

Edwin Cuppen

List of Publications by Year in descending order

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307
papers

36,675
citations

5126

86
h-index

4622

176
g-index

348
all docs

348
docs citations

348
times ranked

58826
citing authors

#	ARTICLE	IF	CITATIONS
1	Organoid Models of Human and Mouse Ductal Pancreatic Cancer. <i>Cell</i> , 2015, 160, 324-338.	13.5	1,584
2	Sambamba: fast processing of NGS alignment formats. <i>Bioinformatics</i> , 2015, 31, 2032-2034.	1.8	1,487
3	SARS-CoV-2 productively infects human gut enterocytes. <i>Science</i> , 2020, 369, 50-54.	6.0	1,347
4	A Living Biobank of Breast Cancer Organoids Captures Disease Heterogeneity. <i>Cell</i> , 2018, 172, 373-386.e10.	13.5	1,201
5	Phylogenetic Shadowing and Computational Identification of Human microRNA Genes. <i>Cell</i> , 2005, 120, 21-24.	13.5	1,194
6	Long-Term Culture of Genome-Stable Bipotent Stem Cells from Adult Human Liver. <i>Cell</i> , 2015, 160, 299-312.	13.5	1,166
7	Functional Repair of CFTR by CRISPR/Cas9 in Intestinal Stem Cell Organoids of Cystic Fibrosis Patients. <i>Cell Stem Cell</i> , 2013, 13, 653-658.	5.2	1,149
8	Sequential cancer mutations in cultured human intestinal stem cells. <i>Nature</i> , 2015, 521, 43-47.	13.7	853
9	Tissue-specific mutation accumulation in human adult stem cells during life. <i>Nature</i> , 2016, 538, 260-264.	13.7	759
10	Pan-cancer whole-genome analyses of metastatic solid tumours. <i>Nature</i> , 2019, 575, 210-216.	13.7	722
11	Mammalian Mirtron Genes. <i>Molecular Cell</i> , 2007, 28, 328-336.	4.5	675
12	Long-term expanding human airway organoids for disease modeling. <i>EMBO Journal</i> , 2019, 38, .	3.5	619
13	Identification of Multipotent Luminal Progenitor Cells in Human Prostate Organoid Cultures. <i>Cell</i> , 2014, 159, 163-175.	13.5	609
14	Mutational signature in colorectal cancer caused by genotoxic pks+ E. coli. <i>Nature</i> , 2020, 580, 269-273.	13.7	587
15	A systematic genome-wide analysis of zebrafish protein-coding gene function. <i>Nature</i> , 2013, 496, 494-497.	13.7	579
16	MutationalPatterns: comprehensive genome-wide analysis of mutational processes. <i>Genome Medicine</i> , 2018, 10, 33.	3.6	482
17	Diversity of microRNAs in human and chimpanzee brain. <i>Nature Genetics</i> , 2006, 38, 1375-1377.	9.4	457
18	Approaches to microRNA discovery. <i>Nature Genetics</i> , 2006, 38, S2-S7.	9.4	453

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19	Patient-derived organoids can predict response to chemotherapy in metastatic colorectal cancer patients. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	451
20	The microRNA-producing enzyme Dicer1 is essential for zebrafish development. <i>Nature Genetics</i> , 2003, 35, 217-218.	9.4	429
21	Efficient Target-Selected Mutagenesis in Zebrafish. <i>Genome Research</i> , 2003, 13, 2700-2707.	2.4	409
22	The Wnt/ β 2-catenin pathway regulates cardiac valve formation. <i>Nature</i> , 2003, 425, 633-637.	13.7	367
23	Preserved genetic diversity in organoids cultured from biopsies of human colorectal cancer metastases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13308-13311.	3.3	356
24	Use of CRISPR-modified human stem cell organoids to study the origin of mutational signatures in cancer. <i>Science</i> , 2017, 358, 234-238.	6.0	337
25	Genome sequencing of normal cells reveals developmental lineages and mutational processes. <i>Nature</i> , 2014, 513, 422-425.	13.7	315
26	Mapping and phasing of structural variation in patient genomes using nanopore sequencing. <i>Nature Communications</i> , 2017, 8, 1326.	5.8	315
27	Extensive localization of long noncoding RNAs to the cytosol and mono- and polyribosomal complexes. <i>Genome Biology</i> , 2014, 15, R6.	13.9	305
28	Tubuloids derived from human adult kidney and urine for personalized disease modeling. <i>Nature Biotechnology</i> , 2019, 37, 303-313.	9.4	301
29	Limitations and possibilities of small RNA digital gene expression profiling. <i>Nature Methods</i> , 2009, 6, 474-476.	9.0	280
30	Pancreatic cancer organoids recapitulate disease and allow personalized drug screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26580-26590.	3.3	279
31	Chromothripsis as a mechanism driving complex de novo structural rearrangements in the germline. <i>Human Molecular Genetics</i> , 2011, 20, 1916-1924.	1.4	268
32	Progress and prospects in rat genetics: a community view. <i>Nature Genetics</i> , 2008, 40, 516-522.	9.4	265
33	Pan-cancer landscape of homologous recombination deficiency. <i>Nature Communications</i> , 2020, 11, 5584.	5.8	262
34	The genomic landscape of balanced cytogenetic abnormalities associated with human congenital anomalies. <i>Nature Genetics</i> , 2017, 49, 36-45.	9.4	251
35	The genomic landscape of metastatic breast cancer highlights changes in mutation and signature frequencies. <i>Nature Genetics</i> , 2019, 51, 1450-1458.	9.4	250
36	Many novel mammalian microRNA candidates identified by extensive cloning and RAKE analysis. <i>Genome Research</i> , 2006, 16, 1289-1298.	2.4	242

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37	Characterization of the serotonin transporter knockout rat: A selective change in the functioning of the serotonergic system. <i>Neuroscience</i> , 2007, 146, 1662-1676.	1.1	226
38	Zebrafish as a Cancer Model. <i>Molecular Cancer Research</i> , 2008, 6, 685-694.	1.5	225
39	Ascl2 Acts as an R-spondin/Wnt-Responsive Switch to Control Stemness in Intestinal Crypts. <i>Cell Stem Cell</i> , 2015, 16, 158-170.	5.2	217
40	Genome-Wide Pattern of TCF7L2/TCF4 Chromatin Occupancy in Colorectal Cancer Cells. <i>Molecular and Cellular Biology</i> , 2008, 28, 2732-2744.	1.1	208
41	A study in male and female 5-HT transporter knockout rats: An animal model for anxiety and depression disorders. <i>Neuroscience</i> , 2008, 152, 573-584.	1.1	206
42	Disclosure of individual genetic data to research participants: the debate reconsidered. <i>Trends in Genetics</i> , 2011, 27, 41-47.	2.9	204
43	Diabetes Risk Gene and Wnt Effector Tcf7l2/TCF4 Controls Hepatic Response to Perinatal and Adult Metabolic Demand. <i>Cell</i> , 2012, 151, 1595-1607.	13.5	202
44	Genetic dissection of colorectal cancer progression by orthotopic transplantation of engineered cancer organoids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2357-E2364.	3.3	198
45	Q methodology to select participants for a stakeholder dialogue on energy options from biomass in the Netherlands. <i>Ecological Economics</i> , 2010, 69, 579-591.	2.9	195
46	Constitutional Chromothripsis Rearrangements Involve Clustered Double-Stranded DNA Breaks and Nonhomologous Repair Mechanisms. <i>Cell Reports</i> , 2012, 1, 648-655.	2.9	193
47	Distribution and functional impact of DNA copy number variation in the rat. <i>Nature Genetics</i> , 2008, 40, 538-545.	9.4	186
48	Mutagenic Capacity of Endogenous G4 DNA Underlies Genome Instability in FANCD1-Defective <i>C. elegans</i> . <i>Current Biology</i> , 2008, 18, 900-905.	1.8	186
49	Dominant missense mutations in ABCC9 cause Cantu's syndrome. <i>Nature Genetics</i> , 2012, 44, 793-796.	9.4	184
50	Chromothripsis is a common mechanism driving genomic rearrangements in primary and metastatic colorectal cancer. <i>Genome Biology</i> , 2011, 12, R103.	13.9	177
51	Combined sequence-based and genetic mapping analysis of complex traits in outbred rats. <i>Nature Genetics</i> , 2013, 45, 767-775.	9.4	176
52	Genetic variation in the zebrafish. <i>Genome Research</i> , 2006, 16, 491-497.	2.4	173
53	SNP and haplotype mapping for genetic analysis in the rat. <i>Nature Genetics</i> , 2008, 40, 560-566.	9.4	172
54	Cloning and expression of new microRNAs from zebrafish. <i>Nucleic Acids Research</i> , 2006, 34, 2558-2569.	6.5	169

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55	Angiogenin variants in Parkinson disease and amyotrophic lateral sclerosis. <i>Annals of Neurology</i> , 2011, 70, 964-973.	2.8	168
56	Generation of gene knockouts and mutant models in the laboratory rat by ENU-driven target-selected mutagenesis. <i>Pharmacogenetics and Genomics</i> , 2006, 16, 159-169.	0.7	161
57	Wnt-induced transcriptional activation is exclusively mediated by TCF/LEF. <i>EMBO Journal</i> , 2014, 33, 146-156.	3.5	157
58	Mechanisms of Therapy Resistance in Patient-Derived Xenograft Models of BRCA1-Deficient Breast Cancer. <i>Journal of the National Cancer Institute</i> , 2016, 108, djw148.	3.0	157
59	Patient-Derived Ovarian Cancer Organoids Mimic Clinical Response and Exhibit Heterogeneous Inter- and Intrapatient Drug Responses. <i>Cell Reports</i> , 2020, 31, 107762.	2.9	155
60	Genome Sequencing Reveals Loci under Artificial Selection that Underlie Disease Phenotypes in the Laboratory Rat. <i>Cell</i> , 2013, 154, 691-703.	13.5	154
61	The Drug Rediscovery protocol facilitates the expanded use of existing anticancer drugs. <i>Nature</i> , 2019, 574, 127-131.	13.7	152
62	Zebrafish development and regeneration: new tools for biomedical research. <i>International Journal of Developmental Biology</i> , 2009, 53, 835-850.	0.3	143
63	Targeted next-generation sequencing: A novel diagnostic tool for primary immunodeficiencies. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 529-534.e1.	1.5	143
64	5-Fluorouracil treatment induces characteristic T&G mutations in human cancer. <i>Nature Communications</i> , 2019, 10, 4571.	5.8	143
65	Nucleosomal DNA binding drives the recognition of H3K36-methylated nucleosomes by the PSIP1-PWWP domain. <i>Epigenetics and Chromatin</i> , 2013, 6, 12.	1.8	141
66	A deep learning system accurately classifies primary and metastatic cancers using passenger mutation patterns. <i>Nature Communications</i> , 2020, 11, 728.	5.8	140
67	Serotonin transporter deficiency in rats improves inhibitory control but not behavioural flexibility. <i>European Journal of Neuroscience</i> , 2007, 26, 2066-2073.	1.2	139
68	Generation of medaka gene knockout models by target-selected mutagenesis. <i>Genome Biology</i> , 2006, 7, R116.	13.9	137
69	Primary Colorectal Cancers and Their Subsequent Hepatic Metastases Are Genetically Different: Implications for Selection of Patients for Targeted Treatment. <i>Clinical Cancer Research</i> , 2012, 18, 688-699.	3.2	136
70	PDZ Motifs in PTP-BL and RIL Bind to Internal Protein Segments in the LIM Domain Protein RIL. <i>Molecular Biology of the Cell</i> , 1998, 9, 671-683.	0.9	131
71	The genomic landscape of metastatic castration-resistant prostate cancers reveals multiple distinct genotypes with potential clinical impact. <i>Nature Communications</i> , 2019, 10, 5251.	5.8	130
72	The PLETHORA Gene Regulatory Network Guides Growth and Cell Differentiation in Arabidopsis Roots. <i>Plant Cell</i> , 2016, 28, 2937-2951.	3.1	127

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73	Challenges in Establishing Pure Lung Cancer Organoids Limit Their Utility for Personalized Medicine. <i>Cell Reports</i> , 2020, 31, 107588.	2.9	125
74	Adaptations in pre- and postsynaptic 5-HT1A receptor function and cocaine supersensitivity in serotonin transporter knockout rats. <i>Psychopharmacology</i> , 2008, 200, 367-380.	1.5	117
75	Characteristics of de novo structural changes in the human genome. <i>Genome Research</i> , 2015, 25, 792-801.	2.4	115
76	Quantitative and Qualitative Proteome Characteristics Extracted from In-Depth Integrated Genomics and Proteomics Analysis. <i>Cell Reports</i> , 2013, 5, 1469-1478.	2.9	113
77	Epigenomic annotation of gene regulatory alterations during evolution of the primate brain. <i>Nature Neuroscience</i> , 2016, 19, 494-503.	7.1	113
78	Molecular Tumor Boards: current practice and future needs. <i>Annals of Oncology</i> , 2017, 28, 3070-3075.	0.6	112
79	Repertoire and evolution of miRNA genes in four divergent nematode species. <i>Genome Research</i> , 2009, 19, 2064-2074.	2.4	107
80	Systemic miRNA-7 delivery inhibits tumor angiogenesis and growth in murine xenograft glioblastoma. <i>Oncotarget</i> , 2014, 5, 6687-6700.	0.8	105
81	Genome-wide analysis of FOXO3 mediated transcription regulation through RNA polymerase II profiling. <i>Molecular Systems Biology</i> , 2013, 9, 638.	3.2	104
82	<i>MEFV</i> mutations affecting pyrin amino acid 577 cause autosomal dominant autoinflammatory disease. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 455-461.	0.5	101
83	Dominant-Negative <i>ALK2</i> Allele Associates With Congenital Heart Defects. <i>Circulation</i> , 2009, 119, 3062-3069.	1.6	97
84	Mouse microRNA profiles determined with a new and sensitive cloning method. <i>Nucleic Acids Research</i> , 2006, 34, e115-e115.	6.5	96
85	Tracing the History of Goat Pastoralism: New Clues from Mitochondrial and Y Chromosome DNA in North Africa. <i>Molecular Biology and Evolution</i> , 2009, 26, 2765-2773.	3.5	96
86	Acute and constitutive increases in central serotonin levels reduce social play behaviour in peri-adolescent rats. <i>Psychopharmacology</i> , 2007, 195, 175-82.	1.5	92
87	Many Inflammatory Bowel Disease Risk Loci Include Regions That Regulate Gene Expression in Immune Cells and the Intestinal Epithelium. <i>Gastroenterology</i> , 2014, 146, 1040-1047.	0.6	92
88	E2F7 represses a network of oscillating cell cycle genes to control S-phase progression. <i>Nucleic Acids Research</i> , 2012, 40, 3511-3523.	6.5	91
89	A Deep Sequencing Approach to Uncover the miRNOME in the Human Heart. <i>PLoS ONE</i> , 2013, 8, e57800.	1.1	88
90	Ethical, Legal, and Counseling Challenges Surrounding the Return of Genetic Results in Oncology. <i>Journal of Clinical Oncology</i> , 2013, 31, 1842-1848.	0.8	85

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91	Serotonin transporter dosage modulates long-term decision-making in rat and human. <i>Neuropharmacology</i> , 2008, 55, 80-84.	2.0	84
92	The genome sequence of the spontaneously hypertensive rat: Analysis and functional significance. <i>Genome Research</i> , 2010, 20, 791-803.	2.4	84
93	Genomic landscape of rat strain and substrain variation. <i>BMC Genomics</i> , 2015, 16, 357.	1.2	84
94	Portrait of a cancer: mutational signature analyses for cancer diagnostics. <i>BMC Cancer</i> , 2019, 19, 457.	1.1	84
95	Planar cell polarity defects and defective Vangl2 trafficking in mutants for the COPII gene <i><i>Sec24b</i></i> . <i>Development (Cambridge)</i> , 2010, 137, 1067-1073.	1.2	83
96	Chromothripsis in congenital disorders and cancer: similarities and differences. <i>Current Opinion in Cell Biology</i> , 2013, 25, 341-348.	2.6	83
97	Accurate SNP and mutation detection by targeted custom microarray-based genomic enrichment of short-fragment sequencing libraries. <i>Nucleic Acids Research</i> , 2010, 38, e116-e116.	6.5	79
98	Dual Origins of Dairy Cattle Farming â€œ Evidence from a Comprehensive Survey of European Y-Chromosomal Variation. <i>PLoS ONE</i> , 2011, 6, e15922.	1.1	79
99	Translational regulation shapes the molecular landscape of complex disease phenotypes. <i>Nature Communications</i> , 2015, 6, 7200.	5.8	79
100	Targeted Next Generation Sequencing as a Reliable Diagnostic Assay for the Detection of Somatic Mutations in Tumours Using Minimal DNA Amounts from Formalin Fixed Paraffin Embedded Material. <i>PLoS ONE</i> , 2016, 11, e0149405.	1.1	79
101	CONREAL: Conserved Regulatory Elements Anchored Alignment Algorithm for Identification of Transcription Factor Binding Sites by Phylogenetic Footprinting. <i>Genome Research</i> , 2003, 14, 170-178.	2.4	78
102	CONREAL web server: identification and visualization of conserved transcription factor binding sites. <i>Nucleic Acids Research</i> , 2005, 33, W447-W450.	6.5	78
103	Large-Scale Identification of Coregulated Enhancer Networks in the Adult Human Brain. <i>Cell Reports</i> , 2014, 9, 767-779.	2.9	78
104	Prioritization and burden analysis of rare variants in 208 candidate genes suggest they do not play a major role in CAKUT. <i>Kidney International</i> , 2016, 89, 476-486.	2.6	78
105	The Serotonin Transporter Plays an Important Role in Male Sexual Behavior: A Study in Serotonin Transporter Knockout Rats. <i>Journal of Sexual Medicine</i> , 2011, 8, 97-108.	0.3	77
106	Melanocortin Receptor 4 Deficiency Affects Body Weight Regulation, Grooming Behavior, and Substrate Preference in the Rat. <i>Obesity</i> , 2012, 20, 612-621.	1.5	77
107	Target-selected mutagenesis of the rat. <i>Genomics</i> , 2004, 83, 332-334.	1.3	76
108	Chromothripsis in Healthy Individuals Affects Multiple Protein-Coding Genes and Can Result in Severe Congenital Abnormalities in Offspring. <i>American Journal of Human Genetics</i> , 2015, 96, 651-656.	2.6	76

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109	RAS pathway mutations as a predictive biomarker for treatment adaptation in pediatric B-cell precursor acute lymphoblastic leukemia. <i>Leukemia</i> , 2018, 32, 931-940.	3.3	75
110	Genotyping by Allele-Specific Amplification (KASPar). <i>Cold Spring Harbor Protocols</i> , 2007, 2007, pdb.prot4841.	0.2	74
111	GRIDSS2: comprehensive characterisation of somatic structural variation using single breakend variants and structural variant phasing. <i>Genome Biology</i> , 2021, 22, 202.	3.8	73
112	Genomic and transcriptomic plasticity in treatment-naïve ovarian cancer. <i>Genome Research</i> , 2014, 24, 200-211.	2.4	72
113	Small RNA expression and strain specificity in the rat. <i>BMC Genomics</i> , 2010, 11, 249.	1.2	71
114	Reduced Rates of Gene Loss, Gene Silencing, and Gene Mutation in Dnmt1 -Deficient Embryonic Stem Cells. <i>Molecular and Cellular Biology</i> , 2001, 21, 7587-7600.	1.1	66
115	Haplotype Block Structure Is Conserved across Mammals. <i>PLoS Genetics</i> , 2006, 2, e121.	1.5	66
116	FUS Mutations in Familial Amyotrophic Lateral Sclerosis in the Netherlands. <i>Archives of Neurology</i> , 2010, 67, 224-30.	4.9	66
117	Deficiency of nucleotide excision repair is associated with mutational signature observed in cancer. <i>Genome Research</i> , 2019, 29, 1067-1077.	2.4	66
118	MutationalPatterns: the one stop shop for the analysis of mutational processes. <i>BMC Genomics</i> , 2022, 23, 134.	1.2	66
119	The zyxin-related protein TRIP6 interacts with PDZ motifs in the adaptor protein RIL and the protein tyrosine phosphatase PTP-BL. <i>European Journal of Cell Biology</i> , 2000, 79, 283-293.	1.6	65
120	Mlh1 Deficiency in Zebrafish Results in Male Sterility and Aneuploid as Well as Triploid Progeny in Females. <i>Genetics</i> , 2007, 175, 1561-1569.	1.2	65
121	Multiplexed array-based and in-solution genomic enrichment for flexible and cost-effective targeted next-generation sequencing. <i>Nature Protocols</i> , 2011, 6, 1870-1886.	5.5	65
122	Integrated genome-wide analysis of transcription factor occupancy, RNA polymerase II binding and steady-state RNA levels identify differentially regulated functional gene classes. <i>Nucleic Acids Research</i> , 2012, 40, 148-158.	6.5	65
123	X-exome sequencing identifies a HDAC8 variant in a large pedigree with X-linked intellectual disability, truncal obesity, gynaecomastia, hypogonadism and unusual face. <i>Journal of Medical Genetics</i> , 2012, 49, 539-543.	1.5	65
124	Mutation discovery by targeted genomic enrichment of multiplexed barcoded samples. <i>Nature Methods</i> , 2010, 7, 913-915.	9.0	64
125	Rb and FZR1/Cdh1 determine CDK4/6-cyclin D requirement in <i>C. elegans</i> and human cancer cells. <i>Nature Communications</i> , 2015, 6, 5906.	5.8	62
126	Prospective experimental treatment of colorectal cancer patients based on organoid drug responses. <i>ESMO Open</i> , 2021, 6, 100103.	2.0	62

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127	The mutational impact of culturing human pluripotent and adult stem cells. <i>Nature Communications</i> , 2020, 11, 2493.	5.8	61
128	miR-127 Protects Proximal Tubule Cells against Ischemia/Reperfusion: Identification of Kinesin Family Member 3B as miR-127 Target. <i>PLoS ONE</i> , 2012, 7, e44305.	1.1	59
129	Next generation sequencing of triple negative breast cancer to find predictors for chemotherapy response. <i>Breast Cancer Research</i> , 2015, 17, 134.	2.2	58
130	Cancer cells copy migratory behavior and exchange signaling networks via extracellular vesicles. <i>EMBO Journal</i> , 2018, 37, .	3.5	58
131	Stress-induced hyperthermia and basal body temperature are mediated by different 5-HT1A receptor populations: A study in SERT knockout rats. <i>European Journal of Pharmacology</i> , 2008, 590, 190-197.	1.7	57
132	Next-generation sequencing-based genome diagnostics across clinical genetics centers: implementation choices and their effects. <i>European Journal of Human Genetics</i> , 2015, 23, 1142-1150.	1.4	56
133	The G-Protein β -Subunit GPB-2 in <i>Caenorhabditis elegans</i> Regulates the $G\alpha$ - $G\beta$ Signaling Network Through Interactions With the Regulator of G-Protein Signaling Proteins EGL-10 and EAT-16. <i>Genetics</i> , 2001, 158, 221-235.	1.2	56
134	Zebrafish with Mutations in Mismatch Repair Genes Develop Neurofibromas and Other Tumors. <i>Cancer Research</i> , 2008, 68, 5059-5066.	0.4	55
135	The genomic landscape of 85 advanced neuroendocrine neoplasms reveals subtype-heterogeneity and potential therapeutic targets. <i>Nature Communications</i> , 2021, 12, 4612.	5.8	55
136	<i>SMN1</i> gene duplications are associated with sporadic ALS. <i>Neurology</i> , 2012, 78, 776-780.	1.5	54
137	No Evidence for Involvement of Mouse Protein-tyrosine Phosphatase-BAS-like Fas-associated Phosphatase-1 in Fas-mediated Apoptosis. <i>Journal of Biological Chemistry</i> , 1997, 272, 30215-30220.	1.6	53
138	Natural variation of histone modification and its impact on gene expression in the rat genome. <i>Genome Research</i> , 2014, 24, 942-953.	2.4	53
139	Effector identification in the lettuce downy mildew <i>Bremia lactucae</i> by massively parallel transcriptome sequencing. <i>Molecular Plant Pathology</i> , 2012, 13, 719-731.	2.0	52
140	Measuring mutation accumulation in single human adult stem cells by whole-genome sequencing of organoid cultures. <i>Nature Protocols</i> , 2018, 13, 59-78.	5.5	52
141	A Functional Screen Identifies Specific MicroRNAs Capable of Inhibiting Human Melanoma Cell Viability. <i>PLoS ONE</i> , 2012, 7, e43569.	1.1	52
142	The neuronal nitric oxide synthase PDZ motif binds to -G(D,E)XV* carboxyterminal sequences. <i>FEBS Letters</i> , 1997, 409, 53-56.	1.3	51
143	Single Nucleotide Polymorphisms Associated With Rat Expressed Sequences. <i>Genome Research</i> , 2004, 14, 1438-1443.	2.4	50
144	A novel <i>Caenorhabditis elegans</i> allele, <i>smn-1(cb131)</i> , mimicking a mild form of spinal muscular atrophy, provides a convenient drug screening platform highlighting new and pre-approved compounds. <i>Human Molecular Genetics</i> , 2011, 20, 245-260.	1.4	50

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145	Generation and characterization of rat liver stem cell lines and their engraftment in a rat model of liver failure. <i>Scientific Reports</i> , 2016, 6, 22154.	1.6	50
146	RAP-1 and the RAL-1/exocyst pathway coordinate hypodermal cell organization in <i>Caenorhabditis elegans</i> . <i>EMBO Journal</i> , 2007, 26, 5083-5092.	3.5	49
147	NIPA1 polyalanine repeat expansions are associated with amyotrophic lateral sclerosis. <i>Human Molecular Genetics</i> , 2012, 21, 2497-2502.	1.4	49
148	Clinical Validation of Whole Genome Sequencing for Cancer Diagnostics. <i>Journal of Molecular Diagnostics</i> , 2021, 23, 816-833.	1.2	47
149	A genome-wide SNP panel for mapping and association studies in the rat. <i>BMC Genomics</i> , 2008, 9, 95.	1.2	46
150	Toward effective software solutions for big biology. <i>Nature Biotechnology</i> , 2015, 33, 686-687.	9.4	46
151	Identification of factors required for meristem function in <i>Arabidopsis</i> using a novel next generation sequencing fast forward genetics approach. <i>BMC Genomics</i> , 2011, 12, 256.	1.2	45
152	Highly Efficient ENU Mutagenesis in Zebrafish. <i>Methods in Molecular Biology</i> , 2009, 546, 3-12.	0.4	43
153	Human extrahepatic and intrahepatic cholangiocyte organoids show region-specific differentiation potential and model cystic fibrosis-related bile duct disease. <i>Scientific Reports</i> , 2020, 10, 21900.	1.6	43
154	Chronic Loss of Melanin-Concentrating Hormone Affects Motivational Aspects of Feeding in the Rat. <i>PLoS ONE</i> , 2011, 6, e19600.	1.1	43
155	Deletion of the serotonin transporter in rats disturbs serotonin homeostasis without impairing liver regeneration. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G963-G968.	1.6	42
156	Phylogeny of Y chromosomes from bovine species. <i>Cladistics</i> , 2008, 24, 723-726.	1.5	41
157	The effect of COMT Val158 Met genotype on decision-making and preliminary findings on its interaction with the 5-HTTLPR in healthy females. <i>Neuropharmacology</i> , 2009, 56, 493-498.	2.0	41
158	Effect of vertical sleeve gastrectomy in melanocortin receptor 4-deficient rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E103-E110.	1.8	41
159	Single-cell derived tumor organoids display diversity in HLA class I peptide presentation. <i>Nature Communications</i> , 2020, 11, 5338.	5.8	41
160	Limited evolution of the actionable metastatic cancer genome under therapeutic pressure. <i>Nature Medicine</i> , 2021, 27, 1553-1563.	15.2	41
161	High-Throughput Target-Selected Gene Inactivation in Zebrafish. <i>Methods in Cell Biology</i> , 2011, 104, 121-127.	0.5	40
162	Cell Autonomous Lipin 1 Function Is Essential for Development and Maintenance of White and Brown Adipose Tissue. <i>Molecular and Cellular Biology</i> , 2012, 32, 4794-4810.	1.1	40

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