

Trevor A Graham

List of Publications by Year in descending order

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120
papers

8,741
citations

37907

47
h-index

34529

92
g-index

218
all docs

218
docs citations

218
times ranked

16005
citing authors

#	ARTICLE	IF	CITATIONS
1	Cancer Prevalence across Vertebrates. <i>Cancer Discovery</i> , 2025, 15, 227-244.	26.4	5
2	Stratified Medicine Pediatrics: Cell-Free DNA and Serial Tumor Sequencing Identifies Subtype-Specific Cancer Evolution and Epigenetic States. <i>Cancer Discovery</i> , 2025, 15, 717-732.	26.4	0
3	Phenotypic noise and plasticity in cancer evolution. <i>Trends in Cell Biology</i> , 2024, 34, 451-464.	15.3	6
4	FUME-TCRseq Enables Sensitive and Accurate Sequencing of the T-cell Receptor from Limited Input of Degraded RNA. <i>Cancer Research</i> , 2024, 84, 1560-1569.	0.6	2
5	Homopolymer switches mediate adaptive mutability in mismatch repair-deficient colorectal cancer. <i>Nature Genetics</i> , 2024, 56, 1420-1433.	16.3	1
6	The genomic landscape of 2,023 colorectal cancers. <i>Nature</i> , 2024, 633, 127-136.	40.1	14
7	Immune selection determines tumor antigenicity and influences response to checkpoint inhibitors. <i>Nature Genetics</i> , 2023, 55, 451-460.	16.3	25
8	First passage time analysis of spatial mutation patterns reveals sub-clonal evolutionary dynamics in colorectal cancer. <i>PLoS Computational Biology</i> , 2023, 19, e1010952.	3.3	1
9	Bridging clinic and wildlife care with AI-powered pan-species computational pathology. <i>Nature Communications</i> , 2023, 14, .	14.1	2
10	Virtual alignment of pathology image series for multi-gigapixel whole slide images. <i>Nature Communications</i> , 2023, 14, .	14.1	25
11	Contribution of pks+ <i>E. coli</i> mutations to colorectal carcinogenesis. <i>Nature Communications</i> , 2023, 14, .	14.1	23
12	Multicentre derivation and validation of a colitis-associated colorectal cancer risk prediction web tool. <i>Gut</i> , 2022, 71, 705-715.	14.8	14
13	Fluctuating methylation clocks for cell lineage tracing at high temporal resolution in human tissues. <i>Nature Biotechnology</i> , 2022, 40, 720-730.	18.1	26
14	Immunosuppressive niche engineering at the onset of human colorectal cancer. <i>Nature Communications</i> , 2022, 13, .	14.1	21
15	Lineage tracing in human tissues. <i>Journal of Pathology</i> , 2022, 257, 501-512.	5.2	8
16	The mutational signatures of formalin fixation on the human genome. <i>Nature Communications</i> , 2022, 13, .	14.1	34
17	Phenotypic plasticity and genetic control in colorectal cancer evolution. <i>Nature</i> , 2022, 611, 744-753.	40.1	74
18	The co-evolution of the genome and epigenome in colorectal cancer. <i>Nature</i> , 2022, 611, 733-743.	40.1	54

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19	The role of single-cell sequencing in studying tumour evolution. <i>Faculty Reviews</i> , 2021, 10, .	4.5	1
20	Predicting Colorectal Cancer Occurrence in IBD. <i>Cancers</i> , 2021, 13, 2908.	4.0	28
21	Reconstructing single-cell karyotype alterations in colorectal cancer identifies punctuated and gradual diversification patterns. <i>Nature Genetics</i> , 2021, 53, 1187-1195.	16.3	38
22	LiquidCNA: Tracking subclonal evolution from longitudinal liquid biopsies using somatic copy number alterations. <i>IScience</i> , 2021, 24, 102889.	3.8	6
23	Evolutionary dynamics in Barrett oesophagus: implications for surveillance, risk stratification and therapy. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021, 19, 95-111.	14.7	7
24	Concurrent in situ analysis of point mutations and immune infiltrate in FFPE cancers. <i>Methods in Enzymology</i> , 2020, , 287-297.	1.0	0
25	Genomic landscape and clonal architecture of mouse oral squamous cell carcinomas dictate tumour ecology. <i>Nature Communications</i> , 2020, 11, .	14.1	38
26	Colorectal cancer residual disease at maximal response to EGFR blockade displays a druggable Paneth cell-like phenotype. <i>Science Translational Medicine</i> , 2020, 12, .	13.1	40
27	Subclonal reconstruction of tumors by using machine learning and population genetics. <i>Nature Genetics</i> , 2020, 52, 898-907.	16.3	63
28	Evolutionary dynamics of neoantigens in growing tumors. <i>Nature Genetics</i> , 2020, 52, 1057-1066.	16.3	61
29	Cancer associated fibroblast FAK regulates malignant cell metabolism. <i>Nature Communications</i> , 2020, 11, .	14.1	110
30	Navigating the path to distant metastasis. <i>Nature Genetics</i> , 2020, 52, 642-643.	16.3	7
31	Measuring single cell divisions in human tissues from multi-region sequencing data. <i>Nature Communications</i> , 2020, 11, .	14.1	39
32	Genetic heterogeneity highlighted by differential FDG-PET response in diffuse large B-cell lymphoma. <i>Haematologica</i> , 2020, 105, 318-321.	4.3	5
33	In Situ Point Mutation Detection in FFPE Colorectal Cancers Using the BaseScope Assay. <i>Methods in Molecular Biology</i> , 2020, , 349-360.	0.0	1
34	Evolutionary history of human colitis-associated colorectal cancer. <i>Gut</i> , 2019, 68, 985-995.	14.8	111
35	Spatially constrained tumour growth affects the patterns of clonal selection and neutral drift in cancer genomic data. <i>PLoS Computational Biology</i> , 2019, 15, e1007243.	3.3	45
36	Measuring Clonal Evolution in Cancer with Genomics. <i>Annual Review of Genomics and Human Genetics</i> , 2019, 20, 309-329.	7.4	49

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37	Resolving genetic heterogeneity in cancer. <i>Nature Reviews Genetics</i> , 2019, 20, 404-416.	19.1	423
38	Crypt fusion as a homeostatic mechanism in the human colon. <i>Gut</i> , 2019, 68, 1986-1993.	14.8	27
39	Multiregion human bladder cancer sequencing reveals tumour evolution, bladder cancer phenotypes and implications for targeted therapy. <i>Journal of Pathology</i> , 2019, 248, 230-242.	5.2	31
40	Cumulative burden of inflammation predicts colorectal neoplasia risk in ulcerative colitis: a large single-centre study. <i>Gut</i> , 2019, 68, 414-422.	14.8	136
41	Author response: Measuring the distribution of fitness effects in somatic evolution by combining clonal dynamics with dN/dS ratios. , 2019, , .		0
42	Evolution of Barrett's esophagus through space and time at single-crypt and whole-biopsy levels. <i>Nature Communications</i> , 2018, 9, .	14.1	40
43	Somatic <i>POLE</i> exonuclease domain mutations are early events in sporadic endometrial and colorectal carcinogenesis, determining driver mutational landscape, clonal neoantigen burden and immune response. <i>Journal of Pathology</i> , 2018, 245, 283-296.	5.2	70
44	Genomic profiling reveals spatial intra-tumor heterogeneity in follicular lymphoma. <i>Leukemia</i> , 2018, 32, 1261-1265.	8.1	94
45	Insights Into the Pathophysiology of Esophageal Adenocarcinoma. <i>Gastroenterology</i> , 2018, 154, 406-420.	1.0	67
46	Reply to "Revisiting signatures of neutral tumor evolution in the light of complexity of cancer genomic data". <i>Nature Genetics</i> , 2018, 50, 1628-1630.	16.3	4
47	From Colitis to Cancer: An Evolutionary Trajectory That Merges Maths and Biology. <i>Frontiers in Immunology</i> , 2018, 9, .	5.0	27
48	Reply to "Currently available bulk sequencing data do not necessarily support a model of neutral tumor evolution". <i>Nature Genetics</i> , 2018, 50, 1624-1626.	16.3	9
49	Reply to "Neutral tumor evolution?". <i>Nature Genetics</i> , 2018, 50, 1633-1637.	16.3	17
50	The evolutionary landscape of colorectal tumorigenesis. <i>Nature Ecology and Evolution</i> , 2018, 2, 1661-1672.	7.6	86
51	Detecting repeated cancer evolution from multi-region tumor sequencing data. <i>Nature Methods</i> , 2018, 15, 707-714.	14.5	108
52	Quantification of subclonal selection in cancer from bulk sequencing data. <i>Nature Genetics</i> , 2018, 50, 895-903.	16.3	158
53	The effects of mutational processes and selection on driver mutations across cancer types. <i>Nature Communications</i> , 2018, 9, .	14.1	76
54	Reply: Is the evolution of tumors Darwinian or non-Darwinian?. <i>National Science Review</i> , 2018, 5, 17-19.	10.0	1

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55	Catch my drift? Making sense of genomic intra-tumour heterogeneity. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1867, 95-100.	7.1	24
56	Clonal evolution of colorectal cancer in IBD. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 218-229.	14.7	125
57	Evolution of Premalignant Disease. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a026542.	6.7	23
58	Reply: Uncertainties in tumor allele frequencies limit power to infer evolutionary pressures. <i>Nature Genetics</i> , 2017, 49, 1289-1291.	16.3	5
59	Classifying the evolutionary and ecological features of neoplasms. <i>Nature Reviews Cancer</i> , 2017, 17, 605-619.	24.2	306
60	Robust RNA-based in situ mutation detection delineates colorectal cancer subclonal evolution. <i>Nature Communications</i> , 2017, 8, .	14.1	47
61	Quantification of within-sample genetic heterogeneity from SNP-array data. <i>Scientific Reports</i> , 2017, 7, .	3.7	6
62	Between-region genetic divergence reflects the mode and tempo of tumor evolution. <i>Nature Genetics</i> , 2017, 49, 1015-1024.	16.3	102
63	PIK3CA mutations are common in lobular carcinoma in situ, but are not a biomarker of progression. <i>Breast Cancer Research</i> , 2017, 19, .	5.0	14
64	Measuring cancer evolution from the genome. <i>Journal of Pathology</i> , 2017, 241, 183-191.	5.2	104
65	An evolutionary perspective on field cancerization. <i>Nature Reviews Cancer</i> , 2017, 18, 19-32.	24.2	322
66	New paradigms in clonal evolution: punctuated equilibrium in cancer. <i>Journal of Pathology</i> , 2016, 240, 126-136.	5.2	70
67	A Computational Modeling Approach for Deriving Biomarkers to Predict Cancer Risk in Premalignant Disease. <i>Cancer Prevention Research</i> , 2016, 9, 283-295.	1.1	17
68	Dynamic clonal equilibrium and predetermined cancer risk in Barrett's oesophagus. <i>Nature Communications</i> , 2016, 7, .	14.1	71
69	Functional versus non-functional intratumor heterogeneity in cancer. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1162897.	2.0	4
70	Differential clonal evolution in oesophageal cancers in response to neo-adjuvant chemotherapy. <i>Nature Communications</i> , 2016, 7, .	14.1	74
71	Identification of neutral tumor evolution across cancer types. <i>Nature Genetics</i> , 2016, 48, 238-244.	16.3	433
72	Evolution of oesophageal adenocarcinoma from metaplastic columnar epithelium without goblet cells in Barrett's oesophagus. <i>Gut</i> , 2016, 65, 907-913.	14.8	37

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73	Quantifying human intestinal stem cell and crypt dynamics: the implications for cancer screening and prevention. <i>Expert Review of Gastroenterology and Hepatology</i> , 2016, 10, 277-279.	2.4	3
74	Derivation of genetic biomarkers for cancer risk stratification in Barrett's oesophagus: a prospective cohort study. <i>Gut</i> , 2016, 65, 1602-1610.	14.8	39
75	Tumour Cell Heterogeneity. <i>F1000Research</i> , 2016, 5, 238.	0.6	88
76	Krt19+/Lgr5+ Cells Are Radioresistant Cancer-Initiating Stem Cells in the Colon and Intestine. <i>Cell Stem Cell</i> , 2015, 16, 627-638.	17.2	160
77	The Barrett's Gland in Phenotype Space. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2015, 1, 41-54.	6.1	26
78	A Big Bang model of human colorectal tumor growth. <i>Nature Genetics</i> , 2015, 47, 209-216.	16.3	761
79	Gremlin 1 Identifies a Skeletal Stem Cell with Bone, Cartilage, and Reticular Stromal Potential. <i>Cell</i> , 2015, 160, 269-284.	35.1	522
80	Forty-Year Analysis of Colonoscopic Surveillance Program for Neoplasia in Ulcerative Colitis: An Updated Overview. <i>American Journal of Gastroenterology</i> , 2015, 110, 1022-1034.	0.4	236
81	Characterization of LGR5 stem cells in colorectal adenomas and carcinomas. <i>Scientific Reports</i> , 2015, 5, .	3.7	79
82	Solutions to Peto's paradox revealed by mathematical modelling and cross-species cancer gene analysis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140222.	4.1	59
83	Low-Grade Dysplasia in Ulcerative Colitis: Risk Factors for Developing High-Grade Dysplasia or Colorectal Cancer. <i>American Journal of Gastroenterology</i> , 2015, 110, 1461-1471.	0.4	117
84	Pan-cancer analysis of the extent and consequences of intratumor heterogeneity. <i>Nature Medicine</i> , 2015, 22, 105-113.	25.6	572
85	Revealing human intestinal stem cell and crypt dynamics. <i>Molecular and Cellular Oncology</i> , 2014, 1, e970069.	2.0	8
86	Re: Mitochondria and Tumor Progression in Ulcerative Colitis. <i>Journal of the National Cancer Institute</i> , 2014, 106, djt436-djt436.	5.1	0
87	Location, location, location! The reality of life for an intestinal stem cell in the crypt. <i>Journal of Pathology</i> , 2014, 234, 1-4.	5.2	8
88	Lineage tracing reveals multipotent stem cells maintain human adenomas and the pattern of clonal expansion in tumor evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, .	7.7	81
89	Crypt dysplasia in Barrett's oesophagus shows clonal identity between crypt and surface cells. <i>Journal of Pathology</i> , 2013, 231, 98-104.	5.2	10
90	Modelling the evolution of genetic instability during tumour progression. <i>Evolutionary Applications</i> , 2013, 6, 20-33.	3.3	36

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91	<sc>LRIG1</sc> regulates cadherin-dependent contact inhibition directing epithelial homeostasis and pre-invasive squamous cell carcinoma development. <i>Journal of Pathology</i> , 2013, 229, 608-620.	5.2	31
92	A basal gradient of Wnt and stem-cell number influences regional tumour distribution in human and mouse intestinal tracts. <i>Gut</i> , 2013, 62, 83-93.	14.8	73
93	Pre-tumour clones, periodic selection and clonal interference in the origin and progression of gastrointestinal cancer: potential for biomarker development. <i>Journal of Pathology</i> , 2013, 229, 502-514.	5.2	16
94	Clonal Selection and Persistence in Dysplastic Barrett's Esophagus and Intramucosal Cancers After Failed Radiofrequency Ablation. <i>American Journal of Gastroenterology</i> , 2013, 108, 1584-1592.	0.4	22
95	What Can Be Learnt about Disease Progression in Breast Cancer Dormancy from Relapse Data?. <i>PLoS ONE</i> , 2013, 8, e62320.	2.5	8
96	Barrett's metaplasia glands are clonal, contain multiple stem cells and share a common squamous progenitor. <i>Gut</i> , 2012, 61, 1380-1389.	14.8	69
97	Field Cancerization in the Intestinal Epithelium of Patients With Crohn's Ileocolitis. <i>Gastroenterology</i> , 2012, 142, 855-864.e8.	1.0	105
98	Utilizing DNA Mutations to Trace Epithelial Cell Lineages in Human Tissues. <i>Methods in Molecular Biology</i> , 2012, , 289-301.	0.0	2
99	Resolving the stem-cell debate. <i>Nature</i> , 2012, 488, 462-463.	40.1	66
100	Use of Methylation Patterns to Determine Expansion of Stem Cell Clones in Human Colon Tissue. <i>Gastroenterology</i> , 2011, 140, 1241-1250.e9.	1.0	46
101	The Clonal Origins of Dysplasia From Intestinal Metaplasia in the Human Stomach. <i>Gastroenterology</i> , 2011, 140, 1251-1260.e6.	1.0	79
102	Stem cells and their implications for colorectal cancer. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2011, 8, 90-100.	14.7	121
103	Field Cancerization in the GI Tract. <i>Future Oncology</i> , 2011, 7, 981-993.	2.4	29
104	The human urothelium consists of multiple clonal units, each maintained by a stem cell. <i>Journal of Pathology</i> , 2011, 225, 163-171.	5.2	58
105	Clonal architecture of human prostatic epithelium in benign and malignant conditions. <i>Journal of Pathology</i> , 2011, 225, 172-180.	5.2	50
106	Stem Cells and Inflammation in the Intestine. <i>Recent Results in Cancer Research</i> , 2011, , 51-63.	0.0	7
107	A breast cancer meta-analysis of two expression measures of chromosomal instability reveals a relationship with younger age at diagnosis and high risk histopathological variables. <i>Oncotarget</i> , 2011, 2, 529-537.	1.7	8
108	Genetic diversity during the development of Barrett's oesophagus-associated adenocarcinoma: how, when and why?. <i>Biochemical Society Transactions</i> , 2010, 38, 374-379.	4.2	10

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109	The histogenesis of regenerative nodules in human liver cirrhosis. <i>Hepatology</i> , 2010, 51, 1017-1026.	11.6	86
110	Spindles losing their bearings: Does disruption of orientation in stem cells predict the onset of cancer?. <i>BioEssays</i> , 2010, 32, 468-472.	2.3	7
111	Field defects in DNA repair: is loss of MGMT an initial event in colorectal carcinogenesis?. <i>Gut</i> , 2010, 59, 1452-1453.	14.8	1
112	Authors' response. <i>Gut</i> , 2010, 59, 1158-1158.	14.8	1
113	Long-term proton pump induced hypergastrinaemia does induce lineage-specific restitution but not clonal expansion in benign Barrett's oesophagus in vivo. <i>Gut</i> , 2010, 59, 156-163.	14.8	23
114	Breast Cancer Dormancy Can Be Maintained by Small Numbers of Micrometastases. <i>Cancer Research</i> , 2010, 70, 4310-4317.	0.6	37
115	Clonality Assessment and Clonal Ordering of Individual Neoplastic Crypts Shows Polyclonality of Colorectal Adenomas. <i>Gastroenterology</i> , 2010, 138, 1441-1454.e7.	1.0	111
116	Stem cells and solid cancers. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2009, 455, 1-13.	2.7	23
117	Clonality, Founder Mutations, and Field Cancerization in Human Ulcerative Colitis—Associated Neoplasia. <i>Gastroenterology</i> , 2009, 136, 542-550.e6.	1.0	157
118	Investigating The Fixation and Spread of Mutations in The Gastrointestinal Epithelium. <i>Future Oncology</i> , 2008, 4, 825-839.	2.4	4
119	Stochastic homeostasis in human airway epithelium is achieved by neutral competition of basal cell progenitors. <i>ELife</i> , 0, 2, .	1.6	97
120	Measuring the distribution of fitness effects in somatic evolution by combining clonal dynamics with dN/dS ratios. <i>ELife</i> , 0, 9, .	1.6	25