

# Angel M. Carcaboso

## List of Publications by Year in descending order

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99  
papers

6,341  
citations

101384

36  
h-index

76769

74  
g-index

105  
all docs

105  
docs citations

105  
times ranked

9781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Molecular Meta-Analysis of 1,000 Pediatric High-Grade and Diffuse Intrinsic Pontine Glioma. <i>Cancer Cell</i> , 2017, 32, 520-537.e5.	7.7	716
2	Developmental and oncogenic programs in H3K27M gliomas dissected by single-cell RNA-seq. <i>Science</i> , 2018, 360, 331-335.	6.0	461
3	Recurrent activating ACVR1 mutations in diffuse intrinsic pontine glioma. <i>Nature Genetics</i> , 2014, 46, 457-461.	9.4	423
4	EZH2 is a potential therapeutic target for H3K27M-mutant pediatric gliomas. <i>Nature Medicine</i> , 2017, 23, 483-492.	15.2	392
5	Heterogeneity of neuroblastoma cell identity defined by transcriptional circuitries. <i>Nature Genetics</i> , 2017, 49, 1408-1413.	9.4	331
6	New old challenges in tuberculosis: Potentially effective nanotechnologies in drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 547-559.	6.6	241
7	Novel and shared neoantigen derived from histone 3 variant H3.3K27M mutation for glioma T cell therapy. <i>Journal of Experimental Medicine</i> , 2018, 215, 141-157.	4.2	186
8	Therapeutic targeting of ependymoma as informed by oncogenic enhancer profiling. <i>Nature</i> , 2018, 553, 101-105.	13.7	170
9	Functional diversity and cooperativity between subclonal populations of pediatric glioblastoma and diffuse intrinsic pontine glioma cells. <i>Nature Medicine</i> , 2018, 24, 1204-1215.	15.2	133
10	Pre-Clinical Study of Panobinostat in Xenograft and Genetically Engineered Murine Diffuse Intrinsic Pontine Glioma Models. <i>PLoS ONE</i> , 2017, 12, e0169485.	1.1	130
11	Deubiquitinase USP13 maintains glioblastoma stem cells by antagonizing FBXL14-mediated Myc ubiquitination. <i>Journal of Experimental Medicine</i> , 2017, 214, 245-267.	4.2	123
12	Conservative management of retinoblastoma: Challenging orthodoxy without compromising the state of metastatic grace. "Alive, with good vision and no comorbidity". <i>Progress in Retinal and Eye Research</i> , 2019, 73, 100764.	7.3	123
13	Biocompatibility Evaluation of Different Alginates and Alginate-Based Microcapsules. <i>Biomacromolecules</i> , 2005, 6, 927-931.	2.6	109
14	Epigenetic loss of RNA-methyltransferase NSUN5 in glioma targets ribosomes to drive a stress adaptive translational program. <i>Acta Neuropathologica</i> , 2019, 138, 1053-1074.	3.9	106
15	An Integrated In Vitro and In Vivo High-Throughput Screen Identifies Treatment Leads for Ependymoma. <i>Cancer Cell</i> , 2011, 20, 384-399.	7.7	105
16	Drug delivery systems in HIV pharmacotherapy: What has been done and the challenges standing ahead. <i>Journal of Controlled Release</i> , 2009, 138, 2-15.	4.8	98
17	Role of ATP-Binding Cassette and Solute Carrier Transporters in Erlotinib CNS Penetration and Intracellular Accumulation. <i>Clinical Cancer Research</i> , 2011, 17, 89-99.	3.2	97
18	Potent, long lasting systemic antibody levels and mixed Th1/Th2 immune response after nasal immunization with malaria antigen loaded PLGA microparticles. <i>Vaccine</i> , 2004, 22, 1423-1432.	1.7	83

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19	The PARP inhibitor olaparib enhances the sensitivity of Ewing sarcoma to trabectedin. <i>Oncotarget</i> , 2015, 6, 18875-18890.	0.8	74
20	ALK2 inhibitors display beneficial effects in preclinical models of ACVR1 mutant diffuse intrinsic pontine glioma. <i>Communications Biology</i> , 2019, 2, 156.	2.0	73
21	Tyrosine Kinase Inhibitor Gefitinib Enhances Topotecan Penetration of Gliomas. <i>Cancer Research</i> , 2010, 70, 4499-4508.	0.4	68
22	Therapeutic targeting of the RB1 pathway in retinoblastoma with the oncolytic adenovirus VCN-01. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	67
23	In vivo CRISPR/Cas9 targeting of fusion oncogenes for selective elimination of cancer cells. <i>Nature Communications</i> , 2020, 11, 5060.	5.8	60
24	Topotecan Vitreous Levels after Periocular or Intravenous Delivery in Rabbits: An Alternative for Retinoblastoma Chemotherapy. , 2007, 48, 3761.		54
25	PPM1D mutations silence NAPRT gene expression and confer NAMPT inhibitor sensitivity in glioma. <i>Nature Communications</i> , 2019, 10, 3790.	5.8	54
26	Compartment-Specific Roles of ATP-Binding Cassette Transporters Define Differential Topotecan Distribution in Brain Parenchyma and Cerebrospinal Fluid. <i>Cancer Research</i> , 2009, 69, 5885-5892.	0.4	52
27	Indinavir-Loaded pH-Sensitive Microparticles for Taste Masking: Toward Extemporaneous Pediatric Anti-HIV/AIDS Liquid Formulations with Improved Patient Compliance. <i>AAPS PharmSciTech</i> , 2009, 10, 1-6.	1.5	52
28	Radiosensitization by Histone H3 Demethylase Inhibition in Diffuse Intrinsic Pontine Glioma. <i>Clinical Cancer Research</i> , 2019, 25, 5572-5583.	3.2	52
29	Bevacizumab Targeting Diffuse Intrinsic Pontine Glioma: Results of 89Zr-Bevacizumab PET Imaging in Brain Tumor Models. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 2166-2174.	1.9	51
30	Efficacy of systemic temozolomide-activated phage-targeted gene therapy in human glioblastoma. <i>EMBO Molecular Medicine</i> , 2019, 11, .	3.3	51
31	CSF H3F3A K27M circulating tumor DNA copy number quantifies tumor growth and in vitro treatment response. <i>Acta Neuropathologica Communications</i> , 2018, 6, 80.	2.4	50
32	Nanomedicines in the future of pediatric therapy. <i>Advanced Drug Delivery Reviews</i> , 2014, 73, 140-161.	6.6	49
33	A Phase I Study of Periocular Topotecan in Children with Intraocular Retinoblastoma. , 2009, 50, 1492.		48
34	Episcleral Implants for Topotecan Delivery to the Posterior Segment of the Eye. , 2010, 51, 2126.		47
35	Subconjunctival carboplatin and systemic topotecan treatment in preclinical models of retinoblastoma. <i>Cancer</i> , 2011, 117, 421-434.	2.0	46
36	A high-risk retinoblastoma subtype with stemness features, dedifferentiated cone states and neuronal/ganglion cell gene expression. <i>Nature Communications</i> , 2021, 12, 5578.	5.8	45

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37	Preclinical Efficacy of Endoglin-Targeting Antibody-Drug Conjugates for the Treatment of Ewing Sarcoma. <i>Clinical Cancer Research</i> , 2019, 25, 2228-2240.	3.2	44
38	Combined Therapy of AXL and HDAC Inhibition Reverses Mesenchymal Transition in Diffuse Intrinsic Pontine Glioma. <i>Clinical Cancer Research</i> , 2020, 26, 3319-3332.	3.2	44
39	Immune response after oral administration of the encapsulated malaria synthetic peptide SPf66. <i>International Journal of Pharmaceutics</i> , 2003, 260, 273-282.	2.6	43
40	SN-38-loaded nanofiber matrices for local control of pediatric solid tumors after subtotal resection surgery. <i>Biomaterials</i> , 2016, 79, 69-78.	5.7	40
41	Senescence Induced by BMI1 Inhibition Is a Therapeutic Vulnerability in H3K27M-Mutant DIPG. <i>Cell Reports</i> , 2020, 33, 108286.	2.9	39
42	OCULAR PHARMACOLOGY OF TOPOTECAN AND ITS ACTIVITY IN RETINOBLASTOMA. <i>Retina</i> , 2014, 34, 1719-1727.	1.0	38
43	Adjuvant activity of polymer microparticles and Montanide ISA 720 on immune responses to Plasmodium falciparum MSP2 long synthetic peptides in mice. <i>Vaccine</i> , 2007, 25, 877-885.	1.7	36
44	Combined treatment with CBP and BET inhibitors reverses inadvertent activation of detrimental super enhancer programs in DIPG cells. <i>Cell Death and Disease</i> , 2020, 11, 673.	2.7	36
45	Targeted drug distribution in tumor extracellular fluid of GD2-expressing neuroblastoma patient-derived xenografts using SN-38-loaded nanoparticles conjugated to the monoclonal antibody 3F8. <i>Journal of Controlled Release</i> , 2017, 255, 108-119.	4.8	35
46	NG2 antigen is involved in leukemia invasiveness and central nervous system infiltration in MLL-rearranged infant B-ALL. <i>Leukemia</i> , 2018, 32, 633-644.	3.3	35
47	ACVR1C/SMAD2 signaling promotes invasion and growth in retinoblastoma. <i>Oncogene</i> , 2019, 38, 2056-2075.	2.6	33
48	Proteomic Profiling of Retinoblastoma-Derived Exosomes Reveals Potential Biomarkers of Vitreous Seeding. <i>Cancers</i> , 2020, 12, 1555.	1.7	33
49	Reciprocal H3.3 gene editing identifies K27M and G34R mechanisms in pediatric glioma including NOTCH signaling. <i>Communications Biology</i> , 2020, 3, 363.	2.0	32
50	Immune Response Generated With the Administration of Autologous Dendritic Cells Pulsed With an Allogenic Tumoral Cell-Lines Lysate in Patients With Newly Diagnosed Diffuse Intrinsic Pontine Glioma. <i>Frontiers in Oncology</i> , 2018, 8, 127.	1.3	31
51	Cell migration in paediatric glioma; characterisation and potential therapeutic targeting. <i>British Journal of Cancer</i> , 2015, 112, 693-703.	2.9	30
52	MELK Inhibition in Diffuse Intrinsic Pontine Glioma. <i>Clinical Cancer Research</i> , 2018, 24, 5645-5657.	3.2	30
53	Treatment of Retinoblastoma: What Is the Latest and What Is the Future. <i>Frontiers in Oncology</i> , 2022, 12, 822330.	1.3	30
54	Enhancing Immunogenicity and Reducing Dose of Microparticulated Synthetic Vaccines: Single Intradermal Administration. <i>Pharmaceutical Research</i> , 2004, 21, 121-126.	1.7	28

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55	Intra-arterial chemotherapy for retinoblastoma. Challenges of a prospective study. <i>Acta Ophthalmologica</i> , 2014, 92, 209-215.	0.6	27
56	Glucosylated nanomicelles target glucose-avid pediatric patient-derived sarcomas. <i>Journal of Controlled Release</i> , 2018, 276, 59-71.	4.8	27
57	Development of a human in vitro blood-brain tumor barrier model of diffuse intrinsic pontine glioma to better understand the chemoresistance. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 37.	2.4	27
58	The combination of epigenetic drugs SAHA and HCl-2509 synergistically inhibits EWS-FLI1 and tumor growth in Ewing sarcoma. <i>Oncotarget</i> , 2018, 9, 31397-31410.	0.8	27
59	Evaluation of a novel antibody to define histone 3.3 G34R mutant brain tumours. <i>Acta Neuropathologica Communications</i> , 2017, 5, 45.	2.4	26
60	Repurposing Vandetanib plus Everolimus for the Treatment of ACVR1-Mutant Diffuse Intrinsic Pontine Glioma. <i>Cancer Discovery</i> , 2022, 12, 416-431.	7.7	25
61	A Novel Method for Rapid Molecular Subgrouping of Medulloblastoma. <i>Clinical Cancer Research</i> , 2018, 24, 1355-1363.	3.2	24
62	RING1B recruits EWSR1-FLI1 and cooperates in the remodeling of chromatin necessary for Ewing sarcoma tumorigenesis. <i>Science Advances</i> , 2020, 6, .	4.7	24
63	Preclinical evaluation of convection-enhanced delivery of liposomal doxorubicin to treat pediatric diffuse intrinsic pontine glioma and thalamic high-grade glioma. <i>Journal of Neurosurgery: Pediatrics</i> , 2017, 19, 518-530.	0.8	23
64	Preclinical platform of retinoblastoma xenografts recapitulating human disease and molecular markers of dissemination. <i>Cancer Letters</i> , 2016, 380, 10-19.	3.2	22
65	Oncolytic Herpes Simplex Virus Inhibits Pediatric Brain Tumor Migration and Invasion. <i>Molecular Therapy - Oncolytics</i> , 2017, 5, 75-86.	2.0	22
66	Tridimensional Retinoblastoma Cultures as Vitreous Seeds Models for Live-Cell Imaging of Chemotherapy Penetration. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1077.	1.8	22
67	PPM1D mutations are oncogenic drivers of de novo diffuse midline glioma formation. <i>Nature Communications</i> , 2022, 13, 604.	5.8	22
68	Selective Accumulation of Galactomannan Amphiphilic Nanomaterials in Pediatric Solid Tumor Xenografts Correlates with GLUT1 Gene Expression. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38483-38496.	4.0	21
69	LIN28B Underlies the Pathogenesis of a Subclass of Ewing Sarcoma. <i>Cell Reports</i> , 2020, 30, 4567-4583.e5.	2.9	20
70	Cinacalcet inhibits neuroblastoma tumor growth and upregulates cancer-testis antigens. <i>Oncotarget</i> , 2016, 7, 16112-16129.	0.8	19
71	In vitro/in vivo characterization of melt-molded gabapentin-loaded poly(epsilon-caprolactone) implants for sustained release in animal studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 70, 666-673.	2.0	18
72	Amphiphilic Polymeric Nanoparticles Modified with a Retro-Enantio Peptide Shuttle Target the Brain of Mice. <i>Chemistry of Materials</i> , 2020, 32, 7679-7693.	3.2	18

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73	Characterization of the Blood–Brain Barrier Integrity and the Brain Transport of SN-38 in an Orthotopic Xenograft Rat Model of Diffuse Intrinsic Pontine Glioma. <i>Pharmaceutics</i> , 2020, 12, 399.	2.0	18
74	Schedule-Dependent Antiangiogenic and Cytotoxic Effects of Chemotherapy on Vascular Endothelial and Retinoblastoma Cells. <i>PLoS ONE</i> , 2016, 11, e0160094.	1.1	18
75	Genomic and Transcriptomic Tumor Heterogeneity in Bilateral Retinoblastoma. <i>JAMA Ophthalmology</i> , 2020, 138, 569.	1.4	17
76	Effect of growing glycosylation extents on the self-assembly and active targeting in vitro of branched poly(ethylene oxide)-poly(propylene oxide) block copolymers. <i>Applied Materials Today</i> , 2018, 11, 57-69.	2.3	16
77	Identification of Novel RAS Signaling Therapeutic Vulnerabilities in Diffuse Intrinsic Pontine Gliomas. <i>Cancer Research</i> , 2019, 79, 4026-4041.	0.4	16
78	Amphiphilic Polymeric Nanoparticles Modified with a Protease-Resistant Peptide Shuttle for the Delivery of SN-38 in Diffuse Intrinsic Pontine Glioma. <i>ACS Applied Nano Materials</i> , 2021, 4, 1314-1329.	2.4	15
79	Magnetic Resonance Imaging–Guided Microdialysis Cannula Implantation in a Spontaneous High-Grade Glioma Murine Model. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4210-4214.	1.6	12
80	RING1B contributes to Ewing sarcoma development by repressing the Nav1.6 sodium channel and the NF- $\kappa$ B pathway, independently of the fusion oncoprotein. <i>Oncotarget</i> , 2016, 7, 46283-46300.	0.8	12
81	SPARC-mediated long-term retention of nab-paclitaxel in pediatric sarcomas. <i>Journal of Controlled Release</i> , 2022, 342, 81-92.	4.8	12
82	Combined Microdialysis-Tumor Homogenate Method for the Study of the Steady State Compartmental Distribution of a Hydrophobic Anticancer Drug in Patient-Derived Xenografts. <i>Pharmaceutical Research</i> , 2015, 32, 2889-2900.	1.7	11
83	Increased delivery of chemotherapy to the vitreous by inhibition of the blood-retinal barrier. <i>Journal of Controlled Release</i> , 2017, 264, 34-44.	4.8	11
84	Multifunctional silica-coated mixed polymeric micelles for integrin-targeted therapy of pediatric patient-derived glioblastoma. <i>Materials Science and Engineering C</i> , 2021, 128, 112261.	3.8	11
85	Prognostic value of patient–derived xenograft engraftment in pediatric sarcomas. <i>Journal of Pathology: Clinical Research</i> , 2021, 7, 338-349.	1.3	10
86	Selective inhibition of HDAC6 regulates expression of the oncogenic driver EWSR1-FLI1 through the EWSR1 promoter in Ewing sarcoma. <i>Oncogene</i> , 2021, 40, 5843-5853.	2.6	10
87	Oklahoma Nitrone-007: novel treatment for diffuse intrinsic pontine glioma. <i>Journal of Translational Medicine</i> , 2020, 18, 424.	1.8	7
88	Treatment-driven selection of chemoresistant Ewing sarcoma tumors with limited drug distribution. <i>Journal of Controlled Release</i> , 2020, 324, 440-449.	4.8	7
89	Translational Pharmacokinetic–Pharmacodynamic Modeling and Simulation: Optimizing 5-Fluorouracil Dosing in Children With Pediatric Ependymoma. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2016, 5, 211-221.	1.3	6
90	PDX-Derived Ewing–Sarcoma Cells Retain High Viability and Disease Phenotype in Alginate Encapsulated Spheroid Cultures. <i>Cancers</i> , 2021, 13, 879.	1.7	6

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91	Tissue Compatibility of SNâ€³8â€³Loaded Anticancer Nanofiber Matrices. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800255.	3.9	5
92	Evofosfamide Is Effective against Pediatric Aggressive Glioma Cell Lines in Hypoxic Conditions and Potentiates the Effect of Cytotoxic Chemotherapy and Ionizing Radiations. <i>Cancers</i> , 2021, 13, 1804.	1.7	5
93	Effective Detection and Monitoring of Glioma Using [18F]FPIA PET Imaging. <i>Biomedicines</i> , 2021, 9, 811.	1.4	5
94	DIPG-29. PRECLINICAL EFFICACY OF COMBINED ACVR1 AND PI3K/mTOR INHIBITION IN DIFFUSE INTRINSIC PONTINE GLIOMA (DIPG). <i>Neuro-Oncology</i> , 2018, 20, i54-i55.	0.6	4
95	Novel long-term anticonvulsant treatment with gabapentin without causing memory impairment in mice. <i>Epilepsy and Behavior</i> , 2010, 17, 157-164.	0.9	3
96	Identification of immunosuppressive factors in retinoblastoma cell secretomes and aqueous humor from patients. <i>Journal of Pathology</i> , 2022, , .	2.1	3
97	Highlights of Children with Cancer UKâ€™s Workshop on Drug Delivery in Paediatric Brain Tumours. <i>Ecanermedicalscience</i> , 2016, 10, 630.	0.6	2
98	Optimizing the storage of chemotherapeutics for ophthalmic oncology: stability of topotecan solution for intravitreal injection. <i>Ophthalmic Genetics</i> , 2020, 41, 397-400.	0.5	2
99	AC-265347 Inhibits Neuroblastoma Tumor Growth by Induction of Differentiation without Causing Hypocalcemia. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4323.	1.8	1