

Vladimir Ponomarev

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,770
citations

136950

32
h-index

98798

67
g-index

72
all docs

72
docs citations

72
times ranked

6851
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct organ-specific metastatic potential of individual breast cancer cells and primary tumors. <i>Journal of Clinical Investigation</i> , 2005, 115, 44-55.	8.2	606
2	Senolytic CAR T cells reverse senescence-associated pathologies. <i>Nature</i> , 2020, 583, 127-132.	27.8	483
3	A novel triple-modality reporter gene for whole-body fluorescent, bioluminescent, and nuclear noninvasive imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004, 31, 740-751.	6.4	266
4	T cell-encoded CD80 and 4-1BBL induce auto- and transcostimulation, resulting in potent tumor rejection. <i>Nature Medicine</i> , 2007, 13, 1440-1449.	30.7	265
5	Serial in vivo imaging of the targeted migration of human HSV-TK-transduced antigen-specific lymphocytes. <i>Nature Biotechnology</i> , 2003, 21, 405-413.	17.5	224
6	Imaging transcriptional regulation of p53-dependent genes with positron emission tomography in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9300-9305.	7.1	223
7	Molecular Imaging of Temporal Dynamics and Spatial Heterogeneity of Hypoxia-Inducible Factor-1 Signal Transduction Activity in Tumors in Living Mice. <i>Cancer Research</i> , 2004, 64, 6101-6108.	0.9	179
8	NF- κ B is essential for the progression of KSHV- and EBV-infected lymphomas in vivo. <i>Blood</i> , 2006, 107, 3295-3302.	1.4	160
9	Imaging TCR-Dependent NFAT-Mediated T-Cell Activation with Positron Emission Tomography In Vivo. <i>Neoplasia</i> , 2001, 3, 480-488.	5.3	150
10	Therapeutic bispecific T-cell engager antibody targeting the intracellular oncoprotein WT1. <i>Nature Biotechnology</i> , 2015, 33, 1079-1086.	17.5	134
11	Prostate-specific membrane antigen cleavage of vitamin B9 stimulates oncogenic signaling through metabotropic glutamate receptors. <i>Journal of Experimental Medicine</i> , 2018, 215, 159-175.	8.5	121
12	Defining an Optimal Dual-Targeted CAR T-cell Therapy Approach Simultaneously Targeting BCMA and GPRC5D to Prevent BCMA Escape-Driven Relapse in Multiple Myeloma. <i>Blood Cancer Discovery</i> , 2020, 1, 146-154.	5.0	114
13	Human reporter genes: potential use in clinical studies. <i>Nuclear Medicine and Biology</i> , 2007, 34, 791-807.	0.6	110
14	Peptide-conjugated antisense oligonucleotides for targeted inhibition of a transcriptional regulator in vivo. <i>Nature Biotechnology</i> , 2008, 26, 91-100.	17.5	108
15	Multimodality in Vivo Molecular-Genetic Imaging. <i>Bioconjugate Chemistry</i> , 2004, 15, 1376-1388.	3.6	104
16	A Human-Derived Reporter Gene for Noninvasive Imaging in Humans: Mitochondrial Thymidine Kinase Type 2. <i>Journal of Nuclear Medicine</i> , 2007, 48, 819-826.	5.0	93
17	Monitoring the Efficacy of Adoptively Transferred Prostate Cancer-Targeted Human T Lymphocytes with PET and Bioluminescence Imaging. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1162-1170.	5.0	84
18	Enhancement of PSMA-Directed CAR Adoptive Immunotherapy by PD-1/PD-L1 Blockade. <i>Molecular Therapy - Oncolytics</i> , 2017, 4, 41-54.	4.4	74

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19	<i>In vivo</i> bioluminescence tomography with a blocking finite-difference method and MRI/CT coregistration. <i>Medical Physics</i> , 2010, 37, 329-338.	3.0	70
20	Zoledronic Acid Inhibits Both the Osteolytic and Osteoblastic Components of Osteosarcoma Lesions in a Mouse Model. <i>Clinical Cancer Research</i> , 2009, 15, 3451-3461.	7.0	68
21	Comparative Analysis of T Cell Imaging with Human Nuclear Reporter Genes. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1055-1060.	5.0	66
22	A New Pyrimidine-Specific Reporter Gene: A Mutated Human Deoxycytidine Kinase Suitable for PET During Treatment with Acycloguanosine-Based Cytotoxic Drugs. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1395-1403.	5.0	59
23	PARP-1 Targeted Radiotherapy in Mouse Models of Glioblastoma. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1225-1233.	5.0	51
24	Cytoplasmically Retargeted HSV1-tk/GFP Reporter Gene Mutants for Optimization of Noninvasive Molecular-Genetic Imaging. <i>Neoplasia</i> , 2003, 5, 245-254.	5.3	48
25	Inflammatory peroxidases promote breast cancer progression in mice via regulation of the tumour microenvironment. <i>International Journal of Oncology</i> , 2017, 50, 1191-1200.	3.3	46
26	Imaging Expression of Cytosine Deaminase-Herpes Virus Thymidine Kinase Fusion Gene (CD/TK) Expression with [¹²⁴ I]FIAU and PET. <i>Molecular Imaging</i> , 2002, 1, 36-42.	1.4	45
27	Hypoxia-activated pro-drug TH-302 exhibits potent tumor suppressive activity and cooperates with chemotherapy against osteosarcoma. <i>Cancer Letters</i> , 2015, 357, 160-169.	7.2	42
28	Apomab, a fully human agonistic antibody to DR5, exhibits potent antitumor activity against primary and metastatic breast cancer. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 2969-2980.	4.1	41
29	Silencing Fc Domains in T cell Engaging Bispecific Antibodies Improves T-cell Trafficking and Antitumor Potency. <i>Cancer Immunology Research</i> , 2019, 7, 2013-2024.	3.4	37
30	Vascular Endothelial Growth Factor-C Induces Lymphangitic Carcinomatosis, an Extremely Aggressive Form of Lung Metastases. <i>Cancer Research</i> , 2010, 70, 1814-1824.	0.9	36
31	Mechanism of cell death mediated by a BF ₂ -chelated tetraarylazadipyromethene photodynamic therapeutic: Dissection of the apoptotic pathway <i>in vitro</i> and <i>in vivo</i> . <i>International Journal of Cancer</i> , 2012, 130, 705-715.	5.1	36
32	Antibody with Infinite Affinity for In Vivo Tracking of Genetically Engineered Lymphocytes. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1894-1900.	5.0	36
33	Investigation of antitumor effects of synthetic epothilone analogs in human myeloma models <i>in vitro</i> and <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10640-10645.	7.1	35
34	Development of a New Reporter Gene System—dsRed/Xanthine Phosphoribosyltransferase-Xanthine for Molecular Imaging of Processes Behind the Intact Blood-Brain Barrier. <i>Molecular Imaging</i> , 2003, 2, 93-112.	1.4	35
35	Apo2L/TRAIL Inhibits Tumor Growth and Bone Destruction in a Murine Model of Multiple Myeloma. <i>Clinical Cancer Research</i> , 2009, 15, 1998-2009.	7.0	32
36	Ornithine Decarboxylase Is Sufficient for Prostate Tumorigenesis via Androgen Receptor Signaling. <i>American Journal of Pathology</i> , 2016, 186, 3131-3145.	3.8	28

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37	Imaging of hypoxia-driven gene expression in an orthotopic liver tumor model. <i>Molecular Cancer Therapeutics</i> , 2007, 6, 2900-2908.	4.1	27
38	Nuclear Imaging of Cancer Cell Therapies. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1013-1016.	5.0	27
39	Anticancer efficacy of the hypoxia-activated prodrug evofosfamide (TH-302) in osteolytic breast cancer murine models. <i>Cancer Medicine</i> , 2016, 5, 534-545.	2.8	27
40	A dual-modal PET/near infrared fluorescent nanotag for long-term immune cell tracking. <i>Biomaterials</i> , 2021, 269, 120630.	11.4	27
41	Optical bioluminescence imaging of human ES cell progeny in the rodent CNS. <i>Journal of Neurochemistry</i> , 2007, 102, 2029-2039.	3.9	26
42	Adoptive transfer of ex vivo expanded $\text{V}\alpha^{\text{39}}\text{V}\beta^{\text{2}}$ T cells in combination with zoledronic acid inhibits cancer growth and limits osteolysis in a murine model of osteolytic breast cancer. <i>Cancer Letters</i> , 2017, 386, 141-150.	7.2	24
43	A New Acycloguanosine-Specific Supermutant of Herpes Simplex Virus Type 1 Thymidine Kinase Suitable for PET Imaging and Suicide Gene Therapy for Potential Use in Patients Treated with Pyrimidine-Based Cytotoxic Drugs. <i>Journal of Nuclear Medicine</i> , 2008, 49, 713-720.	5.0	22
44	Adoptively transferred TRAIL+ T cells suppress GVHD and augment antitumor activity. <i>Journal of Clinical Investigation</i> , 2013, 123, 2654-2662.	8.2	21
45	Pharmacologic inhibition of bone resorption prevents cancer-induced osteolysis but enhances soft tissue metastasis in a mouse model of osteolytic breast cancer. <i>International Journal of Oncology</i> , 2014, 45, 532-540.	3.3	20
46	Advancing Immune and Cell-Based Therapies Through Imaging. <i>Molecular Imaging and Biology</i> , 2017, 19, 379-384.	2.6	20
47	Imaging CAR T-cell kinetics in solid tumors: Translational implications. <i>Molecular Therapy - Oncolytics</i> , 2021, 22, 355-367.	4.4	20
48	Anticancer efficacy of Apo2L/TRAIL is retained in the presence of high and biologically active concentrations of osteoprotegerin in vivo. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 630-643.	2.8	19
49	Comparative Analysis of Human Nucleoside Kinase-Based Reporter Systems for PET Imaging. <i>Molecular Imaging and Biology</i> , 2017, 19, 100-108.	2.6	17
50	Lactate Dehydrogenase A Depletion Alters MyC-CaP Tumor Metabolism, Microenvironment, and CAR T Cell Therapy. <i>Molecular Therapy - Oncolytics</i> , 2020, 18, 382-395.	4.4	17
51	Imaging Transgene Activity <i>In vivo</i> . <i>Cancer Research</i> , 2008, 68, 2878-2884.	0.9	15
52	PET imaging of HSV1-tk mutants with acquired specificity toward pyrimidine- and acycloguanosine-based radiotracers. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009, 36, 1273-1282.	6.4	15
53	Applications of nuclear-based imaging in gene and cell therapy: Probe considerations. <i>Molecular Therapy - Oncolytics</i> , 2021, 20, 447-458.	4.4	13
54	Imaging Expression of Cytosine Deaminase-Herpes Virus Thymidine Kinase Fusion Gene (CD/TK) Expression with $[^{124}\text{I}]\text{FIAU}$ and PET. <i>Molecular Imaging</i> , 2002, 1, 153535002002000.	1.4	12

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55	Non-invasive molecular and functional imaging of cytosine deaminase and uracil phosphoribosyltransferase fused with red fluorescence protein. <i>Acta Oncologica</i> , 2008, 47, 1211-1220.	1.8	12
56	Imaging of CAR T-Cells in Cancer Patients: Paving the Way to Treatment Monitoring and Outcome Prediction. <i>Journal of Nuclear Medicine</i> , 2019, 60, 879-881.	5.0	11
57	Introducing a new reporter gene, membrane-anchored Cypridina luciferase, for multiplex bioluminescence imaging. <i>Molecular Therapy - Oncolytics</i> , 2021, 21, 15-22.	4.4	11
58	Anticancer efficacy of the hypoxia-activated prodrug evofosfamide is enhanced in combination with proapoptotic receptor agonists against osteosarcoma. <i>Cancer Medicine</i> , 2017, 6, 2164-2176.	2.8	9
59	Options for imaging cellular therapeutics in vivo: a multi-stakeholder perspective. <i>Cytotherapy</i> , 2021, 23, 757-773.	0.7	9
60	In vivo 5-fluorouracil and fluoronucleotide T1 relaxation time measurements using the variable nutation angle method. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 169-173.	3.0	8
61	Predicting CAR-T cell Immunotherapy Success through ImmunoPET. <i>Clinical Cancer Research</i> , 2021, 27, 911-912.	7.0	6
62	Ex Vivo Radiolabeling and In Vivo PET Imaging of T Cells Expressing Nuclear Reporter Genes. <i>Methods in Molecular Biology</i> , 2018, 1790, 153-163.	0.9	5
63	Development of a New Reporter Gene System-dsRed/Xanthine Phosphoribosyltransferase-Xanthine for Molecular Imaging of Processes Behind the Intact Blood-Brain Barrier. <i>Molecular Imaging</i> , 2003, 2, 153535002003031.	1.4	4
64	PET-based reporter gene imaging. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2004, 23, 38-50.	0.8	4
65	Imaging T Cell Dynamics and Function Using PET and Human Nuclear Reporter Genes. <i>Methods in Molecular Biology</i> , 2018, 1790, 165-180.	0.9	4
66	Doxorubicin overcomes resistance to drozitumab by antagonizing Inhibitor of Apoptosis Proteins (IAPs). <i>Anticancer Research</i> , 2014, 34, 7007-20.	1.1	3
67	Imaging Regulation of Endogenous Gene Expression Using Spliceosome-Mediated <i>Trans</i> Splicing. <i>Journal of Nuclear Medicine</i> , 2008, 49, 1035-1037.	5.0	2
68	Zoledronate Enhances the Cytotoxicity of Gamma Delta T Cell Immunotherapy in an Orthotopic Mouse Model of Osteolytic Osteosarcoma. <i>Journal of Cancer Science & Therapy</i> , 2018, 10, .	1.7	1
69	Editorial to the Special Issue Entitled "Imaging in Immunooncology". <i>Molecular Imaging and Biology</i> , 2022, 24, 177-180.	2.6	1
70	Imaging Regulation of Endogenous Gene Expression in Living Subjects. , 0, , 239-257.		0