal stem cells produce BMP4, target brain tumors, and extend survival. <i>Biomaterials</i> , 2016, 100, 53-66.	11.4	84
16	Uniform brain tumor distribution and tumor associated macrophage targeting of systemically administered dendrimers. <i>Biomaterials</i> , 2015, 52, 507-516.	11.4	83
17	Local delivery of temozolomide by biodegradable polymers is superior to oral administration in a rodent glioma model. <i>Cancer Chemotherapy and Pharmacology</i> , 2007, 60, 643-650.	2.3	81
18	High-Intensity Focused Ultrasound: A Review of Mechanisms and Clinical Applications. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1975-1991.	2.5	77

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19	A thermal gel depot for local delivery of paclitaxel to treat experimental brain tumors in rats. <i>Journal of Neurosurgery</i> , 2010, 113, 210-217.	1.6	76
20	Intracranial microcapsule drug delivery device for the treatment of an experimental gliosarcoma model. <i>Biomaterials</i> , 2011, 32, 2532-2539.	11.4	75
21	Effects of GLIADELÂ® wafer initial molecular weight on the erosion of wafer and release of BCNU. <i>Journal of Controlled Release</i> , 1996, 42, 83-92.	9.9	74
22	Crossing the Blood-Brain Barrier: Advances in Nanoparticle Technology for Drug Delivery in Neuro-Oncology. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4153.	4.1	74
23	Combination of paclitaxel thermal gel depot with temozolomide and radiotherapy significantly prolongs survival in an experimental rodent glioma model. <i>Journal of Neuro-Oncology</i> , 2013, 111, 229-236.	2.9	72
24	<i>Clostridium novyi</i> -NT can cause regression of orthotopically implanted glioblastomas in rats. <i>Oncotarget</i> , 2015, 6, 5536-5546.	1.8	65
25	Biodegradable wafers releasing Temozolomide and Carmustine for the treatment of brain cancer. <i>Journal of Controlled Release</i> , 2019, 295, 93-101.	9.9	64
26	Dendritic cell activation enhances anti-PD-1 mediated immunotherapy against glioblastoma. <i>Oncotarget</i> , 2018, 9, 20681-20697.	1.8	63
27	Local delivery of the topoisomerase I inhibitor camptothecin sodium prolongs survival in the rat intracranial 9L gliosarcoma model. <i>International Journal of Cancer</i> , 1995, 62, 605-609.	5.1	62
28	HIF-1± Targeting Acriflavine Provides Long Term Survival and Radiological Tumor Response in Brain Cancer Therapy. <i>Scientific Reports</i> , 2017, 7, 14978.	3.3	62
29	A miniature multi-contrast microscope for functional imaging in freely behaving animals. <i>Nature Communications</i> , 2019, 10, 99.	12.8	62
30	Intracranial MEMS based temozolomide delivery in a 9L rat gliosarcoma model. <i>Biomaterials</i> , 2012, 33, 5768-5775.	11.4	60
31	Combination of Intracranial Temozolomide With Intracranial Carmustine Improves Survival When Compared With Either Treatment Alone in a Rodent Glioma Model. <i>Neurosurgery</i> , 2010, 66, 530-537.	1.1	57
32	Local delivery of mitoxantrone for the treatment of malignant brain tumors in rats. <i>Journal of Neurosurgery</i> , 2002, 97, 1173-1178.	1.6	54
33	Agonist anti-GITR monoclonal antibody and stereotactic radiation induce immune-mediated survival advantage in murine intracranial glioma. , 2016, 4, 28.		52
34	Polylactofate microspheres for Paclitaxel delivery to central nervous system malignancies. <i>Clinical Cancer Research</i> , 2003, 9, 3441-7.	7.0	50
35	The Use of Ribavirin as an Anticancer Therapeutic: Will It Go Viral?. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 1185-1194.	4.1	49
36	Nanobiotechnology-based delivery strategies: New frontiers in brain tumor targeted therapies. <i>Journal of Controlled Release</i> , 2016, 240, 443-453.	9.9	47

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37	Quantitative multiparametric MRI assessment of glioma response to radiotherapy in a rat model. <i>Neuro-Oncology</i> , 2014, 16, 856-867.	1.2	45
38	Local delivery of cancer-cell glycolytic inhibitors in high-grade glioma. <i>Neuro-Oncology</i> , 2015, 17, 70-80.	1.2	42
39	The effect of regadenoson-induced transient disruption of the blood-brain barrier on temozolomide delivery to normal rat brain. <i>Journal of Neuro-Oncology</i> , 2016, 126, 433-439.	2.9	41
40	Local delivery of minocycline and systemic BCNU have synergistic activity in the treatment of intracranial glioma. <i>Journal of Neuro-Oncology</i> , 2003, 64, 203-209.	2.9	38
41	Multi-layered core-sheath fiber membranes for controlled drug release in the local treatment of brain tumor. <i>Scientific Reports</i> , 2019, 9, 17936.	3.3	38
42	Nonviral polymeric nanoparticles for gene therapy in pediatric CNS malignancies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 23, 102115.	3.3	35
43	Synergistic and targeted therapy with a procaspase-3 activator and temozolomide extends survival in glioma rodent models and is feasible for the treatment of canine malignant glioma patients. <i>Oncotarget</i> , 2017, 8, 80124-80138.	1.8	33
44	Overall Survival in Malignant Glioma Is Significantly Prolonged by Neurosurgical Delivery of Etoposide and Temozolomide from a Thermo-Responsive Biodegradable Paste. <i>Clinical Cancer Research</i> , 2019, 25, 5094-5106.	7.0	32
45	Intraoperative Laser Speckle Contrast Imaging For Real-Time Visualization of Cerebral Blood Flow in Cerebrovascular Surgery: Results From Pre-Clinical Studies. <i>Scientific Reports</i> , 2020, 10, 7614.	3.3	30
46	Local delivery of angiogenesis-inhibitor minocycline combined with radiotherapy and oral temozolomide chemotherapy in 9L glioma. <i>Journal of Neurosurgery</i> , 2014, 120, 662-669.	1.6	29
47	Local delivery of rapamycin: a toxicity and efficacy study in an experimental malignant glioma model in rats. <i>Neuro-Oncology</i> , 2011, 13, 700-709.	1.2	28
48	Miniaturized optical neuroimaging in unrestrained animals. <i>NeuroImage</i> , 2015, 113, 397-406.	4.2	27
49	Intracranial microcapsule chemotherapy delivery for the localized treatment of rodent metastatic breast adenocarcinoma in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16071-16076.	7.1	25
50	Increased expression of glutamate transporter GLT-1 in peritumoral tissue associated with prolonged survival and decreases in tumor growth in a rat model of experimental malignant glioma. <i>Journal of Neurosurgery</i> , 2013, 119, 878-886.	1.6	24
51	Combination of anti-VEGF therapy and temozolomide in two experimental human glioma models. <i>Journal of Neuro-Oncology</i> , 2014, 116, 59-65.	2.9	24
52	Local Delivery of a Synthetic Endostatin Fragment for the Treatment of Experimental Gliomas. <i>Neurosurgery</i> , 2005, 57, 1032-1040.	1.1	23
53	Metformin and Cancer, an Ambiguous Relationship. <i>Pharmaceuticals</i> , 2022, 15, 626.	3.8	22
54	Thermal latency studies in opiate-treated mice. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2014, 6, 43.	0.6	21

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55	Efficacy of local polymer-based and systemic delivery of the anti-glutamatergic agents riluzole and memantine in rat glioma models. <i>Journal of Neurosurgery</i> , 2014, 120, 854-863.	1.6	21
56	MGMT inactivation and clinical response in newly diagnosed GBM patients treated with Gliadel. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 1938-1942.	1.5	21
57	Synthesis, characterization, and self-assembly with plasmid DNA of a quaternary ammonium derivative of pectic galactan and its fluorescent labeling for bioimaging applications. <i>Carbohydrate Polymers</i> , 2016, 150, 308-318.	10.2	20
58	Camptothecin analogs in malignant gliomas: comparative analysis and characterization. <i>Journal of Neurosurgery</i> , 2003, 98, 570-577.	1.6	19
59	Delayed onset of paresis in rats with experimental intramedullary spinal cord gliosarcoma following intratumoral administration of the paclitaxel delivery system OncoGel. <i>Journal of Neurosurgery: Spine</i> , 2011, 16, 1-9.	1.7	17
60	Safety studies of post-surgical buprenorphine therapy for mice. <i>Laboratory Animals</i> , 2015, 49, 100-110.	1.0	17
61	Interstitial chemotherapy for malignant glioma: Future prospects in the era of multimodal therapy. , 2015, 6, 78.		17
62	Microdialysis measurement of intratumoral temozolomide concentration after cediranib, a pan-VEGF receptor tyrosine kinase inhibitor, in a U87 glioma model. <i>Cancer Chemotherapy and Pharmacology</i> , 2013, 72, 93-100.	2.3	15
63	Radiosensitization of malignant gliomas following intracranial delivery of paclitaxel biodegradable polymer microspheres. <i>Journal of Neurosurgery</i> , 2014, 120, 1078-1085.	1.6	15
64	Ribavirin as a potential therapeutic for atypical teratoid/rhabdoid tumors. <i>Oncotarget</i> , 2018, 9, 8054-8067.	1.8	15
65	The impact of bevacizumab on temozolomide concentrations in intracranial U87 gliomas. <i>Cancer Chemotherapy and Pharmacology</i> , 2012, 70, 129-139.	2.3	14
66	Quantitative correlational study of microbubble-enhanced ultrasound imaging and magnetic resonance imaging of glioma and early response to radiotherapy in a rat model. <i>Medical Physics</i> , 2015, 42, 4762-4772.	3.0	14
67	Drug Repurposing for Glioblastoma and Current Advances in Drug Deliveryâ€”A Comprehensive Review of the Literature. <i>Biomolecules</i> , 2021, 11, 1870.	4.0	13
68	Synergy between glutamate modulation and anti-programmed cell death protein 1 immunotherapy for glioblastoma. <i>Journal of Neurosurgery</i> , 2022, 136, 379-388.	1.6	11
69	The Johns Hopkins Hunterian Laboratory Philosophy: Mentoring Students in a Scientific Neurosurgical Research Laboratory. <i>Academic Medicine</i> , 2016, 91, 778-784.	1.6	10
70	The efficacy of lapatinib and nilotinib in combination with radiation therapy in a model of NF2 associated peripheral schwannoma. <i>Journal of Neuro-Oncology</i> , 2017, 135, 47-56.	2.9	10
71	Novel therapeutics for brain tumors: current practice and future prospects. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 9-21.	5.0	10
72	Extravascular Optical Coherence Tomography. <i>Stroke</i> , 2014, 45, 1123-1130.	2.0	9

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73	Repurposing the FDA-Approved Antiviral Drug Ribavirin as Targeted Therapy for Nasopharyngeal Carcinoma. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1797-1808.	4.1	9
74	Ultrasound monitoring of microcirculation: An original study from the laboratory bench to the clinic. <i>Microcirculation</i> , 2022, 29, .	1.8	9
75	Subcutaneous implants for long-acting drug therapy in laboratory animals may generate unintended drug reservoirs. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2014, 6, 38.	0.6	8
76	Inhibition of Corneal Neovascularization by Subconjunctival Injection of Fc-Endostatin, a Novel Inhibitor of Angiogenesis. <i>Journal of Ophthalmology</i> , 2015, 2015, 1-8.	1.3	8
77	Pharmacological strategies for improving the prognosis of glioblastoma. <i>Expert Opinion on Pharmacotherapy</i> , 2021, 22, 2019-2031.	1.8	8
78	Disulfiram and copper combination therapy targets NPL4, cancer stem cells and extends survival in a medulloblastoma model. <i>PLoS ONE</i> , 2021, 16, e0251957.	2.5	8
79	Preclinical efficacy of ribavirin in SHH and group 3 medulloblastoma. <i>Journal of Neurosurgery: Pediatrics</i> , 2021, 27, 482-488.	1.3	7
80	Subcutaneous Implants of a Cholesterol-Triglyceride-Buprenorphine Suspension in Rats. <i>Journal of Veterinary Medicine</i> , 2017, 2017, 1-11.	1.6	6
81	Captopril inhibits Matrix Metalloproteinase-2 and extends survival as a temozolomide adjuvant in an intracranial gliosarcoma model. <i>Clinical Neurology and Neurosurgery</i> , 2021, 207, 106771.	1.4	6
82	Targeted Local Therapy for Management of Intracranial High-Grade Gliomas. <i>Progress in Neurological Surgery</i> , 2018, 32, 159-171.	1.3	5
83	Evaluating the Effects of Cerebrospinal Fluid Protein Content on the Performance of Differential Pressure Valves and Antisiphon Devices Using a Novel Benchtop Shunting Model. <i>Neurosurgery</i> , 2020, 87, 1046-1054.	1.1	4
84	Pectic Galactan Polysaccharide-Based Gene Delivery System for Targeting Neuroinflammation. <i>Advanced Functional Materials</i> , 2021, 31, 2100643.	14.9	4
85	Suspected Lonely Mouse Syndrome as a Cage Effect in a Drug Safety Study. <i>Journal of Veterinary Medicine</i> , 2018, 2018, 1-5.	1.6	3
86	Translational Regulation by hnRNP H/F Is Essential for the Proliferation and Survival of Glioblastoma. <i>Cancers</i> , 2022, 14, 1283.	3.7	3
87	A Long-Term Study of a Lipid-Buprenorphine Implant in Rats. <i>Journal of Veterinary Medicine</i> , 2018, 2018, 1-4.	1.6	2
88	Developing Therapies for Brain Tumors: The Impact of the Johns Hopkins Hunterian Neurosurgical Research Laboratory. <i>Transactions of the American Clinical and Climatological Association</i> , 2017, 128, 55-74.	0.5	2
89	Combined intracranial Acriflavine, temozolomide and radiation extends survival in a rat glioma model. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 170, 179-186.	4.3	2
90	Current and Future Novel Treatments for Glioblastoma Multiforme. <i>BioMed Research International</i> , 2014, 2014, 1-1.	1.9	1

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91	TMOD-35. PRIMARY AND RECURRENT SACRAL CHORDOMA AFFECTS THE HIND LIMBS MOTOR AND NOCICEPTIVE FUNCTION IN RATS: AN ORTHOTOPIC SPINE MODEL. <i>Neuro-Oncology</i> , 2016, 18, vi214-vi214.	1.2	1
92	Buprenorphine implants: a model for expedited development and approval of new drugs. <i>Current Medical Research and Opinion</i> , 2021, 37, 83-88.	1.9	1
93	Neurosurgical Implant-Based Strategy for Brain Cancer Therapy. <i>NeuroMethods</i> , 2021, , 225-244.	0.3	1
94	Gene Therapy for Experimental Brain Tumors Using a Xenogenic Cell Line Engineered to Secrete hIL-2. <i>Journal of Neuro-Oncology</i> , 2003, 64, 155-160.	2.9	0
95	Delayed onset of paresis in rats with experimental intramedullary spinal cord gliosarcoma following intratumoral administration of the paclitaxel delivery system OncoGel. <i>Journal of Neurosurgery: Spine</i> , 0, , 1-9.	1.7	0
96	IMST-58. MODULATING THE MYELOID COMPARTMENT TO POTENTIATE ANTI-PD1 MEDIATED IMMUNOTHERAPY AGAINST GLIOBLASTOMA. <i>Neuro-Oncology</i> , 2016, 18, vi99-vi99.	1.2	0
97	Interstitial Chemotherapy and Polymer Drug Delivery. , 2018, , 155-165.		0
98	Drug-Impregnated Polymer Delivery. , 2019, , 275-296.		0
99	Evaluation of select biocompatible markers for labelling peripheral nerves on 11.7 T MRI. <i>Journal of Neuroscience Methods</i> , 2019, 315, 6-13.	2.5	0
100	CDKS Blockade Enhances In Vivo Efficacy of EGFR Inhibition in Chordomas. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2021, 82, .	0.8	0
101	Design considerations for a miniature multicontrast neuroimager. , 2019, , .		0
102	EXTH-61. COMBINATION OF DISULFIRAM AND COPPER INDUCES NPL4 AGGREGATION, TARGETS CD133-NESTIN CELLS AND EXTENDS SURVIVAL IN MEDULLOBLASTOMA GROUP 3 MODELS. <i>Neuro-Oncology</i> , 2020, 22, ii100-ii100.	1.2	0