

# Christian Beisel

## List of Publications by Year in descending order

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110  
papers

7,727  
citations

98825

36  
h-index

61462

81  
g-index

134  
all docs

134  
docs citations

134  
times ranked

19130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrophils escort circulating tumour cells to enable cell cycle progression. <i>Nature</i> , 2019, 566, 553-557.	36.2	864
2	Repressive and active histone methylation mark distinct promoters in human and mouse spermatozoa. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 679-687.	8.1	624
3	Circulating Tumor Cell Clustering Shapes DNA Methylation to Enable Metastasis Seeding. <i>Cell</i> , 2019, 176, 98-112.e14.	27.8	617
4	Clonal evolution and clinical correlates of somatic mutations in myeloproliferative neoplasms. <i>Blood</i> , 2014, 123, 2220-2228.	1.4	533
5	Silencing chromatin: comparing modes and mechanisms. <i>Nature Reviews Genetics</i> , 2011, 12, 123-135.	16.7	338
6	Histone methylation by the <i>Drosophila</i> epigenetic transcriptional regulator Ash1. <i>Nature</i> , 2002, 419, 857-862.	36.2	283
7	High-Resolution Analysis of Parent-of-Origin Allelic Expression in the Arabidopsis Endosperm. <i>PLoS Genetics</i> , 2011, 7, e1002126.	3.4	244
8	A High-Density Map for Navigating the Human Polycomb Complexome. <i>Cell Reports</i> , 2016, 17, 583-595.	6.3	241
9	Neonatal Bone Mass: Influence of Parental Birthweight, Maternal Smoking, Body Composition, and Activity During Pregnancy. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 1694-1703.	3.0	210
10	Distinct contributions of partial and full EMT to breast cancer malignancy. <i>Developmental Cell</i> , 2021, 56, 3203-3221.e11.	7.0	204
11	A New Phylogenetic Framework for the Animal-Adapted Mycobacterium tuberculosis Complex. <i>Frontiers in Microbiology</i> , 2018, 9, 2820.	3.6	154
12	Polycomb preferentially targets stalled promoters of coding and noncoding transcripts. <i>Genome Research</i> , 2011, 21, 216-226.	5.6	148
13	Hypoxia Triggers the Intravasation of Clustered Circulating Tumor Cells. <i>Cell Reports</i> , 2020, 32, 108105.	6.3	147
14	Treemmer: a tool to reduce large phylogenetic datasets with minimal loss of diversity. <i>BMC Bioinformatics</i> , 2018, 19, 164.	2.7	137
15	Full-length haplotype reconstruction to infer the structure of heterogeneous virus populations. <i>Nucleic Acids Research</i> , 2014, 42, e115-e115.	14.0	132
16	openBIS: a flexible framework for managing and analyzing complex data in biology research. <i>BMC Bioinformatics</i> , 2011, 12, 468.	2.7	121
17	Trithorax requires Hsp90 for maintenance of active chromatin at sites of gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1157-1162.	7.6	118
18	Attenuated sensing of SHH by Ptch1 underlies evolution of bovine limbs. <i>Nature</i> , 2014, 511, 46-51.	36.2	107

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19	HAND2 Targets Define a Network of Transcriptional Regulators that Compartmentalize the Early Limb Bud Mesenchyme. <i>Developmental Cell</i> , 2014, 31, 345-357.	7.0	104
20	Early detection and surveillance of SARS-CoV-2 genomic variants in wastewater using COJAC. <i>Nature Microbiology</i> , 2022, 7, 1151-1160.	13.1	103
21	Accessibility of the Drosophila genome discriminates PcG repression, H4K16 acetylation and replication timing. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 894-900.	8.1	100
22	Polycomb purification by in vivo biotinylation tagging reveals cohesin and Trithorax group proteins as interaction partners. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5572-5577.	7.6	94
23	Phylogenomics of <i>Mycobacterium africanum</i> reveals a new lineage and a complex evolutionary history. <i>Microbial Genomics</i> , 2021, 7, .	2.1	87
24	The Tumor Profiler Study: integrated, multi-omic, functional tumor profiling for clinical decision support. <i>Cancer Cell</i> , 2021, 39, 288-293.	16.8	86
25	Oncolytic virotherapy-mediated anti-tumor response: a single-cell perspective. <i>Cancer Cell</i> , 2021, 39, 394-406.e4.	16.8	79
26	High-Resolution Profiling of Drosophila Replication Start Sites Reveals a DNA Shape and Chromatin Signature of Metazoan Origins. <i>Cell Reports</i> , 2015, 11, 821-834.	6.3	72
27	Comparing active and repressed expression states of genes controlled by the Polycomb/Trithorax group proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16615-16620.	7.6	71
28	Reference set of <i>Mycobacterium tuberculosis</i> clinical strains: A tool for research and product development. <i>PLoS ONE</i> , 2019, 14, e0214088.	2.5	64
29	Clonal hematopoiesis in donors and long-term survivors of related allogeneic hematopoietic stem cell transplantation. <i>Blood</i> , 2020, 135, 1548-1559.	1.4	60
30	Expression and Mutation Patterns of PBRM1, BAP1 and SETD2 Mirror Specific Evolutionary Subtypes in Clear Cell Renal Cell Carcinoma. <i>Neoplasia</i> , 2019, 21, 247-256.	5.3	59
31	Detection and Genome Sequencing of SARS-CoV-2 in a Domestic Cat with Respiratory Signs in Switzerland. <i>Viruses</i> , 2021, 13, 496.	3.4	57
32	Read length versus Depth of Coverage for Viral Quasispecies Reconstruction. <i>PLoS ONE</i> , 2012, 7, e47046.	2.5	56
33	High-throughput sequencing for the identification of binding molecules from DNA-encoded chemical libraries. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 4188-4192.	2.3	50
34	Single-cell RNA sequencing reveals developmental heterogeneity among early lymphoid progenitors. <i>EMBO Journal</i> , 2017, 36, 3619-3633.	8.2	49
35	JAK2-mutant hematopoietic cells display metabolic alterations that can be targeted to treat myeloproliferative neoplasms. <i>Blood</i> , 2019, 134, 1832-1846.	1.4	49
36	Prisons as ecological drivers of fitness-compensated multidrug-resistant <i>Mycobacterium tuberculosis</i> . <i>Nature Medicine</i> , 2021, 27, 1171-1177.	30.1	48

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37	Quantitative in vivo analysis of chromatin binding of Polycomb and Trithorax group proteins reveals retention of ASH1 on mitotic chromatin. <i>Nucleic Acids Research</i> , 2013, 41, 5235-5250.	14.0	45
38	Large-scale DNA-based phenotypic recording and deep learning enable highly accurate sequence-function mapping. <i>Nature Communications</i> , 2020, 11, 3551.	13.2	45
39	Detailed simulation of cancer exome sequencing data reveals differences and common limitations of variant callers. <i>BMC Bioinformatics</i> , 2017, 18, 8.	2.7	41
40	Tead transcription factors differentially regulate cortical development. <i>Scientific Reports</i> , 2020, 10, 4625.	3.4	41
41	On the Cutting Edge: Teaching Help for Geoscience Faculty. <i>Science</i> , 2010, 327, 1095-1096.	20.9	40
42	Comparative genomics of <i>Mycobacterium africanum</i> Lineage 5 and Lineage 6 from Ghana suggests distinct ecological niches. <i>Scientific Reports</i> , 2018, 8, 11269.	3.4	39
43	Quantification of the spread of SARS-CoV-2 variant B.1.1.7 in Switzerland. <i>Epidemics</i> , 2021, 37, 100480.	3.0	37
44	Profiling of adhesive-related genes in the freshwater cnidarian <i>Hydra magnipapillata</i> by transcriptomics and proteomics. <i>Biofouling</i> , 2016, 32, 1115-1129.	2.2	36
45	Positional RNA-Seq identifies candidate genes for phenotypic engineering of sexual traits. <i>Frontiers in Zoology</i> , 2015, 12, 14.	2.1	34
46	Multiple Introductions of <i>Mycobacterium tuberculosis</i> Lineage 2 "Beijing" Into Africa Over Centuries. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.3	34
47	The tune of want in the loneliness melody " Loneliness experienced by people with serious mental suffering. <i>Scandinavian Journal of Caring Sciences</i> , 2008, 22, 161-169.	2.2	32
48	The BET protein FSH functionally interacts with ASH1 to orchestrate global gene activity in <i>Drosophila</i> . <i>Genome Biology</i> , 2013, 14, R18.	9.2	30
49	Organ specific gene expression in the regenerating tail of <i>Macrostomum lignano</i> . <i>Developmental Biology</i> , 2018, 433, 448-460.	2.1	30
50	TGF- $\beta$ 2 induces oncofetal fibronectin that, in turn, modulates TGF- $\beta$ 2 superfamily signaling in endothelial cells. <i>Journal of Cell Science</i> , 2018, 131, .	2.1	29
51	Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.8	29
52	Local adaptation in populations of <i>Mycobacterium tuberculosis</i> endemic to the Indian Ocean Rim. <i>F1000Research</i> , 2021, 10, 60.	1.6	29
53	<i>JAK2</i> -V617F and interferon- $\gamma$ induce megakaryocyte-biased stem cells characterized by decreased long-term functionality. <i>Blood</i> , 2021, 137, 2139-2151.	1.4	29
54	NGS-pipe: a flexible, easily extendable and highly configurable framework for NGS analysis. <i>Bioinformatics</i> , 2018, 34, 107-108.	4.2	26

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55	The relative transmission fitness of multidrug-resistant Mycobacterium tuberculosis in a drug resistance hotspot. Nature Communications, 2023, 14, .	13.2	26
56	Rantes secreted from macrophages disturbs skeletal muscle regeneration after cardiotoxin injection in <i>Cblb</i> -deficient mice. Muscle and Nerve, 2011, 43, 223-229.	2.3	25
57	Single-cell mRNA profiling reveals the hierarchical response of miRNA targets to miRNA induction. Molecular Systems Biology, 2018, 14, e8266.	7.5	25
58	Spreading Shape and Area Regulate the Osteogenesis of Mesenchymal Stem Cells. Tissue Engineering and Regenerative Medicine, 2019, 16, 573-583.	3.8	22
59	Controlled release of proteins from degradable poly(ether-ester) multiblock copolymers. Journal of Controlled Release, 2005, 101, 175-186.	10.2	21
60	Relating tissue specialization to the differentiation of expression of singleton and duplicate mouse proteins. Genome Biology, 2006, 7, R89.	7.3	21
61	SwissMTB: establishing comprehensive molecular cancer diagnostics in Swiss clinics. BMC Medical Informatics and Decision Making, 2018, 18, 89.	3.1	20
62	Swiss public health measures associated with reduced SARS-CoV-2 transmission using genome data. Science Translational Medicine, 2023, 15, .	13.4	18
63	Convergent network effects along the axis of gene expression during prostate cancer progression. Genome Biology, 2020, 21, 302.	9.2	17
64	Family context assessment in a public health study. Gaceta Sanitaria, 2014, 28, 356-362.	1.5	15
65	Temporary adhesion of the proseriate flatworm <i>Minona ileanae</i> . Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190194.	4.2	15
66	Local adaptation in populations of Mycobacterium tuberculosis endemic to the Indian Ocean Rim. F1000Research, 2021, 10, 60.	1.6	15
67	Large-scale phylogenomics of the genus Macrostomum (Platyhelminthes) reveals cryptic diversity and novel sexual traits. Molecular Phylogenetics and Evolution, 2022, 166, 107296.	2.9	15
68	Measurement of the inclusive $J/\psi$ polarization at forward rapidity in pp collisions at $\sqrt{s} = 8$ s. European Physical Journal C, 2018, 78, 1.	4.0	14
69	RNA-Seq of three free-living flatworm species suggests rapid evolution of reproduction-related genes. BMC Genomics, 2020, 21, 462.	2.9	13
70	Modelling a Radio Admission Control Scheme for Video Telephony Service in Wireless Networks. Lecture Notes in Computer Science, 2012, , 208-215.	1.0	12
71	Shortened postpartum magnesium sulfate treatment vs traditional 24h for severe preeclampsia: a systematic review and meta-analysis of randomized trials. Hypertension in Pregnancy, 2020, 39, 186-195.	1.1	12
72	Selection of Sodium Salt Electrolyte Compatible with $\text{Na}_{0.67}\text{Ni}_{0.15}\text{Fe}_{0.2}\text{Mn}_{0.65}\text{O}_2$ Cathode for Sodium-Ion Batteries. Energy Technology, 2021, 9, 2100190.	3.8	12

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73	The Sputum Microbiome in Pulmonary Tuberculosis and Its Association With Disease Manifestations: A Cross-Sectional Study. <i>Frontiers in Microbiology</i> , 2021, 12, 633396.	3.6	12
74	Potential contribution of HIV during first-line tuberculosis treatment to subsequent rifampicin-monoresistant tuberculosis and acquired tuberculosis drug resistance in South Africa: a retrospective molecular epidemiology study. <i>Lancet Microbe</i> , The, 2021, 2, e584-e593.	6.7	11
75	Spatial Distribution of Private Gene Mutations in Clear Cell Renal Cell Carcinoma. <i>Cancers</i> , 2021, 13, 2163.	3.8	10
76	Sexual Perfectionism in Women: Not as Simple as Adaptive or Maladaptive. <i>Archives of Sexual Behavior</i> , 2016, 45, 2015-2027.	2.2	9
77	Exome sequencing of healthy phenotypic extremes links TROVE2 to emotional memory and PTSD. <i>Nature Human Behaviour</i> , 2017, 1, .	12.6	9
78	The Complexity of Some Classes of Pyramid Graphs Created from a Gear Graph. <i>Symmetry</i> , 2018, 10, 689.	2.3	9
79	SAME-SEX RELATIONS AND LEGAL TRADITIONS IN CAMEROON AND SOUTH AFRICA. <i>Journal of Law and Religion</i> , 2021, 36, 130-147.	0.1	9
80	Binding Profiles of Chromatin-Modifying Proteins Are Predictive for Transcriptional Activity and Promoter-Proximal Pausing. <i>Journal of Computational Biology</i> , 2012, 19, 126-138.	1.7	8
81	A Comparative Analysis of Equations to Estimate Patient Energy Requirements Following Cardiopulmonary Bypass for Correction of Congenital Heart Disease. <i>Journal of Parenteral and Enteral Nutrition</i> , 2020, 44, 444-453.	2.7	8
82	Statistical tests for intra-tumour clonal co-occurrence and exclusivity. <i>PLoS Computational Biology</i> , 2021, 17, e1009036.	3.1	8
83	Contributions to the orchid flora of Thailand XIV. <i>Nordic Journal of Botany</i> , 2002, 22, 525-534.	0.5	7
84	Expression Dysregulation as a Mediator of Fitness Costs in Antibiotic Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0050421.	3.4	7
85	Determining In-Situ Stress State by Anelastic Strain Recovery Method Beneath Xiamen: Implications for the Coastal Region of Southeastern China. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5687-5703.	5.3	7
86	Pyrolysis-GLC applied to composition analysis, general characterisation and the detailed specification of polymers. <i>British Polymer Journal</i> , 1989, 21, 23-30.	0.7	6
87	Hydrophobic plastics films synthesis by mean of agaroid acylation with lauroyl chloride in the N,N-dimethylacetamide homogeneous system. <i>Journal of Applied Phycology</i> , 2007, 19, 1-13.	2.9	6
88	Extraction of high-contrast diffraction patterns of fine-structured electrical sparks from laser shadowgrams. <i>Optics Express</i> , 2021, 29, 14941.	3.4	6
89	Temporal and sequential transcriptional dynamics define lineage shifts in corticogenesis. <i>EMBO Journal</i> , 2022, 41, .	8.2	6
90	Restoration of peat dome in ex-Mega rice project area in Central Kalimantan. <i>AIP Conference Proceedings</i> , 2018, , .	1.0	5

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91	DeepSARS: simultaneous diagnostic detection and genomic surveillance of SARS-CoV-2. BMC Genomics, 2022, 23, 289.	2.9	5
92	Detection of isoforms and genomic alterations by high-throughput full-length single-cell RNA sequencing in ovarian cancer. Nature Communications, 2023, 14, .	13.2	5
93	Live slow-frozen human tumor tissues viable for 2D, 3D, ex vivo cultures and single-cell RNAseq. Communications Biology, 2022, 5, .	4.5	4
94	Dissection of gene regulatory networks in embryonic stem cells by means of high-throughput sequencing. Biological Chemistry, 2009, 390, 1139-1144.	2.6	3
95	Tone deaf: Association of an auditory stimulus with predation risk by zebrafish <i>Danio rerio</i> does not generalize to another auditory stimulus. Behavioural Processes, 2021, 189, 104421.	1.1	3
96	Dynamic thresholding and tissue dissociation optimization for CITE-seq identifies differential surface protein abundance in metastatic melanoma. Communications Biology, 2023, 6, .	4.5	3
97	Humanism and Cancer. Ca-A Cancer Journal for Clinicians, 1972, 22, 386-387.	260.6	2
98	Factors Associated with Morbidity and Mortality Among Sexually Active Asian Adolescents and Young Adults with Perinatally Acquired HIV. AIDS Research and Human Retroviruses, 2023, 39, 285-293.	1.2	2
99	Synthesis and structure of the [Co(NioxH)2(Thio)2]2SO4·2H2O complex compound. Journal of Structural Chemistry, 2005, 46, 488-493.	1.0	1
100	The effects of single-walled carbon nanotubes on cancer cell migration using a pancreatic tumor model. Proceedings of SPIE, 2017, , .	1.0	1
101	PENGOLAHAN IKAN NILA MENJADI ABON IKAN NILA DI DESA DUMAN KECAMATAN LINGSAR LOMBOK BARAT. Jurnal Abdimas Sangkabira, 2021, 1, 131-144.	0.0	1
102	Performance evaluation of polarization shift keying modulation systems. , 1990, , .		1
103	Le r�cit de guerre : narration et focalisation dans la D�clet. Litterature, 1983, 50, 77-90.	0.1	1
104	Tracking and characterization of partial and full epithelial-mesenchymal transition cells in a mouse model of metastatic breast cancer. STAR Protocols, 2022, 3, 101438.	0.7	1
105	Ptosis Surgery: Comparing Different Surgical Techniques. , 2011, , 263-268.		0
106	Decretum de vetita clericis et religiosis negotiatitone et mercatura. , 1950, 5, 1077-1078.		0
107	ANALYSIS OF ABNORMALITIES IN COMMON CAROTID ARTERY IMAGES USING MULTIWAVELETS. ICTACT Journal on Image and Video Processing, 2016, 7, 1345-1350.	0.1	0
108	Cerebral Artery Reactivity in Adult APOE3 and APOE4 Mice. FASEB Journal, 2019, 33, lb454.	0.5	0

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109	Executive policy-making. , 0, , 101-132.		0
110	Current Attitudes Toward Neuroanatomy: A Comparative Cross-Sectional Survey of Neurosurgeons from the United Kingdom and Worldwide. World Neurosurgery, 2022, 166, e607-e623.	1.5	0