

# David C Wedge

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

136  
papers

27,834  
citations

56  
h-index

166  
g-index

172  
ext. papers

35,373  
ext. citations

20.6  
avg, IF

7.3  
L-index

#	Paper	IF	Citations
136	Signatures of TOP1 transcription-associated mutagenesis in cancer and germline.. <i>Nature</i> , <b>2022</b> ,	50.4	4
135	Multi-omic cross-sectional cohort study of pre-malignant Barrett's esophagus reveals early structural variation and retrotransposon activity.. <i>Nature Communications</i> , <b>2022</b> , 13, 1407	17.4	2
134	Whole-genome analysis of Nigerian patients with breast cancer reveals ethnic-driven somatic evolution and distinct genomic subtypes. <i>Nature Communications</i> , <b>2021</b> , 12, 6946	17.4	1
133	Changes in Clonal Architecture Inform MPN Disease Course in Advance of Phenotypic Manifestations. <i>Blood</i> , <b>2021</b> , 138, 3590-3590	2.2	0
132	A unified haplotype-based method for accurate and comprehensive variant calling. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 885-892	44.5	13
131	Promises and challenges of adoptive T-cell therapies for solid tumours. <i>British Journal of Cancer</i> , <b>2021</b> , 124, 1759-1776	8.7	19
130	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , <b>2021</b> , 184, 2239-2254.e39	56.2	57
129	A Systematic Review of Prostate Cancer Heterogeneity: Understanding the Clonal Ancestry of Multifocal Disease. <i>European Urology Oncology</i> , <b>2021</b> , 4, 358-369	6.7	4
128	Tracing Lung Cancer Risk Factors Through Mutational Signatures in Never-Smokers. <i>American Journal of Epidemiology</i> , <b>2021</b> , 190, 962-976	3.8	4
127	A practical guide to cancer subclonal reconstruction from DNA sequencing. <i>Nature Methods</i> , <b>2021</b> , 18, 144-155	21.6	25
126	Localized activation of the metastatic phenotype within the perineural region in prostate cancer.. <i>Journal of Clinical Oncology</i> , <b>2021</b> , 39, 253-253	2.2	0
125	Tumor heterogeneity. <i>Cancer Cell</i> , <b>2021</b> , 39, 1015-1017	24.3	6
124	Subclone Eradication Analysis Identifies Targets for Enhanced Cancer Therapy and Reveals L1 Retrotransposition as a Dynamic Source of Cancer Heterogeneity. <i>Cancer Research</i> , <b>2021</b> , 81, 4901-4909	10.1	0
123	Genomic and evolutionary classification of lung cancer in never smokers. <i>Nature Genetics</i> , <b>2021</b> , 53, 1348-1359	36.5	14
122	Genetic and epigenetic intratumor heterogeneity impacts prognosis of lung adenocarcinoma. <i>Nature Communications</i> , <b>2020</b> , 11, 2459	17.4	29
121	The genomic and epigenomic evolutionary history of papillary renal cell carcinomas. <i>Nature Communications</i> , <b>2020</b> , 11, 3096	17.4	8
120	Reference bias in the Illumina Isaac aligner. <i>Bioinformatics</i> , <b>2020</b> , 36, 4671-4672	7.2	

119	The evolutionary history of 2,658 cancers. <i>Nature</i> , <b>2020</b> , 578, 122-128	50.4	307
118	Pan-cancer analysis of whole genomes. <i>Nature</i> , <b>2020</b> , 578, 82-93	50.4	840
117	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. <i>Nature Genetics</i> , <b>2020</b> , 52, 306-319	36.3	122
116	Detailed Molecular and Immune Marker Profiling of Archival Prostate Cancer Samples Reveals an Inverse Association between TMPRSS2:ERG Fusion Status and Immune Cell Infiltration. <i>Journal of Molecular Diagnostics</i> , <b>2020</b> , 22, 652-669	5.1	2
115	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000926	9.7	10
114	DNA copy number motifs are strong and independent predictors of survival in breast cancer. <i>Communications Biology</i> , <b>2020</b> , 3, 153	6.7	4
113	A community effort to create standards for evaluating tumor subclonal reconstruction. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 97-107	44.5	35
112	Genomic evidence supports a clonal diaspora model for metastases of esophageal adenocarcinoma. <i>Nature Genetics</i> , <b>2020</b> , 52, 74-83	36.3	24
111	Prostate cancer evolution from multilineage primary to single lineage metastases with implications for liquid biopsy. <i>Nature Communications</i> , <b>2020</b> , 11, 5070	17.4	18
110	Multi-site clonality analysis uncovers pervasive heterogeneity across melanoma metastases. <i>Nature Communications</i> , <b>2020</b> , 11, 4306	17.4	12
109	Genomic copy number predicts esophageal cancer years before transformation. <i>Nature Medicine</i> , <b>2020</b> , 26, 1726-1732	50.5	31
108	Malignant transformation and genetic alterations are uncoupled in early colorectal cancer progression. <i>BMC Biology</i> , <b>2020</b> , 18, 116	7.3	3
107	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils <b>2020</b> , 18, e3000926		
106	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils <b>2020</b> , 18, e3000926		
105	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils <b>2020</b> , 18, e3000926		
104	Evolution and lineage dynamics of a transmissible cancer in Tasmanian devils <b>2020</b> , 18, e3000926		
103	Genomic landscape and chronological reconstruction of driver events in multiple myeloma. <i>Nature Communications</i> , <b>2019</b> , 10, 3835	17.4	94
102	Characterizing Mutational Signatures in Human Cancer Cell Lines Reveals Episodic APOBEC Mutagenesis. <i>Cell</i> , <b>2019</b> , 176, 1282-1294.e20	56.2	165

101	Profiling molecular regulators of recurrence in chemorefractory triple-negative breast cancers. <i>Breast Cancer Research</i> , <b>2019</b> , 21, 87	8.3	10
100	Embryonal precursors of Wilms tumor. <i>Science</i> , <b>2019</b> , 366, 1247-1251	33.3	40
99	Sequencing of prostate cancers identifies new cancer genes, routes of progression and drug targets. <i>Nature Genetics</i> , <b>2018</b> , 50, 682-692	36.3	112
98	Timing the Landmark Events in the Evolution of Clear Cell Renal Cell Cancer: TRACERx Renal. <i>Cell</i> , <b>2018</b> , 173, 611-623.e17	56.2	228
97	Organoid cultures recapitulate esophageal adenocarcinoma heterogeneity providing a model for clonality studies and precision therapeutics. <i>Nature Communications</i> , <b>2018</b> , 9, 2983	17.4	113
96	Genomic patterns of progression in smoldering multiple myeloma. <i>Nature Communications</i> , <b>2018</b> , 9, 3363	17.4	99
95	Abstract 3000: Pervasive intra-tumour heterogeneity and subclonal selection across cancer types <b>2018</b> ,		6
94	Time series analysis of neoadjuvant chemotherapy and bevacizumab-treated breast carcinomas reveals a systemic shift in genomic aberrations. <i>Genome Medicine</i> , <b>2018</b> , 10, 92	14.4	11
93	Classification and Personalized Prognosis in Myeloproliferative Neoplasms. <i>New England Journal of Medicine</i> , <b>2018</b> , 379, 1416-1430	59.2	256
92	Neutral tumor evolution?. <i>Nature Genetics</i> , <b>2018</b> , 50, 1630-1633	36.3	38
91	The evolutionary landscape of colorectal tumorigenesis. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1661-1672	2.3	52
90	Principles of Reconstructing the Subclonal Architecture of Cancers. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2017</b> , 7,	5.4	58
89	Recurrent mutation of IGF signalling genes and distinct patterns of genomic rearrangement in osteosarcoma. <i>Nature Communications</i> , <b>2017</b> , 8, 15936	17.4	125
88	Somatic mutations reveal asymmetric cellular dynamics in the early human embryo. <i>Nature</i> , <b>2017</b> , 543, 714-718	50.4	157
87	Pan-cancer analysis of homozygous deletions in primary tumours uncovers rare tumour suppressors. <i>Nature Communications</i> , <b>2017</b> , 8, 1221	17.4	40
86	Appraising the relevance of DNA copy number loss and gain in prostate cancer using whole genome DNA sequence data. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007001	6	20
85	Genomic Evolution of Breast Cancer Metastasis and Relapse. <i>Cancer Cell</i> , <b>2017</b> , 32, 169-184.e7	24.3	346
84	How Subclonal Modeling Is Changing the Metastatic Paradigm. <i>Clinical Cancer Research</i> , <b>2017</b> , 23, 630-635	5.9	26

83	Rapid parallel acquisition of somatic mutations after NPM1 in acute myeloid leukaemia evolution. <i>British Journal of Haematology</i> , <b>2017</b> , 176, 825-829	4.5	3
82	Mutational signatures of ionizing radiation in second malignancies. <i>Nature Communications</i> , <b>2016</b> , 7, 12605	17.4	152
81	Perturbed hematopoietic stem and progenitor cell hierarchy in myelodysplastic syndromes patients with monosomy 7 as the sole cytogenetic abnormality. <i>Oncotarget</i> , <b>2016</b> , 7, 72685-72698	3.3	16
80	Mitochondrial genetic diversity, selection and recombination in a canine transmissible cancer. <i>ELife</i> , <b>2016</b> , 5,	8.9	37
79	Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing. <i>Genome Biology</i> , <b>2016</b> , 17, 250	18.3	48
78	ascatNgs: Identifying Somatic Acquired Copy-Number Alterations from Whole-Genome Sequencing Data. <i>Current Protocols in Bioinformatics</i> , <b>2016</b> , 56, 15.9.1-15.9.17	24.2	60
77	Landscape of somatic mutations in 560 breast cancer whole-genome sequences. <i>Nature</i> , <b>2016</b> , 534, 47-54	50.4	1193
76	The Genomic Landscape of Pancreatic and Periampullary Adenocarcinoma. <i>Cancer Research</i> , <b>2016</b> , 76, 5092-102	10.1	27
75	Direct Transcriptional Consequences of Somatic Mutation in Breast Cancer. <i>Cell Reports</i> , <b>2016</b> , 16, 2032-46	46.6	30
74	Subclonal diversification of primary breast cancer revealed by multiregion sequencing. <i>Nature Medicine</i> , <b>2015</b> , 21, 751-9	50.5	521
73	Concomitant inactivation of the p53- and pRB- functional pathways predicts resistance to DNA damaging drugs in breast cancer in vivo. <i>Molecular Oncology</i> , <b>2015</b> , 9, 1553-64	7.9	19
72	Analysis of the genetic phylogeny of multifocal prostate cancer identifies multiple independent clonal expansions in neoplastic and morphologically normal prostate tissue. <i>Nature Genetics</i> , <b>2015</b> , 47, 367-372	36.3	292
71	The evolutionary history of lethal metastatic prostate cancer. <i>Nature</i> , <b>2015</b> , 520, 353-357	50.4	857
70	Clock-like mutational processes in human somatic cells. <i>Nature Genetics</i> , <b>2015</b> , 47, 1402-7	36.3	531
69	Untargeted metabolic profiling identifies altered serum metabolites of type 2 diabetes mellitus in a prospective, nested case control study. <i>Clinical Chemistry</i> , <b>2015</b> , 61, 487-97	5.5	94
68	Diagnostic value of H3F3A mutations in giant cell tumour of bone compared to osteoclast-rich mimics. <i>Journal of Pathology: Clinical Research</i> , <b>2015</b> , 1, 113-23	5.3	98
67	DNMT3A mutations occur early or late in patients with myeloproliferative neoplasms and mutation order influences phenotype. <i>Haematologica</i> , <b>2015</b> , 100, e438-42	6.6	70
66	Tumor evolution. High burden and pervasive positive selection of somatic mutations in normal human skin. <i>Science</i> , <b>2015</b> , 348, 880-6	33.3	983

65	Tracking the origins and drivers of subclonal metastatic expansion in prostate cancer. <i>Nature Communications</i> , <b>2015</b> , 6, 6605	17.4	245
64	Effect of mutation order on myeloproliferative neoplasms. <i>New England Journal of Medicine</i> , <b>2015</b> , 372, 601-612	59.2	334
63	Combined hereditary and somatic mutations of replication error repair genes result in rapid onset of ultra-hypermuted cancers. <i>Nature Genetics</i> , <b>2015</b> , 47, 257-62	36.3	253
62	Recurrent PTPRB and PLCG1 mutations in angiosarcoma. <i>Nature Genetics</i> , <b>2014</b> , 46, 376-379	36.3	196
61	Myelodysplastic syndromes are propagated by rare and distinct human cancer stem cells in vivo. <i>Cancer Cell</i> , <b>2014</b> , 25, 794-808	24.3	216
60	Heterogeneity of genomic evolution and mutational profiles in multiple myeloma. <i>Nature Communications</i> , <b>2014</b> , 5, 2997	17.4	564
59	Transmissible [corrected] dog cancer genome reveals the origin and history of an ancient cell lineage. <i>Science</i> , <b>2014</b> , 343, 437-440	33.3	116
58	RAG-mediated recombination is the predominant driver of oncogenic rearrangement in ETV6-RUNX1 acute lymphoblastic leukemia. <i>Nature Genetics</i> , <b>2014</b> , 46, 116-25	36.3	244
57	A comparison of different chemometrics approaches for the robust classification of electronic nose data. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 7581-90	4.4	50
56	Mobile DNA in cancer. Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. <i>Science</i> , <b>2014</b> , 345, 1251343	33.3	250
55	Intratumor heterogeneity in localized lung adenocarcinomas delineated by multiregion sequencing. <i>Science</i> , <b>2014</b> , 346, 256-9	33.3	659
54	Spatial and temporal diversity in genomic instability processes defines lung cancer evolution. <i>Science</i> , <b>2014</b> , 346, 251-6	33.3	752
53	Association of a germline copy number polymorphism of APOBEC3A and APOBEC3B with burden of putative APOBEC-dependent mutations in breast cancer. <i>Nature Genetics</i> , <b>2014</b> , 46, 487-91	36.3	208
52	Genome sequencing of normal cells reveals developmental lineages and mutational processes. <i>Nature</i> , <b>2014</b> , 513, 422-425	50.4	249
51	Differential and limited expression of mutant alleles in multiple myeloma. <i>Blood</i> , <b>2014</b> , 124, 3110-7	2.2	42
50	Fast randomization of large genomic datasets while preserving alteration counts. <i>Bioinformatics</i> , <b>2014</b> , 30, i617-23	7.2	27
49	Population distribution and ancestry of the cancer protective MDM2 SNP285 (rs117039649). <i>Oncotarget</i> , <b>2014</b> , 5, 8223-34	3.3	21
48	Frequent mutation of the major cartilage collagen gene COL2A1 in chondrosarcoma. <i>Nature Genetics</i> , <b>2013</b> , 45, 923-6	36.3	138

47	Signatures of mutational processes in human cancer. <i>Nature</i> , <b>2013</b> , 500, 415-21	50.4	5895
46	Deciphering signatures of mutational processes operative in human cancer. <i>Cell Reports</i> , <b>2013</b> , 3, 246-59	10.6	725
45	Somatic CALR mutations in myeloproliferative neoplasms with nonmutated JAK2. <i>New England Journal of Medicine</i> , <b>2013</b> , 369, 2391-2405	59.2	1262
44	Clinical and biological implications of driver mutations in myelodysplastic syndromes. <i>Blood</i> , <b>2013</b> , 122, 3616-27; quiz 3699	2.2	1169
43	A comparison of Raman and FT-IR spectroscopy for the prediction of meat spoilage. <i>Food Control</i> , <b>2013</b> , 29, 461-470	6.2	90
42	Distinct H3F3A and H3F3B driver mutations define chondroblastoma and giant cell tumor of bone. <i>Nature Genetics</i> , <b>2013</b> , 45, 1479-82	36.3	482
41	The genetic heterogeneity and mutational burden of engineered melanomas in zebrafish models. <i>Genome Biology</i> , <b>2013</b> , 14, R113	18.3	33
40	Whole exome sequencing of adenoid cystic carcinoma. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 2965-8	5.9	188
39	Genome sequencing and analysis of the Tasmanian devil and its transmissible cancer. <i>Cell</i> , <b>2012</b> , 148, 780-91	56.2	251
38	Liquid chromatography-mass spectrometry calibration transfer and metabolomics data fusion. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9848-57	7.8	31
37	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , <b>2012</b> , 486, 400-4	50.4	1264
36	Mutational processes molding the genomes of 21 breast cancers. <i>Cell</i> , <b>2012</b> , 149, 979-93	56.2	1279
35	The life history of 21 breast cancers. <i>Cell</i> , <b>2012</b> , 149, 994-1007	56.2	979
34	Tandem duplication of chromosomal segments is common in ovarian and breast cancer genomes. <i>Journal of Pathology</i> , <b>2012</b> , 227, 446-55	9.4	72
33	FDRAnalysis: a tool for the integrated analysis of tandem mass spectrometry identification results from multiple search engines. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 2088-94	5.6	14
32	Is serum or plasma more appropriate for intersubject comparisons in metabolomic studies? An assessment in patients with small-cell lung cancer. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6689-97	7.8	106
31	Automated workflows for accurate mass-based putative metabolite identification in LC/MS-derived metabolomic datasets. <i>Bioinformatics</i> , <b>2011</b> , 27, 1108-12	7.2	156
30	CONSeQuence: prediction of reference peptides for absolute quantitative proteomics using consensus machine learning approaches. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M110.003384	7.6	101

29	Analysis of a complete DNA-protein affinity landscape. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 397-408	4.1	49
28	Convergent evolution to an aptamer observed in small populations on DNA microarrays. <i>Physical Biology</i> , <b>2010</b> , 7, 036007	3	11
27	Predictive models for population performance on real biological fitness landscapes. <i>Bioinformatics</i> , <b>2010</b> , 26, 2145-52	7.2	11
26	Fabrication of planar organic nanotransistors using low temperature thermal nanoimprint lithography for chemical sensor applications. <i>Nanotechnology</i> , <b>2010</b> , 21, 75301	3.4	20
25	Array-based evolution of DNA aptamers allows modelling of an explicit sequence-fitness landscape. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, e6	20.1	85
24	Low cost, portable, fast multiparameter data acquisition system for organic transistor odour sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 137, 586-591	8.5	25
23	Real-time vapour sensing using an OFET-based electronic nose and genetic programming. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 143, 365-372	8.5	38
22	In silico modelling of directed evolution: Implications for experimental design and stepwise evolution. <i>Journal of Theoretical Biology</i> , <b>2009</b> , 257, 131-41	2.3	28
21	Aptamer evolution for array-based diagnostics. <i>Analytical Biochemistry</i> , <b>2009</b> , 390, 203-5	3.1	45
20	pK(a) prediction from "Quantum Chemical Topology" descriptors. <i>Journal of Chemical Information and Modeling</i> , <b>2009</b> , 49, 1914-24	6.1	43
19	Peptide detectability following ESI mass spectrometry <b>2007</b> ,		7
18	On global-local artificial neural networks for function approximation. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 942-52		33
17	Neural network architectures and overtopping predictions. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , <b>2005</b> , 158, 123-133	1.8	7
16	A Global-Local Artificial Neural Network with Application to Wave Overtopping Prediction. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 109-114	0.9	1
15	Clonal diversification and histogenesis of malignant germ cell tumours		1
14	Neutral tumor evolution?		2
13	The evolutionary history of 2,658 cancers		28
12	Pan-cancer analysis of whole genomes reveals driver rearrangements promoted by LINE-1 retrotransposition in human tumours		10

11	Genomic copy number predicts oesophageal cancer years before transformation	1
10	Uncovering novel mutational signatures by de novo extraction with SigProfilerExtractor	17
9	Germline determinants of the somatic mutation landscape in 2,642 cancer genomes	13
8	Creating Standards for Evaluating Tumour Subclonal Reconstruction	3
7	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes	25
6	Genomic landscape and chronological reconstruction of driver events in multiple myeloma	6
5	Genomic evidence supports a clonal diaspora model for metastases of esophageal adenocarcinoma	1
4	A unified haplotype-based method for accurate and comprehensive variant calling	4
3	Multi-site clonality analyses uncovers pervasive subclonal heterogeneity and branching evolution across melanoma metastases	2
2	Benchmarking small-variant genotyping in polyploids	1
1	Germline loss-of-function variants in the base-excision repair gene MBD4 cause a Mendelian recessive syndrome of adenomatous colorectal polyposis and acute myeloid leukaemia	3