# David L Rimm

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 266 papers | 27,425 citations | 10389 72 h-index | 7160 153 g-index |
| 273 all docs | 273 docs citations | 273 times ranked | 31749 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | X-Tile. Clinical Cancer Research, 2004, 10, 7252-7259. | 7.0 | 2,925 |
| 2 | Adhesion between epithelial cells and T lymphocytes mediated by E-cadherin and the Î±EÎ²7 integrin. Nature, 1994, 372, 190-193. | 27.8 | 1,120 |
| 3 | Artificial intelligence in digital pathology â€" new tools for diagnosis and precision oncology. Nature Reviews Clinical Oncology, 2019, 16, 703-715. | 27.6 | 807 |
| 4 | Validation of Tissue Microarray Technology in Breast Carcinoma. Laboratory Investigation, 2000, 80, 1943-1949. | 3.7 | 714 |
| 5 | Automated subcellular localization and quantification of protein expression in tissue microarrays. Nature Medicine, 2002, 8, 1323-1328. | 30.7 | 705 |
| 6 | Programmed death ligand-1 expression in non-small cell lung cancer. Laboratory Investigation, 2014, 94, 107-116. | 3.7 | 697 |
| 7 | Quantitative Assessment of the Heterogeneity of PD-L1 Expression in Nonâ€"Small-Cell Lung Cancer. JAMA Oncology, 2016, 2, 46. | 7.1 | 693 |
| 8 | Estrogen and Progesterone Receptor Testing in Breast Cancer: ASCO/CAP Guideline Update. Journal of Clinical Oncology, 2020, 38, 1346-1366. | 1.6 | 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. | 7.1 | 658 |
| 10 | PD-L1 as a biomarker of response to immune-checkpoint inhibitors. Nature Reviews Clinical Oncology, 2021, 18, 345-362. | 27.6 | 646 |
| 11 | Antibody validation. BioTechniques, 2010, 48, 197-209. | 1.8 | 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. | 4.3 | 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. | 9.4 | 507 |
| 14 | A proposal for validation of antibodies. Nature Methods, 2016, 13, 823-827. | 19.0 | 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. | 4.3 | 469 |
| 16 | Siglec-15 as an immune suppressor and potential target for normalization cancer immunotherapy. Nature Medicine, 2019, 25, 656-666. | 30.7 | 461 |
| 17 | Immunotherapy in Nonâ€"Small Cell Lung Cancer: Facts and Hopes. Clinical Cancer Research, 2019, 25, 4592-4602. | 7.0 | 447 |
| 18 | Comparison of Biomarker Modalities for Predicting Response to PD-1/PD-L1 Checkpoint Blockade. JAMA Oncology, 2019, 5, 1195. | 7.1 | 431 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 7.0 | 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. | 7.0 | 403 |
| 21 | PD-L1 Expression in Lung Cancer. Journal of Thoracic Oncology, 2016, 11, 964-975. | 1.1 | 329 |
| 22 | Objective Measurement and Clinical Significance of TILs in Nonâ€“Small Cell Lung Cancer. Journal of the National Cancer Institute, 2015, 107, . | 6.3 | 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. | 6.3 | 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. | 3.4 | 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. | 9.6 | 303 |
| 26 | Characterization of the mutational landscape of anaplastic thyroid cancer via whole-exome sequencing. Human Molecular Genetics, 2015, 24, 2318-2329. | 2.9 | 290 |
| 27 | Implications of the tumor immune microenvironment for staging and therapeutics. Modern Pathology, 2018, 31, 214-234. | 5.5 | 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. | 6.3 | 252 |
| 29 | A Decade of Tissue Microarrays: Progress in the Discovery and Validation of Cancer Biomarkers. Journal of Clinical Oncology, 2008, 26, 5630-5637. | 1.6 | 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. | 5.5 | 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. | 7.0 | 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. | 7.0 | 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. | 7.0 | 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. | 16.8 | 177 |
| 36 | Expression of c-met is a strong independent prognostic factor in breast carcinoma. , 1998, 82, 1513-1520. | | 175 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Evaluation of PD-L1 Expression and Associated Tumor-Infiltrating Lymphocytes in Laryngeal Squamous Cell Carcinoma. Clinical Cancer Research, 2016, 22, 704-713. | 7.0 | 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. | 7.0 | 168 |
| 39 | A Quantitative Comparison of Antibodies to Programmed Cell Death 1 Ligand 1. JAMA Oncology, 2017, 3, 256. | 7.1 | 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. | 7.0 | 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. | 7.1 | 157 |
| 42 | Immunohistochemistry and Quantitative Analysis of Protein Expression. Archives of Pathology and Laboratory Medicine, 2006, 130, 1026-1030. | 2.5 | 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. | 7.0 | 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. | 7.0 | 149 |
| 45 | Examination of Low ERBB2 Protein Expression in Breast Cancer Tissue. JAMA Oncology, 2022, 8, 607. | 7.1 | 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. | 4.5 | 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. | 5.5 | 138 |
| 49 | â€œInterchangeabilityâ€•of PD-L1 immunohistochemistry assays: a meta-analysis of diagnostic accuracy. Modern Pathology, 2020, 33, 4-17. | 5.5 | 135 |
| 50 | miR-34a Silences c-SRC to Attenuate Tumor Growth in Triple-Negative Breast Cancer. Cancer Research, 2016, 76, 927-939. | 0.9 | 128 |
| 51 | Tumor-specific MHC-II expression drives a unique pattern of resistance to immunotherapy via LAG-3/FCRL6 engagement. JCI Insight, 2018, 3, . | 5.0 | 128 |
| 52 | What brown cannot do for you. Nature Biotechnology, 2006, 24, 914-916. | 17.5 | 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. | 7.0 | 117 |
| 54 | High-Plex Predictive Marker Discovery for Melanoma Immunotherapyâ€“Treated Patients Using Digital Spatial Profiling. Clinical Cancer Research, 2019, 25, 5503-5512. | 7.0 | 117 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 7.0 | 116 |
| 56 | Analysis of multispectral imaging with the AstroPath platform informs efficacy of PD-1 blockade. Science, 2021, 372, . | 12.6 | 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. | 5.2 | 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. | 12.8 | 108 |
| 60 | Multiplex Quantitative Analysis of Tumor-Infiltrating Lymphocytes and Immunotherapy Outcome in Metastatic Melanoma. Clinical Cancer Research, 2019, 25, 2442-2449. | 7.0 | 106 |
| 61 | Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. Npj Breast Cancer, 2020, 6, 17. | 5.2 | 106 |
| 62 | Triple-negative breast cancers with amplification of JAK2 at the 9p24 locus demonstrate JAK2-specific dependence. Science Translational Medicine, 2016, 8, 334ra53. | 12.4 | 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. | 6.3 | 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. | 7.0 | 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. | 3.7 | 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. | 5.5 | 94 |
| 67 | Using Machine Learning Algorithms to Predict Immunotherapy Response in Patients with Advanced Melanoma. Clinical Cancer Research, 2021, 27, 131-140. | 7.0 | 93 |
| 68 | Suppressing miR-21 activity in tumor-associated macrophages promotes an antitumor immune response. Journal of Clinical Investigation, 2019, 129, 5518-5536. | 8.2 | 92 |
| 69 | Ki67 reproducibility using digital image analysis: an inter-platform and inter-operator study. Laboratory Investigation, 2019, 99, 107-117. | 3.7 | 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. | 5.0 | 90 |
| 71 | Report on computational assessment of Tumor Infiltrating Lymphocytes from the International Immuno-Oncology Biomarker Working Group. Npj Breast Cancer, 2020, 6, 16. | 5.2 | 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. | 2.5 | 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. | 2.5 | 83 |
| 75 | Quantitative assessment Ki-67 score for prediction of response to neoadjuvant chemotherapy in breast cancer. Laboratory Investigation, 2014, 94, 98-106. | 3.7 | 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. | 5.0 | 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. | 5.1 | 78 |
| 78 | Immune Marker Profiling and Programmed Death Ligand 1 Expression Across NSCLC Mutations. Journal of Thoracic Oncology, 2018, 13, 1884-1896. | 1.1 | 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. | 5.5 | 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. | 7.0 | 78 |
| 81 | STING enhances cell death through regulation of reactive oxygen species and DNA damage. Nature Communications, 2021, 12, 2327. | 12.8 | 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. | 5.0 | 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. | 7.0 | 73 |
| 85 | Immune Checkpoint Inhibitorâ€“Associated Pericarditis. Journal of Thoracic Oncology, 2019, 14, 1102-1108. | 1.1 | 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. | 1.6 | 71 |
| 87 | PLEKHA5 as a Biomarker and Potential Mediator of Melanoma Brain Metastasis. Clinical Cancer Research, 2015, 21, 2138-2147. | 7.0 | 71 |
| 88 | Quantitative measurement of cancer tissue biomarkers in the lab and in the clinic. Laboratory Investigation, 2015, 95, 385-396. | 3.7 | 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. | 4.1 | 65 |
| 90 | An open source automated tumor infiltrating lymphocyte algorithm for prognosis in melanoma. Nature Communications, 2019, 10, 5440. | 12.8 | 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. | 5.5 | 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. | 7.0 | 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. | 1.8 | 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. | 1.7 | 57 |
| 96 | Quantitative In Situ Measurement of Estrogen Receptor mRNA Predicts Response to Tamoxifen. PLoS ONE, 2012, 7, e36559. | 2.5 | 57 |
| 97 | Quantitative assessment shows loss of antigenic epitopes as a function of pre-analytic variables. Laboratory Investigation, 2011, 91, 1253-1261. | 3.7 | 55 |
| 98 | An independent assessment of an artificial intelligence system for prostate cancer detection shows strong diagnostic accuracy. Modern Pathology, 2021, 34, 1588-1595. | 5.5 | 53 |
| 99 | Quantitative measurement of HER2 expression to subclassify ERBB2 unamplified breast cancer. Laboratory Investigation, 2022, 102, 1101-1108. | 3.7 | 53 |
| 100 | Preanalytical variables and phosphoepitope expression in FFPE tissue: quantitative epitope assessment after variable cold ischemic time. Laboratory Investigation, 2015, 95, 334-341. | 3.7 | 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. | 3.7 | 52 |
| 102 | CECR2 drives breast cancer metastasis by promoting NF-ÎºB signaling and macrophage-mediated immune suppression. Science Translational Medicine, 2022, 14, eabf5473. | 12.4 | 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. | 3.7 | 48 |
| 105 | Oncogenic EGFR Represses the TET1 DNA Demethylase to Induce Silencing of Tumor Suppressors in Cancer Cells. Cell Reports, 2016, 16, 457-471. | 6.4 | 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. | 1.1 | 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. | 4.1 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 7.0 | 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. | 7.0 | 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. | 2.5 | 41 |
| 113 | Diagnosis of ?ASCUS? in women over age 50 is less likely to be associated with dysplasia. Diagnostic Cytopathology, 2001, 24, 132-136. | 1.0 | 39 |
| 114 | Next-gen immunohistochemistry. Nature Methods, 2014, 11, 381-383. | 19.0 | 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. | 2.5 | 39 |
| 116 | Calcium Sensor, NCS-1, Promotes Tumor Aggressiveness and Predicts Patient Survival. Molecular Cancer Research, 2017, 15, 942-952. | 3.4 | 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. | 7.0 | 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. | 12.3 | 38 |
| 119 | Biomarker Discovery in Patients with Immunotherapy-Treated Melanoma with Imaging Mass Cytometry. Clinical Cancer Research, 2021, 27, 1987-1996. | 7.0 | 38 |
| 120 | Not Just Digital Pathology, Intelligent Digital Pathology. JAMA Oncology, 2018, 4, 403. | 7.1 | 36 |
| 121 | Association of B7-H4, PD-L1, and tumor infiltrating lymphocytes with outcomes in breast cancer. Npj Breast Cancer, 2018, 4, 40. | 5.2 | 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, . | 6.3 | 35 |
| 123 | Proof of the quantitative potential of immunofluorescence by mass spectrometry. Laboratory Investigation, 2017, 97, 329-334. | 3.7 | 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. | 5.2 | 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. | 7.0 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 4.6 | 34 |
| 128 | Loss of antigenicity with tissue age in breast cancer. Laboratory Investigation, 2016, 96, 264-269. | 3.7 | 34 |
| 129 | Patient-derived conditionally reprogrammed cells maintain intra-tumor genetic heterogeneity. Scientific Reports, 2018, 8, 4097. | 3.3 | 34 |
| 130 | How current assay approval policies are leading to unintended imprecision medicine. Lancet Oncology, The, 2020, 21, 1399-1401. | 10.7 | 34 |
| 131 | Antibody validation for protein expression on tissue slides: a protocol for immunohistochemistry. BioTechniques, 2020, 69, 460-468. | 1.8 | 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. | 2.5 | 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. | 1.2 | 33 |
| 135 | Utility of CD8 score by automated quantitative image analysis in head and neck squamous cell carcinoma. Oral Oncology, 2018, 86, 278-287. | 1.5 | 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. | 3.8 | 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. | 1.8 | 30 |
| 138 | Comparison of Laboratory-Developed Tests and FDA-Approved Assays for BRAF, EGFR, and KRAS Testing. JAMA Oncology, 2018, 4, 838. | 7.1 | 30 |
| 139 | Unvalidated antibodies and misleading results. Breast Cancer Research and Treatment, 2014, 147, 457-458. | 2.5 | 29 |
| 140 | Artificial intelligence applied to breast pathology. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2022, 480, 191-209. | 2.8 | 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. | 1.2 | 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. | 1.2 | 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. | 6.4 | 27 |
| 144 | Correlating nuclear morphometric patterns with estrogen receptor status in breast cancer pathologic specimens. Npj Breast Cancer, 2018, 4, 32. | 5.2 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Acquired Resistance to HER2-Targeted Therapies Creates Vulnerability to ATP Synthase Inhibition. Cancer Research, 2020, 80, 524-535. | 0.9 | 26 |
| 146 | An Open-Source, Automated Tumor-Infiltrating Lymphocyte Algorithm for Prognosis in Triple-Negative Breast Cancer. Clinical Cancer Research, 2021, 27, 5557-5565. | 7.0 | 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. | 1.6 | 25 |
| 148 | Digital quantitative assessment of PD-L1 using digital spatial profiling. Laboratory Investigation, 2020, 100, 1311-1317. | 3.7 | 25 |
| 149 | Pre-analytic variables and phospho-specific antibodies: the Achilles heel of immunohistochemistry. Breast Cancer Research, 2010, 12, 113. | 5.0 | 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. | 5.0 | 24 |
| 151 | Bimodal Population or Pathologist Artifact?. Journal of Clinical Oncology, 2007, 25, 2487-2488. | 1.6 | 23 |
| 152 | Immunological Differences Between Immune-Rich Estrogen Receptorâ€“Positive and Immune-Rich Triple-Negative Breast Cancers. JCO Precision Oncology, 2020, 4, 767-779. | 3.0 | 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. | 1.8 | 22 |
| 155 | A new tool for technical standardization of the Ki67 immunohistochemical assay. Modern Pathology, 2021, 34, 1261-1270. | 5.5 | 22 |
| 156 | Targeting Pyruvate Kinase M2 Phosphorylation Reverses Aggressive Cancer Phenotypes. Cancer Research, 2021, 81, 4346-4359. | 0.9 | 22 |
| 157 | Quantitative measurements of HER2 and phospho-HER2 expression: correlation with pathologic response to neoadjuvant chemotherapy and trastuzumab. BMC Cancer, 2014, 14, 326. | 2.6 | 21 |
| 158 | PARP inhibitors in head and neck cancer: Molecular mechanisms, preclinical and clinical data. Oral Oncology, 2021, 117, 105292. | 1.5 | 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. | 2.5 | 21 |
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