Trevor A Graham

List of Publications by Year
in descending order

113 papers	9,033 citations	47006 47 h-index	48315 88 g-index
184 all docs	184 docs citations	184 times ranked	14496 citing authors

#	Article	IF	Citations
1	Multicentre derivation and validation of a colitis-associated colorectal cancer risk prediction web tool. Gut, 2022, 71, 705-715.	12.1	12
2	Evolutionary dynamics in Barrett oesophagus: implications for surveillance, risk stratification and therapy. Nature Reviews Gastroenterology and Hepatology, 2022, 19, 95-111.	17.8	9
3	Fluctuating methylation clocks for cell lineage tracing at high temporal resolution in human tissues. Nature Biotechnology, 2022, 40, 720-730.	17.5	22
4	Immunosuppressive niche engineering at the onset of human colorectal cancer. Nature Communications, 2022, 13, 1798.	12.8	19
5	Lineage tracing in human tissues. Journal of Pathology, 2022, 257, 501-512.	4.5	7
6	Germline MBD4 deficiency causes a multi-tumor predisposition syndrome. American Journal of Human Genetics, 2022, 109, 953-960.	6.2	23
7	The role of single-cell sequencing in studying tumour evolution. Faculty Reviews, 2021, 10, 49.	3.9	1
8	Predicting Colorectal Cancer Occurrence in IBD. Cancers, 2021, 13, 2908.	3.7	26
9	Reconstructing single-cell karyotype alterations in colorectal cancer identifies punctuated and gradual diversification patterns. Nature Genetics, 2021, 53, 1187-1195.	21.4	37
10	LiquidCNA: Tracking subclonal evolution from longitudinal liquid biopsies using somatic copy number alterations. IScience, 2021, 24, 102889.	4.1	6
11	Evolutionâ€™s cartographer: Mapping the fitness landscape in cancer. Cancer Cell, 2021, 39, 1311-1313.	16.8	1
12	Concurrent in situ analysis of point mutations and immune infiltrate in FFPE cancers. Methods in Enzymology, 2020, 636, 287-297.	1.0	1
13	The MOBSTER R package for tumour subclonal deconvolution from bulk DNA whole-genome sequencing data. BMC Bioinformatics, 2020, 21, 531.	2.6	18
14	Genomic landscape and clonal architecture of mouse oral squamous cell carcinomas dictate tumour ecology. Nature Communications, 2020, 11, 5671.	12.8	35
15	Colorectal cancer residual disease at maximal response to EGFR blockade displays a druggable Paneth cellâ€“like phenotype. Science Translational Medicine, 2020, 12, .	12.4	40
16	Subclonal reconstruction of tumors by using machine learning and population genetics. Nature Genetics, 2020, 52, 898-907.	21.4	77
17	Evolutionary dynamics of neoantigens in growing tumors. Nature Genetics, 2020, 52, 1057-1066.	21.4	68
18	Cancer associated fibroblast FAK regulates malignant cell metabolism. Nature Communications, 2020, 11, 1290.	12.8	95

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19	Navigating the path to distant metastasis. Nature Genetics, 2020, 52, 642-643.	21.4	5
20	Measuring single cell divisions in human tissues from multi-region sequencing data. Nature Communications, 2020, 11, 1035.	12.8	41
21	Genetic heterogeneity highlighted by differential FDG-PET response in diffuse large B-cell lymphoma. Haematologica, 2020, 105, 318-321.	3.5	5
22	Measuring the distribution of fitness effects in somatic evolution by combining clonal dynamics with dN/dS ratios. ELife, 2020, 9, .	6.0	32
23	In Situ Point Mutation Detection in FFPE Colorectal Cancers Using the BaseScope Assay. Methods in Molecular Biology, 2020, 2148, 349-360.	0.9	2
24	Evolutionary history of human colitis-associated colorectal cancer. Gut, 2019, 68, 985-995.	12.1	97
25	Spatially constrained tumour growth affects the patterns of clonal selection and neutral drift in cancer genomic data. PLoS Computational Biology, 2019, 15, e1007243.	3.2	59
26	NeoPredPipe: high-throughput neoantigen prediction and recognition potential pipeline. BMC Bioinformatics, 2019, 20, 264.	2.6	71
27	Measuring Clonal Evolution in Cancer with Genomics. Annual Review of Genomics and Human Genetics, 2019, 20, 309-329.	6.2	52
28	Resolving genetic heterogeneity in cancer. Nature Reviews Genetics, 2019, 20, 404-416.	16.3	443
29	Crypt fusion as a homeostatic mechanism in the human colon. Gut, 2019, 68, 1986-1993.	12.1	28
30	Multiregion human bladder cancer sequencing reveals tumour evolution, bladder cancer phenotypes and implications for targeted therapy. Journal of Pathology, 2019, 248, 230-242.	4.5	32
31	Cumulative burden of inflammation predicts colorectal neoplasia risk in ulcerative colitis: a large single-centre study. Gut, 2019, 68, 414-422.	12.1	117
32	Evolution of Barrettâ€™s esophagus through space and time at single-crypt and whole-biopsy levels. Nature Communications, 2018, 9, 794.	12.8	47
33	Somatic POLE exonuclease domain mutations are early events in sporadic endometrial and colorectal carcinogenesis, determining driver mutational landscape, clonal neoantigen burden and immune response. Journal of Pathology, 2018, 245, 283-296.	4.5	71
34	Genomic profiling reveals spatial intra-tumor heterogeneity in follicular lymphoma. Leukemia, 2018, 32, 1261-1265.	7.2	87
35	Insights Into the Pathophysiology of Esophageal Adenocarcinoma. Gastroenterology, 2018, 154, 406-420.	1.3	58
36	An evolutionary perspective on field cancerization. Nature Reviews Cancer, 2018, 18, 19-32.	28.4	316

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37	Reply to â€˜Revisiting signatures of neutral tumor evolution in the light of complexity of cancer genomic dataâ€™. Nature Genetics, 2018, 50, 1628-1630.	21.4	5
38	From Colitis to Cancer: An Evolutionary Trajectory That Merges Maths and Biology. Frontiers in Immunology, 2018, 9, 2368.	4.8	27
39	Reply to â€˜Currently available bulk sequencing data do not necessarily support a model of neutral tumor evolutionâ€™. Nature Genetics, 2018, 50, 1624-1626.	21.4	11
40	Reply to â€˜Neutral tumor evolution?â€™. Nature Genetics, 2018, 50, 1633-1637.	21.4	27
41	The evolutionary landscape of colorectal tumorigenesis. Nature Ecology and Evolution, 2018, 2, 1661-1672.	7.8	99
42	Detecting repeated cancer evolution from multi-region tumor sequencing data. Nature Methods, 2018, 15, 707-714.	19.0	124
43	Quantification of subclonal selection in cancer from bulk sequencing data. Nature Genetics, 2018, 50, 895-903.	21.4	222
44	A <scp>HIF</scp> â€“ <scp>LIMD</scp> 1 negative feedback mechanism mitigates the proâ€tumorigenic effects of hypoxia. EMBO Molecular Medicine, 2018, 10, .	6.9	17
45	The effects of mutational processes and selection on driver mutations across cancer types. Nature Communications, 2018, 9, 1857.	12.8	91
46	Reply: Is the evolution of tumors Darwinian or non-Darwinian?. National Science Review, 2018, 5, 17-19.	9.5	3
47	Catch my drift? Making sense of genomic intra-tumour heterogeneity. Biochimica Et Biophysica Acta: Reviews on Cancer, 2017, 1867, 95-100.	7.4	23
48	Clonal evolution of colorectal cancer in IBD. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 218-229.	17.8	124
49	Evolution of Premalignant Disease. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a026542.	6.2	23
50	Reply: Uncertainties in tumor allele frequencies limit power to infer evolutionary pressures. Nature Genetics, 2017, 49, 1289-1291.	21.4	7
51	Classifying the evolutionary and ecological features of neoplasms. Nature Reviews Cancer, 2017, 17, 605-619.	28.4	303
52	Robust RNA-based in situ mutation detection delineates colorectal cancer subclonal evolution. Nature Communications, 2017, 8, 1998.	12.8	57
53	Quantification of within-sample genetic heterogeneity from SNP-array data. Scientific Reports, 2017, 7, 3248.	3.3	6
54	Between-region genetic divergence reflects the mode and tempo of tumor evolution. Nature Genetics, 2017, 49, 1015-1024.	21.4	144

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55	PIK3CA mutations are common in lobular carcinoma in situ, but are not a biomarker of progression. Breast Cancer Research, 2017, 19, 7.	5.0	14
56	Measuring cancer evolution from the genome. Journal of Pathology, 2017, 241, 183-191.	4.5	93
57	New paradigms in clonal evolution: punctuated equilibrium in cancer. Journal of Pathology, 2016, 240, 126-136.	4.5	69
58	A Computational Modeling Approach for Deriving Biomarkers to Predict Cancer Risk in Premalignant Disease. Cancer Prevention Research, 2016, 9, 283-295.	1.5	18
59	Dynamic clonal equilibrium and predetermined cancer risk in Barrettâ€™s oesophagus. Nature Communications, 2016, 7, 12158.	12.8	75
60	Functional versus non-functional intratumor heterogeneity in cancer. Molecular and Cellular Oncology, 2016, 3, e1162897.	0.7	5
61	Differential clonal evolution in oesophageal cancers in response to neo-adjuvant chemotherapy. Nature Communications, 2016, 7, 11111.	12.8	83
62	Identification of neutral tumor evolution across cancer types. Nature Genetics, 2016, 48, 238-244.	21.4	525
63	Evolution of oesophageal adenocarcinoma from metaplastic columnar epithelium without goblet cells in Barrett's oesophagus. Gut, 2016, 65, 907-913.	12.1	39
64	Quantifying human intestinal stem cell and crypt dynamics: the implications for cancer screening and prevention. Expert Review of Gastroenterology and Hepatology, 2016, 10, 277-279.	3.0	4
65	Pan-cancer analysis of the extent and consequences of intratumor heterogeneity. Nature Medicine, 2016, 22, 105-113.	30.7	629
66	Derivation of genetic biomarkers for cancer risk stratification in Barrettâ€™s oesophagus: a prospective cohort study. Gut, 2016, 65, 1602-1610.	12.1	39
67	Tumour Cell Heterogeneity. F1000Research, 2016, 5, 238.	1.6	91
68	Krt19+/Lgr5â^' Cells Are Radioresistant Cancer-Initiating Stem Cells in the Colon and Intestine. Cell Stem Cell, 2015, 16, 627-638.	11.1	161
69	The Barrettâ€™s Gland in Phenotype Space. Cellular and Molecular Gastroenterology and Hepatology, 2015, 1, 41-54.	4.5	27
70	A Big Bang model of human colorectal tumor growth. Nature Genetics, 2015, 47, 209-216.	21.4	867
71	Gremlin 1 Identifies a Skeletal Stem Cell with Bone, Cartilage, and Reticular Stromal Potential. Cell, 2015, 160, 269-284.	28.9	535
72	Forty-Year Analysis of Colonoscopic Surveillance Program for Neoplasia in Ulcerative Colitis: An Updated Overview. American Journal of Gastroenterology, 2015, 110, 1022-1034.	0.4	227

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73	Characterization of LGR5 stem cells in colorectal adenomas and carcinomas. Scientific Reports, 2015, 5, 8654.	3.3	80
74	Solutions to Peto's paradox revealed by mathematical modelling and cross-species cancer gene analysis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140222.	4.0	69
75	Low-Grade Dysplasia in Ulcerative Colitis: Risk Factors for Developing High-Grade Dysplasia or Colorectal Cancer. American Journal of Gastroenterology, 2015, 110, 1461-1471.	0.4	118
76	Revealing human intestinal stem cell and crypt dynamics. Molecular and Cellular Oncology, 2014, 1, e970069.	0.7	8
77	Re: Mitochondria and Tumor Progression in Ulcerative Colitis. Journal of the National Cancer Institute, 2014, 106, djt436-djt436.	6.3	0
78	Cell migration leads to spatially distinct but clonally related airway cancer precursors. Thorax, 2014, 69, 548-557.	5.6	35
79	Location, location, location! The reality of life for an intestinal stem cell in the crypt. Journal of Pathology, 2014, 234, 1-4.	4.5	9
80	Quantification of Crypt and Stem Cell Evolution in the Normal and Neoplastic Human Colon. Cell Reports, 2014, 8, 940-947.	6.4	179
81	Lineage tracing reveals multipotent stem cells maintain human adenomas and the pattern of clonal expansion in tumor evolution. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2490-9.	7.1	88
82	Crypt dysplasia in Barrett's oesophagus shows clonal identity between crypt and surface cells. Journal of Pathology, 2013, 231, 98-104.	4.5	10
83	Modelling the evolution of genetic instability during tumour progression. Evolutionary Applications, 2013, 6, 20-33.	3.1	41
84	<scp>LRIG1</scp> regulates cadherinâ€dependent contact inhibition directing epithelial homeostasis and preâ€invasive squamous cell carcinoma development. Journal of Pathology, 2013, 229, 608-620.	4.5	34
85	A basal gradient of Wnt and stem-cell number influences regional tumour distribution in human and mouse intestinal tracts. Gut, 2013, 62, 83-93.	12.1	78
86	Preâ€tumour clones, periodic selection and clonal interference in the origin and progression of gastrointestinal cancer: potential for biomarker development. Journal of Pathology, 2013, 229, 502-514.	4.5	20
87	Clonal Selection and Persistence in Dysplastic BarrettÊ¼s Esophagus and Intramucosal Cancers After Failed Radiofrequency Ablation. American Journal of Gastroenterology, 2013, 108, 1584-1592.	0.4	21
88	What Can Be Learnt about Disease Progression in Breast Cancer Dormancy from Relapse Data?. PLoS ONE, 2013, 8, e62320.	2.5	12
89	Stochastic homeostasis in human airway epithelium is achieved by neutral competition of basal cell progenitors. ELife, 2013, 2, e00966.	6.0	105
90	Barrett's metaplasia glands are clonal, contain multiple stem cells and share a common squamous progenitor. Gut, 2012, 61, 1380-1389.	12.1	72

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91	Field Cancerization in the Intestinal Epithelium of Patients With Crohn's Ileocolitis. Gastroenterology, 2012, 142, 855-864.e8.	1.3	104
92	Utilizing DNA Mutations to Trace Epithelial Cell Lineages in Human Tissues. Methods in Molecular Biology, 2012, 916, 289-301.	0.9	2
93	Resolving the stem-cell debate. Nature, 2012, 488, 462-463.	27.8	73
94	Use of Methylation Patterns to Determine Expansion of Stem Cell Clones in Human Colon Tissue. Gastroenterology, 2011, 140, 1241-1250.e9.	1.3	52
95	The Clonal Origins of Dysplasia From Intestinal Metaplasia in the Human Stomach. Gastroenterology, 2011, 140, 1251-1260.e6.	1.3	80
96	Stem cells and their implications for colorectal cancer. Nature Reviews Gastroenterology and Hepatology, 2011, 8, 90-100.	17.8	131
97	Field cancerization in the GI tract. Future Oncology, 2011, 7, 981-993.	2.4	32
98	The human urothelium consists of multiple clonal units, each maintained by a stem cell. Journal of Pathology, 2011, 225, 163-171.	4.5	59
99	Clonal architecture of human prostatic epithelium in benign and malignant conditions. Journal of Pathology, 2011, 225, 172-180.	4.5	52
100	Stem Cells and Inflammation in the Intestine. Recent Results in Cancer Research, 2011, 185, 51-63.	1.8	7
101	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. Oncotarget, 2011, 2, 529-537.	1.8	8
102	Field cancerization in Barrett's esophagus. Discovery Medicine, 2011, 12, 371-9.	0.5	10
103	Genetic diversity during the development of Barrett's oesophagus-associated adenocarcinoma: how, when and why?. Biochemical Society Transactions, 2010, 38, 374-379.	3.4	12
104	The histogenesis of regenerative nodules in human liver cirrhosis. Hepatology, 2010, 51, 1017-1026.	7.3	91
105	Spindles losing their bearings: Does disruption of orientation in stem cells predict the onset of cancer?. BioEssays, 2010, 32, 468-472.	2.5	7
106	Field defects in DNA repair: is loss of MGMT an initial event in colorectal carcinogenesis?. Gut, 2010, 59, 1452-1453.	12.1	1
107	Long-term proton pump induced hypergastrinaemia does induce lineage-specific restitution but not clonal expansion in benign Barrett's oesophagus in vivo. Gut, 2010, 59, 156-163.	12.1	25
108	Breast Cancer Dormancy Can Be Maintained by Small Numbers of Micrometastases. Cancer Research, 2010, 70, 4310-4317.	0.9	42

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109	Clonality Assessment and Clonal Ordering of Individual Neoplastic Crypts Shows Polyclonality of Colorectal Adenomas. Gastroenterology, 2010, 138, 1441-1454.e7.	1.3	118
110	Stem cells and solid cancers. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2009, 455, 1-13.	2.8	23
111	Clonality, Founder Mutations, and Field Cancerization in Human Ulcerative Colitisâ€“Associated Neoplasia. Gastroenterology, 2009, 136, 542-550.e6.	1.3	164
112	Investigating the fixation and spread of mutations in the gastrointestinal epithelium. Future Oncology, 2008, 4, 825-839.	2.4	4
113	Reply: Neutral tumor evolution?. , 0, , .		1