

Peter Van Loo

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.

116
papers

24,629
citations

58
h-index

137
g-index

137
ext. papers

31,829
ext. citations

24.1
avg, IF

6.05
L-index

#	Paper	IF	Citations
116	Biallelic mutations in cancer genomes reveal local mutational determinants.. <i>Nature Genetics</i> , 2022 , 54, 128-133	36.3	1
115	Whole-genome analysis of Nigerian patients with breast cancer reveals ethnic-driven somatic evolution and distinct genomic subtypes. <i>Nature Communications</i> , 2021 , 12, 6946	17.4	1
114	Aberrant integration of Hepatitis B virus DNA promotes major restructuring of human hepatocellular carcinoma genome architecture. <i>Nature Communications</i> , 2021 , 12, 6910	17.4	6
113	DeCiFering the subclonal composition of tumors. <i>Cell Systems</i> , 2021 , 12, 955-957	10.6	
112	Breast tumours maintain a reservoir of subclonal diversity during expansion. <i>Nature</i> , 2021 , 592, 302-308	50.4	33
111	Promises and challenges of adoptive T-cell therapies for solid tumours. <i>British Journal of Cancer</i> , 2021 , 124, 1759-1776	8.7	19
110	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021 , 184, 2239-2254.e39	56.2	57
109	An integrative analysis of the age-associated multi-omic landscape across cancers. <i>Nature Communications</i> , 2021 , 12, 2345	17.4	9
108	E3 ubiquitin ligase HECTD2 mediates melanoma progression and immune evasion. <i>Oncogene</i> , 2021 , 40, 5567-5578	9.2	0
107	Chemotherapy induces canalization of cell state in childhood B-cell precursor acute lymphoblastic leukemia. <i>Nature Cancer</i> , 2021 , 2, 835-852	15.4	5
106	A pan-cancer landscape of somatic mutations in non-unique regions of the human genome. <i>Nature Biotechnology</i> , 2021 ,	44.5	1
105	A practical guide to cancer subclonal reconstruction from DNA sequencing. <i>Nature Methods</i> , 2021 , 18, 144-155	21.6	25
104	Meta-analysis of tumor- and T cell-intrinsic mechanisms of sensitization to checkpoint inhibition. <i>Cell</i> , 2021 , 184, 596-614.e14	56.2	144
103	Using DNA sequencing data to quantify T cell fraction and therapy response. <i>Nature</i> , 2021 , 597, 555-560	50.4	5
102	Representative Sequencing: Unbiased Sampling of Solid Tumor Tissue. <i>Cell Reports</i> , 2020 , 31, 107550	10.6	19
101	Interplay between whole-genome doubling and the accumulation of deleterious alterations in cancer evolution. <i>Nature Genetics</i> , 2020 , 52, 283-293	36.3	63
100	The evolutionary history of 2,658 cancers. <i>Nature</i> , 2020 , 578, 122-128	50.4	307

99	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. <i>Nature Genetics</i> , 2020 , 52, 306-319	36.3	122
98	DNA copy number motifs are strong and independent predictors of survival in breast cancer. <i>Communications Biology</i> , 2020 , 3, 153	6.7	4
97	A community effort to create standards for evaluating tumor subclonal reconstruction. <i>Nature Biotechnology</i> , 2020 , 38, 97-107	44.5	35
96	Ethanol exposure increases mutation rate through error-prone polymerases. <i>Nature Communications</i> , 2020 , 11, 3664	17.4	9
95	Drivers underpinning the malignant transformation of giant cell tumour of bone. <i>Journal of Pathology</i> , 2020 , 252, 433-440	9.4	5
94	Pervasive chromosomal instability and karyotype order in tumour evolution. <i>Nature</i> , 2020 , 587, 126-132	50.4	67
93	Neoantigen-directed immune escape in lung cancer evolution. <i>Nature</i> , 2019 , 567, 479-485	50.4	358
92	Undifferentiated Sarcomas Develop through Distinct Evolutionary Pathways. <i>Cancer Cell</i> , 2019 , 35, 441-456	45.8	35
91	Translating insights into tumor evolution to clinical practice: promises and challenges. <i>Genome Medicine</i> , 2019 , 11, 20	14.4	34
90	Sequencing of prostate cancers identifies new cancer genes, routes of progression and drug targets. <i>Nature Genetics</i> , 2018 , 50, 682-692	36.3	112
89	Deterministic Evolutionary Trajectories Influence Primary Tumor Growth: TRACERx Renal. <i>Cell</i> , 2018 , 173, 595-610.e11	56.2	268
88	Timing somatic events in the evolution of cancer. <i>Genome Biology</i> , 2018 , 19, 95	18.3	41
87	Characterization of Nigerian breast cancer reveals prevalent homologous recombination deficiency and aggressive molecular features. <i>Nature Communications</i> , 2018 , 9, 4181	17.4	45
86	Neutral tumor evolution?. <i>Nature Genetics</i> , 2018 , 50, 1630-1633	36.3	38
85	Recurrent rearrangements of FOS and FOSB define osteoblastoma. <i>Nature Communications</i> , 2018 , 9, 2150	17.4	69
84	Principles of Reconstructing the Subclonal Architecture of Cancers. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017 , 7,	5.4	58
83	Phylogenetic ctDNA analysis depicts early-stage lung cancer evolution. <i>Nature</i> , 2017 , 545, 446-451	50.4	796
82	Tracking the Evolution of Non-Small-Cell Lung Cancer. <i>New England Journal of Medicine</i> , 2017 , 376, 2109-2121	59.1	1156

81	Recurrent mutation of IGF signalling genes and distinct patterns of genomic rearrangement in osteosarcoma. <i>Nature Communications</i> , 2017 , 8, 15936	17.4	125
80	Allele-Specific HLA Loss and Immune Escape in Lung Cancer Evolution. <i>Cell</i> , 2017 , 171, 1259-1271.e11	56.2	541
79	Pan-cancer analysis of homozygous deletions in primary tumours uncovers rare tumour suppressors. <i>Nature Communications</i> , 2017 , 8, 1221	17.4	40
78	Universal Patterns of Selection in Cancer and Somatic Tissues. <i>Cell</i> , 2017 , 171, 1029-1041.e21	56.2	576
77	Appraising the relevance of DNA copy number loss and gain in prostate cancer using whole genome DNA sequence data. <i>PLoS Genetics</i> , 2017 , 13, e1007001	6	20
76	Genomic Evolution of Breast Cancer Metastasis and Relapse. <i>Cancer Cell</i> , 2017 , 32, 169-184.e7	24.3	346
75	How Subclonal Modeling Is Changing the Metastatic Paradigm. <i>Clinical Cancer Research</i> , 2017 , 23, 630-635.9	26	
74	Rapid parallel acquisition of somatic mutations after NPM1 in acute myeloid leukaemia evolution. <i>British Journal of Haematology</i> , 2017 , 176, 825-829	4.5	3
73	Mutational signatures of ionizing radiation in second malignancies. <i>Nature Communications</i> , 2016 , 7, 12605	17.4	152
72	Mutational signatures associated with tobacco smoking in human cancer. <i>Science</i> , 2016 , 354, 618-622	33.3	562
71	Genomic Classification and Prognosis in Acute Myeloid Leukemia. <i>New England Journal of Medicine</i> , 2016 , 374, 2209-2221	59.2	1999
70	Genomic Characterization of Primary Invasive Lobular Breast Cancer. <i>Journal of Clinical Oncology</i> , 2016 , 34, 1872-81	2.2	175
69	Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing. <i>Genome Biology</i> , 2016 , 17, 250	18.3	48
68	ascatNgs: Identifying Somatic Copy-Number Alterations from Whole-Genome Sequencing Data. <i>Current Protocols in Bioinformatics</i> , 2016 , 56, 15.9.1-15.9.17	24.2	60
67	Landscape of somatic mutations in 560 breast cancer whole-genome sequences. <i>Nature</i> , 2016 , 534, 47-54.4	1193	
66	The Genomic Landscape of Pancreatic and Periampullary Adenocarcinoma. <i>Cancer Research</i> , 2016 , 76, 5092-102	10.1	27
65	Direct Transcriptional Consequences of Somatic Mutation in Breast Cancer. <i>Cell Reports</i> , 2016 , 16, 2032-46.6	30	
64	Subclonal diversification of primary breast cancer revealed by multiregion sequencing. <i>Nature Medicine</i> , 2015 , 21, 751-9	50.5	521

63	On the identification of low allele frequency mosaic mutations in the brains of Alzheimer's disease patients. <i>Alzheimers and Dementia</i> , 2015 , 11, 1265-76	1.2	47
62	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> , 2015 , 47, 367-372	36.3	292
61	The evolutionary history of lethal metastatic prostate cancer. <i>Nature</i> , 2015 , 520, 353-357	50.4	857
60	Copy number variations alter methylation and parallel IGF2 overexpression in adrenal tumors. <i>Endocrine-Related Cancer</i> , 2015 , 22, 953-67	5.7	16
59	Diagnostic value of H3F3A mutations in giant cell tumour of bone compared to osteoclast-rich mimics. <i>Journal of Pathology: Clinical Research</i> , 2015 , 1, 113-23	5.3	98
58	SNES makes sense? Single-cell exome sequencing evolves. <i>Genome Biology</i> , 2015 , 16, 86	18.3	2
57	Tumor evolution. High burden and pervasive positive selection of somatic mutations in normal human skin. <i>Science</i> , 2015 , 348, 880-6	33.3	983
56	Tracking the origins and drivers of subclonal metastatic expansion in prostate cancer. <i>Nature Communications</i> , 2015 , 6, 6605	17.4	245
55	Combined hereditary and somatic mutations of replication error repair genes result in rapid onset of ultra-hypermuted cancers. <i>Nature Genetics</i> , 2015 , 47, 257-62	36.3	253
54	Canine Mammary Tumours Are Affected by Frequent Copy Number Aberrations, including Amplification of MYC and Loss of PTEN. <i>PLoS ONE</i> , 2015 , 10, e0126371	3.7	18
53	Constitutional and somatic rearrangement of chromosome 21 in acute lymphoblastic leukaemia. <i>Nature</i> , 2014 , 508, 98-102	50.4	192
52	Recurrent PTPRB and PLCG1 mutations in angiosarcoma. <i>Nature Genetics</i> , 2014 , 46, 376-379	36.3	196
51	Heterogeneity of genomic evolution and mutational profiles in multiple myeloma. <i>Nature Communications</i> , 2014 , 5, 2997	17.4	564
50	RAG-mediated recombination is the predominant driver of oncogenic rearrangement in ETV6-RUNX1 acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2014 , 46, 116-25	36.3	244
49	Mobile DNA in cancer. Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. <i>Science</i> , 2014 , 345, 1251343	33.3	250
48	Spatial and temporal diversity in genomic instability processes defines lung cancer evolution. <i>Science</i> , 2014 , 346, 251-6	33.3	752
47	Single cell analysis of cancer genomes. <i>Current Opinion in Genetics and Development</i> , 2014 , 24, 82-91	4.9	99
46	Differential and limited expression of mutant alleles in multiple myeloma. <i>Blood</i> , 2014 , 124, 3110-7	2.2	42

45	The 5p12 breast cancer susceptibility locus affects MRPS30 expression in estrogen-receptor positive tumors. <i>Molecular Oncology</i> , 2014 , 8, 273-84	7.9	21
44	Frequent mutation of the major cartilage collagen gene COL2A1 in chondrosarcoma. <i>Nature Genetics</i> , 2013 , 45, 923-6	36.3	138
43	Single-cell paired-end genome sequencing reveals structural variation per cell cycle. <i>Nucleic Acids Research</i> , 2013 , 41, 6119-38	20.1	125
42	Clinical and biological implications of driver mutations in myelodysplastic syndromes. <i>Blood</i> , 2013 , 122, 3616-27; quiz 3699	2.2	1169
41	Distinct H3F3A and H3F3B driver mutations define chondroblastoma and giant cell tumor of bone. <i>Nature Genetics</i> , 2013 , 45, 1479-82	36.3	482
40	The genetic heterogeneity and mutational burden of engineered melanomas in zebrafish models. <i>Genome Biology</i> , 2013 , 14, R113	18.3	33
39	Next-generation sequencing of disseminated tumor cells. <i>Frontiers in Oncology</i> , 2013 , 3, 320	5.3	29
38	Whole exome sequencing of adenoid cystic carcinoma. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2965-8	5.9	188
37	Mitotic recombination of chromosome arm 17q as a cause of loss of heterozygosity of NF1 in neurofibromatosis type 1-associated glomus tumors. <i>Genes Chromosomes and Cancer</i> , 2012 , 51, 429-37	5	23
36	Recurrent breakpoints in 14q32.13/TCL1A region in mature B-cell neoplasms with villous lymphocytes. <i>Leukemia and Lymphoma</i> , 2012 , 53, 2449-55	1.9	3
35	Copynumber: Efficient algorithms for single- and multi-track copy number segmentation. <i>BMC Genomics</i> , 2012 , 13, 591	4.5	175
34	EGFR gene variants are associated with specific somatic aberrations in glioma. <i>PLoS ONE</i> , 2012 , 7, e47929	7	10
33	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , 2012 , 486, 400-4	50.4	1264
32	Mutational processes molding the genomes of 21 breast cancers. <i>Cell</i> , 2012 , 149, 979-93	56.2	1279
31	The life history of 21 breast cancers. <i>Cell</i> , 2012 , 149, 994-1007	56.2	979
30	LRP1B deletion in high-grade serous ovarian cancers is associated with acquired chemotherapy resistance to liposomal doxorubicin. <i>Cancer Research</i> , 2012 , 72, 4060-73	10.1	73
29	Integrated molecular profiles of invasive breast tumors and ductal carcinoma in situ (DCIS) reveal differential vascular and interleukin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2802-7	11.5	125
28	Cleavage of NIK by the API2-MALT1 fusion oncoprotein leads to noncanonical NF-kappaB activation. <i>Science</i> , 2011 , 331, 468-72	33.3	122

27	Optimized filtering reduces the error rate in detecting genomic variants by short-read sequencing. <i>Nature Biotechnology</i> , 2011 , 30, 61-8	44.5	163
26	T-cell/histiocyte-rich large B-cell lymphoma shows transcriptional features suggestive of a tolerogenic host immune response. <i>Haematologica</i> , 2010 , 95, 440-8	6.6	48
25	Allele-specific copy number analysis of tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16910-5	11.5	699
24	Comparative expressed sequence hybridization studies of t(11;18)(q21;q21)-positive and -negative gastric MALT lymphomas reveal both unique and overlapping gene programs. <i>Modern Pathology</i> , 2010 , 23, 458-69	9.8	5
23	Collaboratively charting the gene-to-phenotype network of human congenital heart defects. <i>Genome Medicine</i> , 2010 , 2, 16	14.4	23
22	Haploinsufficiency of TAB2 causes congenital heart defects in humans. <i>American Journal of Human Genetics</i> , 2010 , 86, 839-49	11	75
21	Evidence for co-evolution between human microRNAs and Alu-repeats. <i>PLoS ONE</i> , 2009 , 4, e4456	3.7	77
20	Integrated study of copy number states and genotype calls using high-density SNP arrays. <i>Nucleic Acids Research</i> , 2009 , 37, 5365-77	20.1	93
19	Computational methods for the detection of cis-regulatory modules. <i>Briefings in Bioinformatics</i> , 2009 , 10, 509-24	13.4	48
18	ModuleMiner - improved computational detection of cis-regulatory modules: are there different modes of gene regulation in embryonic development and adult tissues?. <i>Genome Biology</i> , 2008 , 9, R66	18.3	29
17	Polysomy 17 in breast cancer: clinicopathologic significance and impact on HER-2 testing. <i>Journal of Clinical Oncology</i> , 2008 , 26, 4869-74	2.2	124
16	ENDEAVOUR update: a web resource for gene prioritization in multiple species. <i>Nucleic Acids Research</i> , 2008 , 36, W377-84	20.1	182
15	ORegAnno: an open-access community-driven resource for regulatory annotation. <i>Nucleic Acids Research</i> , 2008 , 36, D107-13	20.1	199
14	Gene prioritization through genomic data fusion. <i>Nature Biotechnology</i> , 2006 , 24, 537-44	44.5	685
13	TOUCAN 2: the all-inclusive open source workbench for regulatory sequence analysis. <i>Nucleic Acids Research</i> , 2005 , 33, W393-6	20.1	122
12	A genetic algorithm for the detection of new cis-regulatory modules in sets of coregulated genes. <i>Bioinformatics</i> , 2004 , 20, 1974-6	7.2	38
11	Computational detection of cis -regulatory modules. <i>Bioinformatics</i> , 2003 , 19 Suppl 2, ii5-14	7.2	83
10	Drivers underpinning the malignant transformation of giant cell tumour of bone		1

9	An Integrative Analysis of the Age-Associated Genomic, Transcriptomic and Epigenetic Landscape across Cancers	1
8	Universal patterns of selection in cancer and somatic tissues	7
7	The evolutionary history of 2,658 cancers	28
6	Tumor cell total mRNA expression shapes the molecular and clinical phenotype of cancer	2
5	Creating Standards for Evaluating Tumour Subclonal Reconstruction	3
4	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes	25
3	Biallelic mutations in cancer genomes reveal local mutational determinants	2
2	Signatures of copy number alterations in human cancer	3
1	MEDICC2: whole-genome doubling aware copy-number phylogenies for cancer evolution	2