

# Roland Eils

## List of Publications by Year in descending order

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429  
papers

59,531  
citations

2427

97  
h-index

1385

222  
g-index

475  
all docs

475  
docs citations

475  
times ranked

88227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of mutational processes in human cancer. <i>Nature</i> , 2013, 500, 415-421.	27.8	8,060
2	Complex heatmaps reveal patterns and correlations in multidimensional genomic data. <i>Bioinformatics</i> , 2016, 32, 2847-2849.	4.1	5,891
3	<i>circize</i> implements and enhances circular visualization in R. <i>Bioinformatics</i> , 2014, 30, 2811-2812.	4.1	2,736
4	International network of cancer genome projects. <i>Nature</i> , 2010, 464, 993-998.	27.8	2,114
5	The Human Cell Atlas. <i>ELife</i> , 2017, 6, .	6.0	1,547
6	Systemic Spread Is an Early Step in Breast Cancer. <i>Cancer Cell</i> , 2008, 13, 58-68.	16.8	1,076
7	The landscape of genomic alterations across childhood cancers. <i>Nature</i> , 2018, 555, 321-327.	27.8	1,068
8	Olfactory transmucosal SARS-CoV-2 invasion as a port of central nervous system entry in individuals with COVID-19. <i>Nature Neuroscience</i> , 2021, 24, 168-175.	14.8	991
9	COVID-19 severity correlates with airway epithelium-immune cell interactions identified by single-cell analysis. <i>Nature Biotechnology</i> , 2020, 38, 970-979.	17.5	887
10	SARS-CoV-2 receptor ACE2 and TMPRSS2 are primarily expressed in bronchial transient secretory cells. <i>EMBO Journal</i> , 2020, 39, e105114.	7.8	812
11	The MicroArray Quality Control (MAQC)-II study of common practices for the development and validation of microarray-based predictive models. <i>Nature Biotechnology</i> , 2010, 28, 827-838.	17.5	795
12	The whole-genome landscape of medulloblastoma subtypes. <i>Nature</i> , 2017, 547, 311-317.	27.8	787
13	Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. <i>Nature</i> , 2010, 464, 721-727.	27.8	768
14	Dissecting the genomic complexity underlying medulloblastoma. <i>Nature</i> , 2012, 488, 100-105.	27.8	765
15	Genome Sequencing of Pediatric Medulloblastoma Links Catastrophic DNA Rearrangements with TP53 Mutations. <i>Cell</i> , 2012, 148, 59-71.	28.9	743
16	New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs. <i>Cell</i> , 2016, 164, 1060-1072.	28.9	702
17	Three-Dimensional Maps of All Chromosomes in Human Male Fibroblast Nuclei and Prometaphase Rosettes. <i>PLoS Biology</i> , 2005, 3, e157.	5.6	683
18	Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. <i>Nature Genetics</i> , 2013, 45, 927-932.	21.4	674

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19	Genome Sequencing of SHH Medulloblastoma Predicts Genotype-Related Response to Smoothed Inhibition. <i>Cancer Cell</i> , 2014, 25, 393-405.	16.8	627
20	Omic data from evolved <i>E. coli</i> are consistent with computed optimal growth from genome-scale models. <i>Molecular Systems Biology</i> , 2010, 6, 390.	7.2	615
21	From latent disseminated cells to overt metastasis: Genetic analysis of systemic breast cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7737-7742.	7.1	588
22	Epigenomic alterations define lethal CIMP-positive ependymomas of infancy. <i>Nature</i> , 2014, 506, 445-450.	27.8	521
23	Enhancer hijacking activates GF11 family oncogenes in medulloblastoma. <i>Nature</i> , 2014, 511, 428-434.	27.8	520
24	Identification of Regulatory Networks in HSCs and Their Immediate Progeny via Integrated Proteome, Transcriptome, and DNA Methylome Analysis. <i>Cell Stem Cell</i> , 2014, 15, 507-522.	11.1	439
25	Atypical Teratoid/Rhabdoid Tumors Are Comprised of Three Epigenetic Subgroups with Distinct Enhancer Landscapes. <i>Cancer Cell</i> , 2016, 29, 379-393.	16.8	438
26	Recruitment and Activation of a Lipid Kinase by Hepatitis C Virus NS5A Is Essential for Integrity of the Membranous Replication Compartment. <i>Cell Host and Microbe</i> , 2011, 9, 32-45.	11.0	435
27	Nuclear Envelope Breakdown Proceeds by Microtubule-Induced Tearing of the Lamina. <i>Cell</i> , 2002, 108, 83-96.	28.9	422
28	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. <i>Cell</i> , 2016, 167, 1145-1149.	28.9	404
29	Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. <i>Nature Genetics</i> , 2012, 44, 1316-1320.	21.4	389
30	Decoding the regulatory landscape of medulloblastoma using DNA methylation sequencing. <i>Nature</i> , 2014, 510, 537-541.	27.8	378
31	Modulation of Serines 17 and 24 in the LC3-interacting Region of Bnip3 Determines Pro-survival Mitophagy versus Apoptosis. <i>Journal of Biological Chemistry</i> , 2013, 288, 1099-1113.	3.4	374
32	SARS-CoV-2 receptor ACE2 and TMPRSS2 are primarily expressed in bronchial transient secretory cells. <i>EMBO Journal</i> , 0, , e105114.	7.8	340
33	Active medulloblastoma enhancers reveal subgroup-specific cellular origins. <i>Nature</i> , 2016, 530, 57-62.	27.8	318
34	Transient colocalization of X-inactivation centres accompanies the initiation of X inactivation. <i>Nature Cell Biology</i> , 2006, 8, 293-299.	10.3	304
35	Mathematical modeling reveals threshold mechanism in CD95-induced apoptosis. <i>Journal of Cell Biology</i> , 2004, 166, 839-851.	5.2	301
36	Integrative Genomic Analyses Reveal an Androgen-Driven Somatic Alteration Landscape in Early-Onset Prostate Cancer. <i>Cancer Cell</i> , 2013, 23, 159-170.	16.8	292

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37	SARS-CoV-2 infection triggers profibrotic macrophage responses and lung fibrosis. <i>Cell</i> , 2021, 184, 6243-6261.e27.	28.9	277
38	Global Chromosome Positions Are Transmitted through Mitosis in Mammalian Cells. <i>Cell</i> , 2003, 112, 751-764.	28.9	268
39	Spectrum and prevalence of genetic predisposition in medulloblastoma: a retrospective genetic study and prospective validation in a clinical trial cohort. <i>Lancet Oncology</i> , The, 2018, 19, 785-798.	10.7	268
40	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , 2015, 6, 10001.	12.8	266
41	The landscape of viral associations in human cancers. <i>Nature Genetics</i> , 2020, 52, 320-330.	21.4	261
42	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021, 184, 2239-2254.e39.	28.9	260
43	Mutations in the SIX1/2 Pathway and the DROSHA/DGCR8 miRNA Microprocessor Complex Underlie High-Risk Blastemal Type Wilms Tumors. <i>Cancer Cell</i> , 2015, 27, 298-311.	16.8	248
44	Acute myeloid leukemias with reciprocal rearrangements can be distinguished by specific gene expression profiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10008-10013.	7.1	246
45	Large-scale in silico modeling of metabolic interactions between cell types in the human brain. <i>Nature Biotechnology</i> , 2010, 28, 1279-1285.	17.5	246
46	Customized Oligonucleotide Microarray Gene Expression-Based Classification of Neuroblastoma Patients Outperforms Current Clinical Risk Stratification. <i>Journal of Clinical Oncology</i> , 2006, 24, 5070-5078.	1.6	243
47	Genomic analysis of single cytokeratin-positive cells from bone marrow reveals early mutational events in breast cancer. <i>Cancer Cell</i> , 2005, 8, 227-239.	16.8	239
48	Pre-activated antiviral innate immunity in the upper airways controls early SARS-CoV-2 infection in children. <i>Nature Biotechnology</i> , 2022, 40, 319-324.	17.5	229
49	A contractile nuclear actin network drives chromosome congression in oocytes. <i>Nature</i> , 2005, 436, 812-818.	27.8	220
50	Three-dimensional reconstruction of painted human interphase chromosomes: active and inactive X chromosome territories have similar volumes but differ in shape and surface structure.. <i>Journal of Cell Biology</i> , 1996, 135, 1427-1440.	5.2	215
51	NK cells switch from granzyme B to death receptor-mediated cytotoxicity during serial killing. <i>Journal of Experimental Medicine</i> , 2019, 216, 2113-2127.	8.5	210
52	Secretory meningiomas are defined by combined KLF4 K409Q and TRAF7 mutations. <i>Acta Neuropathologica</i> , 2013, 125, 351-358.	7.7	208
53	Engineering light-inducible nuclear localization signals for precise spatiotemporal control of protein dynamics in living cells. <i>Nature Communications</i> , 2014, 5, 4404.	12.8	203
54	Artesunate Activates Mitochondrial Apoptosis in Breast Cancer Cells via Iron-catalyzed Lysosomal Reactive Oxygen Species Production. <i>Journal of Biological Chemistry</i> , 2011, 286, 6587-6601.	3.4	201

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55	Integrative genomic and transcriptomic analysis of leiomyosarcoma. <i>Nature Communications</i> , 2018, 9, 144.	12.8	197
56	Virus-induced senescence is a driver and therapeutic target in COVID-19. <i>Nature</i> , 2021, 599, 283-289.	27.8	195
57	Compartmentalization of Interphase Chromosomes Observed in Simulation and Experiment. <i>Journal of Molecular Biology</i> , 1999, 285, 1053-1065.	4.2	190
58	Automatic Identification of Subcellular Phenotypes on Human Cell Arrays. <i>Genome Research</i> , 2004, 14, 1130-1136.	5.5	190
59	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. <i>Cancer Cell</i> , 2018, 34, 996-1011.e8.	16.8	190
60	CYP3A5 mediates basal and acquired therapy resistance in different subtypes of pancreatic ductal adenocarcinoma. <i>Nature Medicine</i> , 2016, 22, 278-287.	30.7	184
61	Cross-platform analysis of cancer microarray data improves gene expression based classification of phenotypes. <i>BMC Bioinformatics</i> , 2005, 6, 265.	2.6	183
62	Recurrent MET fusion genes represent a drug target in pediatric glioblastoma. <i>Nature Medicine</i> , 2016, 22, 1314-1320.	30.7	183
63	Optogenetic control of nuclear protein export. <i>Nature Communications</i> , 2016, 7, 10624.	12.8	183
64	Dynamics of HIV-1 Assembly and Release. <i>PLoS Pathogens</i> , 2009, 5, e1000652.	4.7	178
65	Visualizing telomere dynamics in living mammalian cells using PNA probes. <i>EMBO Journal</i> , 2003, 22, 6631-6641.	7.8	176
66	Etiology-dependent molecular mechanisms in human hepatocarcinogenesis. <i>Hepatology</i> , 2008, 47, 511-520.	7.3	173
67	SARS-CoV-2-mediated dysregulation of metabolism and autophagy uncovers host-targeting antivirals. <i>Nature Communications</i> , 2021, 12, 3818.	12.8	172
68	Screening drug effects in patient-derived cancer cells links organoid responses to genome alterations. <i>Molecular Systems Biology</i> , 2017, 13, 955.	7.2	163
69	Tagmentation-based whole-genome bisulfite sequencing. <i>Nature Protocols</i> , 2013, 8, 2022-2032.	12.0	161
70	Engineered anti-CRISPR proteins for optogenetic control of CRISPR-Cas9. <i>Nature Methods</i> , 2018, 15, 924-927.	19.0	161
71	Deconvolution of single-cell multi-omics layers reveals regulatory heterogeneity. <i>Nature Communications</i> , 2019, 10, 470.	12.8	156
72	Metabolic-energy-dependent movement of PML bodies within the mammalian cell nucleus. <i>Nature Cell Biology</i> , 2002, 4, 106-110.	10.3	153

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73	Enhancer hijacking activates oncogenic transcription factor NR4A3 in acinic cell carcinomas of the salivary glands. <i>Nature Communications</i> , 2019, 10, 368.	12.8	153
74	EnrichedHeatmap: an R/Bioconductor package for comprehensive visualization of genomic signal associations. <i>BMC Genomics</i> , 2018, 19, 234.	2.8	152
75	One, two or three? Probing the stoichiometry of membrane proteins by single-molecule localization microscopy. <i>Scientific Reports</i> , 2015, 5, 14072.	3.3	148
76	Gene Expression Signature Predicting Pathologic Complete Response With Gemcitabine, Epirubicin, and Docetaxel in Primary Breast Cancer. <i>Journal of Clinical Oncology</i> , 2006, 24, 1839-1845.	1.6	146
77	Genome-wide transcriptional analysis of the human cell cycle identifies genes differentially regulated in normal and cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 955-960.	7.1	145
78	BAZ2A (TIP5) is involved in epigenetic alterations in prostate cancer and its overexpression predicts disease recurrence. <i>Nature Genetics</i> , 2015, 47, 22-30.	21.4	141
79	The mutational pattern of primary lymphoma of the central nervous system determined by whole-exome sequencing. <i>Leukemia</i> , 2015, 29, 677-685.	7.2	139
80	Model-based dissection of CD95 signaling dynamics reveals both a pro- and antiapoptotic role of c-FLIPL. <i>Journal of Cell Biology</i> , 2010, 190, 377-389.	5.2	135
81	Precision oncology based on omics data: The NCT Heidelberg experience. <i>International Journal of Cancer</i> , 2017, 141, 877-886.	5.1	133
82	Dynamics within the CD95 death-inducing signaling complex decide life and death of cells. <i>Molecular Systems Biology</i> , 2010, 6, 352.	7.2	130
83	Computational imaging in cell biology. <i>Journal of Cell Biology</i> , 2003, 161, 477-481.	5.2	129
84	Synergy between medical informatics and bioinformatics: facilitating genomic medicine for future health care. <i>Journal of Biomedical Informatics</i> , 2004, 37, 30-42.	4.3	129
85	Group testing for pathway analysis improves comparability of different microarray datasets. <i>Bioinformatics</i> , 2006, 22, 2500-2506.	4.1	129
86	Prognostic Impact of Gene Expression-Based Classification for Neuroblastoma. <i>Journal of Clinical Oncology</i> , 2010, 28, 3506-3515.	1.6	129
87	Hypertension delays viral clearance and exacerbates airway hyperinflammation in patients with COVID-19. <i>Nature Biotechnology</i> , 2021, 39, 705-716.	17.5	129
88	Web-based design and analysis tools for CRISPR base editing. <i>BMC Bioinformatics</i> , 2018, 19, 542.	2.6	127
89	Autoantibodies Against the Exocrine Pancreas in Autoimmune Pancreatitis: Gene and Protein Expression Profiling and Immunoassays Identify Pancreatic Enzymes as a Major Target of the Inflammatory Process. <i>American Journal of Gastroenterology</i> , 2010, 105, 2060-2071.	0.4	126
90	Complement activation induces excessive T cell cytotoxicity in severe COVID-19. <i>Cell</i> , 2022, 185, 493-512.e25.	28.9	122

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91	High-precision distance measurements and volume-conserving segmentation of objects near and below the resolution limit in three-dimensional confocal fluorescence microscopy. <i>Journal of Microscopy</i> , 1998, 189, 118-136.	1.8	121
92	Concurrent detection of autolysosome formation and lysosomal degradation by flow cytometry in a high-content screen for inducers of autophagy. <i>BMC Biology</i> , 2011, 9, 38.	3.8	119
93	DNA methylome analysis in Burkitt and follicular lymphomas identifies differentially methylated regions linked to somatic mutation and transcriptional control. <i>Nature Genetics</i> , 2015, 47, 1316-1325.	21.4	119
94	Nuclear architecture and the induction of chromosomal aberrations. <i>Mutation Research - Reviews in Genetic Toxicology</i> , 1996, 366, 97-116.	2.9	115
95	Optimal Experimental Design for Parameter Estimation of a Cell Signaling Model. <i>PLoS Computational Biology</i> , 2009, 5, e1000558.	3.2	114
96	The 3D Positioning of ANT2 and ANT3 Genes within Female X Chromosome Territories Correlates with Gene Activity. <i>Experimental Cell Research</i> , 1999, 252, 363-375.	2.6	113
97	Prediction of clinical outcome and biological characterization of neuroblastoma by expression profiling. <i>Oncogene</i> , 2005, 24, 7902-7912.	5.9	113
98	Single-Nucleus and In Situ RNA-Sequencing Reveal Cell Topographies in the Human Pancreas. <i>Gastroenterology</i> , 2021, 160, 1330-1344.e11.	1.3	112
99	Microarray-based copy number and expression profiling in dedifferentiated and pleomorphic liposarcoma. <i>Cancer Research</i> , 2002, 62, 2993-8.	0.9	111
100	Identifying essential genes in bacterial metabolic networks with machine learning methods. <i>BMC Systems Biology</i> , 2010, 4, 56.	3.0	108
101	An optimized, fully automated system for fast and accurate identification of chromosomal rearrangements by multiplex-FISH (M-FISH). <i>Cytogenetic and Genome Research</i> , 1998, 82, 160-171.	1.1	104
102	MYC/MIZ1-dependent gene repression inversely coordinates the circadian clock with cell cycle and proliferation. <i>Nature Communications</i> , 2016, 7, 11807.	12.8	103
103	Whole genome sequencing puts forward hypotheses on metastasis evolution and therapy in colorectal cancer. <i>Nature Communications</i> , 2018, 9, 4782.	12.8	103
104	Time-resolved analysis and visualization of dynamic processes in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 7950-7955.	7.1	101
105	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , 2019, 10, 1459.	12.8	99
106	Four-dimensional imaging and quantitative reconstruction to analyse complex spatiotemporal processes in live cells. <i>Nature Cell Biology</i> , 2001, 3, 852-855.	10.3	98
107	Deterministic and probabilistic approaches for tracking virus particles in time-lapse fluorescence microscopy image sequences. <i>Medical Image Analysis</i> , 2009, 13, 325-342.	11.6	98
108	Analysis of CD95 Threshold Signaling. <i>Journal of Biological Chemistry</i> , 2007, 282, 13664-13671.	3.4	97

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109	Environment-induced epigenetic reprogramming in genomic regulatory elements in smoking mothers and their children. <i>Molecular Systems Biology</i> , 2016, 12, 861.	7.2	97
110	Mechismo: predicting the mechanistic impact of mutations and modifications on molecular interactions. <i>Nucleic Acids Research</i> , 2015, 43, e10-e10.	14.5	95
111	Memory-like HCV-specific CD8+ T cells retain a molecular scar after cure of chronic HCV infection. <i>Nature Immunology</i> , 2021, 22, 229-239.	14.5	95
112	Nuclear NR4A3 Immunostaining Is a Specific and Sensitive Novel Marker for Acinic Cell Carcinoma of the Salivary Glands. <i>American Journal of Surgical Pathology</i> , 2019, 43, 1264-1272.	3.7	94
113	Maternal phthalate exposure promotes allergic airway inflammation over 2 generations through epigenetic modifications. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 741-753.	2.9	92
114	Herpesviral replication compartments move and coalesce at nuclear speckles to enhance export of viral late mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E136-44.	7.1	89
115	A comprehensive comparison of tools for differential ChIP-seq analysis. <i>Briefings in Bioinformatics</i> , 2016, 17, bbv110.	6.5	89
116	Topology of genes and nontranscribed sequences in human interphase nuclei. <i>Experimental Cell Research</i> , 2004, 301, 266-279.	2.6	88
117	Separate and variably shaped chromosome arm domains are disclosed by chromosome arm painting in human cell nuclei. <i>Chromosome Research</i> , 1998, 6, 25-33.	2.2	87
118	Genomic footprints of activated telomere maintenance mechanisms in cancer. <i>Nature Communications</i> , 2020, 11, 733.	12.8	87
119	High-Resolution Genomic Profiling Reveals Association of Chromosomal Aberrations on 1q and 16p with Histologic and Genetic Subgroups of Invasive Breast Cancer. <i>Clinical Cancer Research</i> , 2006, 12, 345-352.	7.0	85
120	Pancreatic Ductal Adenocarcinoma Subtyping Using the Biomarkers Hepatocyte Nuclear Factor-1A and Cytokeratin-81 Correlates with Outcome and Treatment Response. <i>Clinical Cancer Research</i> , 2018, 24, 351-359.	7.0	81
121	Estimating novel potential drug targets of <i>Plasmodium falciparum</i> by analysing the metabolic network of knock-out strains in silico. <i>Infection, Genetics and Evolution</i> , 2009, 9, 351-358.	2.3	80
122	Revised Risk Estimation and Treatment Stratification of Low- and Intermediate-Risk Neuroblastoma Patients by Integrating Clinical and Molecular Prognostic Markers. <i>Clinical Cancer Research</i> , 2015, 21, 1904-1915.	7.0	80
123	BioModels: expanding horizons to include more modelling approaches and formats. <i>Nucleic Acids Research</i> , 2018, 46, D1248-D1253.	14.5	80
124	Cell-specific CRISPR-Cas9 activation by microRNA-dependent expression of anti-CRISPR proteins. <i>Nucleic Acids Research</i> , 2019, 47, e75-e75.	14.5	79
125	Integrative DNA methylation and gene expression analysis in high-grade soft tissue sarcomas. <i>Genome Biology</i> , 2013, 14, r137.	9.6	78
126	Microarray analysis reveals differential gene expression patterns and regulation of single target genes contributing to the opposing phenotype of TrkA- and TrkB-expressing neuroblastomas. <i>Oncogene</i> , 2005, 24, 165-177.	5.9	76



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127	Breast cancer: a candidate gene approach across the estrogen metabolic pathway. <i>Breast Cancer Research and Treatment</i> , 2008, 108, 137-149.	2.5	74
128	Coverage Bias and Sensitivity of Variant Calling for Four Whole-genome Sequencing Technologies. <i>PLoS ONE</i> , 2013, 8, e66621.	2.5	74
129	Mutational patterns and regulatory networks in epigenetic subgroups of meningioma. <i>Acta Neuropathologica</i> , 2019, 138, 295-308.	7.7	74
130	Subtelomeric chromosome rearrangements are detected using an innovative 12-color FISH assay (M-TEL). <i>Nature Medicine</i> , 2001, 7, 497-501.	30.7	72
131	A cryptic t(5;11)(q35;p15.5) in 2 children with acute myeloid leukemia with apparently normal karyotypes, identified by a multiplex fluorescence in situ hybridization telomere assay. <i>Blood</i> , 2002, 99, 2526-2531.	1.4	72
132	Predicting protein subcellular locations using hierarchical ensemble of Bayesian classifiers based on Markov chains. <i>BMC Bioinformatics</i> , 2006, 7, 298.	2.6	72
133	Argonaute—a database for gene regulation by mammalian microRNAs. <i>Nucleic Acids Research</i> , 2006, 34, D115-D118.	14.5	72
134	MEST mediates the impact of prenatal bisphenol A exposure on long-term body weight development. <i>Clinical Epigenetics</i> , 2018, 10, 58.	4.1	72
135	Classification accuracy in multiple color fluorescence imaging microscopy. <i>Cytometry</i> , 2000, 41, 139-147.	1.8	71
136	BRCA1-associated breast and ovarian cancer risks in Poland: no association with commonly studied polymorphisms. <i>Breast Cancer Research and Treatment</i> , 2010, 119, 201-211.	2.5	70
137	Spatial Distributions of Early and Late Replicating Chromatin in Interphase Chromosome Territories. <i>Experimental Cell Research</i> , 1998, 243, 398-407.	2.6	69
138	Genome-wide expression screens indicate a global role for protein kinase CK2 in chromatin remodeling. <i>Journal of Cell Science</i> , 2003, 116, 1563-1577.	2.0	69
139	Genetic polymorphisms in phase I and phase II enzymes and breast cancer risk associated with menopausal hormone therapy in postmenopausal women. <i>Breast Cancer Research and Treatment</i> , 2010, 119, 463-474.	2.5	69
140	A highly standardized, robust, and cost-effective method for genome-wide transcriptome analysis of peripheral blood applicable to large-scale clinical trials. <i>Genomics</i> , 2006, 87, 653-664.	2.9	68
141	Comparison of normalization methods for Illumina BeadChip HumanHT-12 v3. <i>BMC Genomics</i> , 2010, 11, 349.	2.8	68
142	4-D single particle tracking of synthetic and proteinaceous microspheres reveals preferential movement of nuclear particles along chromatin - poor tracks. <i>BMC Cell Biology</i> , 2004, 5, 45.	3.0	67
143	Negative feedback in the bone morphogenetic protein 4 (BMP4) synexpression group governs its dynamic signaling range and canalizes development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10202-10207.	7.1	67
144	Hypermethylation of the Inactive X Chromosome Is a Frequent Event in Cancer. <i>Cell</i> , 2013, 155, 567-581.	28.9	67

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145	Estimating the activity of transcription factors by the effect on their target genes. <i>Bioinformatics</i> , 2014, 30, i401-i407.	4.1	66
146	Distinct gene expression patterns associated with FLT3- and NRAS-activating mutations in acute myeloid leukemia with normal karyotype. <i>Oncogene</i> , 2005, 24, 1580-1588.	5.9	65
147	Comprehensive Analysis of Chromatin States in Atypical Teratoid/Rhabdoid Tumor Identifies Diverging Roles for SWI/SNF and Polycomb in Gene Regulation. <i>Cancer Cell</i> , 2019, 35, 95-110.e8.	16.8	65
148	HiGHmed – An Open Platform Approach to Enhance Care and Research across Institutional Boundaries. <i>Methods of Information in Medicine</i> , 2018, 57, e66-e81.	1.2	64
149	Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. <i>Nature Communications</i> , 2019, 10, 1635.	12.8	64
150	Intra- and Interdimeric Caspase-8 Self-Cleavage Controls Strength and Timing of CD95-Induced Apoptosis. <i>Science Signaling</i> , 2014, 7, ra23.	3.6	63
151	Comparison of performance of one-color and two-color gene-expression analyses in predicting clinical endpoints of neuroblastoma patients. <i>Pharmacogenomics Journal</i> , 2010, 10, 258-266.	2.0	62
152	SplicingCompass: differential splicing detection using RNA-Seq data. <i>Bioinformatics</i> , 2013, 29, 1141-1148.	4.1	61
153	Applying Support Vector Machines for Gene Ontology based gene function prediction. <i>BMC Bioinformatics</i> , 2004, 5, 116.	2.6	60
154	Global gene expression profiling and cluster analysis in <i>Xenopus laevis</i> . <i>Mechanisms of Development</i> , 2005, 122, 441-475.	1.7	59
155	Single-cell analysis of patient-derived PDAC organoids reveals cell state heterogeneity and a conserved developmental hierarchy. <i>Nature Communications</i> , 2021, 12, 5826.	12.8	59
156	Automatic analysis of dividing cells in live cell movies to detect mitotic delays and correlate phenotypes in time. <i>Genome Research</i> , 2009, 19, 2113-2124.	5.5	58
157	CCM2 Mediates Death Signaling by the TrkA Receptor Tyrosine Kinase. <i>Neuron</i> , 2009, 63, 585-591.	8.1	58
158	Polymorphisms in the BRCA1 and ABCB1 genes modulate menopausal hormone therapy associated breast cancer risk in postmenopausal women. <i>Breast Cancer Research and Treatment</i> , 2010, 120, 727-736.	2.5	58
159	An integrated genome research network for studying the genetics of alcohol addiction. <i>Addiction Biology</i> , 2010, 15, 369-379.	2.6	57
160	Integration of Activating and Inhibitory Receptor Signaling by Regulated Phosphorylation of Vav1 in Immune Cells. <i>Science Signaling</i> , 2011, 4, ra36.	3.6	56
161	Local gene density predicts the spatial position of genetic loci in the interphase nucleus. <i>Experimental Cell Research</i> , 2005, 311, 14-26.	2.6	55
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