David L Rimm

List of Publications by Year
in descending order

266 papers	27,425 citations	11908 72 h-index	8212 153 g-index
273 all docs	273 docs citations	273 times ranked	33893 citing authors

#	Article	IF	Citations
1	X-Tile. Clinical Cancer Research, 2004, 10, 7252-7259.	3.2	2,925
2	Adhesion between epithelial cells and T lymphocytes mediated by E-cadherin and the Î±EÎ²7 integrin. Nature, 1994, 372, 190-193.	13.7	1,120
3	Artificial intelligence in digital pathology â€" new tools for diagnosis and precision oncology. Nature Reviews Clinical Oncology, 2019, 16, 703-715.	12.5	807
4	Validation of Tissue Microarray Technology in Breast Carcinoma. Laboratory Investigation, 2000, 80, 1943-1949.	1.7	714
5	Automated subcellular localization and quantification of protein expression in tissue microarrays. Nature Medicine, 2002, 8, 1323-1328.	15.2	705
6	Programmed death ligand-1 expression in non-small cell lung cancer. Laboratory Investigation, 2014, 94, 107-116.	1.7	697
7	Quantitative Assessment of the Heterogeneity of PD-L1 Expression in Nonâ€"Small-Cell Lung Cancer. JAMA Oncology, 2016, 2, 46.	3.4	693
8	Estrogen and Progesterone Receptor Testing in Breast Cancer: ASCO/CAP Guideline Update. Journal of Clinical Oncology, 2020, 38, 1346-1366.	0.8	673
9	A Prospective, Multi-institutional, Pathologist-Based Assessment of 4 Immunohistochemistry Assays for PD-L1 Expression in Nonâ€"Small Cell Lung Cancer. JAMA Oncology, 2017, 3, 1051.	3.4	658
10	PD-L1 as a biomarker of response to immune-checkpoint inhibitors. Nature Reviews Clinical Oncology, 2021, 18, 345-362.	12.5	646
11	Antibody validation. BioTechniques, 2010, 48, 197-209.	0.8	548
12	Assessing Tumor-Infiltrating Lymphocytes in Solid Tumors: A Practical Review for Pathologists and Proposal for a Standardized Method from the International Immuno-Oncology Biomarkers Working Group: Part 2: TILs in Melanoma, Gastrointestinal Tract Carcinomas, Nonâ€"Small Cell Lung Carcinoma and Mesothelioma, Endometrial and Ovarian Carcinomas, Squamous Cell Carcinoma of the Head and Neck, Genitourinary Carcinomas, and Primary Brain Tumors. Advances in Anatomic Pathology, 2017, 24, 311-335.	2.4	530
13	Impaired HLA Class I Antigen Processing and Presentation as a Mechanism of Acquired Resistance to Immune Checkpoint Inhibitors in Lung Cancer. Cancer Discovery, 2017, 7, 1420-1435.	7.7	507
14	A proposal for validation of antibodies. Nature Methods, 2016, 13, 823-827.	9.0	473
15	Assessing Tumor-Infiltrating Lymphocytes in Solid Tumors: A Practical Review for Pathologists and Proposal for a Standardized Method From the International Immunooncology Biomarkers Working Group: Part 1: Assessing the Host Immune Response, TILs in Invasive Breast Carcinoma and Ductal Carcinoma In Situ, Metastatic Tumor Deposits and Areas for Further Research. Advances in Anatomic Pathology, 2017, 24, 235-251.	2.4	469
16	Siglec-15 as an immune suppressor and potential target for normalization cancer immunotherapy. Nature Medicine, 2019, 25, 656-666.	15.2	461
17	Immunotherapy in Nonâ€"Small Cell Lung Cancer: Facts and Hopes. Clinical Cancer Research, 2019, 25, 4592-4602.	3.2	447
18	Comparison of Biomarker Modalities for Predicting Response to PD-1/PD-L1 Checkpoint Blockade. JAMA Oncology, 2019, 5, 1195.	3.4	431

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19	RAS/MAPK Activation Is Associated with Reduced Tumor-Infiltrating Lymphocytes in Triple-Negative Breast Cancer: Therapeutic Cooperation Between MEK and PD-1/PD-L1 Immune Checkpoint Inhibitors. Clinical Cancer Research, 2016, 22, 1499-1509.	3.2	428
20	In Situ Tumor PD-L1 mRNA Expression Is Associated with Increased TILs and Better Outcome in Breast Carcinomas. Clinical Cancer Research, 2014, 20, 2773-2782.	3.2	403
21	PD-L1 Expression in Lung Cancer. Journal of Thoracic Oncology, 2016, 11, 964-975.	0.5	329
22	Objective Measurement and Clinical Significance of TILs in Nonâ€“Small Cell Lung Cancer. Journal of the National Cancer Institute, 2015, 107, .	3.0	325
23	Assessment of Ki67 in Breast Cancer: Updated Recommendations From the International Ki67 in Breast Cancer Working Group. Journal of the National Cancer Institute, 2021, 113, 808-819.	3.0	319
24	PD-L1 Expression Correlates with Tumor-Infiltrating Lymphocytes and Response to Neoadjuvant Chemotherapy in Breast Cancer. Cancer Immunology Research, 2015, 3, 326-332.	1.6	310
25	Update on tumor-infiltrating lymphocytes (TILs) in breast cancer, including recommendations to assess TILs in residual disease after neoadjuvant therapy and in carcinoma in situ: A report of the International Immuno-Oncology Biomarker Working Group on Breast Cancer. Seminars in Cancer Biology, 2018, 52, 16-25.	4.3	303
26	Characterization of the mutational landscape of anaplastic thyroid cancer via whole-exome sequencing. Human Molecular Genetics, 2015, 24, 2318-2329.	1.4	290
27	Implications of the tumor immune microenvironment for staging and therapeutics. Modern Pathology, 2018, 31, 214-234.	2.9	278
28	Automated Quantitative Analysis (AQUA) of In Situ Protein Expression, Antibody Concentration, and Prognosis. Journal of the National Cancer Institute, 2005, 97, 1808-1815.	3.0	252
29	A Decade of Tissue Microarrays: Progress in the Discovery and Validation of Cancer Biomarkers. Journal of Clinical Oncology, 2008, 26, 5630-5637.	0.8	235
30	Standardized evaluation of tumor-infiltrating lymphocytes in breast cancer: results of the ring studies of the international immuno-oncology biomarker working group. Modern Pathology, 2016, 29, 1155-1164.	2.9	230
31	Expression Analysis and Significance of PD-1, LAG-3, and TIM-3 in Human Nonâ€“Small Cell Lung Cancer Using Spatially Resolved and Multiparametric Single-Cell Analysis. Clinical Cancer Research, 2019, 25, 4663-4673.	3.2	210
32	Immune Cell PD-L1 Colocalizes with Macrophages and Is Associated with Outcome in PD-1 Pathway Blockade Therapy. Clinical Cancer Research, 2020, 26, 970-977.	3.2	200
33	Characterization of PD-L1 Expression and Associated T-cell Infiltrates in Metastatic Melanoma Samples from Variable Anatomic Sites. Clinical Cancer Research, 2015, 21, 3052-3060.	3.2	198
34	The Society for Immunotherapy of Cancer consensus statement on immunotherapy for the treatment of non-small cell lung cancer (NSCLC). , 2018, 6, 75.		188
35	Regulation of Glutamine Carrier Proteins by RNF5 Determines Breast Cancer Response to ER Stress-Inducing Chemotherapies. Cancer Cell, 2015, 27, 354-369.	7.7	177
36	Expression of c-met is a strong independent prognostic factor in breast carcinoma. , 1998, 82, 1513-1520.		175

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37	Evaluation of PD-L1 Expression and Associated Tumor-Infiltrating Lymphocytes in Laryngeal Squamous Cell Carcinoma. Clinical Cancer Research, 2016, 22, 704-713.	3.2	173
38	Spatial Architecture and Arrangement of Tumor-Infiltrating Lymphocytes for Predicting Likelihood of Recurrence in Early-Stage Nonâ€“Small Cell Lung Cancer. Clinical Cancer Research, 2019, 25, 1526-1534.	3.2	168
39	A Quantitative Comparison of Antibodies to Programmed Cell Death 1 Ligand 1. JAMA Oncology, 2017, 3, 256.	3.4	164
40	Development and Clinical Validation of an In Situ Biopsy-Based Multimarker Assay for Risk Stratification in Prostate Cancer. Clinical Cancer Research, 2015, 21, 2591-2600.	3.2	157
41	Early and multiple origins of metastatic lineages within primary tumors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2140-2145.	3.3	157
42	Immunohistochemistry and Quantitative Analysis of Protein Expression. Archives of Pathology and Laboratory Medicine, 2006, 130, 1026-1030.	1.2	155
43	Differential Expression and Significance of PD-L1, IDO-1, and B7-H4 in Human Lung Cancer. Clinical Cancer Research, 2017, 23, 370-378.	3.2	150
44	Multiplexed Quantitative Analysis of CD3, CD8, and CD20 Predicts Response to Neoadjuvant Chemotherapy in Breast Cancer. Clinical Cancer Research, 2014, 20, 5995-6005.	3.2	149
45	Examination of Low ERBB2 Protein Expression in Breast Cancer Tissue. JAMA Oncology, 2022, 8, 607.	3.4	147
46	The path to a better biomarker: application of a risk management framework for the implementation of PDâ€L1 and TILs as immunoâ€oncology biomarkers in breast cancer clinical trials and daily practice. Journal of Pathology, 2020, 250, 667-684.	2.1	142
47	The Society for Immunotherapy of Cancer statement on best practices for multiplex immunohistochemistry (IHC) and immunofluorescence (IF) staining and validation. , 2020, 8, e000155.		140
48	Quantitative and pathologist-read comparison of the heterogeneity of programmed death-ligand 1 (PD-L1) expression in non-small cell lung cancer. Modern Pathology, 2017, 30, 340-349.	2.9	138
49	â€œInterchangeabilityâ€•of PD-L1 immunohistochemistry assays: a meta-analysis of diagnostic accuracy. Modern Pathology, 2020, 33, 4-17.	2.9	135
50	miR-34a Silences c-SRC to Attenuate Tumor Growth in Triple-Negative Breast Cancer. Cancer Research, 2016, 76, 927-939.	0.4	128
51	Tumor-specific MHC-II expression drives a unique pattern of resistance to immunotherapy via LAG-3/FCRL6 engagement. JCI Insight, 2018, 3, .	2.3	128
52	What brown cannot do for you. Nature Biotechnology, 2006, 24, 914-916.	9.4	126
53	PD-L1 Studies Across Tumor Types, Its Differential Expression and Predictive Value in Patients Treated with Immune Checkpoint Inhibitors. Clinical Cancer Research, 2017, 23, 4270-4279.	3.2	117
54	High-Plex Predictive Marker Discovery for Melanoma Immunotherapyâ€“Treated Patients Using Digital Spatial Profiling. Clinical Cancer Research, 2019, 25, 5503-5512.	3.2	117

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55	Quantitative Spatial Profiling of PD-1/PD-L1 Interaction and HLA-DR/IDO-1 Predicts Improved Outcomes of Antiâ€“PD-1 Therapies in Metastatic Melanoma. Clinical Cancer Research, 2018, 24, 5250-5260.	3.2	116
56	Analysis of multispectral imaging with the AstroPath platform informs efficacy of PD-1 blockade. Science, 2021, 372, .	6.0	114
57	The tale of TILs in breast cancer: A report from The International Immuno-Oncology Biomarker Working Group. Npj Breast Cancer, 2021, 7, 150.	2.3	112
58	Expression and clinical significance of PD-L1, B7-H3, B7-H4 and TILs in human small cell lung Cancer (SCLC). , 2019, 7, 65.		108
59	Deep learning-based cross-classifications reveal conserved spatial behaviors within tumor histological images. Nature Communications, 2020, 11, 6367.	5.8	108
60	Multiplex Quantitative Analysis of Tumor-Infiltrating Lymphocytes and Immunotherapy Outcome in Metastatic Melanoma. Clinical Cancer Research, 2019, 25, 2442-2449.	3.2	106
61	Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. Npj Breast Cancer, 2020, 6, 17.	2.3	106
62	Triple-negative breast cancers with amplification of JAK2 at the 9p24 locus demonstrate JAK2-specific dependence. Science Translational Medicine, 2016, 8, 334ra53.	5.8	105
63	Quantitative Assessment of Effect of Preanalytic Cold Ischemic Time on Protein Expression in Breast Cancer Tissues. Journal of the National Cancer Institute, 2012, 104, 1815-1824.	3.0	103
64	B7-H3 Expression in NSCLC and Its Association with B7-H4, PD-L1 and Tumor-Infiltrating Lymphocytes. Clinical Cancer Research, 2017, 23, 5202-5209.	3.2	99
65	Nuclear shape and orientation features from H&E images predict survival in early-stage estrogen receptor-positive breast cancers. Laboratory Investigation, 2018, 98, 1438-1448.	1.7	99
66	Prospective multi-institutional evaluation of pathologist assessment of PD-L1 assays for patient selection in triple negative breast cancer. Modern Pathology, 2020, 33, 1746-1752.	2.9	94
67	Using Machine Learning Algorithms to Predict Immunotherapy Response in Patients with Advanced Melanoma. Clinical Cancer Research, 2021, 27, 131-140.	3.2	93
68	Suppressing miR-21 activity in tumor-associated macrophages promotes an antitumor immune response. Journal of Clinical Investigation, 2019, 129, 5518-5536.	3.9	92
69	Ki67 reproducibility using digital image analysis: an inter-platform and inter-operator study. Laboratory Investigation, 2019, 99, 107-117.	1.7	91
70	Effect of neoadjuvant chemotherapy on tumor-infiltrating lymphocytes and PD-L1 expression in breast cancer and its clinical significance. Breast Cancer Research, 2017, 19, 91.	2.2	90
71	Report on computational assessment of Tumor Infiltrating Lymphocytes from the International Immuno-Oncology Biomarker Working Group. Npj Breast Cancer, 2020, 6, 16.	2.3	90
72	A Prospective, Multi-Institutional Diagnostic Trial to Determine Pathologist Accuracy in Estimation of Percentage of Malignant Cells. Archives of Pathology and Laboratory Medicine, 2013, 137, 1545-1549.	1.2	85

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73	Comparison of PD-L1 protein expression between primary tumors and metastatic lesions in triple negative breast cancers. , 2020, 8, e001558.		85
74	Analytic Variability in Immunohistochemistry Biomarker Studies. Cancer Epidemiology Biomarkers and Prevention, 2010, 19, 982-991.	1.1	83
75	Quantitative assessment Ki-67 score for prediction of response to neoadjuvant chemotherapy in breast cancer. Laboratory Investigation, 2014, 94, 98-106.	1.7	83
76	CD68, CD163, and matrix metalloproteinase 9 (MMP-9) co-localization in breast tumor microenvironment predicts survival differently in ER-positive and -negative cancers. Breast Cancer Research, 2018, 20, 154.	2.2	80
77	Novel inactivating mutations of transforming growth factor-? type I receptor gene in head-and-neck cancer metastases. International Journal of Cancer, 2001, 93, 653-661.	2.3	78
78	Immune Marker Profiling and Programmed Death Ligand 1 Expression Across NSCLC Mutations. Journal of Thoracic Oncology, 2018, 13, 1884-1896.	0.5	78
79	An international multicenter study to evaluate reproducibility of automated scoring for assessment of Ki67 in breast cancer. Modern Pathology, 2019, 32, 59-69.	2.9	78
80	Deep Learning Based on Standard H&E Images of Primary Melanoma Tumors Identifies Patients at Risk for Visceral Recurrence and Death. Clinical Cancer Research, 2020, 26, 1126-1134.	3.2	78
81	STING enhances cell death through regulation of reactive oxygen species and DNA damage. Nature Communications, 2021, 12, 2327.	5.8	78
82	Comparison of the costs of fine-needle aspiration and open surgical biopsy as methods for obtaining a pathologic diagnosis. , 1997, 81, 51-56.		77
83	Quantitative assessment of the spatial heterogeneity of tumor-infiltrating lymphocytes in breast cancer. Breast Cancer Research, 2016, 18, 78.	2.2	75
84	Biomarkers Associated with Beneficial PD-1 Checkpoint Blockade in Nonâ€“Small Cell Lung Cancer (NSCLC) Identified Using High-Plex Digital Spatial Profiling. Clinical Cancer Research, 2020, 26, 4360-4368.	3.2	73
85	Immune Checkpoint Inhibitorâ€“Associated Pericarditis. Journal of Thoracic Oncology, 2019, 14, 1102-1108.	0.5	72
86	Standardization of Estrogen Receptor Measurement in Breast Cancer Suggests False-Negative Results Are a Function of Threshold Intensity Rather Than Percentage of Positive Cells. Journal of Clinical Oncology, 2011, 29, 2978-2984.	0.8	71
87	PLEKHA5 as a Biomarker and Potential Mediator of Melanoma Brain Metastasis. Clinical Cancer Research, 2015, 21, 2138-2147.	3.2	71
88	Quantitative measurement of cancer tissue biomarkers in the lab and in the clinic. Laboratory Investigation, 2015, 95, 385-396.	1.7	71
89	Tumor-Infiltrating Lymphocytes and PD-L1 Expression in Pre- and Posttreatment Breast Cancers in the SWOG S0800 Phase II Neoadjuvant Chemotherapy Trial. Molecular Cancer Therapeutics, 2018, 17, 1324-1331.	1.9	65
90	An open source automated tumor infiltrating lymphocyte algorithm for prognosis in melanoma. Nature Communications, 2019, 10, 5440.	5.8	62

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91	Deep learning trained on hematoxylin and eosin tumor region of Interest predicts HER2 status and trastuzumab treatment response in HER2+ breast cancer. Modern Pathology, 2022, 35, 44-51.	2.9	61
92	PD-L1 Protein Expression on Both Tumor Cells and Macrophages are Associated with Response to Neoadjuvant Durvalumab with Chemotherapy in Triple-negative Breast Cancer. Clinical Cancer Research, 2020, 26, 5456-5461.	3.2	60
93	A high number of tumor free axillary lymph nodes from patients with lymph node negative breast carcinoma is associated with poor outcome. , 2000, 88, 108-113.		58
94	Quantitative analysis of microRNAs in tissue microarrays by in situ hybridization. BioTechniques, 2012, 52, 235-245.	0.8	57
95	Automated quantitative multiplex immunofluorescence in situ imaging identifies phospho-S6 and phospho-PRAS40 as predictive protein biomarkers for prostate cancer lethality. Proteome Science, 2014, 12, 40.	0.7	57
96	Quantitative In Situ Measurement of Estrogen Receptor mRNA Predicts Response to Tamoxifen. PLoS ONE, 2012, 7, e36559.	1.1	57
97	Quantitative assessment shows loss of antigenic epitopes as a function of pre-analytic variables. Laboratory Investigation, 2011, 91, 1253-1261.	1.7	55
98	An independent assessment of an artificial intelligence system for prostate cancer detection shows strong diagnostic accuracy. Modern Pathology, 2021, 34, 1588-1595.	2.9	53
99	Quantitative measurement of HER2 expression to subclassify ERBB2 unamplified breast cancer. Laboratory Investigation, 2022, 102, 1101-1108.	1.7	53
100	Preanalytical variables and phosphoepitope expression in FFPE tissue: quantitative epitope assessment after variable cold ischemic time. Laboratory Investigation, 2015, 95, 334-341.	1.7	52
101	Quantitative assessment of PD-L1 as an analyte in immunohistochemistry diagnostic assays using a standardized cell line tissue microarray. Laboratory Investigation, 2020, 100, 4-15.	1.7	52
102	CECR2 drives breast cancer metastasis by promoting NF-ÎºB signaling and macrophage-mediated immune suppression. Science Translational Medicine, 2022, 14, eabf5473.	5.8	51
103	Role of tumor infiltrating lymphocytes and spatial immune heterogeneity in sensitivity to PD-1 axis blockers in non-small cell lung cancer. , 2022, 10, e004440.		49
104	A tissue quality index: an intrinsic control for measurement of effects of preanalytical variables on FFPE tissue. Laboratory Investigation, 2014, 94, 467-474.	1.7	48
105	Oncogenic EGFR Represses the TET1 DNA Demethylase to Induce Silencing of Tumor Suppressors in Cancer Cells. Cell Reports, 2016, 16, 457-471.	2.9	48
106	Quantitative Assessment of CMTM6 in the Tumor Microenvironment and Association with Response to PD-1 Pathway Blockade in Advanced-Stage Nonâ€“Small Cell Lung Cancer. Journal of Thoracic Oncology, 2019, 14, 2084-2096.	0.5	48
107	Multiplex quantitative analysis of cancer-associated fibroblasts and immunotherapy outcome in metastatic melanoma. , 2019, 7, 194.		47
108	The cell adhesion molecule, E-cadherin, distinguishes mesothelial cells from carcinoma cells in fluids. Cancer, 1997, 81, 293-298.	2.0	45

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109	Exceptional Response to Pembrolizumab in a Metastatic, Chemotherapy/Radiation-Resistant Ovarian Cancer Patient Harboring a PD-L1-Genetic Rearrangement. Clinical Cancer Research, 2018, 24, 3282-3291.	3.2	44
110	Multi-institutional TSA-amplified Multiplexed Immunofluorescence Reproducibility Evaluation (MITRE) Study. , 2021, 9, e002197.		44
111	Multiplexed (18-Plex) Measurement of Signaling Targets and Cytotoxic T Cells in Trastuzumab-Treated Patients using Imaging Mass Cytometry. Clinical Cancer Research, 2019, 25, 3054-3062.	3.2	42
112	Markers of Epithelial to Mesenchymal Transition in Association with Survival in Head and Neck Squamous Cell Carcinoma (HNSCC). PLoS ONE, 2014, 9, e94273.	1.1	41
113	Diagnosis of ?ASCUS? in women over age 50 is less likely to be associated with dysplasia. Diagnostic Cytopathology, 2001, 24, 132-136.	0.5	39
114	Next-gen immunohistochemistry. Nature Methods, 2014, 11, 381-383.	9.0	39
115	ERÎ² splice variant expression in four large cohorts of human breast cancer patient tumors. Breast Cancer Research and Treatment, 2014, 146, 657-667.	1.1	39
116	Calcium Sensor, NCS-1, Promotes Tumor Aggressiveness and Predicts Patient Survival. Molecular Cancer Research, 2017, 15, 942-952.	1.5	39
117	Copy Number Changes Are Associated with Response to Treatment with Carboplatin, Paclitaxel, and Sorafenib in Melanoma. Clinical Cancer Research, 2016, 22, 374-382.	3.2	38
118	A prognostic model for overall survival of patients with early-stage non-small cell lung cancer: a multicentre, retrospective study. The Lancet Digital Health, 2020, 2, e594-e606.	5.9	38
119	Biomarker Discovery in Patients with Immunotherapy-Treated Melanoma with Imaging Mass Cytometry. Clinical Cancer Research, 2021, 27, 1987-1996.	3.2	38
120	Not Just Digital Pathology, Intelligent Digital Pathology. JAMA Oncology, 2018, 4, 403.	3.4	36
121	Association of B7-H4, PD-L1, and tumor infiltrating lymphocytes with outcomes in breast cancer. Npj Breast Cancer, 2018, 4, 40.	2.3	36
122	Measurement of Domain-Specific HER2 (ERBB2) Expression May Classify Benefit From Trastuzumab in Breast Cancer. Journal of the National Cancer Institute, 2015, 107, .	3.0	35
123	Proof of the quantitative potential of immunofluorescence by mass spectrometry. Laboratory Investigation, 2017, 97, 329-334.	1.7	35
124	Nuclear IRF-1 expression as a mechanism to assess â€œCapabilityâ€•to express PD-L1 and response to PD-1 therapy in metastatic melanoma. , 2017, 5, 25.		35
125	Neoadjuvant durvalumab plus weekly nab-paclitaxel and dose-dense doxorubicin/cyclophosphamide in triple-negative breast cancer. Npj Breast Cancer, 2021, 7, 9.	2.3	35
126	Prognostic Biomarkers in Phase II Trial of Cetuximab-Containing Induction and Chemoradiation in Resectable HNSCC: Eastern Cooperative Oncology Group E2303. Clinical Cancer Research, 2014, 20, 3023-3032.	3.2	34

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127	High level PHGDH expression in breast is predominantly associated with keratin 5â€positive cell lineage independently of malignancy. Molecular Oncology, 2015, 9, 1636-1654.	2.1	34
128	Loss of antigenicity with tissue age in breast cancer. Laboratory Investigation, 2016, 96, 264-269.	1.7	34
129	Patient-derived conditionally reprogrammed cells maintain intra-tumor genetic heterogeneity. Scientific Reports, 2018, 8, 4097.	1.6	34
130	How current assay approval policies are leading to unintended imprecision medicine. Lancet Oncology, The, 2020, 21, 1399-1401.	5.1	34
131	Antibody validation for protein expression on tissue slides: a protocol for immunohistochemistry. BioTechniques, 2020, 69, 460-468.	0.8	34
132	Validation of the IHC4 Breast Cancer Prognostic Algorithm Using Multiple Approaches on the Multinational TEAM Clinical Trial. Archives of Pathology and Laboratory Medicine, 2016, 140, 66-74.	1.2	33
133	Objective measurement and clinical significance of IDO1 protein in hormone receptor-positive breast cancer. , 2017, 5, 81.		33
134	Targeting the CSF1/CSF1R axis is a potential treatment strategy for malignant meningiomas. Neuro-Oncology, 2021, 23, 1922-1935.	0.6	33
135	Utility of CD8 score by automated quantitative image analysis in head and neck squamous cell carcinoma. Oral Oncology, 2018, 86, 278-287.	0.8	32
136	Biomarkers in Precision Cancer Immunotherapy: Promise and Challenges. American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting, 2020, 40, e275-e291.	1.8	32
137	[Letter to the Editor] The need for improved education and training in research antibody usage and validation practices. BioTechniques, 2016, 61, 16-18.	0.8	30
138	Comparison of Laboratory-Developed Tests and FDA-Approved Assays for BRAF, EGFR, and KRAS Testing. JAMA Oncology, 2018, 4, 838.	3.4	30
139	Unvalidated antibodies and misleading results. Breast Cancer Research and Treatment, 2014, 147, 457-458.	1.1	29
140	Artificial intelligence applied to breast pathology. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2022, 480, 191-209.	1.4	29
141	A Multi-Institutional Study to Evaluate Automated Whole Slide Scoring of Immunohistochemistry for Assessment of Programmed Death-Ligand 1 (PD-L1) Expression in Nonâ€“Small Cell Lung Cancer. Applied Immunohistochemistry and Molecular Morphology, 2019, 27, 263-269.	0.6	28
142	Quantitative Image Analysis for Tissue Biomarker Use: A White Paper From the Digital Pathology Association. Applied Immunohistochemistry and Molecular Morphology, 2021, 29, 479-493.	0.6	28
143	Dual CCNE1/PIK3CA targeting is synergistic in CCNE1-amplified/PIK3CA-mutated uterine serous carcinomas in vitro and in vivo. British Journal of Cancer, 2016, 115, 303-311.	2.9	27
144	Correlating nuclear morphometric patterns with estrogen receptor status in breast cancer pathologic specimens. Npj Breast Cancer, 2018, 4, 32.	2.3	27

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145	Acquired Resistance to HER2-Targeted Therapies Creates Vulnerability to ATP Synthase Inhibition. Cancer Research, 2020, 80, 524-535.	0.4	26
146	An Open-Source, Automated Tumor-Infiltrating Lymphocyte Algorithm for Prognosis in Triple-Negative Breast Cancer. Clinical Cancer Research, 2021, 27, 5557-5565.	3.2	26
147	Cancer and Leukemia Group B Pathology Committee Guidelines for Tissue Microarray Construction Representing Multicenter Prospective Clinical Trial Tissues. Journal of Clinical Oncology, 2011, 29, 2282-2290.	0.8	25
148	Digital quantitative assessment of PD-L1 using digital spatial profiling. Laboratory Investigation, 2020, 100, 1311-1317.	1.7	25
149	Pre-analytic variables and phospho-specific antibodies: the Achilles heel of immunohistochemistry. Breast Cancer Research, 2010, 12, 113.	2.2	24
150	Reanalysis of the NCCN PD-L1 companion diagnostic assay study for lung cancer in the context of PD-L1 expression findings in triple-negative breast cancer. Breast Cancer Research, 2019, 21, 72.	2.2	24
151	Bimodal Population or Pathologist Artifact?. Journal of Clinical Oncology, 2007, 25, 2487-2488.	0.8	23
152	Immunological Differences Between Immune-Rich Estrogen Receptorâ€“Positive and Immune-Rich Triple-Negative Breast Cancers. JCO Precision Oncology, 2020, 4, 767-779.	1.5	23
153	Comparison of programmed death-ligand 1 protein expression between primary and metastatic lesions in patients with lung cancer. , 2021, 9, e002230.		23
154	Non-malignant respiratory epithelial cells preferentially proliferate from resected non-small cell lung cancer specimens cultured under conditionally reprogrammed conditions. Oncotarget, 2017, 8, 11114-11126.	0.8	22
155	A new tool for technical standardization of the Ki67 immunohistochemical assay. Modern Pathology, 2021, 34, 1261-1270.	2.9	22
156	Targeting Pyruvate Kinase M2 Phosphorylation Reverses Aggressive Cancer Phenotypes. Cancer Research, 2021, 81, 4346-4359.	0.4	22
157	Quantitative measurements of HER2 and phospho-HER2 expression: correlation with pathologic response to neoadjuvant chemotherapy and trastuzumab. BMC Cancer, 2014, 14, 326.	1.1	21
158	PARP inhibitors in head and neck cancer: Molecular mechanisms, preclinical and clinical data. Oral Oncology, 2021, 117, 105292.	0.8	21
159	In Situ Quantitative Measurement of HER2mRNA Predicts Benefit from Trastuzumab-Containing Chemotherapy in a Cohort of Metastatic Breast Cancer Patients. PLoS ONE, 2014, 9, e99131.	1.1	21
160	Automated digital TIL analysis (ADTA) adds prognostic value to standard assessment of depth and ulceration in primary melanoma. Scientific Reports, 2021, 11, 2809.	1.6	20
161	Association between low estrogen receptor positive breast cancer and staining performance. Npj Breast Cancer, 2020, 6, 5.	2.3	20
162	Image analysis reveals molecularly distinct patterns of TILs in NSCLC associated with treatment outcome. Npj Precision Oncology, 2022, 6, .	2.3	20

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163	High concordance of a closed-system, RT-qPCR breast cancer assay for HER2 mRNA, compared to clinically determined immunohistochemistry, fluorescence in situ hybridization, and quantitative immunofluorescence. Laboratory Investigation, 2017, 97, 1521-1526.	1.7	19
164	Expertise vs Evidence in Assessment of Breast Biopsies. JAMA - Journal of the American Medical Association, 2015, 313, 1109.	3.8	18
165	Quantitative analysis of CMTM6 expression in tumor microenvironment in metastatic melanoma and association with outcome on immunotherapy. OncoImmunology, 2021, 10, 1864909.	2.1	18
166	Systematically higher Ki67 scores on core biopsy samples compared to corresponding resection specimen in breast cancer: a multi-operator and multi-institutional study. Modern Pathology, 2022, 35, 1362-1369.	2.9	18
167	Characterization of alpha-actinin fromAcanthamoeba. Cytoskeleton, 1986, 6, 649-661.	4.4	17
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