Paul Van Hummelen

List of Publications by Year
in descending order

70 papers	10,157 citations	61984 43 h-index	91884 69 g-index
70 all docs	70 docs citations	70 times ranked	17279 citing authors

#	Article	IF	Citations
1	Molecular subtypes of diffuse large B cell lymphoma are associated with distinct pathogenic mechanisms and outcomes. Nature Medicine, 2018, 24, 679-690.	30.7	1,224
2	Genomic Characterization of Brain Metastases Reveals Branched Evolution and Potential Therapeutic Targets. Cancer Discovery, 2015, 5, 1164-1177.	9.4	821
3	Role of PlGF in the intra- and intermolecular cross talk between the VEGF receptors Flt1 and Flk1. Nature Medicine, 2003, 9, 936-943.	30.7	699
4	Genomic sequencing of meningiomas identifies oncogenic SMO and AKT1 mutations. Nature Genetics, 2013, 45, 285-289.	21.4	532
5	High-Throughput Detection of Actionable Genomic Alterations in Clinical Tumor Samples by Targeted, Massively Parallel Sequencing. Cancer Discovery, 2012, 2, 82-93.	9.4	484
6	Targetable genetic features of primary testicular and primary central nervous system lymphomas. Blood, 2016, 127, 869-881.	1.4	429
7	Exome sequencing identifies BRAF mutations in papillary craniopharyngiomas. Nature Genetics, 2014, 46, 161-165.	21.4	408
8	Institutional implementation of clinical tumor profiling on an unselected cancer population. JCI Insight, 2016, 1, e87062.	5.0	340
9	Versatile Gene-Specific Sequence Tags for Arabidopsis Functional Genomics: Transcript Profiling and Reverse Genetics Applications. Genome Research, 2004, 14, 2176-2189.	5.5	282
10	The in vitro micronucleus test: a multi-endpoint assay to detect simultaneously mitotic delay, apoptosis, chromosome breakage, chromosome loss and non-disjunction. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1997, 392, 19-30.	1.7	263
11	Genome-Wide Analysis of Gene Expression Profiles Associated with Cell Cycle Transitions in Growing Organs of Arabidopsis. Plant Physiology, 2005, 138, 734-743.	4.8	247
12	Oncogenic mutations in cervical cancer. Cancer, 2013, 119, 3776-3783.	4.1	225
13	Oncogenic PI3K mutations are as common asAKT1andSMOmutations in meningioma. Neuro-Oncology, 2016, 18, 649-655.	1.2	221
14	MYB-QKI rearrangements in angiocentric glioma drive tumorigenicity through a tripartite mechanism. Nature Genetics, 2016, 48, 273-282.	21.4	214
15	RNA Amplification Results in Reproducible Microarray Data with Slight Ratio Bias. BioTechniques, 2002, 32, 1330-1340.	1.8	200
16	Genomic analysis of diffuse pediatric low-grade gliomas identifies recurrent oncogenic truncating rearrangements in the transcription factor MYBL1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8188-8193.	7.1	188
17	MAP2K1 and MAP3K1 mutations in langerhans cell histiocytosis. Genes Chromosomes and Cancer, 2015, 54, 361-368.	2.8	167
18	Indications for a threshold of chemically-induced aneuploidy in vitro in human lymphocytes. Environmental and Molecular Mutagenesis, 1995, 26, 292-304.	2.2	165

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19	Somatic activating ARAF mutations in Langerhans cell histiocytosis. Blood, 2014, 123, 3152-3155.	1.4	161
20	BreaKmer: detection of structural variation in targeted massively parallel sequencing data using kmers. Nucleic Acids Research, 2015, 43, e19-e19.	14.5	161
21	Early genomic responses to salicylic acid in Arabidopsis. Plant Molecular Biology, 2009, 70, 79-102.	3.9	160
22	Molecular Karyotyping: Array CGH Quality Criteria for Constitutional Genetic Diagnosis. Journal of Histochemistry and Cytochemistry, 2005, 53, 413-422.	2.5	141
23	CATMA: a complete Arabidopsis GST database. Nucleic Acids Research, 2003, 31, 156-158.	14.5	133
24	Genomic landscape of high-grade meningiomas. Npj Genomic Medicine, 2017, 2, .	3.8	130
25	Transcriptional profiling by cDNA-AFLP and microarray analysis reveals novel insights into the early response to ethylene inArabidopsis. Plant Journal, 2004, 39, 537-559.	5.7	122
26	Deletion of VCX-A due to NAHR plays a major role in the occurrence of mental retardation in patients with X-linked ichthyosis. Human Molecular Genetics, 2005, 14, 1795-1803.	2.9	110
27	Preexisting oncogenic events impact trastuzumab sensitivity in ERBB2-amplified gastroesophageal adenocarcinoma. Journal of Clinical Investigation, 2014, 124, 5145-5158.	8.2	105
28	Germline and somatic BAP1 mutations in high-grade rhabdoid meningiomas. Neuro-Oncology, 2017, 19, now235.	1.2	99
29	Meiotic Segregation, Recombination, and Gamete Aneuploidy Assessed in a t(1;10)(p22.1;q22.3) Reciprocal Translocation Carrier by Three- and Four-Probe Multicolor FISH in Sperm. American Journal of Human Genetics, 1997, 61, 651-659.	6.2	92
30	Benchmarking the CATMA Microarray. A Novel Tool forArabidopsis Transcriptome Analysis. Plant Physiology, 2005, 137, 588-601.	4.8	91
31	Comparison of Prevalence and Types of Mutations in Lung Cancers Among Black and White Populations. JAMA Oncology, 2017, 3, 801.	7.1	78
32	Microarray analysis of E2Fa-DPa-overexpressing plants uncovers a cross-talking genetic network between DNA replication and nitrogen assimilation. Journal of Cell Science, 2003, 116, 4249-4259.	2.0	75
33	High-Throughput Mutation Profiling Identifies Frequent Somatic Mutations in Advanced Gastric Adenocarcinoma. PLoS ONE, 2012, 7, e38892.	2.5	72
34	Prospective Enterprise-Level Molecular Genotyping of a Cohort of Cancer Patients. Journal of Molecular Diagnostics, 2014, 16, 660-672.	2.8	70
35	Diffuse large B-cell lymphoma patient-derived xenograft models capture the molecular and biological heterogeneity of the disease. Blood, 2016, 127, 2203-2213.	1.4	68
36	Community Dynamics of Bacteria in Sourdough Fermentations as Revealed by Their Metatranscriptome. Applied and Environmental Microbiology, 2010, 76, 5402-5408.	3.1	67

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37	The Effects of 1Î±,25-Dihydroxyvitamin D3 on the Expression of DNA Replication Genes. Journal of Bone and Mineral Research, 2004, 19, 133-146.	2.8	66
38	Quantitative RNA expression analysis with Affymetrix Tiling 1.0R arrays identifies new E2F target genes. Plant Journal, 2009, 57, 184-194.	5.7	65
39	Angiomatous meningiomas have a distinct genetic profile with multiple chromosomal polysomies including polysomy of chromosome 5. Oncotarget, 2014, 5, 10596-10606.	1.8	65
40	Sporadic hemangioblastomas are characterized by cryptic VHL inactivation. Acta Neuropathologica Communications, 2014, 2, 167.	5.2	65
41	BRAF alteration status and the histone H3F3A gene K27M mutation segregate spinal cord astrocytoma histology. Acta Neuropathologica, 2016, 131, 147-150.	7.7	57
42	NOVP chemotherapy for Hodgkin's disease transiently induces sperm aneuploidies associated with the major clinical aneuploidy syndromes involving chromosomes X, Y, 18, and 21. Cancer Research, 2003, 63, 44-51.	0.9	55
43	Clinical Implementation of Comprehensive Strategies to Characterize Cancer Genomes: Opportunities and Challenges. Cancer Discovery, 2011, 1, 297-311.	9.4	47
44	High Throughput Interrogation of Somatic Mutations in High Grade Serous Cancer of the Ovary. PLoS ONE, 2011, 6, e24433.	2.5	44
45	Characterization of the Condensin Component Cnap1 and Protein Kinase Melk as Novel E2F Target Genes Down-regulated by 1,25-Dihydroxyvitamin D3. Journal of Biological Chemistry, 2005, 280, 37319-37330.	3.4	43
46	In vitro expression of hard metal dust (WCâ€“Co) â€” responsive genes in human peripheral blood mononucleated cells. Toxicology and Applied Pharmacology, 2008, 227, 299-312.	2.8	43
47	High Throughput Mass Spectrometry-Based Mutation Profiling of Primary Uveal Melanoma. , 2012, 53, 6991.		43
48	Vemurafenib-resistance via de novo RBM genes mutations and chromosome 5 aberrations is overcome by combined therapy with palbociclib in thyroid carcinoma with BRAFV600E. Oncotarget, 2017, 8, 84743-84760.	1.8	40
49	Metastasis-associated MCL1 and P16 copy number alterations dictate resistance to vemurafenib in a BRAFV600E patient-derived papillary thyroid carcinoma preclinical model. Oncotarget, 2015, 6, 42445-42467.	1.8	40
50	Genomic aberrations in cervical adenocarcinomas in Hong Kong Chinese women. International Journal of Cancer, 2015, 137, 776-783.	5.1	39
51	Gene profiling of hippocampal neuronal culture. Journal of Neurochemistry, 2003, 85, 1279-1288.	3.9	36
52	Microarray analysis of the effect of diesel exhaust particles on in vitro cultured macrophages. Toxicology in Vitro, 2004, 18, 377-391.	2.4	35
53	Metatranscriptome Analysis for Insight into Whole-Ecosystem Gene Expression during Spontaneous Wheat and Spelt Sourdough Fermentations. Applied and Environmental Microbiology, 2011, 77, 618-626.	3.1	35
54	High-Throughput Genotyping in Metastatic Esophageal Squamous Cell Carcinoma Identifies Phosphoinositide-3-Kinase and BRAF Mutations. PLoS ONE, 2012, 7, e41655.	2.5	35

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55	Mutations in Hedgehog pathway genes in fetal rhabdomyomas. Journal of Pathology, 2013, 231, 44-52.	4.5	32
56	DNA Microarray Enhancement Using a Continuously and Discontinuously Rotating Microchamber. Analytical Chemistry, 2005, 77, 4474-4480.	6.5	30
57	Hard-metal (WCâ€“Co) particles trigger a signaling cascade involving p38 MAPK, HIF-1Î±, HMOX1, and p53 activation in human PBMC. Archives of Toxicology, 2013, 87, 259-268.	4.2	28
58	Old yellow enzyme interferes with Bax-induced NADPH loss and lipid peroxidation in yeast. FEMS Yeast Research, 2005, 5, 711-725.	2.3	21
59	Development and Validation of a Species-Independent Functional Gene Microarray That Targets Lactic Acid Bacteria. Applied and Environmental Microbiology, 2009, 75, 6488-6495.	3.1	19
60	Diffusion limitation: a possible source for the occurrence of doughnut patterns on DNA microarrays. BioTechniques, 2006, 41, 609-616.	1.8	17
61	Thermodynamic Behavior of Short Oligonucleotides in Microarray Hybridizations Can Be Described Using Gibbs Free Energy in a Nearest-Neighbor Model. Journal of Physical Chemistry B, 2007, 111, 13583-13590.	2.6	17
62	Src Mutation Induces Acquired Lapatinib Resistance in ERBB2-Amplified Human Gastroesophageal Adenocarcinoma Models. PLoS ONE, 2014, 9, e109440.	2.5	16
63	Somatic Copy Number Abnormalities and Mutations in PI3K/AKT/mTOR Pathway Have Prognostic Significance for Overall Survival in Platinum Treated Locally Advanced or Metastatic Urothelial Tumors. PLoS ONE, 2015, 10, e0124711.	2.5	16
64	Analysis and Comparison of Somatic Mutations in Paired Primary and Recurrent Epithelial Ovarian Cancer Samples. PLoS ONE, 2014, 9, e99451.	2.5	15
65	Clinical and mutational spectrum of highly differentiated, paired box 3:forkhead box protein o1 fusionâ€“negative rhabdomyosarcoma: A report from the Children's Oncology Group. Cancer, 2018, 124, 1973-1981.	4.1	14
66	Development of capillary electrophoresis methods for quantitative determination of taurine in vehicle system and biological media. Electrophoresis, 2006, 27, 2330-2337.	2.4	12
67	Gene Expression Profile in Thyroid of Transgenic Mice Overexpressing the Adenosine Receptor 2a. Molecular Endocrinology, 2004, 18, 194-213.	3.7	9
68	Gene expression profiling of cultured human NF1 heterozygous (NF1+/-) melanocytes reveals downregulation of a transcriptional cis-regulatory network mediating activation of the melanocyte-specific dopachrome tautomerase (DCT) gene. Pigment Cell & Melanoma Research, 2005, 18, 285-299.	3.6	6
69	ViroPanel. Journal of Molecular Diagnostics, 2020, 22, 476-487.	2.8	6
70	Meiotic susceptibility for induction of sperm with chromosomal aberrations in patients receiving combination chemotherapy for Hodgkin lymphoma. PLoS ONE, 2020, 15, e0242218.	2.5	2