

# Robert J Gillies

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6648917/publications.pdf>

Version: 2024-02-01

185  
papers

42,447  
citations

9264

74  
h-index

4015

176  
g-index

207  
all docs

207  
docs citations

207  
times ranked

36388  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cancer heterogeneity and metastasis: life at the edge. <i>Clinical and Experimental Metastasis</i> , 2022, 39, 15-19.	3.3	22
2	AI-Radiomics Can Improve Inclusion Criteria and Clinical Trial Performance. <i>Tomography</i> , 2022, 8, 341-355.	1.8	4
3	Volume doubling time and radiomic features predict tumor behavior of screen-detected lung cancers. <i>Cancer Biomarkers</i> , 2022, 33, 489-501.	1.7	4
4	Lipogenesis mediated by OGR1 regulates metabolic adaptation to acid stress in cancer cells via autophagy. <i>Cell Reports</i> , 2022, 39, 110796.	6.4	13
5	Images Are Data: Challenges and Opportunities in the Clinical Translation of Radiomics. <i>Cancer Research</i> , 2022, 82, 2066-2068.	0.9	12
6	Proton export upregulates aerobic glycolysis. <i>BMC Biology</i> , 2022, 20, .	3.8	7
7	Artificial selection for host resistance to tumour growth and subsequent cancer cell adaptations: an evolutionary arms race. <i>British Journal of Cancer</i> , 2021, 124, 455-465.	6.4	6
8	Mutationâ€“selection balance and compensatory mechanisms in tumour evolution. <i>Nature Reviews Genetics</i> , 2021, 22, 251-262.	16.3	38
9	Heterogeneity analysis of MRI T2 maps for measurement of early tumor response to radiotherapy. <i>NMR in Biomedicine</i> , 2021, 34, e4454.	2.8	12
10	The harsh microenvironment in early breast cancer selects for a Warburg phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	78
11	Application of Radiomics and Artificial Intelligence for Lung Cancer Precision Medicine. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2021, 11, a039537.	6.2	46
12	Deep-learning and MR images to target hypoxic habitats with evofosfamide in preclinical models of sarcoma. <i>Theranostics</i> , 2021, 11, 5313-5329.	10.0	11
13	Cycling hypoxia selects for constitutive HIF stabilization. <i>Scientific Reports</i> , 2021, 11, 5777.	3.3	16
14	Frequency-dependent interactions determine outcome of competition between two breast cancer cell lines. <i>Scientific Reports</i> , 2021, 11, 4908.	3.3	21
15	The Biological Meaning of Radiomic Features. <i>Radiology</i> , 2021, 298, 505-516.	7.3	242
16	Radiomics predicts risk of cachexia in advanced NSCLC patients treated with immune checkpoint inhibitors. <i>British Journal of Cancer</i> , 2021, 125, 229-239.	6.4	21
17	Extracellular Acidification Induces Lysosomal Dysregulation. <i>Cells</i> , 2021, 10, 1188.	4.1	9
18	Acid-Induced Inflammatory Cytokines in Osteoblasts: A Guided Path to Osteolysis in Bone Metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 678532.	3.7	8

#	ARTICLE	IF	CITATIONS
19	Hypoxia-Related Radiomics and Immunotherapy Response: A Multicohort Study of Non-Small Cell Lung Cancer. JNCI Cancer Spectrum, 2021, 5, pkab048.	2.9	23
20	Non-invasive measurement of PD-L1 status and prediction of immunotherapy response using deep learning of PET/CT images. , 2021, 9, e002118.		75
21	Predicting the results of competition between two breast cancer lines grown in 3-D spheroid culture. Mathematical Biosciences, 2021, 336, 108575.	1.9	0
22	Macrophage-Derived Cholesterol Contributes to Therapeutic Resistance in Prostate Cancer. Cancer Research, 2021, 81, 5477-5490.	0.9	48
23	Coupled Source-Sink Habitats Produce Spatial and Temporal Variation of Cancer Cell Molecular Properties as an Alternative to Branched Clonal Evolution and Stem Cell Paradigms. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	10
24	Integrated Biomarkers for the Management of Indeterminate Pulmonary Nodules. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1306-1316.	5.6	36
25	Targeting of Evolutionarily Acquired Cancer Cell Phenotype by Exploiting pHi-Metabolic Vulnerabilities. Cancers, 2021, 13, 64.	3.7	8
26	A systematic review and quality of reporting checklist for repeatability and reproducibility of radiomic features. Physics and Imaging in Radiation Oncology, 2021, 20, 69-75.	2.9	37
27	Modeling Tumor: Lymphatic Interactions in Lymphatic Metastasis of Triple Negative Breast Cancer. Cancers, 2021, 13, 6044.	3.7	1
28	Delta radiomics analysis of Magnetic Resonance guided radiotherapy imaging data can enable treatment response prediction in pancreatic cancer. Radiation Oncology, 2021, 16, 237.	2.7	22
29	Whole-tumor radiomics analysis of DKI and DTI may improve the prediction of genotypes for astrocytomas: A preliminary study. European Journal of Radiology, 2020, 124, 108785.	2.6	7
30	Radiomics of 18F-FDG PET/CT images predicts clinical benefit of advanced NSCLC patients to checkpoint blockade immunotherapy. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1168-1182.	6.4	115
31	Non-invasive decision support for NSCLC treatment using PET/CT radiomics. Nature Communications, 2020, 11, 5228.	12.8	149
32	Cereblon harnesses Myc-dependent bioenergetics and activity of CD8+ T lymphocytes. Blood, 2020, 136, 857-870.	1.4	18
33	Collagen production and niche engineering: A novel strategy for cancer cells to survive acidosis in DCIS and evolve. Evolutionary Applications, 2020, 13, 2689-2703.	3.1	11
34	Radiomics Improves Cancer Screening and Early Detection. Cancer Epidemiology Biomarkers and Prevention, 2020, 29, 2556-2567.	2.5	67
35	T-cells produce acidic niches in lymph nodes to suppress their own effector functions. Nature Communications, 2020, 11, 4113.	12.8	77
36	<p></p>Multi-Window CT Based Radiological Traits for Improving Early Detection in Lung Cancer Screening<p></p>. Cancer Management and Research, 2020, Volume 12, 12225-12238.	1.9	3

#	ARTICLE	IF	CITATIONS
37	<sup>18</sup> F-FDG PET/CT Habitat Radiomics Predicts Outcome of Patients with Cervical Cancer Treated with Chemoradiotherapy. Radiology: Artificial Intelligence, 2020, 2, e190218.	5.8	19
38	Radiomics of <sup>18</sup> F Fluorodeoxyglucose PET/CT Images Predicts Severe Immune-related Adverse Events in Patients with NSCLC. Radiology: Artificial Intelligence, 2020, 2, e190063.	5.8	24
39	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	7.3	1,869
40	Causes and Consequences of Variable Tumor Cell Metabolism on Heritable Modifications and Tumor Evolution. Frontiers in Oncology, 2020, 10, 373.	2.8	5
41	Convolutional Neural Network ensembles for accurate lung nodule malignancy prediction 2 years in the future. Computers in Biology and Medicine, 2020, 122, 103882.	7.0	22
42	Peritumoral and intratumoral radiomic features predict survival outcomes among patients diagnosed in lung cancer screening. Scientific Reports, 2020, 10, 10528.	3.3	46
43	Mitigating Adversarial Attacks on Medical Image Understanding Systems. , 2020, , .		20
44	Mix and Match: Phenotypic Coexistence as a Key Facilitator of Cancer Invasion. Bulletin of Mathematical Biology, 2020, 82, 15.	1.9	13
45	A shallow convolutional neural network predicts prognosis of lung cancer patients in multi-institutional computed tomography image datasets. Nature Machine Intelligence, 2020, 2, 274-282.	16.0	54
46	Hybrid models for lung nodule malignancy prediction utilizing convolutional neural network ensembles and clinical data. Journal of Medical Imaging, 2020, 7, 1.	1.5	3
47	Lung Nodule Sizes Are Encoded When Scaling CT Image for CNN's. Tomography, 2020, 6, 209-215.	1.8	5
48	Deep Feature Stability Analysis Using CT Images of a Physical Phantom across Scanner Manufacturers, Cartridges, Pixel Sizes, and Slice Thickness. Tomography, 2020, 6, 250-260.	1.8	6
49	Acidity promotes tumour progression by altering macrophage phenotype in prostate cancer. British Journal of Cancer, 2019, 121, 556-566.	6.4	86
50	Preface. Cancer and Metastasis Reviews, 2019, 38, 3-3.	5.9	0
51	Improving survival prediction of high-grade glioma via machine learning techniques based on MRI radiomic, genetic and clinical risk factors. European Journal of Radiology, 2019, 120, 108609.	2.6	48
52	Multi-window CT based Radiomic signatures in differentiating indolent versus aggressive lung cancers in the National Lung Screening Trial: a retrospective study. Cancer Imaging, 2019, 19, 45.	2.8	18
53	Stability and reproducibility of computed tomography radiomic features extracted from peritumoral regions of lung cancer lesions. Medical Physics, 2019, 46, 5075-5085.	3.0	49
54	Novel clinical and radiomic predictors of rapid disease progression phenotypes among lung cancer patients treated with immunotherapy: An early report. Lung Cancer, 2019, 129, 75-79.	2.0	113

#	ARTICLE	IF	CITATIONS
55	Targeting acidity in cancer and diabetes. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1871, 273-280.	7.4	70
56	Multiparametric MRI and Coregistered Histology Identify Tumor Habitats in Breast Cancer Mouse Models. Cancer Research, 2019, 79, 3952-3964.	0.9	46
57	Quantitative Imaging features Improve Discrimination of Malignancy in Pulmonary nodules. Scientific Reports, 2019, 9, 8528.	3.3	35
58	The role of carbonic anhydrase IX in cancer development: links to hypoxia, acidosis, and beyond. Cancer and Metastasis Reviews, 2019, 38, 65-77.	5.9	252
59	Causes, consequences, and therapy of tumors acidosis. Cancer and Metastasis Reviews, 2019, 38, 205-222.	5.9	200
60	Revealing Tumor Habitats from Texture Heterogeneity Analysis for Classification of Lung Cancer Malignancy and Aggressiveness. Scientific Reports, 2019, 9, 4500.	3.3	31
61	Translating preclinical MRI methods to clinical oncology. Journal of Magnetic Resonance Imaging, 2019, 50, 1377-1392.	3.4	24
62	Artificial intelligence in cancer imaging: Clinical challenges and applications. Ca-A Cancer Journal for Clinicians, 2019, 69, 127-157.	329.8	965
63	Direct and indirect assessment of cancer metabolism explored by MRI. NMR in Biomedicine, 2019, 32, e3966.	2.8	6
64	Explaining Deep Features Using Radiologist-Defined Semantic Features and Traditional Quantitative Features. Tomography, 2019, 5, 192-200.	1.8	24
65	Habitats in DCE-MRI to Predict Clinically Significant Prostate Cancers. Tomography, 2019, 5, 68-76.	1.8	12
66	Towards deep radiomics: nodule malignancy prediction using CNNs on feature images. , 2019, , .		1
67	Hypoxia and acidosis: immune suppressors and therapeutic targets. Immunology, 2018, 154, 354-362.	4.4	167
68	Prediction of pathological nodal involvement by <scp>CT</scp>-based Radiomic features of the primary tumor in patients with clinically node-negative peripheral lung adenocarcinomas. Medical Physics, 2018, 45, 2518-2526.	3.0	26
69	Perfusion MR Imaging of Breast Cancer: Insights Using "Habitat Imaging". Radiology, 2018, 288, 36-37.	7.3	12
70	Comparison Between Radiological Semantic Features and Lung-RADS in Predicting Malignancy of Screen-Detected Lung Nodules in the National Lung Screening Trial. Clinical Lung Cancer, 2018, 19, 148-156.e3.	2.6	20
71	Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches. American Journal of Neuroradiology, 2018, 39, 208-216.	2.4	281
72	Radiologic Features of Small Pulmonary Nodules and Lung Cancer Risk in the National Lung Screening Trial: A Nested Case-Control Study. Radiology, 2018, 286, 298-306.	7.3	58

#	ARTICLE	IF	CITATIONS
73	Representation of Deep Features using Radiologist defined Semantic Features. , 2018, 2018, .		2
74	Delta radiomic features improve prediction for lung cancer incidence: A nested caseâ€“control analysis of the National Lung Screening Trial. Cancer Medicine, 2018, 7, 6340-6356.	2.8	27
75	Deep learning for lung cancer prognostication: A retrospective multi-cohort radiomics study. PLoS Medicine, 2018, 15, e1002711.	8.4	385
76	Delta Radiomics Improves Pulmonary Nodule Malignancy Prediction in Lung Cancer Screening. IEEE Access, 2018, 6, 77796-77806.	4.2	72
77	Predicting Nodule Malignancy using a CNN Ensemble Approach. , 2018, 2018, .		32
78	Quantitative imaging of cancer in the postgenomic era: Radio(geno)mics, deep learning, and habitats. Cancer, 2018, 124, 4633-4649.	4.1	125
79	Repeatability and Reproducibility of Radiomic Features: A Systematic Review. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1143-1158.	0.8	527
80	Acid Suspends the Circadian Clock in Hypoxia through Inhibition of mTOR. Cell, 2018, 174, 72-87.e32.	28.9	172
81	Metabolic and Physiologic Imaging Biomarkers of the Tumor Microenvironment Predict Treatment Outcome with Radiation or a Hypoxia-Activated Prodrug in Mice. Cancer Research, 2018, 78, 3783-3792.	0.9	42
82	Systems analysis of intracellular pH vulnerabilities for cancer therapy. Nature Communications, 2018, 9, 2997.	12.8	277
83	Voxel size and gray level normalization of CT radiomic features in lung cancer. Scientific Reports, 2018, 8, 10545.	3.3	150
84	Eco-evolutionary causes and consequences of temporal changes in intratumoural blood flow. Nature Reviews Cancer, 2018, 18, 576-585.	28.4	106
85	Predicting malignant nodules by fusing deep features with classical radiomics features. Journal of Medical Imaging, 2018, 5, 1.	1.5	68
86	Defining Cancer Subpopulations by Adaptive Strategies Rather Than Molecular Properties Provides Novel Insights into Intratumoral Evolution. Cancer Research, 2017, 77, 2242-2254.	0.9	110
87	Imaging features from pretreatment <sc>CT</sc> scans are associated with clinical outcomes in nonsmallâ€“cell lung cancer patients treated with stereotactic body radiotherapy. Medical Physics, 2017, 44, 4341-4349.	3.0	53
88	The future of personalised radiotherapy for head and neck cancer. Lancet Oncology, The, 2017, 18, e266-e273.	10.7	168
89	Associations between radiologist-defined semantic and automatically computed radiomic features in non-small cell lung cancer. Scientific Reports, 2017, 7, 3519.	3.3	87
90	<sc>Tris</sc>â€“base buffer: a promising new inhibitor for cancer progression and metastasis. Cancer Medicine, 2017, 6, 1720-1729.	2.8	44

#	ARTICLE	IF	CITATIONS
91	Somatic Mutations Drive Distinct Imaging Phenotypes in Lung Cancer. Cancer Research, 2017, 77, 3922-3930.	0.9	307
92	Multi-site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. Medical Physics, 2017, 44, 479-496.	3.0	22
93	Linking Circulating Long Non-coding RNAs to the Diagnosis and Malignant Prediction of Intraductal Papillary Mucinous Neoplasms of the Pancreas. Scientific Reports, 2017, 7, 10484.	3.3	60
94	Metabolic Profiling of healthy and cancerous tissues in 2D and 3D. Scientific Reports, 2017, 7, 15285.	3.3	72
95	Radiological Image Traits Predictive of Cancer Status in Pulmonary Nodules. Clinical Cancer Research, 2017, 23, 1442-1449.	7.0	76
96	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	27.6	792
97	Cancer-associated mesenchymal stroma fosters the stemness of osteosarcoma cells in response to intratumoral acidosis via NF- $\kappa$ B activation. International Journal of Cancer, 2017, 140, 1331-1345.	5.1	107
98	Phenotypic changes of acid-adapted cancer cells push them toward aggressiveness in their evolution in the tumor microenvironment. Cell Cycle, 2017, 16, 1739-1743.	2.6	51
99	CT imaging features associated with recurrence in non-small cell lung cancer patients after stereotactic body radiotherapy. Radiation Oncology, 2017, 12, 158.	2.7	63
100	Radial gradient and radial deviation radiomic features from pre-surgical CT scans are associated with survival among lung adenocarcinoma patients. Oncotarget, 2017, 8, 96013-96026.	1.8	26
101	Pseudohypoxia: Life at the Edge. , 2017, , 57-68.		9
102	Defining the biological basis of radiomic phenotypes in lung cancer. ELife, 2017, 6, .	6.0	258
103	Delineation of Tumor Habitats based on Dynamic Contrast Enhanced MRI. Scientific Reports, 2017, 7, 9746.	3.3	48
104	Coevolution of Tumor Cells and Their Microenvironment: "Niche Construction in Cancer", 2017, , 111-117.		10
105	Intratumoral acidosis fosters cancer-induced bone pain through the activation of the mesenchymal tumor-associated stroma in bone metastasis from breast carcinoma. Oncotarget, 2017, 8, 54478-54496.	1.8	35
106	Radiomics of Lung Nodules: A Multi-Institutional Study of Robustness and Agreement of Quantitative Imaging Features. Tomography, 2016, 2, 430-437.	1.8	108
107	Deep Feature Transfer Learning in Combination with Traditional Features Predicts Survival among Patients with Lung Adenocarcinoma. Tomography, 2016, 2, 388-395.	1.8	128
108	Combining radiomic features with a miRNA classifier may improve prediction of malignant pathology for pancreatic intraductal papillary mucinous neoplasms. Oncotarget, 2016, 7, 85785-85797.	1.8	106

#	ARTICLE	IF	CITATIONS
109	Improving malignancy prediction through feature selection informed by nodule size ranges in NLST. , 2016, 2016, 001939-1944.		5
110	Association Between Computed Tomographic Features and Kirsten Rat Sarcoma Viral Oncogene Mutations in Patients With Stage I Lung Adenocarcinoma and Their Prognostic Value. Clinical Lung Cancer, 2016, 17, 271-278.	2.6	17
111	Predicting Malignant Nodules from Screening CT Scans. Journal of Thoracic Oncology, 2016, 11, 2120-2128.	1.1	226
112	Clinical and CT characteristics of surgically resected lung adenocarcinomas harboring ALK rearrangements or EGFR mutations. European Journal of Radiology, 2016, 85, 1934-1940.	2.6	27
113	PET and MRI: Is the Whole Greater than the Sum of Its Parts?. Cancer Research, 2016, 76, 6163-6166.	0.9	18
114	Lysosomal protein relocation as an adaptation mechanism to extracellular acidosis. Cell Cycle, 2016, 15, 1659-1660.	2.6	12
115	Neutralization of Tumor Acidity Improves Antitumor Responses to Immunotherapy. Cancer Research, 2016, 76, 1381-1390.	0.9	451
116	Radiomic Features Are Associated With EGFR Mutation Status in Lung Adenocarcinomas. Clinical Lung Cancer, 2016, 17, 441-448.e6.	2.6	264
117	Darwinian Dynamics of Intratumoral Heterogeneity: Not Solely Random Mutations but Also Variable Environmental Selection Forces. Cancer Research, 2016, 76, 3136-3144.	0.9	205
118	Exploiting evolutionary principles to prolong tumor control in preclinical models of breast cancer. Science Translational Medicine, 2016, 8, 327ra24.	12.4	260
119	CT Features Associated with Epidermal Growth Factor Receptor Mutation Status in Patients with Lung Adenocarcinoma. Radiology, 2016, 280, 271-280.	7.3	180
120	A Comparison of Lung Nodule Segmentation Algorithms: Methods and Results from a Multi-institutional Study. Journal of Digital Imaging, 2016, 29, 476-487.	2.9	68
121	Radiomics: Images Are More than Pictures, They Are Data. Radiology, 2016, 278, 563-577.	7.3	5,341
122	Evaluation of CAIX and CAXII Expression in Breast Cancer at Varied O2 Levels: CAIX is the Superior Surrogate Imaging Biomarker of Tumor Hypoxia. Molecular Imaging and Biology, 2016, 18, 219-231.	2.6	69
123	MR Imaging Biomarkers to Monitor Early Response to Hypoxia-Activated Prodrug TH-302 in Pancreatic Cancer Xenografts. PLoS ONE, 2016, 11, e0155289.	2.5	21
124	Differences in Patient Outcomes of Prevalence, Interval, and Screen-Detected Lung Cancers in the CT Arm of the National Lung Screening Trial. PLoS ONE, 2016, 11, e0159880.	2.5	46
125	Association of multiparametric MRI quantitative imaging features with prostate cancer gene expression in MRI-targeted prostate biopsies. Oncotarget, 2016, 7, 53362-53376.	1.8	90
126	Prostate cancer radiomics and the promise of radiogenomics. Translational Cancer Research, 2016, 5, 432-447.	1.0	111



#	ARTICLE	IF	CITATIONS
127	Chronic acidosis in the tumour microenvironment selects for overexpression of LAMP2 in the plasma membrane. <i>Nature Communications</i> , 2015, 6, 8752.	12.8	151
128	The effect of SUV discretization in quantitative FDG-PET Radiomics: the need for standardized methodology in tumor texture analysis. <i>Scientific Reports</i> , 2015, 5, 11075.	3.3	318
129	Heterogeneity in intratumoral regions with rapid gadolinium washout correlates with estrogen receptor status and nodal metastasis. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1421-1430.	3.4	44
130	Quantitative Computed Tomographic Descriptors Associate Tumor Shape Complexity and Intratumor Heterogeneity with Prognosis in Lung Adenocarcinoma. <i>PLoS ONE</i> , 2015, 10, e0118261.	2.5	207
131	Semiquantitative Computed Tomography Characteristics for Lung Adenocarcinoma and Their Association With Lung Cancer Survival. <i>Clinical Lung Cancer</i> , 2015, 16, e141-e163.	2.6	43
132	Impact of Metabolic Heterogeneity on Tumor Growth, Invasion, and Treatment Outcomes. <i>Cancer Research</i> , 2015, 75, 1567-1579.	0.9	256
133	Pyruvate sensitizes pancreatic tumors to hypoxia-activated prodrug TH-302. <i>Cancer &amp; Metabolism</i> , 2015, 3, 2.	5.0	69
134	Metabolism and Its Sequelae in Cancer Evolution and Therapy. <i>Cancer Journal (Sudbury, Mass )</i> , 2015, 21, 88-96.	2.0	65
135	Noninvasive Quantitative Imaging-based Biomarkers and Lung Cancer Screening. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 654-656.	5.6	4
136	Intermittent Hypoxia Selects for Genotypes and Phenotypes That Increase Survival, Invasion, and Therapy Resistance. <i>PLoS ONE</i> , 2015, 10, e0120958.	2.5	65
137	Evaluation of the "Steal" Phenomenon on the Efficacy of Hypoxia Activated Prodrug TH-302 in Pancreatic Cancer. <i>PLoS ONE</i> , 2014, 9, e113586.	2.5	26
138	Janus-Faced Tumor Microenvironment and Redox. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 723-729.	5.4	72
139	Predicting Outcomes of Nonsmall Cell Lung Cancer Using CT Image Features. <i>IEEE Access</i> , 2014, 2, 1418-1426.	4.2	104
140	Carbonic Anhydrase IX as an Imaging and Therapeutic Target for Tumors and Metastases. <i>Sub-Cellular Biochemistry</i> , 2014, 75, 221-254.	2.4	93
141	Radiologically Defined Ecological Dynamics and Clinical Outcomes in Glioblastoma Multiforme: Preliminary Results. <i>Translational Oncology</i> , 2014, 7, 5-13.	3.7	82
142	Test-Retest Reproducibility Analysis of Lung CT Image Features. <i>Journal of Digital Imaging</i> , 2014, 27, 805-823.	2.9	216
143	Decoding tumour phenotype by noninvasive imaging using a quantitative radiomics approach. <i>Nature Communications</i> , 2014, 5, 4006.	12.8	3,355
144	Vascular measurements correlate with estrogen receptor status. <i>BMC Cancer</i> , 2014, 14, 279.	2.6	43

#	ARTICLE	IF	CITATIONS
145	Mechanisms of buffer therapy resistance. Neoplasia, 2014, 16, 354-364.e3.	5.3	26
146	Reproducibility and Prognosis of Quantitative Features Extracted from CT Images. Translational Oncology, 2014, 7, 72-87.	3.7	258
147	Abstract 3250: Survival of patients with incident lung cancer following screening by computed tomography in the National Lung Screening Trial. , 2014, , .		1
148	Acid-Mediated Tumor Proteolysis: Contribution of Cysteine Cathepsins. Neoplasia, 2013, 15, 1125-IN9.	5.3	88
149	Automated delineation of lung tumors from CT images using a single click ensemble segmentation approach. Pattern Recognition, 2013, 46, 692-702.	8.1	138
150	Quantitative Imaging in Cancer Evolution and Ecology. Radiology, 2013, 269, 8-14.	7.3	354
151	Acidity Generated by the Tumor Microenvironment Drives Local Invasion. Cancer Research, 2013, 73, 1524-1535.	0.9	1,036
152	pH sensing and regulation in cancer. Frontiers in Physiology, 2013, 4, 370.	2.8	443
153	Stability of FDG-PET Radiomics features: An integrated analysis of test-retest and inter-observer variability. Acta Oncol <sup>3</sup> gica, 2013, 52, 1391-1397.	1.8	353
154	Diffusion MRI and Novel Texture Analysis in Osteosarcoma Xenotransplants Predicts Response to Anti-Checkpoint Therapy. PLoS ONE, 2013, 8, e82875.	2.5	45
155	Chronic Autophagy Is a Cellular Adaptation to Tumor Acidic pH Microenvironments. Cancer Research, 2012, 72, 3938-3947.	0.9	224
156	Radiomics: the process and the challenges. Magnetic Resonance Imaging, 2012, 30, 1234-1248.	1.8	1,675
157	Systemic Buffers Inhibit Carcinogenesis in TRAMP Mice. Journal of Urology, 2012, 188, 624-631.	0.4	111
158	A unifying theory of carcinogenesis, and why targeted therapy doesnâ€™t work. European Journal of Radiology, 2012, 81, S48-S50.	2.6	16
159	Radiomics: Extracting more information from medical images using advanced feature analysis. European Journal of Cancer, 2012, 48, 441-446.	2.8	3,846
160	Imaging biomarkers to monitor response to the hypoxia-activated prodrug TH-302 in the MiaPaCa2 flank xenograft model. Magnetic Resonance Imaging, 2012, 30, 1002-1009.	1.8	23
161	Autophagy on acid. Autophagy, 2012, 8, 1688-1689.	9.1	31
162	A semiautomatic CT-based ensemble segmentation of lung tumors: Comparison with oncologistsâ€™ delineations and with the surgical specimen. Radiotherapy and Oncology, 2012, 105, 167-173.	0.6	99

#	ARTICLE	IF	CITATIONS
163	Evolutionary dynamics of carcinogenesis and why targeted therapy does not work. Nature Reviews Cancer, 2012, 12, 487-493.	28.4	573
164	The World Molecular Imaging Society (WMIS). Molecular Imaging and Biology, 2012, 14, 1-3.	2.6	1
165	Buffer Therapy for Cancer. Journal of Nutrition & Food Sciences, 2012, 2, 6.	1.0	12
166	Reduction of metastasis using a non-volatile buffer. Clinical and Experimental Metastasis, 2011, 28, 841-849.	3.3	87
167	Imaging pH and metastasis. NMR in Biomedicine, 2011, 24, 582-591.	2.8	226
168	A Mammaglobin-A Targeting Agent for Noninvasive Detection of Breast Cancer Metastasis in Lymph Nodes. Cancer Research, 2011, 71, 1050-1059.	0.9	48
169	Free Base Lysine Increases Survival and Reduces Metastasis in Prostate Cancer Model. Journal of Cancer Science & Therapy, 2011, Suppl 1, .	1.7	27
170	Molecular imaging and targeted therapies. Biochemical Pharmacology, 2010, 80, 731-738.	4.4	38
171	Identification of novel pancreatic adenocarcinoma cell-surface targets by gene expression profiling and tissue microarray. Biochemical Pharmacology, 2010, 80, 748-754.	4.4	30
172	Bicarbonate Increases Tumor pH and Inhibits Spontaneous Metastases. Cancer Research, 2009, 69, 2260-2268.	0.9	574
173	Adaptive Therapy. Cancer Research, 2009, 69, 4894-4903.	0.9	701
174	Imaging hemodynamics. Cancer and Metastasis Reviews, 2008, 27, 589-613.	5.9	20
175	Acid treatment of melanoma cells selects for invasive phenotypes. Clinical and Experimental Metastasis, 2008, 25, 411-425.	3.3	174
176	A microenvironmental model of carcinogenesis. Nature Reviews Cancer, 2008, 8, 56-61.	28.4	651
177	Causes and Consequences of Increased Glucose Metabolism of Cancers. Journal of Nuclear Medicine, 2008, 49, 24S-42S.	5.0	560
178	Adaptive landscapes and emergent phenotypes: why do cancers have high glycolysis?. Journal of Bioenergetics and Biomembranes, 2007, 39, 251-257.	2.3	201
179	Hypoxia and adaptive landscapes in the evolution of carcinogenesis. Cancer and Metastasis Reviews, 2007, 26, 311-317.	5.9	188
180	Hypoxia: Importance in tumor biology, noninvasive measurement by imaging, and value of its measurement in the management of cancer therapy. International Journal of Radiation Biology, 2006, 82, 699-757.	1.8	561

#	ARTICLE	IF	CITATIONS
181	Acid-Mediated Tumor Invasion: a Multidisciplinary Study. Cancer Research, 2006, 66, 5216-5223.	0.9	674
182	Why do cancers have high aerobic glycolysis?. Nature Reviews Cancer, 2004, 4, 891-899.	28.4	4,181
183	Changes in Water Mobility Measured by Diffusion MRI Predict Response of Metastatic Breast Cancer to Chemotherapy. Neoplasia, 2004, 6, 831-837.	5.3	230
184	pH and drug resistance. I. functional expression of plasmalemmal V-type H <sup>+</sup> -ATPase in drug-resistant human breast carcinoma cell lines. Biochemical Pharmacology, 1999, 57, 1037-1046.	4.4	140
185	Causes and Effects of Heterogeneous Perfusion in Tumors. Neoplasia, 1999, 1, 197-207.	5.3	233