

# Roland Eils

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Differentially methylated regions within lung cancer risk loci are enriched in deregulated enhancers. <i>Epigenetics</i> , 2022, 17, 117-132.	2.7	2
2	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
3	Neural network-based integration of polygenic and clinical information: development and validation of a prediction model for 10-year risk of major adverse cardiac events in the UK Biobank cohort. <i>The Lancet Digital Health</i> , 2022, 4, e84-e94.	12.3	21
4	Complement activation induces excessive T cell cytotoxicity in severe COVID-19. <i>Cell</i> , 2022, 185, 493-512.e25.	28.9	122
5	Age-Related Differences in Structure and Function of Nasal Epithelial Cultures From Healthy Children and Elderly People. <i>Frontiers in Immunology</i> , 2022, 13, 822437.	4.8	5
6	SSAM-lite: A Light-Weight Web App for Rapid Analysis of Spatially Resolved Transcriptomics Data. <i>Frontiers in Genetics</i> , 2022, 13, 785877.	2.3	2
7	Temporal control of the integrated stress response by a stochastic molecular switch. <i>Science Advances</i> , 2022, 8, eabk2022.	10.3	13
8	A targetable "rogue" neutrophil-subset, [CD11b+DEspR+] immunotype, is associated with severity and mortality in acute respiratory distress syndrome (ARDS) and COVID-19-ARDS. <i>Scientific Reports</i> , 2022, 12, 5583.	3.3	9
9	The genomic and transcriptional landscape of primary central nervous system lymphoma. <i>Nature Communications</i> , 2022, 13, 2558.	12.8	52
10	Analysis of mutational signatures with yet another package for signature analysis. <i>Genes Chromosomes and Cancer</i> , 2021, 60, 314-331.	2.8	40
11	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
12	Optogenetic control of <i>Neisseria meningitidis</i> Cas9 genome editing using an engineered, light-switchable anti-CRISPR protein. <i>Nucleic Acids Research</i> , 2021, 49, e29-e29.	14.5	25
13	Hypertension delays viral clearance and exacerbates airway hyperinflammation in patients with COVID-19. <i>Nature Biotechnology</i> , 2021, 39, 705-716.	17.5	129
14	Identifying multimodal signatures underlying the somatic comorbidity of psychosis: the COMMITMENT roadmap. <i>Molecular Psychiatry</i> , 2021, 26, 722-724.	7.9	7
15	Putative second hit rare genetic variants in families with seemingly GBA-associated Parkinson's disease. <i>Npj Genomic Medicine</i> , 2021, 6, 2.	3.8	11
16	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
17	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
18	Functional States in Tumor-Initiating Cell Differentiation in Human Colorectal Cancer. <i>Cancers</i> , 2021, 13, 1097.	3.7	11

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19	Hyperinflammation as underlying mechanism predisposing patients with cardiovascular diseases for severe COVID-19. <i>European Heart Journal</i> , 2021, 42, 1720-1721.	2.2	8
20	Gene Expression in Solitary Fibrous Tumors (SFTs) Correlates with Anatomic Localization and NAB2-STAT6 Gene Fusion Variants. <i>American Journal of Pathology</i> , 2021, 191, 602-617.	3.8	30
21	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021, 184, 2239-2254.e39.	28.9	260
22	Integrative Ranking of Enhancer Networks Facilitates the Discovery of Epigenetic Markers in Cancer. <i>Frontiers in Genetics</i> , 2021, 12, 664654.	2.3	0
23	A method for the rational selection of drug repurposing candidates from multimodal knowledge harmonization. <i>Scientific Reports</i> , 2021, 11, 11049.	3.3	12
24	Knowledge bases and software support for variant interpretation in precision oncology. <i>Briefings in Bioinformatics</i> , 2021, 22, .	6.5	9
25	Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , 2021, 35, 2002-2016.	7.2	34
26	Cell segmentation-free inference of cell types from in situ transcriptomics data. <i>Nature Communications</i> , 2021, 12, 3545.	12.8	52
27	SARS-CoV-2-mediated dysregulation of metabolism and autophagy uncovers host-targeting antivirals. <i>Nature Communications</i> , 2021, 12, 3818.	12.8	172
28	Lipomatous Solitary Fibrous Tumors Harbor Rare NAB2-STAT6 Fusion Variants and Show Up-Regulation of the Gene PPARC, Encoding for a Regulator of Adipocyte Differentiation. <i>American Journal of Pathology</i> , 2021, 191, 1314-1324.	3.8	5
29	The DNA methylation landscape of multiple myeloma shows extensive inter- and inpatient heterogeneity that fuels transcriptomic variability. <i>Genome Medicine</i> , 2021, 13, 127.	8.2	9
30	Virus-induced senescence is a driver and therapeutic target in COVID-19. <i>Nature</i> , 2021, 599, 283-289.	27.8	195
31	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
32	SARS-CoV-2 infection triggers profibrotic macrophage responses and lung fibrosis. <i>Cell</i> , 2021, 184, 6243-6261.e27.	28.9	277
33	An Engineering Approach Towards Multi-site Virtual Molecular Tumor Board Software. <i>Communications in Computer and Information Science</i> , 2021, , 156-170.	0.5	1
34	Genetic Interactions and Tissue Specificity Modulate the Association of Mutations with Drug Response. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 927-936.	4.1	5
35	Framework for quality assessment of whole genome cancer sequences. <i>Nature Communications</i> , 2020, 11, 5040.	12.8	5
36	Nuclear NR4A2 (Nurr1) Immunostaining is a Novel Marker for Acinic Cell Carcinoma of the Salivary Glands Lacking the Classic NR4A3 (NOR-1) Upregulation. <i>American Journal of Surgical Pathology</i> , 2020, 44, 1290-1292.	3.7	22

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37	Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples. <i>Nature Communications</i> , 2020, 11, 4748.	12.8	27
38	Glioblastoma epigenome profiling identifies SOX10 as a master regulator of molecular tumour subtype. <i>Nature Communications</i> , 2020, 11, 6434.	12.8	48
39	Gene set inference from single-cell sequencing data using a hybrid of matrix factorization and variational autoencoders. <i>Nature Machine Intelligence</i> , 2020, 2, 800-809.	16.0	5
40	Automated 3D light-sheet screening with high spatiotemporal resolution reveals mitotic phenotypes. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	21
41	Integrative Analysis of Multi-omics Data Identified EGFR and PTGS2 as Key Nodes in a Gene Regulatory Network Related to Immune Phenotypes in Head and Neck Cancer. <i>Clinical Cancer Research</i> , 2020, 26, 3616-3628.	7.0	31
42	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
43	NOTCH target gene HES5 mediates oncogenic and tumor suppressive functions in hepatocarcinogenesis. <i>Oncogene</i> , 2020, 39, 3128-3144.	5.9	28
44	Genomic footprints of activated telomere maintenance mechanisms in cancer. <i>Nature Communications</i> , 2020, 11, 733.	12.8	87
45	The landscape of viral associations in human cancers. <i>Nature Genetics</i> , 2020, 52, 320-330.	21.4	261
46	Coupling Cas9 to artificial inhibitory domains enhances CRISPR-Cas9 target specificity. <i>Science Advances</i> , 2020, 6, eaay0187.	10.3	45
47	Computational design of anti-CRISPR proteins with improved inhibition potency. <i>Nature Chemical Biology</i> , 2020, 16, 725-730.	8.0	14
48	Whole-genome fingerprint of the DNA methylome during chemically induced differentiation of the human AML cell line HL-60/S4. <i>Biology Open</i> , 2020, 9, .	1.2	3
49	<sc>SARS</sc> receptor <sc>ACE</sc> 2 and <sc>TMPRSS</sc> 2 are primarily expressed in bronchial transient secretory cells. <i>EMBO Journal</i> , 2020, 39, e105114.	7.8	812
50	Follicular T helper cells shape the HCV-specific CD4+ T cell repertoire after virus elimination. <i>Journal of Clinical Investigation</i> , 2020, 130, 998-1009.	8.2	39
51	Transcriptome profiling reveals Silibinin dose-dependent response network in non-small lung cancer cells. <i>PeerJ</i> , 2020, 8, e10373.	2.0	6
52	ShinyButchR: Interactive NMF-based decomposition workflow of genome-scale datasets. <i>Biology Methods and Protocols</i> , 2020, 5, bpaa022.	2.2	11
53	Membership Inference Against DNA Methylation Databases. , 2020, , .		4
54	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

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55	Pheno-seq linking visual features and gene expression in 3D cell culture systems. <i>Scientific Reports</i> , 2019, 9, 12367.	3.3	16
56	Segregation and potential functional impact of a rare stop-gain PABPC4L variant in familial atypical Parkinsonism. <i>Scientific Reports</i> , 2019, 9, 13576.	3.3	3
57	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
58	Deconvolution of single-cell multi-omics layers reveals regulatory heterogeneity. <i>Nature Communications</i> , 2019, 10, 470.	12.8	156
59	TGF $\beta$ <sup>2</sup> -induced cytoskeletal remodeling mediates elevation of cell stiffness and invasiveness in NSCLC. <i>Scientific Reports</i> , 2019, 9, 7667.	3.3	25
60	Impact of cancer mutational signatures on transcription factor motifs in the human genome. <i>BMC Medical Genomics</i> , 2019, 12, 64.	1.5	11
61	Somatic mutations and promotor methylation of the ryanodine receptor 2 is a common event in the pathogenesis of head and neck cancer. <i>International Journal of Cancer</i> , 2019, 145, 3299-3310.	5.1	34
62	Mutational patterns and regulatory networks in epigenetic subgroups of meningioma. <i>Acta Neuropathologica</i> , 2019, 138, 295-308.	7.7	74
63	Leveraging implicit knowledge in neural networks for functional dissection and engineering of proteins. <i>Nature Machine Intelligence</i> , 2019, 1, 225-235.	16.0	18
64	Longitudinal trends of serum IgE and IL5RA expression throughout childhood are associated with asthma but not with persistent wheeze. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2002-2006.	5.7	3
65	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
66	Response to olaparib in a PALB2 germline mutated prostate cancer and genetic events associated with resistance. <i>Journal of Physical Education and Sports Management</i> , 2019, 5, a003657.	1.2	36
67	Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. <i>Nature Communications</i> , 2019, 10, 1635.	12.8	64
68	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , 2019, 10, 1459.	12.8	99
69	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
70	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
71	Abstract 2723: Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. , 2019, , .		0
72	The landscape of genomic alterations across childhood cancers. <i>Nature</i> , 2018, 555, 321-327.	27.8	1,068

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73	BioModels: expanding horizons to include more modelling approaches and formats. <i>Nucleic Acids Research</i> , 2018, 46, D1248-D1253.	14.5	80
74	Cutis laxa, exocrine pancreatic insufficiency and altered cellular metabolomics as additional symptoms in a new patient with ATP6AP1-CDG. <i>Molecular Genetics and Metabolism</i> , 2018, 123, 364-374.	1.1	23
75	Integrative genomic and transcriptomic analysis of leiomyosarcoma. <i>Nature Communications</i> , 2018, 9, 144.	12.8	197
76	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
77	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
78	Tagmentation-Based Library Preparation for Low DNA Input Whole Genome Bisulfite Sequencing. <i>Methods in Molecular Biology</i> , 2018, 1708, 105-122.	0.9	10
79	Early-onset childhood atopic dermatitis is related to NLRP2 repression. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1482-1485.e16.	2.9	21
80	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
81	Whole genome sequencing puts forward hypotheses on metastasis evolution and therapy in colorectal cancer. <i>Nature Communications</i> , 2018, 9, 4782.	12.8	103
82	Web-based design and analysis tools for CRISPR base editing. <i>BMC Bioinformatics</i> , 2018, 19, 542.	2.6	127
83	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
84	Single-Fluorescent Protein Reporters Allow Parallel Quantification of Natural Killer Cell-Mediated Granzyme and Caspase Activities in Single Target Cells. <i>Frontiers in Immunology</i> , 2018, 9, 1840.	4.8	15
85	Engineered anti-CRISPR proteins for optogenetic control of CRISPRâ€™Cas9. <i>Nature Methods</i> , 2018, 15, 924-927.	19.0	161
86	Evaluating local features in high-resolution 3D-PLI data. , 2018, , .		0
87	Scale-bundle spline-based non-rigid registration for handling fissures. , 2018, , .		0
88	Controlling Cells with Light and LOV. <i>Advanced Biology</i> , 2018, 2, 1800098.	3.0	19
89	The transcriptomic and epigenetic map of vascular quiescence in the continuous lung endothelium. <i>ELife</i> , 2018, 7, .	6.0	43
90	HiGHmed â€™ 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

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91	Dissecting Privacy Risks in Biomedical Data. , 2018, , .		11
92	EnrichedHeatmap: an R/Bioconductor package for comprehensive visualization of genomic signal associations. BMC Genomics, 2018, 19, 234.	2.8	152
93	Genomic features of renal cell carcinoma with venous tumor thrombus. Scientific Reports, 2018, 8, 7477.	3.3	19
94	Spectrum and prevalence of genetic predisposition in medulloblastoma: a retrospective genetic study and prospective validation in a clinical trial cohort. Lancet Oncology, The, 2018, 19, 785-798.	10.7	268
95	Unraveling mitotic protein networks by 3D multiplexed epitope drug screening. Molecular Systems Biology, 2018, 14, e8238.	7.2	1
96	Rigid and non-rigid registration of polarized light imaging data for 3D reconstruction of the temporal lobe of the human brain at micrometer resolution. NeuroImage, 2018, 181, 235-251.	4.2	20
97	Familial Cancer Variant Prioritization Pipeline version 2 (FCVPPv2) applied to a papillary thyroid cancer family. Scientific Reports, 2018, 8, 11635.	3.3	30
98	Nucleosome repositioning during differentiation of a human myeloid leukemia cell line. Nucleus, 2017, 8, 188-204.	2.2	21
99	The benzene metabolite 1,4-benzoquinone reduces regulatory T-cell function: A potential mechanism for tobacco smoke-associated atopic dermatitis. Journal of Allergy and Clinical Immunology, 2017, 140, 603-605.	2.9	2
100	Diagnosis of CoPAN by whole exome sequencing: Waking up a sleeping tiger's eye. American Journal of Medical Genetics, Part A, 2017, 173, 1878-1886.	1.2	40
101	Meningiomas induced by low-dose radiation carry structural variants of NF2 and a distinct mutational signature. Acta Neuropathologica, 2017, 134, 155-158.	7.7	26
102	Quantitative diagnosis of breast tumors by morphometric classification of microenvironmental myoepithelial cells using a machine learning approach. Scientific Reports, 2017, 7, 46732.	3.3	34
103	Precision oncology based on omics data: The NCT Heidelberg experience. International Journal of Cancer, 2017, 141, 877-886.	5.1	133
104	Genetic subclone architecture of tumor clone-initiating cells in colorectal cancer. Journal of Experimental Medicine, 2017, 214, 2073-2088.	8.5	30
105	<i>DDX3X</i> mutations in two girls with a phenotype overlapping Toriello-Carey syndrome. American Journal of Medical Genetics, Part A, 2017, 173, 1369-1373.	1.2	41
106	Quantification of substrate and cellular strains in stretchable 3D cell cultures: an experimental and computational framework. Journal of Microscopy, 2017, 266, 115-125.	1.8	2
107	The role of Vimentin in Regulating Cell Invasive Migration in Dense Cultures of Breast Carcinoma Cells. Nano Letters, 2017, 17, 6941-6948.	9.1	55
108	Quantitative Single-Molecule Localization Microscopy (qSMLM) of Membrane Proteins Based on Kinetic Analysis of Fluorophore Blinking Cycles. Methods in Molecular Biology, 2017, 1663, 115-126.	0.9	6

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109	The whole-genome landscape of medulloblastoma subtypes. <i>Nature</i> , 2017, 547, 311-317.	27.8	787
110	Workflows for microscopy image analysis and cellular phenotyping. <i>Journal of Biotechnology</i> , 2017, 261, 70-75.	3.8	23
111	OTP: An automatized system for managing and processing NGS data. <i>Journal of Biotechnology</i> , 2017, 261, 53-62.	3.8	50
112	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
113	Identifying Personal DNA Methylation Profiles by Genotype Inference. , 2017, , .		24
114	Impact of clinical exomes in neurodevelopmental and neurometabolic disorders. <i>Molecular Genetics and Metabolism</i> , 2017, 121, 297-307.	1.1	50
115	Mutant KIT as imatinib-sensitive target in metastatic sinonasal carcinoma. <i>Annals of Oncology</i> , 2017, 28, 142-148.	1.2	30
116	TALEN/CRISPR-mediated engineering of a promoterless anti-viral RNAi hairpin into an endogenous miRNA locus. <i>Nucleic Acids Research</i> , 2017, 45, e3-e3.	14.5	8
117	The Human Cell Atlas. <i>ELife</i> , 2017, 6, .	6.0	1,547
118	Transcription factors, coregulators, and epigenetic marks are linearly correlated and highly redundant. <i>PLoS ONE</i> , 2017, 12, e0186324.	2.5	13
119	Correlated receptor transport processes buffer single-cell heterogeneity. <i>PLoS Computational Biology</i> , 2017, 13, e1005779.	3.2	10
120	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
121	Alterations of microRNA and microRNA-regulated messenger RNA expression in germinal center B-cell lymphomas determined by integrative sequencing analysis. <i>Haematologica</i> , 2016, 101, 1380-1389.	3.5	43
122	Role of the ESCRT Complexes in Telomere Biology. <i>MBio</i> , 2016, 7, .	4.1	11
123	Copy Number Alterations in Enzyme-Coding and Cancer-Causing Genes Reprogram Tumor Metabolism. <i>Cancer Research</i> , 2016, 76, 4058-4067.	0.9	19
124	Complex heatmaps reveal patterns and correlations in multidimensional genomic data. <i>Bioinformatics</i> , 2016, 32, 2847-2849.	4.1	5,891
125	A comprehensive comparison of tools for differential ChIP-seq analysis. <i>Briefings in Bioinformatics</i> , 2016, 17, bbv110.	6.5	89
126	Optogenetic Control of Nuclear Protein Import in Living Cells Using Light-Inducible Nuclear Localization Signals (LINuS). <i>Current Protocols in Chemical Biology</i> , 2016, 8, 131-145.	1.7	12



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127	Identification of immunotherapeutic targets by genomic profiling of rectal NET metastases. <i>Oncolmmunology</i> , 2016, 5, e1213931.	4.6	14
128	Recurrent MET fusion genes represent a drug target in pediatric glioblastoma. <i>Nature Medicine</i> , 2016, 22, 1314-1320.	30.7	183
129	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. <i>Cell</i> , 2016, 167, 1145-1149.	28.9	404
130	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
131	Pedigree based DNA sequencing pipeline for germline genomes of cancer families. <i>Hereditary Cancer in Clinical Practice</i> , 2016, 14, 16.	1.5	7
132	Spatial niche formation but not malignant progression is a driving force for intratumoural heterogeneity. <i>Nature Communications</i> , 2016, 7, ncomms11845.	12.8	44
133	Prenatal maternal stress and wheeze in children: novel insights into epigenetic regulation. <i>Scientific Reports</i> , 2016, 6, 28616.	3.3	55
134	Death receptor-based enrichment of Cas9-expressing cells. <i>BMC Biotechnology</i> , 2016, 16, 17.	3.3	12
135	gtrellis: an R/Bioconductor package for making genome-level Trellis graphics. <i>BMC Bioinformatics</i> , 2016, 17, 169.	2.6	21
136	Active medulloblastoma enhancers reveal subgroup-specific cellular origins. <i>Nature</i> , 2016, 530, 57-62.	27.8	318
137	HilbertCurve: an R/Bioconductor package for high-resolution visualization of genomic data. <i>Bioinformatics</i> , 2016, 32, 2372-2374.	4.1	29
138	Optogenetic control of nuclear protein export. <i>Nature Communications</i> , 2016, 7, 10624.	12.8	183
139	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
140	Increased vitamin D levels at birth and in early infancy increase offspring allergy risk—evidence for involvement of epigenetic mechanisms. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 610-613.	2.9	43
141	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
142	New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs. <i>Cell</i> , 2016, 164, 1060-1072.	28.9	702
143	Mixed Integer Linear Programming based machine learning approach identifies regulators of telomerase in yeast. <i>Nucleic Acids Research</i> , 2016, 44, e93-e93.	14.5	10
144	Editorial: Synthetic biology “ready for application. <i>Biotechnology Journal</i> , 2015, 10, 229-230.	3.5	4

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145	Large-scale tracking and classification for automatic analysis of cell migration and proliferation, and experimental optimization of high-throughput screens of neuroblastoma cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 524-540.	1.5	15
146	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
147	Quantitative analysis of chromatin interaction changes upon a 4.3 Mb deletion at mouse 4E2. <i>BMC Genomics</i> , 2015, 16, 982.	2.8	2
148	So rare we need to hunt for them: reframing the ethical debate on incidental findings. <i>Genome Medicine</i> , 2015, 7, 83.	8.2	19
149	On the role of spatial phase and phase correlation in vision, illusion, and cognition. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 45.	2.1	13
150	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , 2015, 6, 10001.	12.8	266
151	Mechismo: predicting the mechanistic impact of mutations and modifications on molecular interactions. <i>Nucleic Acids Research</i> , 2015, 43, e10-e10.	14.5	95
152	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
153	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
154	Suppression of Early Hematogenous Dissemination of Human Breast Cancer Cells to Bone Marrow by Retinoic Acid-Induced 2. <i>Cancer Discovery</i> , 2015, 5, 506-519.	9.4	45
155	Loss of function of PGAP1 as a cause of severe encephalopathy identified by Whole Exome Sequencing: Lessons of the bioinformatics pipeline. <i>Molecular and Cellular Probes</i> , 2015, 29, 323-329.	2.1	24
156	MapMyFlu: visualizing spatio-temporal relationships between related influenza sequences. <i>Nucleic Acids Research</i> , 2015, 43, W547-W551.	14.5	5
157	Hypermutation takes the driver's seat. <i>Genome Medicine</i> , 2015, 7, 31.	8.2	15
158	SIPA1L3 identified by linkage analysis and whole-exome sequencing as a novel gene for autosomal recessive congenital cataract. <i>European Journal of Human Genetics</i> , 2015, 23, 1627-1633.	2.8	15
159	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
160	Tracking Virus Particles in Fluorescence Microscopy Images Using Multi-Scale Detection and Multi-Frame Association. <i>IEEE Transactions on Image Processing</i> , 2015, 24, 4122-4136.	9.8	23
161	Backbone circularization of <i>Bacillus subtilis</i> family 11 xylanase increases its thermostability and its resistance against aggregation. <i>Molecular BioSystems</i> , 2015, 11, 3231-3243.	2.9	21
162	Combinatorial treatment of CD95L and gemcitabine in pancreatic cancer cells induces apoptotic and RIP1-mediated necroptotic cell death network. <i>Experimental Cell Research</i> , 2015, 339, 1-9.	2.6	18

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163	Automated Analysis of Single-Molecule Photobleaching Data by Statistical Modeling of Spot Populations. <i>Biophysical Journal</i> , 2015, 109, 2352-2362.	0.5	32
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