

Martin Kircher

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

20,725
citations

43
h-index

90
g-index

90
ext. papers

26,381
ext. citations

14.3
avg, IF


6.9
L-index

| # | Paper | IF | Citations |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 76 | A framework to score the effects of structural variants in health and disease.. <i>Genome Research</i> , 2022 , | 9.7 | 2 |
| 75 | CADD-Splice-improving genome-wide variant effect prediction using deep learning-derived splice scores. <i>Genome Medicine</i> , 2021 , 13, 31 | 14.4 | 64 |
| 74 | HemoMIPs-Automated analysis and result reporting pipeline for targeted sequencing data. <i>PLoS Computational Biology</i> , 2020 , 16, e1007956 | 5 | 0 |
| 73 | lentiMPRA and MPRAflow for high-throughput functional characterization of gene regulatory elements. <i>Nature Protocols</i> , 2020 , 15, 2387-2412 | 18.8 | 17 |
| 72 | Bayesian Optimization Improves Tissue-Specific Prediction of Active Regulatory Regions with Deep Neural Networks. <i>Lecture Notes in Computer Science</i> , 2020 , 600-612 | 0.9 | 0 |
| 71 | The impact of different negative training data on regulatory sequence predictions. <i>PLoS ONE</i> , 2020 , 15, e0237412 | 3.7 | 0 |
| 70 | A systematic evaluation of the design and context dependencies of massively parallel reporter assays. <i>Nature Methods</i> , 2020 , 17, 1083-1091 | 21.6 | 28 |
| 69 | Integration of multiple epigenomic marks improves prediction of variant impact in saturation mutagenesis reporter assay. <i>Human Mutation</i> , 2019 , 40, 1280-1291 | 4.7 | 19 |
| 68 | Mutations in the translocon-associated protein complex subunit SSR3 cause a novel congenital disorder of glycosylation. <i>Journal of Inherited Metabolic Disease</i> , 2019 , 42, 993-997 | 5.4 | 10 |
| 67 | DPAGT1 Deficiency with Encephalopathy (DPAGT1-CDG): Clinical and Genetic Description of 11 New Patients. <i>JIMD Reports</i> , 2019 , 44, 85-92 | 1.9 | 11 |
| 66 | Saturation mutagenesis of twenty disease-associated regulatory elements at single base-pair resolution. <i>Nature Communications</i> , 2019 , 10, 3583 | 17.4 | 71 |
| 65 | Concurrent genome and epigenome editing by CRISPR-mediated sequence replacement. <i>BMC Biology</i> , 2019 , 17, 90 | 7.3 | 6 |
| 64 | CADD: predicting the deleteriousness of variants throughout the human genome. <i>Nucleic Acids Research</i> , 2019 , 47, D886-D894 | 20.1 | 1165 |
| 63 | GGC Repeat Expansion and Exon 1 Methylation of XYLT1 Is a Common Pathogenic Variant in Baratela-Scott Syndrome. <i>American Journal of Human Genetics</i> , 2019 , 104, 35-44 | 11 | 47 |
| 62 | Mutations in the fourth Epropeller domain of LRP4 are associated with isolated syndactyly with fusion of the third and fourth fingers. <i>Human Mutation</i> , 2018 , 39, 811-815 | 4.7 | 11 |
| 61 | Bi-allelic POLR3A Loss-of-Function Variants Cause Autosomal-Recessive Wiedemann-Rautenstrauch Syndrome. <i>American Journal of Human Genetics</i> , 2018 , 103, 968-975 | 11 | 28 |
| 60 | Multiplex assessment of protein variant abundance by massively parallel sequencing. <i>Nature Genetics</i> , 2018 , 50, 874-882 | 36.3 | 163 |

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| 59 | Activation of a cryptic splice site in the mitochondrial elongation factor GFM1 causes combined OXPHOS deficiency. <i>Mitochondrion</i> , 2017 , 34, 84-90 | 4.9 | 16 |
| 58 | Molecular outcomes, clinical consequences, and genetic diagnosis of Oculocutaneous Albinism in Pakistani population. <i>Scientific Reports</i> , 2017 , 7, 44185 | 4.9 | 15 |
| 57 | The evolutionary and phylogeographic history of woolly mammoths: a comprehensive mitogenomic analysis. <i>Scientific Reports</i> , 2017 , 7, 44585 | 4.9 | 34 |
| 56 | Encephalopathy caused by novel mutations in the CMP-sialic acid transporter, SLC35A1. <i>American Journal of Medical Genetics, Part A</i> , 2017 , 173, 2906-2911 | 2.5 | 16 |
| 55 | A systematic comparison reveals substantial differences in chromosomal versus episomal encoding of enhancer activity. <i>Genome Research</i> , 2017 , 27, 38-52 | 9.7 | 148 |
| 54 | Novel approach to genetic analysis and results in 3000 hemophilia patients enrolled in the My Life, Our Future initiative. <i>Blood Advances</i> , 2017 , 1, 824-834 | 7.8 | 52 |
| 53 | Cell-free DNA Comprises an In Vivo Nucleosome Footprint that Informs Its Tissues-Of-Origin. <i>Cell</i> , 2016 , 164, 57-68 | 56.2 | 664 |
| 52 | Accelerating matchmaking of novel dysmorphology syndromes through clinical and genomic characterization of a large cohort. <i>Genetics in Medicine</i> , 2016 , 18, 686-95 | 8.1 | 35 |
| 51 | Ancient gene flow from early modern humans into Eastern Neanderthals. <i>Nature</i> , 2016 , 530, 429-33 | 50.4 | 269 |
| 50 | -associated developmental disorders exhibit distinct classes of mutations with variable expression and tissue distribution. <i>JCI Insight</i> , 2016 , 1, | 9.9 | 90 |
| 49 | ALG1-CDG: Clinical and Molecular Characterization of 39 Unreported Patients. <i>Human Mutation</i> , 2016 , 37, 653-60 | 4.7 | 30 |
| 48 | Expanding the clinical and genetic heterogeneity of hereditary disorders of connective tissue. <i>Human Genetics</i> , 2016 , 135, 525-540 | 6.3 | 61 |
| 47 | SRD5A3-CDG: Expanding the phenotype of a congenital disorder of glycosylation with emphasis on adult onset features. <i>American Journal of Medical Genetics, Part A</i> , 2016 , 170, 3165-3171 | 2.5 | 16 |
| 46 | Biallelic mutations in BRCA1 cause a new Fanconi anemia subtype. <i>Cancer Discovery</i> , 2015 , 5, 135-42 | 24.4 | 215 |
| 45 | Running spell-check to identify regulatory variants. <i>Nature Genetics</i> , 2015 , 47, 853-5 | 36.3 | 5 |
| 44 | The Genetic Basis of Mendelian Phenotypes: Discoveries, Challenges, and Opportunities. <i>American Journal of Human Genetics</i> , 2015 , 97, 199-215 | 11 | 432 |
| 43 | Exome sequencing reveals pathogenic mutations in 91 strains of mice with Mendelian disorders. <i>Genome Research</i> , 2015 , 25, 948-57 | 9.7 | 38 |
| 42 | Autosomal-Dominant Multiple Pterygium Syndrome Is Caused by Mutations in MYH3. <i>American Journal of Human Genetics</i> , 2015 , 96, 841-9 | 11 | 36 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 41 | Challenges and solutions for gene identification in the presence of familial locus heterogeneity. <i>European Journal of Human Genetics</i> , 2015 , 23, 1207-15 | 5.3 | 29 |
| 40 | Expanding the Molecular and Clinical Phenotype of SSR4-CDG. <i>Human Mutation</i> , 2015 , 36, 1048-51 | 4.7 | 15 |
| 39 | Whole exome sequencing identifies de novo heterozygous CAV1 mutations associated with a novel neonatal onset lipodystrophy syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2015 , 167A, 1796-806 | 3.5 | 49 |
| 38 | De novo mutations in NALCN cause a syndrome characterized by congenital contractures of the limbs and face, hypotonia, and developmental delay. <i>American Journal of Human Genetics</i> , 2015 , 96, 462-73 | 11 | 91 |
| 37 | Evaluating intra- and inter-individual variation in the human placental transcriptome. <i>Genome Biology</i> , 2015 , 16, 54 | 18.3 | 43 |
| 36 | Patterns of coding variation in the complete exomes of three Neandertals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6666-71 | 11.5 | 175 |
| 35 | Characterization of ancient and modern genomes by SNP detection and phylogenomic and metagenomic analysis using PALEOMIX. <i>Nature Protocols</i> , 2014 , 9, 1056-82 | 18.8 | 231 |
| 34 | The complete genome sequence of a Neanderthal from the Altai Mountains. <i>Nature</i> , 2014 , 505, 43-9 | 50.4 | 1339 |
| 33 | A new congenital disorder of glycosylation caused by a mutation in SSR4, the signal sequence receptor 4 protein of the TRAP complex. <i>Human Molecular Genetics</i> , 2014 , 23, 1602-5 | 5.6 | 33 |
| 32 | A general framework for estimating the relative pathogenicity of human genetic variants. <i>Nature Genetics</i> , 2014 , 46, 310-5 | 36.3 | 3626 |
| 31 | Somatic mutations in cerebral cortical malformations. <i>New England Journal of Medicine</i> , 2014 , 371, 733-43 | 43.2 | 265 |
| 30 | Mutations in RSPH1 cause primary ciliary dyskinesia with a unique clinical and ciliary phenotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 707-17 | 10.2 | 139 |
| 29 | The earliest transcribed zygotic genes are short, newly evolved, and different across species. <i>Cell Reports</i> , 2014 , 6, 285-92 | 10.6 | 121 |
| 28 | Primate iPS cells as tools for evolutionary analyses. <i>Stem Cell Research</i> , 2014 , 12, 622-9 | 1.6 | 41 |
| 27 | Mosaicism of the UDP-galactose transporter SLC35A2 causes a congenital disorder of glycosylation. <i>American Journal of Human Genetics</i> , 2013 , 92, 632-6 | 11 | 93 |
| 26 | Comparative population genomics of the ejaculate in humans and the great apes. <i>Molecular Biology and Evolution</i> , 2013 , 30, 964-76 | 8.3 | 34 |
| 25 | freelbis: an efficient basecaller with calibrated quality scores for Illumina sequencers. <i>Bioinformatics</i> , 2013 , 29, 1208-9 | 7.2 | 68 |
| 24 | Opsins in onychophora (velvet worms) suggest a single origin and subsequent diversification of visual pigments in arthropods. <i>Molecular Biology and Evolution</i> , 2012 , 29, 3451-8 | 8.3 | 49 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 23 | A high-coverage genome sequence from an archaic Denisovan individual. <i>Science</i> , 2012 , 338, 222-6 | 33.3 | 1276 |
| 22 | Analysis of high-throughput ancient DNA sequencing data. <i>Methods in Molecular Biology</i> , 2012 , 840, 197-228 | | 129 |
| 21 | Double indexing overcomes inaccuracies in multiplex sequencing on the Illumina platform. <i>Nucleic Acids Research</i> , 2012 , 40, e3 | 20.1 | 681 |
| 20 | Transcriptomes of germinal zones of human and mouse fetal neocortex suggest a role of extracellular matrix in progenitor self-renewal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 11836-41 | 11.5 | 215 |
| 19 | Deep proteome and transcriptome mapping of a human cancer cell line. <i>Molecular Systems Biology</i> , 2011 , 7, 548 | 12.2 | 723 |
| 18 | The evolution of gene expression levels in mammalian organs. <i>Nature</i> , 2011 , 478, 343-8 | 50.4 | 787 |
| 17 | Denisova admixture and the first modern human dispersals into Southeast Asia and Oceania. <i>American Journal of Human Genetics</i> , 2011 , 89, 516-28 | 11 | 390 |
| 16 | Addressing challenges in the production and analysis of illumina sequencing data. <i>BMC Genomics</i> , 2011 , 12, 382 | 4.5 | 99 |
| 15 | Genetic history of an archaic hominin group from Denisova Cave in Siberia. <i>Nature</i> , 2010 , 468, 1053-60 | 50.4 | 1169 |
| 14 | Road blocks on paleogenomes--polymerase extension profiling reveals the frequency of blocking lesions in ancient DNA. <i>Nucleic Acids Research</i> , 2010 , 38, e161 | 20.1 | 43 |
| 13 | Removal of deaminated cytosines and detection of in vivo methylation in ancient DNA. <i>Nucleic Acids Research</i> , 2010 , 38, e87 | 20.1 | 283 |
| 12 | A draft sequence of the Neandertal genome. <i>Science</i> , 2010 , 328, 710-722 | 33.3 | 2599 |
| 11 | Illumina sequencing library preparation for highly multiplexed target capture and sequencing. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5448 | 1.2 | 1195 |
| 10 | A complete mtDNA genome of an early modern human from Kostenki, Russia. <i>Current Biology</i> , 2010 , 20, 231-6 | 6.3 | 213 |
| 9 | High-throughput DNA sequencing--concepts and limitations. <i>BioEssays</i> , 2010 , 32, 524-36 | 4.1 | 397 |
| 8 | Improved base calling for the Illumina Genome Analyzer using machine learning strategies. <i>Genome Biology</i> , 2009 , 10, R83 | 18.3 | 188 |
| 7 | Structural conservation versus functional divergence of maternally expressed microRNAs in the Dlk1/Gtl2 imprinting region. <i>BMC Genomics</i> , 2008 , 9, 346 | 4.5 | 45 |
| 6 | Saturation mutagenesis of disease-associated regulatory elements | | 2 |

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| 5 | Multiplex Assessment of Protein Variant Abundance by Massively Parallel Sequencing | 5 |
| 4 | Massively parallel dissection of human accelerated regions in human and chimpanzee neural progenitors | 18 |
| 3 | A systematic evaluation of the design, orientation, and sequence context dependencies of massively parallel reporter assays | 8 |
| 2 | A systematic comparison reveals substantial differences in chromosomal versus episomal encoding of enhancer activity | 1 |
| 1 | CADD-SV  framework to score the effects of structural variants in health and disease | 1 |