Koen J T Venken

List of Publications by Year
in descending order

47 papers	7,942 citations	136950 32 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	10504 citing authors

#	Article	IF	Citations
1	P[acman]: A BAC Transgenic Platform for Targeted Insertion of Large DNA Fragments in D. melanogaster. Science, 2006, 314, 1747-1751.	12.6	1,242
2	Identification of Functional Elements and Regulatory Circuits by Drosophila modENCODE. Science, 2010, 330, 1787-1797.	12.6	1,124
3	Synaptic Mitochondria Are Critical for Mobilization of Reserve Pool Vesicles at Drosophila Neuromuscular Junctions. Neuron, 2005, 47, 365-378.	8.1	734
4	MiMIC: a highly versatile transposon insertion resource for engineering Drosophila melanogaster genes. Nature Methods, 2011, 8, 737-743.	19.0	620
5	A cis-regulatory map of the Drosophila genome. Nature, 2011, 471, 527-531.	27.8	477
6	Genetic Manipulation of Genes and Cells in the Nervous System of the Fruit Fly. Neuron, 2011, 72, 202-230.	8.1	395
7	Versatile P[acman] BAC libraries for transgenesis studies in Drosophila melanogaster. Nature Methods, 2009, 6, 431-434.	19.0	375
8	A library of MiMICs allows tagging of genes and reversible, spatial and temporal knockdown of proteins in Drosophila. ELife, 2015, 4, .	6.0	320
9	Gfi1 functions downstream of Math1 to control intestinal secretory cell subtype allocation and differentiation. Genes and Development, 2005, 19, 2412-2417.	5.9	267
10	The zinc finger transcription factorGfi1, implicated in lymphomagenesis, is required for inner ear hair cell differentiation and survival. Development (Cambridge), 2003, 130, 221-232.	2.5	233
11	The AXH Domain of Ataxin-1 Mediates Neurodegeneration through Its Interaction with Gfi-1/Senseless Proteins. Cell, 2005, 122, 633-644.	28.9	189
12	Emerging technologies for gene manipulation in Drosophila melanogaster. Nature Reviews Genetics, 2005, 6, 167-178.	16.3	186
13	Transgenesis upgrades forDrosophila melanogaster. Development (Cambridge), 2007, 134, 3571-3584.	2.5	133
14	A Mouse Model of Acrodermatitis Enteropathica: Loss of Intestine Zinc Transporter ZIP4 (Slc39a4) Disrupts the Stem Cell Niche and Intestine Integrity. PLoS Genetics, 2012, 8, e1002766.	3.5	118
15	Eps15 and Dap160 control synaptic vesicle membrane retrieval and synapse development. Journal of Cell Biology, 2007, 178, 309-322.	5.2	117
16	Tweek, an Evolutionarily Conserved Protein, Is Required for Synaptic Vesicle Recycling. Neuron, 2009, 63, 203-215.	8.1	104
17	Spectraplakins Promote Microtubule-Mediated Axonal Growth by Functioning As Structural Microtubule-Associated Proteins and EB1-Dependent +TIPs (Tip Interacting Proteins). Journal of Neuroscience, 2012, 32, 9143-9158.	3.6	104
18	miR-9a Minimizes the Phenotypic Impact of Genomic Diversity by Buffering a Transcription Factor. Cell, 2013, 155, 1556-1567.	28.9	99

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19	A Molecularly Defined Duplication Set for the X Chromosome of Drosophila melanogaster. Genetics, 2010, 186, 1111-1125.	2.9	97
20	Stringent Analysis of Gene Function and Proteinâ€"Protein Interactions Using Fluorescently Tagged Genes. Genetics, 2012, 190, 931-940.	2.9	92
21	Recombineering-mediated tagging of Drosophila genomic constructs for in vivo localization and acute protein inactivation. Nucleic Acids Research, 2008, 36, e114-e114.	14.5	91
22	Gene-specific cell labeling using MiMIC transposons. Nucleic Acids Research, 2015, 43, e56-e56.	14.5	80
23	Growth Factor Independence-1 Is Expressed in Primary Human Neuroendocrine Lung Carcinomas and Mediates the Differentiation of Murine Pulmonary Neuroendocrine Cells. Cancer Research, 2004, 64, 6874-6882.	0.9	71
24	Large-scale identification of chemically induced mutations in Drosophila melanogaster. Genome Research, 2014, 24, 1707-1718.	5.5	67
25	Genome-Wide Manipulations of Drosophila melanogaster with Transposons, Flp Recombinase, and Î¦C31 Integrase. Methods in Molecular Biology, 2012, 859, 203-228.	0.9	65
26	Chemical mutagens, transposons, and transgenes to interrogate gene function in Drosophila melanogaster. Methods, 2014, 68, 15-28.	3.8	65
27	DrosophilaNeuroligin 2 is Required Presynaptically and Postsynaptically for Proper Synaptic Differentiation and Synaptic Transmission. Journal of Neuroscience, 2012, 32, 16018-16030.	3.6	60
28	Two-step selection of a single R8 photoreceptor: a bistable loop betweensenselessandroughlocks in R8 fate. Development (Cambridge), 2008, 135, 4071-4079.	2.5	55
29	Regional differences of somatic CAG repeat instability do not account for selective neuronal vulnerability in a knock-in mouse model of SCA1. Human Molecular Genetics, 2003, 12, 2789-2795.	2.9	54
30	Drosophila Ten-m and Filamin Affect Motor Neuron Growth Cone Guidance. PLoS ONE, 2011, 6, e22956.	2.5	48
31	Examining multiple cellular pathways at once using multiplex hextuple luciferase assaying. Nature Communications, 2019, 10, 5710.	12.8	43
32	Loss of SPARC dysregulates basal lamina assembly to disrupt larval fat body homeostasis in Drosophila melanogaster. Developmental Dynamics, 2015, 244, 540-552.	1.8	41
33	Genome engineering: Drosophila melanogaster and beyond. Wiley Interdisciplinary Reviews: Developmental Biology, 2016, 5, 233-267.	5.9	35
34	Oleic acid is an endogenous ligand of TLX/NR2E1 that triggers hippocampal neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2023784119.	7.1	30
35	DrosophilaHeterochromatin Stabilization Requires the Zinc-Finger Protein Small Ovary. Genetics, 2019, 213, 877-895.	2.9	15
36	An Assay to DetectIn VivoY Chromosome Loss inDrosophilaWing Disc Cells. G3: Genes, Genomes, Genetics, 2012, 2, 1095-1102.	1.8	14

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37	A GoldenBraid cloning system for synthetic biology in social amoebae. Nucleic Acids Research, 2020, 48, 4139-4146.	14.5	13
38	Homology Requirements for Efficient, Footprintless Gene Editing at the CFTR Locus in Human iPSCs with Helper-dependent Adenoviral Vectors. Molecular Therapy - Nucleic Acids, 2016, 5, e372.	5.1	12
39	Rapid and Efficient Synthetic Assembly of Multiplex Luciferase Reporter Plasmids for the Simultaneous Monitoring of Up to Six Cellular Signaling Pathways. Current Protocols in Molecular Biology, 2020, 131, e121.	2.9	11
40	Human pancreatic microenvironment promotes Î²-cell differentiation via non-canonical WNT5A/JNK and BMP signaling. Nature Communications, 2022, 13, 1952.	12.8	11
41	Multiplexed drug-based selection and counterselection genetic manipulations in Drosophila. Cell Reports, 2021, 36, 109700.	6.4	10
42	Search for mutations in the EGR2 corepressor proteins, NAB1 and NAB2, in human peripheral neuropathies. Neurogenetics, 2002, 4, 37-41.	1.4	9
43	Simultaneous Examination of Cellular Pathways using Multiplex Hextuple Luciferase Assaying. Current Protocols in Molecular Biology, 2020, 131, e122.	2.9	5
44	Determining effective drug concentrations for selection and counterselection genetics in Drosophila melanogaster. STAR Protocols, 2021, 2, 100783.	1.2	4
45	Caspr1/Paranodin/Neurexin IV is most likely not a common disease-causing gene for inherited peripheral neuropathies. NeuroReport, 2001, 12, 2609-2614.	1.2	3
46	A novel statistical method for interpreting the pathogenicity of rare variants. Genetics in Medicine, 2021, 23, 59-68.	2.4	3
47	A Pipeline for the Rapid Production and Dissemination of Mouse Intersectional Genetic Alleles for Functional, Molecular, and Anatomical Neural Circuit Mapping. (mouseintersectionalgenetics.org). FASEB Journal, 2020, 34, 1-1.	0.5	0