

Alexander T Pearson

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,156
citations

257101

24
h-index

182168

51
g-index

86
all docs

86
docs citations

86
times ranked

4025
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning can predict microsatellite instability directly from histology in gastrointestinal cancer. <i>Nature Medicine</i> , 2019, 25, 1054-1056.	15.2	773
2	Pan-cancer image-based detection of clinically actionable genetic alterations. <i>Nature Cancer</i> , 2020, 1, 789-799.	5.7	343
3	Clinical-Grade Detection of Microsatellite Instability in Colorectal Tumors by Deep Learning. <i>Gastroenterology</i> , 2020, 159, 1406-1416.e11.	0.6	209
4	The Cancer Microbiome: Distinguishing Direct and Indirect Effects Requires a Systemic View. <i>Trends in Cancer</i> , 2020, 6, 192-204.	3.8	162
5	The impact of site-specific digital histology signatures on deep learning model accuracy and bias. <i>Nature Communications</i> , 2021, 12, 4423.	5.8	111
6	Postnatal exposure to methyl mercury from fish consumption: A review and new data from the Seychelles Child Development Study. <i>NeuroToxicology</i> , 2009, 30, 338-349.	1.4	102
7	Extracellular matrix alignment dictates the organization of focal adhesions and directs uniaxial cell migration. <i>APL Bioengineering</i> , 2018, 2, 046107.	3.3	78
8	Machine learning can identify newly diagnosed patients with CLL at high risk of infection. <i>Nature Communications</i> , 2020, 11, 363.	5.8	75
9	Mucoepidermoid Carcinoma. <i>American Journal of Surgical Pathology</i> , 2019, 43, 885-897.	2.1	70
10	Development and validation of deep learning classifiers to detect Epstein-Barr virus and microsatellite instability status in gastric cancer: a retrospective multicentre cohort study. <i>The Lancet Digital Health</i> , 2021, 3, e654-e664.	5.9	69
11	Machine Learningâ€œGuided Adjuvant Treatment of Head and Neck Cancer. <i>JAMA Network Open</i> , 2020, 3, e2025881.	2.8	65
12	A conserved intratumoral regulatory T cell signature identifies 4-1BB as a pan-cancer target. <i>Journal of Clinical Investigation</i> , 2020, 130, 1405-1416.	3.9	64
13	Patient-derived xenograft (PDX) tumors increase growth rate with time. <i>Oncotarget</i> , 2016, 7, 7993-8005.	0.8	63
14	ALDH/CD44 identifies uniquely tumorigenic cancer stem cells in salivary gland mucoepidermoid carcinomas. <i>Oncotarget</i> , 2015, 6, 26633-26650.	0.8	59
15	Ovarian Carcinoma-Associated Mesenchymal Stem Cells Arise from Tissue-Specific Normal Stroma. <i>Stem Cells</i> , 2019, 37, 257-269.	1.4	58
16	EGFL6 Regulates the Asymmetric Division, Maintenance, and Metastasis of ALDH+ Ovarian Cancer Cells. <i>Cancer Research</i> , 2016, 76, 6396-6409.	0.4	55
17	Identifying predictors of HPV-related head and neck squamous cell carcinoma progression and survival through patient-derived models. <i>International Journal of Cancer</i> , 2020, 147, 3236-3249.	2.3	40
18	5T4-Targeted Therapy Ablates Cancer Stem Cells and Prevents Recurrence of Head and Neck Squamous Cell Carcinoma. <i>Clinical Cancer Research</i> , 2017, 23, 2516-2527.	3.2	39

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19	Wnt β -catenin activation epigenetically reprograms Treg cells in inflammatory bowel disease and dysplastic progression. <i>Nature Immunology</i> , 2021, 22, 471-484.	7.0	39
20	Classical mathematical models for prediction of response to chemotherapy and immunotherapy. <i>PLoS Computational Biology</i> , 2022, 18, e1009822.	1.5	36
21	Anti-tumor effect of inhibition of IL-6 signaling in mucoepidermoid carcinoma. <i>Oncotarget</i> , 2015, 6, 22822-22835.	0.8	33
22	Artificial Intelligence Can Cut Costs While Maintaining Accuracy in Colorectal Cancer Genotyping. <i>Frontiers in Oncology</i> , 2021, 11, 630953.	1.3	31
23	A phase II trial of the BCL-2 homolog domain 3 mimetic AT-101 in combination with docetaxel for recurrent, locally advanced, or metastatic head and neck cancer. <i>Investigational New Drugs</i> , 2016, 34, 481-489.	1.2	30
24	Deep learning prediction of BRAF-RAS gene expression signature identifies noninvasive follicular thyroid neoplasms with papillary-like nuclear features. <i>Modern Pathology</i> , 2021, 34, 862-874.	2.9	30
25	Combination of monalizumab and cetuximab in recurrent or metastatic head and neck cancer patients previously treated with platinum-based chemotherapy and PD-(L)1 inhibitors.. <i>Journal of Clinical Oncology</i> , 2020, 38, 6516-6516.	0.8	30
26	Therapeutic Inhibition of the MDM2 β p53 Interaction Prevents Recurrence of Adenoid Cystic Carcinomas. <i>Clinical Cancer Research</i> , 2017, 23, 1036-1048.	3.2	27
27	The IL-6R and Bmi-1 axis controls self-renewal and chemoresistance of head and neck cancer stem cells. <i>Cell Death and Disease</i> , 2021, 12, 988.	2.7	27
28	A mathematical model for IL-6-mediated, stem cell driven tumor growth and targeted treatment. <i>PLoS Computational Biology</i> , 2018, 14, e1005920.	1.5	26
29	4-Hydroxyacetophenone modulates the actomyosin cytoskeleton to reduce metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22423-22429.	3.3	24
30	Endothelial-derived interleukin-6 induces cancer stem cell motility by generating a chemotactic gradient towards blood vessels. <i>Oncotarget</i> , 2017, 8, 100339-100352.	0.8	24
31	UM-HACC-2A: MYB-NFIB fusion-positive human adenoid cystic carcinoma cell line. <i>Oral Oncology</i> , 2018, 87, 21-28.	0.8	23
32	Clinical trials of immunotherapy in triple-negative breast cancer. <i>Breast Cancer Research and Treatment</i> , 2022, 195, 1-15.	1.1	19
33	Application of liquid biopsy as multi-functional biomarkers in head and neck cancer. <i>British Journal of Cancer</i> , 2022, 126, 361-370.	2.9	18
34	Ablation of Cancer Stem Cells by Therapeutic Inhibition of the MDM2 β p53 Interaction in Mucoepidermoid Carcinoma. <i>Clinical Cancer Research</i> , 2019, 25, 1588-1600.	3.2	17
35	Nivolumab, nabpaclitaxel, and carboplatin followed by risk/response adaptive de-escalated locoregional therapy for HPV-associated oropharyngeal cancer: OPTIMA II trial.. <i>Journal of Clinical Oncology</i> , 2021, 39, 6011-6011.	0.8	17
36	Doublecortin-Like Kinase 1 (DCLK1) Is a Novel NOTCH Pathway Signaling Regulator in Head and Neck Squamous Cell Carcinoma. <i>Frontiers in Oncology</i> , 2021, 11, 677051.	1.3	16

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37	The emerging role of immune checkpoint inhibitors for the treatment of breast cancer. <i>Expert Opinion on Investigational Drugs</i> , 2022, 31, 531-548.	1.9	16
38	BH3-mimetic small molecule inhibits the growth and recurrence of adenoid cystic carcinoma. <i>Oral Oncology</i> , 2015, 51, 839-847.	0.8	13
39	Targeting MDM2 for Treatment of Adenoid Cystic Carcinoma. <i>Clinical Cancer Research</i> , 2016, 22, 3550-3559.	3.2	13
40	Somatic mitochondrial mutation discovery using ultra-deep sequencing of the mitochondrial genome reveals spatial tumor heterogeneity in head and neck squamous cell carcinoma. <i>Cancer Letters</i> , 2020, 471, 49-60.	3.2	12
41	Implementation of pharmacogenomic testing in oncology care (PhOCus): study protocol of a pragmatic, randomized clinical trial. <i>Therapeutic Advances in Medical Oncology</i> , 2020, 12, 175883592097411.	1.4	12
42	Academics as leaders in the cancer artificial intelligence revolution. <i>Cancer</i> , 2021, 127, 664-671.	2.0	10
43	Risk and response adapted de-intensified treatment for HPV-associated oropharyngeal cancer: Optima paradigm expanded experience. <i>Oral Oncology</i> , 2021, 122, 105566.	0.8	10
44	A validated mathematical model of FGFR3-mediated tumor growth reveals pathways to harness the benefits of combination targeted therapy and immunotherapy in bladder cancer. <i>Computational and Systems Oncology</i> , 2021, 1, e1019.	1.1	9
45	Modeling head and neck cancer stem cell-mediated tumorigenesis. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3279-3289.	2.4	7
46	Capecitabine after Surgical Salvage in Recurrent Squamous Cell Carcinoma of Head and Neck. <i>Otolaryngology - Head and Neck Surgery</i> , 2017, 157, 995-997.	1.1	7
47	Hyperprogression—Immunotherapy-Related Phenomenon vs Intrinsic Natural History of Cancer. <i>JAMA Oncology</i> , 2019, 5, 743.	3.4	7
48	COVIDomic: A multi-modal cloud-based platform for identification of risk factors associated with COVID-19 severity. <i>PLoS Computational Biology</i> , 2021, 17, e1009183.	1.5	7
49	Isolation and Characterization of Cancer Stem Cells from Primary Head and Neck Squamous Cell Carcinoma Tumors. <i>Methods in Molecular Biology</i> , 2016, 1395, 241-249.	0.4	6
50	<i>In Silico</i> Models Accurately Predict <i>In Vivo</i> Response for IL6 Blockade in Head and Neck Cancer. <i>Cancer Research</i> , 2020, 80, 1451-1460.	0.4	6
51	Survival of salivary gland cancer stem cells requires mTOR signaling. <i>Cell Death and Disease</i> , 2021, 12, 108.	2.7	6
52	First report of the safety/tolerability and preliminary antitumor activity of HB-201 and HB-202, an arenavirus-based cancer immunotherapy, in patients with HPV16+ cancers. <i>Journal of Clinical Oncology</i> , 2021, 39, 2502-2502.	0.8	6
53	Differentiating low and high grade mucoepidermoid carcinoma of the salivary glands using CT radiomics. <i>Gland Surgery</i> , 2021, 10, 1646-1654.	0.5	6
54	Monitoring Spontaneous Quiescence and Asynchronous Proliferation-Quiescence Decisions in Prostate Cancer Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 728663.	1.8	6

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55	A global method for fast simulations of molecular dynamics in multiscale agent-based models of biological tissues. <i>IScience</i> , 2022, 25, 104387.	1.9	6
56	Prognosis and Treatment of Non-“Small Cell Lung Cancer in the Age of Deep Learning. <i>JAMA Network Open</i> , 2020, 3, e206368.	2.8	5
57	Ultra-sensitive detection and quantification of HPV DNA in the plasma of patients with oropharyngeal squamous cell carcinoma (OPSCC) enrolled in the OPTIMA 2 treatment de-escalation trial.. <i>Journal of Clinical Oncology</i> , 2021, 39, 6048-6048.	0.8	5
58	A robust and interpretable gene signature for predicting the lymph node status of primary <sc>T1</sc>/<sc>T2</sc> oral cavity squamous cell carcinoma. <i>International Journal of Cancer</i> , 2022, 150, 450-460.	2.3	5
59	Prospective study evaluating dynamic changes of cell-free HPV DNA in locoregional viral-associated oropharyngeal cancer treated with induction chemotherapy and response-adaptive treatment. <i>BMC Cancer</i> , 2022, 22, 17.	1.1	5
60	The Endothelin-A Receptor Antagonist Zibotentan Induces Damage to the Nasal Olfactory Epithelium Possibly Mediated in Part through Type 2 Innate Lymphoid Cells. <i>Toxicologic Pathology</i> , 2019, 47, 150-164.	0.9	3
61	Development and Validation of a Decision Analytical Model for Posttreatment Surveillance for Patients With Oropharyngeal Carcinoma. <i>JAMA Network Open</i> , 2022, 5, e227240.	2.8	3
62	Recommended phase 2 dose (RP2D) of HB-200 arenavirus-based cancer immunotherapies in patients with HPV16+ cancers.. <i>Journal of Clinical Oncology</i> , 2022, 40, 2517-2517.	0.8	3
63	Hyperlink-Embedded Journal Articles Improve Statistical Knowledge and Reader Satisfaction. <i>Journal of Graduate Medical Education</i> , 2015, 7, 654-657.	0.6	2
64	<sc>Long-term</sc> neck and shoulder function among survivors of oropharyngeal squamous cell carcinoma treated with chemoradiation as assessed with the neck dissection impairment index. <i>Head and Neck</i> , 2021, 43, 1621-1628.	0.9	2
65	Dose and volume de-escalation for HPV-associated oropharyngeal cancer: Long-term follow-up of the OPTIMA trial.. <i>Journal of Clinical Oncology</i> , 2020, 38, 6575-6575.	0.8	2
66	Phase I study of NBTXR3 activated by radiotherapy in patients with advanced cancers treated with an anti-PD-1 therapy.. <i>Journal of Clinical Oncology</i> , 2020, 38, TPS3173-TPS3173.	0.8	2
67	Sampling from single-cell observations to predict tumor cell growth <i>in-vitro</i> and <i>in-vivo</i>. <i>Oncotarget</i> , 2017, 8, 111176-111189.	0.8	2
68	Ovarian cancer through a multi-modal lens. <i>Nature Cancer</i> , 2022, 3, 662-664.	5.7	2
69	Trial in progress: A phase I/II trial of novel MDM2 inhibitor alrizomadlin (APG-115), with or without platinum chemotherapy, in patients with p53 wild-type salivary gland carcinoma.. <i>Journal of Clinical Oncology</i> , 2021, 39, TPS6094-TPS6094.	0.8	1
70	Is This the Dawn of Precision Oncology in Head and Neck Cancer?. <i>Journal of Clinical Oncology</i> , 2021, 39, 1839-1841.	0.8	1
71	Machine learning guided adjuvant treatment of head and neck cancer.. <i>Journal of Clinical Oncology</i> , 2020, 38, 6567-6567.	0.8	1
72	The use of artificial intelligence with uncertainty estimation to predict lung cancer relapse from histopathology.. <i>Journal of Clinical Oncology</i> , 2022, 40, 8549-8549.	0.8	1

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73	Nivolumab-based induction chemoimmunotherapy and PD-L1 expression in locoregionally advanced HPV-associated oropharyngeal squamous cell carcinoma.. Journal of Clinical Oncology, 2022, 40, 6075-6075.	0.8	1
74	MATHEMATICAL CHARACTERIZATION OF HETEROGENEITY IN A CANCER STEM CELL DRIVEN TUMOR GROWTH MODEL WITH NONLINEAR SELF-RENEWAL. Journal of Biological Systems, 2021, 29, 27-48.	0.5	0
75	Mathematical predication models to optimize post-treatment surveillance in HPV-associated oropharyngeal cancer.. Journal of Clinical Oncology, 2021, 39, 6027-6027.	0.8	0
76	Validation of the RSclin risk calculator using the National Cancer Database (NCDB).. Journal of Clinical Oncology, 2021, 39, 549-549.	0.8	0
77	Prediction of histologic and molecular subsets of soft tissue sarcoma using deep learning.. Journal of Clinical Oncology, 2020, 38, e23529-e23529.	0.8	0
78	Abstract P1-08-21: Assessing the impact of treatment interruptions during neoadjuvant therapy in early stage breast cancer. Cancer Research, 2022, 82, P1-08-21-P1-08-21.	0.4	0
79	Adapting a medical school cancer research education program to the virtual environment.. Journal of Clinical Oncology, 2022, 40, 11029-11029.	0.8	0
80	Drug response prediction in patient-derived xenografts with data augmentation and multimodal deep learning.. Journal of Clinical Oncology, 2022, 40, e13572-e13572.	0.8	0