Ruben van Boxtel

List of Publications by Year
in descending order

77 papers	12,223 citations	71102 41 h-index	76900 74 g-index
88 all docs	88 docs citations	88 times ranked	19048 citing authors

#	Article	IF	Citations
1	Organoid Models of Human and Mouse Ductal Pancreatic Cancer. Cell, 2015, 160, 324-338.	28.9	1,584
2	A Living Biobank of Breast Cancer Organoids Captures Disease Heterogeneity. Cell, 2018, 172, 373-386.e10.	28.9	1,201
3	Long-Term Culture of Genome-Stable Bipotent Stem Cells from Adult Human Liver. Cell, 2015, 160, 299-312.	28.9	1,166
4	Sequential cancer mutations in cultured human intestinal stem cells. Nature, 2015, 521, 43-47.	27.8	853
5	Tissue-specific mutation accumulation in human adult stem cells during life. Nature, 2016, 538, 260-264.	27.8	759
6	Identification of Multipotent Luminal Progenitor Cells in Human Prostate Organoid Cultures. Cell, 2014, 159, 163-175.	28.9	609
7	Mutational signature in colorectal cancer caused by genotoxic pks+ E. coli. Nature, 2020, 580, 269-273.	27.8	587
8	MutationalPatterns: comprehensive genome-wide analysis of mutational processes. Genome Medicine, 2018, 10, 33.	8.2	482
9	Use of CRISPR-modified human stem cell organoids to study the origin of mutational signatures in cancer. Science, 2017, 358, 234-238.	12.6	337
10	Genome sequencing of normal cells reveals developmental lineages and mutational processes. Nature, 2014, 513, 422-425.	27.8	315
11	Tubuloids derived from human adult kidney and urine for personalized disease modeling. Nature Biotechnology, 2019, 37, 303-313.	17.5	301
12	Oral Mucosal Organoids as a Potential Platform for Personalized Cancer Therapy. Cancer Discovery, 2019, 9, 852-871.	9.4	222
13	Modulation of glutamine metabolism by the PI(3)Kâ€“PKBâ€“FOXO network regulates autophagy. Nature Cell Biology, 2012, 14, 829-837.	10.3	209
14	Genetic dissection of colorectal cancer progression by orthotopic transplantation of engineered cancer organoids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2357-E2364.	7.1	198
15	In vivo adenine base editing of PCSK9 in macaques reduces LDL cholesterol levels. Nature Biotechnology, 2021, 39, 949-957.	17.5	196
16	Canonical Wnt Signaling Negatively Modulates Regulatory T Cell Function. Immunity, 2013, 39, 298-310.	14.3	183
17	An organoid biobank for childhood kidney cancers that captures disease and tissue heterogeneity. Nature Communications, 2020, 11, 1310.	12.8	183
18	The mutational landscape of human somatic and germline cells. Nature, 2021, 597, 381-386.	27.8	180

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19	The role of SRY-related HMG box transcription factor 4 (SOX4) in tumorigenesis and metastasis: friend or foe?. Oncogene, 2013, 32, 3397-3409.	5.9	174
20	Somatic Mutations Reveal Lineage Relationships and Age-Related Mutagenesis in Human Hematopoiesis. Cell Reports, 2018, 25, 2308-2316.e4.	6.4	170
21	Probing the Tumor Suppressor Function of BAP1 in CRISPR-Engineered Human Liver Organoids. Cell Stem Cell, 2019, 24, 927-943.e6.	11.1	136
22	CRISPR-Based Adenine Editors Correct Nonsense Mutations in a Cystic Fibrosis Organoid Biobank. Cell Stem Cell, 2020, 26, 503-510.e7.	11.1	136
23	Prime editing for functional repair in patient-derived disease models. Nature Communications, 2020, 11, 5352.	12.8	134
24	Building consensus on definition and nomenclature of hepatic, pancreatic, and biliary organoids. Cell Stem Cell, 2021, 28, 816-832.	11.1	133
25	Genomeâ€wide analysis of FOXO3 mediated transcription regulation through RNA polymerase II profiling. Molecular Systems Biology, 2013, 9, 638.	7.2	104
26	Mutational Landscape and Patterns of Clonal Evolution in Relapsed Pediatric Acute Lymphoblastic Leukemia. Blood Cancer Discovery, 2020, 1, 96-111.	5.0	93
27	Patient-derived organoids model cervical tissue dynamics and viral oncogenesis in cervical cancer. Cell Stem Cell, 2021, 28, 1380-1396.e6.	11.1	88
28	FOXP1 directly represses transcription of proapoptotic genes and cooperates with NF-Î²B to promote survival of human B cells. Blood, 2014, 124, 3431-3440.	1.4	86
29	Genomic landscape of rat strain and substrain variation. BMC Genomics, 2015, 16, 357.	2.8	84
30	Portrait of a cancer: mutational signature analyses for cancer diagnostics. BMC Cancer, 2019, 19, 457.	2.6	84
31	SOX4 Mediates TGF-Î²-Induced Expression of Mesenchymal Markers during Mammary Cell Epithelial to Mesenchymal Transition. PLoS ONE, 2013, 8, e53238.	2.5	82
32	Melanocortin Receptor 4 Deficiency Affects Body Weight Regulation, Grooming Behavior, and Substrate Preference in the Rat. Obesity, 2012, 20, 612-621.	3.0	77
33	Evaluating CRISPR-based prime editing for cancer modeling and CFTR repair in organoids. Life Science Alliance, 2021, 4, e202000940.	2.8	67
34	Deficiency of nucleotide excision repair is associated with mutational signature observed in cancer. Genome Research, 2019, 29, 1067-1077.	5.5	66
35	MutationalPatterns: the one stop shop for the analysis of mutational processes. BMC Genomics, 2022, 23, 134.	2.8	66
36	Mutation discovery by targeted genomic enrichment of multiplexed barcoded samples. Nature Methods, 2010, 7, 913-915.	19.0	64

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37	In vivo cytidine base editing of hepatocytes without detectable off-target mutations in RNA and DNA. Nature Biomedical Engineering, 2021, 5, 179-189.	22.5	62
38	The mutational impact of culturing human pluripotent and adult stem cells. Nature Communications, 2020, 11, 2493.	12.8	61
39	STAT5 is essential for IL-7â€“mediated viability, growth, and proliferation of T-cell acute lymphoblastic leukemia cells. Blood Advances, 2018, 2, 2199-2213.	5.2	58
40	Measuring mutation accumulation in single human adult stem cells by whole-genome sequencing of organoid cultures. Nature Protocols, 2018, 13, 59-78.	12.0	52
41	FOXP1 acts through a negative feedback loop to suppress FOXO-induced apoptosis. Cell Death and Differentiation, 2013, 20, 1219-1229.	11.2	51
42	The forkhead transcription factor FOXP1 represses human plasma cell differentiation. Blood, 2015, 126, 2098-2109.	1.4	42
43	The role of the dopamine D1 receptor in social cognition: studies using a novel genetic rat model. DMM Disease Models and Mechanisms, 2016, 9, 1147-1158.	2.4	35
44	Homozygous and Heterozygous p53 Knockout Rats Develop Metastasizing Sarcomas with High Frequency. American Journal of Pathology, 2011, 179, 1616-1622.	3.8	33
45	ENU Mutagenesis to Generate Genetically Modified Rat Models. Methods in Molecular Biology, 2010, 597, 151-167.	0.9	29
46	Antiviral treatment causes a unique mutational signature in cancers of transplantation recipients. Cell Stem Cell, 2021, 28, 1726-1739.e6.	11.1	28
47	Improved generation of rat gene knockouts by target-selected mutagenesis in mismatch repair-deficient animals. BMC Genomics, 2008, 9, 460.	2.8	27
48	Early divergence of mutational processes in human fetal tissues. Science Advances, 2019, 5, eaaw1271.	10.3	24
49	Lack of DNA mismatch repair protein MSH6 in the rat results in hereditary non-polyposis colorectal cancer-like tumorigenesis. Carcinogenesis, 2008, 29, 1290-1297.	2.8	22
50	Troy/TNFRSF19 marks epithelial progenitor cells during mouse kidney development that continue to contribute to turnover in adult kidney. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11190-E11198.	7.1	19
51	Mutation accumulation and developmental lineages in normal and Down syndrome human fetal haematopoiesis. Scientific Reports, 2020, 10, 12991.	3.3	19
52	Deficiency or inhibition of lysophosphatidic acid receptor 1 protects against hyperoxia-induced lung injury in neonatal rats. Acta Physiologica, 2016, 216, 358-375.	3.8	18
53	Colon Tumors in Enterotoxigenic Bacteroides fragilis (ETBF)-Colonized Mice Do Not Display a Unique Mutational Signature but Instead Possess Host-Dependent Alterations in the APC Gene. Microbiology Spectrum, 2022, 10, e0105522.	3.0	18
54	Systematic generation of in vivo G protein-coupled receptor mutants in the rat. Pharmacogenomics Journal, 2011, 11, 326-336.	2.0	17

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55	The Dynamics of Somatic Mutagenesis During Life in Humans. Frontiers in Aging, 2021, 2, .	2.6	17
56	Defects in 8-oxo-guanine repair pathway cause high frequency of C > A substitutions in neuroblastoma. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
57	Different responses to DNA damage determine ageing differences between organs. Aging Cell, 2022, 21, e13562.	6.7	16
58	Mutation Signatures of Pediatric Acute Myeloid Leukemia and Normal Blood Progenitors Associated with Differential Patient Outcomes. Blood Cancer Discovery, 2021, 2, 484-499.	5.0	13
59	Rat traps: filling the toolbox for manipulating the rat genome. Genome Biology, 2010, 11, 217.	8.8	12
60	The Mutagenic Impact of Environmental Exposures in Human Cells and Cancer: Imprints Through Time. Frontiers in Genetics, 2021, 12, 760039.	2.3	12
61	Molecular characterization of Barrettâ€™s esophagus at single-cell resolution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
62	Forkhead Box P Family Members at the Crossroad Between Tolerance and Immunity: A Balancing Act. International Reviews of Immunology, 2014, 33, 94-109.	3.3	9
63	Precancerous liver diseases do not cause increased mutagenesis in liver stem cells. Communications Biology, 2021, 4, 1301.	4.4	9
64	Generation of Genetically Modified Rodents Using Random ENU Mutagenesis. Methods in Molecular Biology, 2011, 693, 295-308.	0.9	7
65	Efficient and error-free fluorescent gene tagging in human organoids without double-strand DNA cleavage. PLoS Biology, 2022, 20, e3001527.	5.6	7
66	The Effects of Disruption of A Kinase Anchoring Protein-Protein Kinase A Association on Protein Kinase A Signalling in Neuroendocrine Melanotroph Cells of Xenopus laevis. Journal of Neuroendocrinology, 2006, 18, 477-483.	2.6	5
67	Characterizing Mutational Load and Clonal Composition of Human Blood. Journal of Visualized Experiments, 2019, , .	0.3	5
68	Human induced pluripotent stem cells display a similar mutation burden as embryonic pluripotent cells inÂvivo. IScience, 2022, 25, 103736.	4.1	5
69	Elevated Mutational Age in Blood of Children Treated for Cancer Contributes to Therapy-Related Myeloid Neoplasms. Cancer Discovery, 0, , OF1-OF14.	9.4	5
70	Megakaryocyte lineage development is controlled by modulation of protein acetylation. PLoS ONE, 2018, 13, e0196400.	2.5	3
71	Transcriptomic and Epigenomic Profiling of Histone Deacetylase Inhibitor Treatment Reveals Distinct Gene Regulation Profiles Leading to Impaired Neutrophil Development. HemaSphere, 2019, 3, e270.	2.7	3
72	Increased risk of leukaemia in children with Down syndrome: a somatic evolutionary view. Expert Reviews in Molecular Medicine, 2021, 23, e5.	3.9	3

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73	Mutational Landscape and Patterns of Clonal Evolution in Relapsed Pediatric Acute Lymphoblastic Leukemia. Blood Cancer Discovery, 2020, 1, 96-111.	5.0	3
74	Whole-genome sequencing and mutational analysis of human cord-blood derived stem and progenitor cells. STAR Protocols, 2022, 3, 101361.	1.2	2
75	IL-7 Activates a STAT5/PIM1 Axis to Promote T-Cell Acute Lymphoblastic Leukemia Proliferation and Viability in a Bcl-2-Independent Manner. Blood, 2018, 132, 914-914.	1.4	1
76	30 Whole-genome sequencing of normal stem cells provides novel insights into human native hematopoiesis and leukaemia aetiology. ESMO Open, 2018, 3, A14.	4.5	0
77	Increased Mutagenesis during Fetal Hematopoietic Development in Down Syndrome. Blood, 2019, 134, 1186-1186.	1.4	0