

# Ruth J Muschel

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

6,267  
citations

66234

42  
h-index

71532

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.   | 1.1  | 553       |
| 2  | Targeting the CCL2-CCR2 signaling axis in cancer metastasis. Oncotarget, 2016, 7, 28697-28710.   | 0.8  | 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. | 0.6  | 298       |
| 4  | Coagulation Facilitates Tumor Cell Spreading in the Pulmonary Vasculature during Early Metastatic Colony Formation. Cancer Research, 2004, 64, 8613-8619.  | 0.4  | 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.                                  | 1.5  | 205       |
| 6  | Liver metastases. Nature Reviews Disease Primers, 2021, 7, 27.   | 18.1 | 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.   | 2.3  | 185       |
| 8  | Recruitment of a myeloid cell subset (CD11b/Gr1 <sup>+</sup> ) via CCL2/CCR2 promotes the development of colorectal cancer liver metastasis*. Hepatology, 2013, 57, 829-839.                     | 3.6  | 183       |
| 9  | The anti-malarial atovaquone increases radiosensitivity by alleviating tumour hypoxia. Nature Communications, 2016, 7, 12308.  | 5.8  | 173       |
| 10 | PD-1 blockade enhances response of pancreatic ductal adenocarcinoma to radiotherapy. EMBO Molecular Medicine, 2017, 9, 167-180.  | 3.3  | 172       |
| 11 | HIV Protease Inhibitors Block Akt Signaling and Radiosensitize Tumor Cells Both In vitro and In vivo. Cancer Research, 2005, 65, 8256-8265.  | 0.4  | 168       |
| 12 | The stromal compartments in pancreatic cancer: Are there any therapeutic targets?. Cancer Letters, 2014, 343, 147-155.   | 3.2  | 155       |
| 13 | Cancer cells that survive radiation therapy acquire HIF-1 activity and translocate towards tumour blood vessels. Nature Communications, 2012, 3, 783.  | 5.8  | 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.   | 2.5  | 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.                        | 3.9  | 136       |
| 16 | Tumor Vascular Changes Mediated by Inhibition of Oncogenic Signaling. Cancer Research, 2009, 69, 6347-6354.  | 0.4  | 122       |
| 17 | Dual Inhibition of the PI3K/mTOR Pathway Increases Tumor Radiosensitivity by Normalizing Tumor Vasculature. Cancer Research, 2012, 72, 239-248.  | 0.4  | 121       |
| 18 | Coagulation and metastasis: what does the experimental literature tell us?. British Journal of Haematology, 2013, 162, 433-441.  | 1.2  | 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.                                   | 0.8 | 103       |
| 20 | A core matrisome gene signature predicts cancer outcome. <i>British Journal of Cancer</i> , 2018, 118, 435-440.  | 2.9 | 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.  | 3.9 | 95        |
| 22 | Neutrophils promote hepatic metastasis growth through fibroblast growth factor 2-dependent angiogenesis in mice. <i>Hepatology</i> , 2017, 65, 1920-1935.  | 3.6 | 92        |
| 23 | The prognostic role of desmoplastic stroma in pancreatic ductal adenocarcinoma. <i>Oncotarget</i> , 2016, 7, 4183-4194.  | 0.8 | 91        |
| 24 | Matrix Metalloproteinase-9 Regulates Tumor Cell Invasion through Cleavage of Protease Nexin-1. <i>Cancer Research</i> , 2010, 70, 6988-6998.   | 0.4 | 84        |
| 25 | Drug radiotherapy combinations: Review of previous failures and reasons for future optimism. <i>Cancer Treatment Reviews</i> , 2015, 41, 105-113.  | 3.4 | 78        |
| 26 | VCAM-1 and VAP-1 recruit myeloid cells that promote pulmonary metastasis in mice. <i>Blood</i> , 2013, 121, 3289-3297.   | 0.6 | 76        |
| 27 | FGF2 alters macrophage polarization, tumour immunity and growth and can be targeted during radiotherapy. <i>Nature Communications</i> , 2020, 11, 4064.  | 5.8 | 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.      | 1.2 | 73        |
| 29 | IP-10/CXCL10 attracts regulatory T cells: Implication for pancreatic cancer. <i>Oncolmmunology</i> , 2015, 4, e1027473.  | 2.1 | 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.                       | 0.8 | 69        |
| 31 | A Comparison of the Behavior of <sup>64</sup> Cu-Acetate and <sup>64</sup> Cu-ATSM In Vitro and In Vivo. <i>Journal of Nuclear Medicine</i> , 2014, 55, 128-134.   | 2.8 | 66        |
| 32 | Radiation combined with macrophage depletion promotes adaptive immunity and potentiates checkpoint blockade. <i>EMBO Molecular Medicine</i> , 2018, 10, .  | 3.3 | 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.                                  | 0.3 | 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.                                      | 4.6 | 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. | 3.3 | 54        |
| 36 | Platelets and Metastasis: New Implications of an Old Interplay. <i>Frontiers in Oncology</i> , 2020, 10, 1350.   | 1.3 | 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.                               | 0.4 | 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.  | 1.7 | 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.   | 2.9 | 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.   | 0.4 | 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.                                    | 3.3 | 46        |
| 42 | Estimating oxygen distribution from vasculature in three-dimensional tumour tissue. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160070.  | 1.5 | 46        |
| 43 | Cd11b+ myeloid cells support hepatic metastasis through downregulation of angiopoietin-like 7 in cancer cells. <i>Hepatology</i> , 2015, 62, 521-533.  | 3.6 | 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.  | 2.8 | 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. | 3.3 | 40        |
| 46 | Protease nexin 1 inhibits hedgehog signaling in prostate adenocarcinoma. <i>Journal of Clinical Investigation</i> , 2012, 122, 4025-4036.  | 3.9 | 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.  | 0.8 | 38        |
| 48 | Regulation of O <sub>2</sub> consumption by the PI3K and mTOR pathways contributes to tumor hypoxia. <i>Radiotherapy and Oncology</i> , 2014, 111, 72-80.  | 0.3 | 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.   | 1.3 | 35        |
| 50 | The unique immune microenvironment of liver metastases: Challenges and opportunities. <i>Seminars in Cancer Biology</i> , 2021, 71, 143-156.   | 4.3 | 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.   | 1.1 | 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.  | 0.8 | 33        |
| 53 | Deletion of the deISGylating enzyme USP18 enhances tumour cell antigenicity and radiosensitivity. <i>British Journal of Cancer</i> , 2021, 124, 817-830.   | 2.9 | 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.   | 3.2 | 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.  | 0.2 | 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.                                     | 1.8 | 27        |
| 57 | Low dose angiostatic treatment counteracts radiotherapy-induced tumor perfusion and enhances the anti-tumor effect. <i>Oncotarget</i> , 2016, 7, 76613-76627.   | 0.8 | 27        |
| 58 | RhoC and ROCKs regulate cancer cell interactions with endothelial cells. <i>Molecular Oncology</i> , 2015, 9, 1043-1055.  | 2.1 | 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.                                    | 2.3 | 24        |
| 60 | Predicting the Influence of Microvascular Structure On Tumor Response to Radiotherapy. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 504-511.  | 2.5 | 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.                                 | 5.4 | 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.                              | 0.8 | 19        |
| 63 | Radiation and ATM inhibition: the heart of the matter. <i>Journal of Clinical Investigation</i> , 2014, 124, 3289-3291.   | 3.9 | 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. | 0.4 | 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.                                   | 0.8 | 16        |
| 66 | Protease nexin 1: a novel regulator of prostate cancer cell growth and neo-angiogenesis. <i>Oncotarget</i> , 2013, 4, 1-2.  | 0.8 | 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.                  | 1.0 | 15        |
| 68 | Recruitment of myeloid cells to the tumor microenvironment supports liver metastasis. <i>Oncolmmunology</i> , 2013, 2, e23187.  | 2.1 | 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.     | 3.2 | 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.                              | 1.0 | 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.  | 2.8 | 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.          | 3.2 | 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.                              | 1.1 | 12        |
| 74 | Multiscale topology characterizes dynamic tumor vascular networks. <i>Science Advances</i> , 2022, 8, .   | 4.7 | 12        |
| 75 | Proteomic analysis reveals a proteolytic feedback loop in murine seminal fluid. <i>Prostate</i> , 2013, 73, 1427-1440.  | 1.2 | 11        |
| 76 | Tetraspanin in oncogenic epithelial-mesenchymal transition. <i>Journal of Clinical Investigation</i> , 2008, 118, 1347-1350.  | 3.9 | 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.                                    | 1.9 | 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.   | 2.9 | 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.                             | 1.1 | 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.                          | 1.6 | 7         |
| 81 | New evidence of lncRNA role in tumor progression and metastasis. <i>Hepatobiliary Surgery and Nutrition</i> , 2012, 1, 55-6.  | 0.7 | 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.  | 2.8 | 5         |
| 83 | Altered expression of epithelial-to-mesenchymal transition proteins in extraprostatic prostate cancer. <i>Oncotarget</i> , 2016, 7, 1107-1119.  | 0.8 | 5         |
| 84 | A lineage-tracing tool to map the fate of hypoxic tumour cells. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .  | 1.2 | 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. | 1.1 | 4         |
| 86 | A New Assay to Measure Intestinal Crypt Survival after Irradiation: Challenges and Opportunities. <i>Cancer Research</i> , 2020, 80, 927-928.   | 0.4 | 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.  | 3.0 | 0         |