

Ruth J Muschel

List of Publications by Year in descending order

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87
papers

6,267
citations

66343

42
h-index

71685

76
g-index

91
all docs

91
docs citations

91
times ranked

10898
citing authors

#	ARTICLE	IF	CITATIONS
1	A Distinct Macrophage Population Mediates Metastatic Breast Cancer Cell Extravasation, Establishment and Growth. PLoS ONE, 2009, 4, e6562.	2.5	553
2	Targeting the CCL2-CCR2 signaling axis in cancer metastasis. Oncotarget, 2016, 7, 28697-28710.	1.8	378
3	Recruitment of monocytes/macrophages by tissue factor-mediated coagulation is essential for metastatic cell survival and premetastatic niche establishment in mice. Blood, 2012, 119, 3164-3175.	1.4	298
4	Coagulation Facilitates Tumor Cell Spreading in the Pulmonary Vasculature during Early Metastatic Colony Formation. Cancer Research, 2004, 64, 8613-8619.	0.9	260
5	The novel ATR inhibitor VE-821 increases sensitivity of pancreatic cancer cells to radiation and chemotherapy. Cancer Biology and Therapy, 2012, 13, 1072-1081.	3.4	205
6	Liver metastases. Nature Reviews Disease Primers, 2021, 7, 27.	30.5	190
7	Tumor cell $\alpha_3\beta_1$ integrin and vascular laminin-5 mediate pulmonary arrest and metastasis. Journal of Cell Biology, 2004, 164, 935-941.	5.2	185
8	Recruitment of a myeloid cell subset (CD11b/Gr1 ⁺) via CCL2/CCR2 promotes the development of colorectal cancer liver metastasis*. Hepatology, 2013, 57, 829-839.	7.3	183
9	The anti-malarial atovaquone increases radiosensitivity by alleviating tumour hypoxia. Nature Communications, 2016, 7, 12308.	12.8	173
10	PD-1 blockade enhances response of pancreatic ductal adenocarcinoma to radiotherapy. EMBO Molecular Medicine, 2017, 9, 167-180.	6.9	172
11	HIV Protease Inhibitors Block Akt Signaling and Radiosensitize Tumor Cells Both In vitro and In vivo. Cancer Research, 2005, 65, 8256-8265.	0.9	168
12	The stromal compartments in pancreatic cancer: Are there any therapeutic targets?. Cancer Letters, 2014, 343, 147-155.	7.2	155
13	Cancer cells that survive radiation therapy acquire HIF-1 activity and translocate towards tumour blood vessels. Nature Communications, 2012, 3, 783.	12.8	149
14	Novel MMP-9 Substrates in Cancer Cells Revealed by a Label-free Quantitative Proteomics Approach. Molecular and Cellular Proteomics, 2008, 7, 2215-2228.	3.8	147
15	Aspirin blocks formation of metastatic intravascular niches by inhibiting platelet-derived COX-1/thromboxane A2. Journal of Clinical Investigation, 2019, 129, 1845-1862.	8.2	136
16	Tumor Vascular Changes Mediated by Inhibition of Oncogenic Signaling. Cancer Research, 2009, 69, 6347-6354.	0.9	122
17	Dual Inhibition of the PI3K/mTOR Pathway Increases Tumor Radiosensitivity by Normalizing Tumor Vasculature. Cancer Research, 2012, 72, 239-248.	0.9	121
18	Coagulation and metastasis: what does the experimental literature tell us?. British Journal of Haematology, 2013, 162, 433-441.	2.5	107

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19	IP-10/CXCL10 induction in human pancreatic cancer stroma influences lymphocytes recruitment and correlates with poor survival. <i>Oncotarget</i> , 2014, 5, 11064-11080.	1.8	103
20	A core matrisome gene signature predicts cancer outcome. <i>British Journal of Cancer</i> , 2018, 118, 435-440.	6.4	100
21	Type I IFN protects cancer cells from CD8+ T cell-mediated cytotoxicity after radiation. <i>Journal of Clinical Investigation</i> , 2019, 129, 4224-4238.	8.2	95
22	Neutrophils promote hepatic metastasis growth through fibroblast growth factor 2-dependent angiogenesis in mice. <i>Hepatology</i> , 2017, 65, 1920-1935.	7.3	92
23	The prognostic role of desmoplastic stroma in pancreatic ductal adenocarcinoma. <i>Oncotarget</i> , 2016, 7, 4183-4194.	1.8	91
24	Matrix Metalloproteinase-9 Regulates Tumor Cell Invasion through Cleavage of Protease Nexin-1. <i>Cancer Research</i> , 2010, 70, 6988-6998.	0.9	84
25	Drug radiotherapy combinations: Review of previous failures and reasons for future optimism. <i>Cancer Treatment Reviews</i> , 2015, 41, 105-113.	7.7	78
26	VCAM-1 and VAP-1 recruit myeloid cells that promote pulmonary metastasis in mice. <i>Blood</i> , 2013, 121, 3289-3297.	1.4	76
27	FGF2 alters macrophage polarization, tumour immunity and growth and can be targeted during radiotherapy. <i>Nature Communications</i> , 2020, 11, 4064.	12.8	76
28	NVP-BEZ235 and NVP-BGT226, dual phosphatidylinositol 3-kinase/mammalian target of rapamycin inhibitors, enhance tumor and endothelial cell radiosensitivity. <i>Radiation Oncology</i> , 2012, 7, 48.	2.7	73
29	IP-10/CXCL10 attracts regulatory T cells: Implication for pancreatic cancer. <i>Oncolmmunology</i> , 2015, 4, e1027473.	4.6	71
30	Prognostic value, localization and correlation of PD-1/PD-L1, CD8 and FOXP3 with the desmoplastic stroma in pancreatic ductal adenocarcinoma. <i>Oncotarget</i> , 0, 7, 40992-41004.	1.8	69
31	A Comparison of the Behavior of ⁶⁴ Cu-Acetate and ⁶⁴ Cu-ATSM In Vitro and In Vivo. <i>Journal of Nuclear Medicine</i> , 2014, 55, 128-134.	5.0	66
32	Radiation combined with macrophage depletion promotes adaptive immunity and potentiates checkpoint blockade. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	64
33	Colorectal cancer liver metastases organoids retain characteristics of original tumor and acquire chemotherapy resistance. <i>Stem Cell Research</i> , 2018, 27, 109-120.	0.7	60
34	Molecular Magnetic Resonance Imaging of Angiogenesis In Vivo using Polyvalent Cyclic RGD-Iron Oxide Microparticle Conjugates. <i>Theranostics</i> , 2015, 5, 515-529.	10.0	54
35	The pH low insertion peptide pHLIP Variant 3 as a novel marker of acidic malignant lesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9710-9715.	7.1	54
36	Platelets and Metastasis: New Implications of an Old Interplay. <i>Frontiers in Oncology</i> , 2020, 10, 1350.	2.8	53

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37	Irradiation at Ultra-High (FLASH) Dose Rates Reduces Acute Normal Tissue Toxicity in the Mouse Gastrointestinal System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 1250-1261.	0.8	53
38	Tumour-Derived Laminin $\hat{\pm}5$ (LAMA5) Promotes Colorectal Liver Metastasis Growth, Branching Angiogenesis and Notch Pathway Inhibition. <i>Cancers</i> , 2019, 11, 630.	3.7	52
39	Impacts of combining anti-PD-L1 immunotherapy and radiotherapy on the tumour immune microenvironment in a murine prostate cancer model. <i>British Journal of Cancer</i> , 2020, 123, 1089-1100.	6.4	51
40	Gemcitabine-Induced TIMP1 Attenuates Therapy Response and Promotes Tumor Growth and Liver Metastasis in Pancreatic Cancer. <i>Cancer Research</i> , 2017, 77, 5952-5962.	0.9	50
41	Pancreatic ductal adenocarcinoma: From genetics to biology to radiobiology to oncoimmunology and all the way back to the clinic. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2015, 1855, 61-82.	7.4	46
42	Estimating oxygen distribution from vasculature in three-dimensional tumour tissue. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160070.	3.4	46
43	Cd11b+ myeloid cells support hepatic metastasis through downregulation of angiopoietin-like 7 in cancer cells. <i>Hepatology</i> , 2015, 62, 521-533.	7.3	45
44	Micro-CT for Anatomic Referencing in PET and SPECT: Radiation Dose, Biologic Damage, and Image Quality. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1827-1833.	5.0	44
45	Abnormal morphology biases hematocrit distribution in tumor vasculature and contributes to heterogeneity in tissue oxygenation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27811-27819.	7.1	40
46	Protease nexin 1 inhibits hedgehog signaling in prostate adenocarcinoma. <i>Journal of Clinical Investigation</i> , 2012, 122, 4025-4036.	8.2	39
47	The hedgehog inhibitor GANT61 sensitizes prostate cancer cells to ionizing radiation both in vitro and in vivo. <i>Oncotarget</i> , 2016, 7, 84286-84298.	1.8	38
48	Regulation of O ₂ consumption by the PI3K and mTOR pathways contributes to tumor hypoxia. <i>Radiotherapy and Oncology</i> , 2014, 111, 72-80.	0.6	37
49	Buparlisib with thoracic radiotherapy and its effect on tumour hypoxia: A phase I study in patients with advanced non-small cell lung carcinoma. <i>European Journal of Cancer</i> , 2019, 113, 87-95.	2.8	35
50	The unique immune microenvironment of liver metastases: Challenges and opportunities. <i>Seminars in Cancer Biology</i> , 2021, 71, 143-156.	9.6	35
51	Hypoxia Imaging Using PET and SPECT: The Effects of Anesthetic and Carrier Gas on [64Cu]-ATSM, [99mTc]-HL91 and [18F]-FMISO Tumor Hypoxia Accumulation. <i>PLoS ONE</i> , 2011, 6, e25911.	2.5	33
52	Identification of vitamin B1 metabolism as a tumor-specific radiosensitizing pathway using a high-throughput colony formation screen. <i>Oncotarget</i> , 2015, 6, 5978-5989.	1.8	33
53	Deletion of the deISGylating enzyme USP18 enhances tumour cell antigenicity and radiosensitivity. <i>British Journal of Cancer</i> , 2021, 124, 817-830.	6.4	31
54	Clinical Trial of Oral Nelfinavir before and during Radiation Therapy for Advanced Rectal Cancer. <i>Clinical Cancer Research</i> , 2016, 22, 1922-1931.	7.0	30

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55	Microvessel Chaste: An Open Library for Spatial Modeling of Vascularized Tissues. <i>Biophysical Journal</i> , 2017, 112, 1767-1772.	0.5	29
56	The Effect of Metformin and GANT61 Combinations on the Radiosensitivity of Prostate Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2017, 18, 399.	4.1	27
57	Low dose angiostatic treatment counteracts radiotherapy-induced tumor perfusion and enhances the anti-tumor effect. <i>Oncotarget</i> , 2016, 7, 76613-76627.	1.8	27
58	RhoC and ROCKs regulate cancer cell interactions with endothelial cells. <i>Molecular Oncology</i> , 2015, 9, 1043-1055.	4.6	26
59	CsF rescues tumor growth and neoangiogenesis during liver metastasis under host angiopoietin2 deficiency. <i>International Journal of Cancer</i> , 2013, 132, 315-326.	5.1	24
60	Predicting the Influence of Microvascular Structure On Tumor Response to Radiotherapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 504-511.	4.2	22
61	Segmentation of Vasculature From Fluorescently Labeled Endothelial Cells in Multi-Photon Microscopy Images. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1-10.	8.9	22
62	Protease nexin 1 induces apoptosis of prostate tumor cells through inhibition of X-chromosome-linked inhibitor of apoptosis protein. <i>Oncotarget</i> , 2015, 6, 3784-3796.	1.8	19
63	Radiation and ATM inhibition: the heart of the matter. <i>Journal of Clinical Investigation</i> , 2014, 124, 3289-3291.	8.2	17
64	STING-Dependent Interferon-1 Induction in HT29 Cells, a Human Colorectal Cancer Cell Line, After Gamma-Radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 97-106.	0.8	16
65	Prognostic role and correlation of CA9, CD31, CD68 and CD20 with the desmoplastic stroma in pancreatic ductal adenocarcinoma. <i>Oncotarget</i> , 2016, 7, 72819-72832.	1.8	16
66	Protease nexin 1: a novel regulator of prostate cancer cell growth and neo-angiogenesis. <i>Oncotarget</i> , 2013, 4, 1-2.	1.8	16
67	A dual radiolabelling approach for tracking metal complexes: investigating the speciation of copper bis(thiosemicarbazones) in vitro and in vivo. <i>Metallomics</i> , 2015, 7, 795-804.	2.4	15
68	Recruitment of myeloid cells to the tumor microenvironment supports liver metastasis. <i>Oncolmmunology</i> , 2013, 2, e23187.	4.6	14
69	Functional Parameters Derived from Magnetic Resonance Imaging Reflect Vascular Morphology in Preclinical Tumors and in Human Liver Metastases. <i>Clinical Cancer Research</i> , 2018, 24, 4694-4704.	7.0	14
70	Prospective gating control for highly efficient cardio-respiratory synchronised short and constant TR MRI in the mouse. <i>Magnetic Resonance Imaging</i> , 2018, 53, 20-27.	1.8	14
71	Imaging DNA Damage Allows Detection of Preneoplasia in the BALB-neuT Model of Breast Cancer. <i>Journal of Nuclear Medicine</i> , 2014, 55, 2026-2031.	5.0	13
72	Heterogeneity of IFN-Mediated Responses and Tumor Immunogenicity in Patients with Cervical Cancer Receiving Concurrent Chemoradiotherapy. <i>Clinical Cancer Research</i> , 2021, 27, 3990-4002.	7.0	13

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73	An efficient and robust MRI-guided radiotherapy planning approach for targeting abdominal organs and tumours in the mouse. <i>PLoS ONE</i> , 2017, 12, e0176693.	2.5	12
74	Multiscale topology characterizes dynamic tumor vascular networks. <i>Science Advances</i> , 2022, 8, .	10.3	12
75	Proteomic analysis reveals a proteolytic feedback loop in murine seminal fluid. <i>Prostate</i> , 2013, 73, 1427-1440.	2.3	11
76	Tetraspanin in oncogenic epithelial-mesenchymal transition. <i>Journal of Clinical Investigation</i> , 2008, 118, 1347-1350.	8.2	11
77	Patched 1 Expression Correlates with Biochemical Relapse in High-Risk Prostate Cancer Patients. <i>American Journal of Pathology</i> , 2018, 188, 795-804.	3.8	10
78	Tumour irradiation combined with vascular-targeted photodynamic therapy enhances antitumour effects in pre-clinical prostate cancer. <i>British Journal of Cancer</i> , 2021, 125, 534-546.	6.4	8
79	Tissue microarray analysis indicates hedgehog signaling as a potential prognostic factor in intermediate-risk prostate cancer. <i>BMC Cancer</i> , 2017, 17, 634.	2.6	7
80	Proteomics analysis of the matrisome from MC38 experimental mouse liver metastases. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, G625-G639.	3.4	7
81	New evidence of lncRNA role in tumor progression and metastasis. <i>Hepatobiliary Surgery and Nutrition</i> , 2012, 1, 55-6.	1.5	7
82	Protease nexin-1 prevents growth of human B cell lymphoma via inhibition of sonic hedgehog signaling. <i>Blood Cancer Journal</i> , 2018, 8, 24.	6.2	5
83	Altered expression of epithelial-to-mesenchymal transition proteins in extraprostatic prostate cancer. <i>Oncotarget</i> , 2016, 7, 1107-1119.	1.8	5
84	A lineage-tracing tool to map the fate of hypoxic tumour cells. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	4
85	Improving In Vivo High-Resolution CT Imaging of the Tumour Vasculature in Xenograft Mouse Models through Reduction of Motion and Bone-Streak Artefacts. <i>PLoS ONE</i> , 2015, 10, e0128537.	2.5	4
86	A New Assay to Measure Intestinal Crypt Survival after Irradiation: Challenges and Opportunities. <i>Cancer Research</i> , 2020, 80, 927-928.	0.9	3
87	Response: Re: Delta-Like Ligand 4-Notch Blockade and Tumor Radiation Response. <i>Journal of the National Cancer Institute</i> , 2012, 104, 421-422.	6.3	0