

Francis S Collins

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.

125
papers

59,979
citations

69
h-index

141
g-index

141
ext. papers

70,487
ext. citations

22.2
avg, IF

6.67
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 125 | Genome-wide association studies of metabolites in Finnish men identify disease-relevant loci.. <i>Nature Communications</i> , 2022 , 13, 1644 | 17.4 | 5 |
| 124 | Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation.. <i>Nature Genetics</i> , 2022 , | 36.3 | 7 |
| 123 | TUBB3 Arg262His causes a recognizable syndrome including CFEOM3, facial palsy, joint contractures, and early-onset peripheral neuropathy. <i>Human Genetics</i> , 2021 , 140, 1709-1731 | 6.3 | 1 |
| 122 | Update on and Future Directions for Use of Anti-SARS-CoV-2 Antibodies: National Institutes of Health Summit on Treatment and Prevention of COVID-19. <i>Annals of Internal Medicine</i> , 2021 , | 8 | 3 |
| 121 | A targeted antisense therapeutic approach for Hutchinson-Gilford progeria syndrome. <i>Nature Medicine</i> , 2021 , 27, 536-545 | 50.5 | 17 |
| 120 | A Transcription Start Site Map in Human Pancreatic Islets Reveals Functional Regulatory Signatures. <i>Diabetes</i> , 2021 , 70, 1581-1591 | 0.9 | 1 |
| 119 | The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , 2021 , 53, 840-860 | 36.3 | 44 |
| 118 | Affirming NIH's commitment to addressing structural racism in the biomedical research enterprise. <i>Cell</i> , 2021 , 184, 3075-3079 | 56.2 | 23 |
| 117 | In vivo base editing rescues Hutchinson-Gilford progeria syndrome in mice. <i>Nature</i> , 2021 , 589, 608-614 | 50.4 | 92 |
| 116 | Genetic reduction of mTOR extends lifespan in a mouse model of Hutchinson-Gilford Progeria syndrome. <i>Aging Cell</i> , 2021 , 20, e13457 | 9.9 | 5 |
| 115 | Differentiating Moebius syndrome and other congenital facial weakness disorders with electrodiagnostic studies. <i>Muscle and Nerve</i> , 2021 , 63, 516-524 | 3.4 | 2 |
| 114 | Evaluation of musculoskeletal phenotype of the G608G progeria mouse model with lonafarnib, pravastatin, and zoledronic acid as treatment groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12029-12040 | 11.5 | 13 |
| 113 | Brain phenotyping in Moebius syndrome and other congenital facial weakness disorders by diffusion MRI morphometry. <i>Brain Communications</i> , 2020 , 2, fcaa014 | 4.5 | 3 |
| 112 | Genetic variant effects on gene expression in human pancreatic islets and their implications for T2D. <i>Nature Communications</i> , 2020 , 11, 4912 | 17.4 | 30 |
| 111 | ACE2 expression in adipose tissue is associated with COVID-19 cardio-metabolic risk factors and cell type composition 2020 , | | 4 |
| 110 | Single-cell ATAC-Seq in human pancreatic islets and deep learning upscaling of rare cells reveals cell-specific type 2 diabetes regulatory signatures. <i>Molecular Metabolism</i> , 2020 , 32, 109-121 | 8.8 | 46 |
| 109 | Adiponectin GWAS loci harboring extensive allelic heterogeneity exhibit distinct molecular consequences. <i>PLoS Genetics</i> , 2020 , 16, e1009019 | 6 | 3 |

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| 108 | Single-cell transcriptomics from human pancreatic islets: sample preparation matters. <i>Biology Methods and Protocols</i> , 2020 , 5, bpz019 | 2.4 | 6 |
| 107 | Transient induction of telomerase expression mediates senescence and reduces tumorigenesis in primary fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18983-18993 | 11.5 | 7 |
| 106 | Adipose Tissue Gene Expression Associations Reveal Hundreds of Candidate Genes for Cardiometabolic Traits. <i>American Journal of Human Genetics</i> , 2019 , 105, 773-787 | 11 | 20 |
| 105 | Exome sequencing of 20,791 cases of type 2 diabetes and 24,440 controls. <i>Nature</i> , 2019 , 570, 71-76 | 50.4 | 129 |
| 104 | Hydroa vacciniforme-like lymphoproliferative disorder: an EBV disease with a low risk of systemic illness in whites. <i>Blood</i> , 2019 , 133, 2753-2764 | 2.2 | 28 |
| 103 | Integrative analysis of gene expression, DNA methylation, physiological traits, and genetic variation in human skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10883-10888 | 11.5 | 54 |
| 102 | A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. <i>Human Molecular Genetics</i> , 2019 , 28, 2615-2633 | 5.6 | 14 |
| 101 | Analysis of somatic mutations identifies signs of selection during in vitro aging of primary dermal fibroblasts. <i>Aging Cell</i> , 2019 , 18, e13010 | 9.9 | 3 |
| 100 | Associations of autozygosity with a broad range of human phenotypes. <i>Nature Communications</i> , 2019 , 10, 4957 | 17.4 | 40 |
| 99 | Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. <i>Nature Genetics</i> , 2019 , 51, 452-469 | 36.3 | 44 |
| 98 | Multiomic Profiling Identifies cis-Regulatory Networks Underlying Human Pancreatic Cell Identity and Function. <i>Cell Reports</i> , 2019 , 26, 788-801.e6 | 10.6 | 28 |
| 97 | Identification of seven novel loci associated with amino acid levels using single-variant and gene-based tests in 8545 Finnish men from the METSIM study. <i>Human Molecular Genetics</i> , 2018 , 27, 1664-1674 | 5.6 | 20 |
| 96 | Refining the accuracy of validated target identification through coding variant fine-mapping in type 2 diabetes. <i>Nature Genetics</i> , 2018 , 50, 559-571 | 36.3 | 221 |
| 95 | A Large-Scale Multi-ancestry Genome-wide Study Accounting for Smoking Behavior Identifies Multiple Significant Loci for Blood Pressure. <i>American Journal of Human Genetics</i> , 2018 , 102, 375-400 | 11 | 59 |
| 94 | Biotinylation by antibody recognition-a method for proximity labeling. <i>Nature Methods</i> , 2018 , 15, 127-132 | 1.6 | 54 |
| 93 | Everolimus rescues multiple cellular defects in laminopathy-patient fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4206-4211 | 11.5 | 29 |
| 92 | Addendum: Biotinylation by antibody recognition-a method for proximity labeling. <i>Nature Methods</i> , 2018 , 15, 749 | 21.6 | 3 |
| 91 | Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. <i>Nature Genetics</i> , 2018 , 50, 26-41 | 36.3 | 186 |

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|----|---|------|-----|
| 90 | Fine-mapping type 2 diabetes loci to single-variant resolution using high-density imputation and islet-specific epigenome maps. <i>Nature Genetics</i> , 2018 , 50, 1505-1513 | 36.3 | 675 |
| 89 | Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits. <i>Nature Genetics</i> , 2018 , 50, 1412-1425 | 36.3 | 386 |
| 88 | Interactions between genetic variation and cellular environment in skeletal muscle gene expression. <i>PLoS ONE</i> , 2018 , 13, e0195788 | 3.7 | 9 |
| 87 | The Metabolic Syndrome in Men study: a resource for studies of metabolic and cardiovascular diseases. <i>Journal of Lipid Research</i> , 2017 , 58, 481-493 | 6.3 | 77 |
| 86 | Rare and low-frequency coding variants alter human adult height. <i>Nature</i> , 2017 , 542, 186-190 | 50.4 | 412 |
| 85 | Genetic Regulation of Adipose Gene Expression and Cardio-Metabolic Traits. <i>American Journal of Human Genetics</i> , 2017 , 100, 428-443 | 11 | 87 |
| 84 | Genetic regulatory signatures underlying islet gene expression and type 2 diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2301-2306 | 11.5 | 132 |
| 83 | A novel somatic mutation achieves partial rescue in a child with Hutchinson-Gilford progeria syndrome. <i>Journal of Medical Genetics</i> , 2017 , 54, 212-216 | 5.8 | 14 |
| 82 | A Genome-Wide Association Study of IVGTT-Based Measures of First-Phase Insulin Secretion Refines the Underlying Physiology of Type 2 Diabetes Variants. <i>Diabetes</i> , 2017 , 66, 2296-2309 | 0.9 | 69 |
| 81 | Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. <i>Nature Communications</i> , 2017 , 8, 14977 | 17.4 | 105 |
| 80 | A Low-Frequency Inactivating Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. <i>Diabetes</i> , 2017 , 66, 2019-2032 | 0.9 | 29 |
| 79 | Novel Blood Pressure Locus and Gene Discovery Using Genome-Wide Association Study and Expression Data Sets From Blood and the Kidney. <i>Hypertension</i> , 2017 , | 8.5 | 85 |
| 78 | Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. <i>Nature Communications</i> , 2017 , 8, 80 | 17.4 | 88 |
| 77 | A Type 2 Diabetes-Associated Functional Regulatory Variant in a Pancreatic Islet Enhancer at the Locus. <i>Diabetes</i> , 2017 , 66, 2521-2530 | 0.9 | 37 |
| 76 | A defect in myoblast fusion underlies Carey-Fineman-Ziter syndrome. <i>Nature Communications</i> , 2017 , 8, 16077 | 17.4 | 51 |
| 75 | Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. <i>Scientific Data</i> , 2017 , 4, 170179 | 8.2 | 22 |
| 74 | Genome-wide physical activity interactions in adiposity - A meta-analysis of 200,452 adults. <i>PLoS Genetics</i> , 2017 , 13, e1006528 | 6 | 103 |
| 73 | Common, low-frequency, and rare genetic variants associated with lipoprotein subclasses and triglyceride measures in Finnish men from the METSIM study. <i>PLoS Genetics</i> , 2017 , 13, e1007079 | 6 | 33 |

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|----|--|------|------|
| 72 | A reference panel of 64,976 haplotypes for genotype imputation. <i>Nature Genetics</i> , 2016 , 48, 1279-83 | 36.3 | 1447 |
| 71 | A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. <i>Nature Communications</i> , 2016 , 7, 13357 | 17.4 | 46 |
| 70 | Trans-ancestry meta-analyses identify rare and common variants associated with blood pressure and hypertension. <i>Nature Genetics</i> , 2016 , 48, 1151-1161 | 36.3 | 181 |
| 69 | The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. <i>Nature Genetics</i> , 2016 , 48, 1171-1184 | 36.3 | 251 |
| 68 | Genome-Wide Association Study of the Modified Stumvoll Insulin Sensitivity Index Identifies BCL2 and FAM19A2 as Novel Insulin Sensitivity Loci. <i>Diabetes</i> , 2016 , 65, 3200-11 | 0.9 | 47 |
| 67 | Basic science: Bedrock of progress. <i>Science</i> , 2016 , 351, 1405 | 33.3 | 20 |
| 66 | The genetic architecture of type 2 diabetes. <i>Nature</i> , 2016 , 536, 41-47 | 50.4 | 704 |
| 65 | The genetic regulatory signature of type 2 diabetes in human skeletal muscle. <i>Nature Communications</i> , 2016 , 7, 11764 | 17.4 | 82 |
| 64 | Directional dominance on stature and cognition in diverse human populations. <i>Nature</i> , 2015 , 523, 459-462 | 50.4 | 119 |
| 63 | Identification and functional characterization of G6PC2 coding variants influencing glycemic traits define an effector transcript at the G6PC2-ABCB11 locus. <i>PLoS Genetics</i> , 2015 , 11, e1004876 | 6 | 76 |
| 62 | Motif signatures in stretch enhancers are enriched for disease-associated genetic variants. <i>Epigenetics and Chromatin</i> , 2015 , 8, 23 | 5.8 | 22 |
| 61 | The Influence of Age and Sex on Genetic Associations with Adult Body Size and Shape: A Large-Scale Genome-Wide Interaction Study. <i>PLoS Genetics</i> , 2015 , 11, e1005378 | 6 | 220 |
| 60 | Multiple Hepatic Regulatory Variants at the GALNT2 GWAS Locus Associated with High-Density Lipoprotein Cholesterol. <i>American Journal of Human Genetics</i> , 2015 , 97, 801-15 | 11 | 40 |
| 59 | New genetic loci link adipose and insulin biology to body fat distribution. <i>Nature</i> , 2015 , 518, 187-196 | 50.4 | 920 |
| 58 | Genetic studies of body mass index yield new insights for obesity biology. <i>Nature</i> , 2015 , 518, 197-206 | 50.4 | 2687 |
| 57 | Super-enhancers delineate disease-associated regulatory nodes in T cells. <i>Nature</i> , 2015 , 520, 558-62 | 50.4 | 247 |
| 56 | Funding transdisciplinary research. NIH Roadmap/Common Fund at 10 years. <i>Science</i> , 2014 , 345, 274-6 | 33.3 | 19 |
| 55 | Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. <i>Nature Genetics</i> , 2014 , 46, 234-44 | 36.3 | 784 |

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|----|---|------|------|
| 54 | Impact of type 2 diabetes susceptibility variants on quantitative glycemic traits reveals mechanistic heterogeneity. <i>Diabetes</i> , 2014 , 63, 2158-71 | 0.9 | 235 |
| 53 | Re-sequencing expands our understanding of the phenotypic impact of variants at GWAS loci. <i>PLoS Genetics</i> , 2014 , 10, e1004147 | 6 | 42 |
| 52 | Discovery and refinement of loci associated with lipid levels. <i>Nature Genetics</i> , 2013 , 45, 1274-1283 | 36.3 | 1904 |
| 51 | Biomedical research: strength from diversity. <i>Science</i> , 2013 , 342, 798 | 33.3 | 7 |
| 50 | Trans-ethnic fine-mapping of lipid loci identifies population-specific signals and allelic heterogeneity that increases the trait variance explained. <i>PLoS Genetics</i> , 2013 , 9, e1003379 | 6 | 94 |
| 49 | Use of microarray hybrid capture and next-generation sequencing to identify the anatomy of a transgene. <i>Nucleic Acids Research</i> , 2013 , 41, e70 | 20.1 | 36 |
| 48 | Chromatin stretch enhancer states drive cell-specific gene regulation and harbor human disease risk variants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17921-6 | 11.5 | 477 |
| 47 | Biomedical Research: Strength from Diversity. <i>Science</i> , 2013 , 342, 798-798 | 33.3 | 7 |
| 46 | Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. <i>Nature Genetics</i> , 2012 , 44, 981-90 | 36.3 | 1482 |
| 45 | A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. <i>Nature Genetics</i> , 2012 , 44, 659-69 | 36.3 | 615 |
| 44 | Novel loci for adiponectin levels and their influence on type 2 diabetes and metabolic traits: a multi-ethnic meta-analysis of 45,891 individuals. <i>PLoS Genetics</i> , 2012 , 8, e1002607 | 6 | 326 |
| 43 | Progeria: translational insights from cell biology. <i>Journal of Cell Biology</i> , 2012 , 199, 9-13 | 7.3 | 30 |
| 42 | Steering a new course for stem cell research: NIH's intramural Center for Regenerative Medicine. <i>Stem Cells Translational Medicine</i> , 2012 , 1, 15-7 | 6.9 | 11 |
| 41 | Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. <i>Nature Genetics</i> , 2012 , 44, 991-1005 | 36.3 | 621 |
| 40 | Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk. <i>Nature</i> , 2011 , 478, 103-9 | 50.4 | 1564 |
| 39 | Discovery of active enhancers through bidirectional expression of short transcripts. <i>Genome Biology</i> , 2011 , 12, R113 | 18.3 | 91 |
| 38 | Genome-wide association identifies nine common variants associated with fasting proinsulin levels and provides new insights into the pathophysiology of type 2 diabetes. <i>Diabetes</i> , 2011 , 60, 2624-34 | 0.9 | 285 |
| 37 | Mining for therapeutic gold. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 397 | 64.1 | 72 |

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|----|--|------|------|
| 36 | Rapamycin reverses cellular phenotypes and enhances mutant protein clearance in Hutchinson-Gilford progeria syndrome cells. <i>Science Translational Medicine</i> , 2011 , 3, 89ra58 | 17.5 | 241 |
| 35 | Reengineering translational science: the time is right. <i>Science Translational Medicine</i> , 2011 , 3, 90cm17 | 17.5 | 337 |
| 34 | Protein farnesylation inhibitors cause donut-shaped cell nuclei attributable to a centrosome separation defect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4997-5002 | 11.5 | 58 |
| 33 | Genome-wide association study identifies six new loci influencing pulse pressure and mean arterial pressure. <i>Nature Genetics</i> , 2011 , 43, 1005-11 | 36.3 | 338 |
| 32 | Biological, clinical and population relevance of 95 loci for blood lipids. <i>Nature</i> , 2010 , 466, 707-13 | 50.4 | 2742 |
| 31 | Has the revolution arrived?. <i>Nature</i> , 2010 , 464, 674-5 | 50.4 | 192 |
| 30 | Twelve type 2 diabetes susceptibility loci identified through large-scale association analysis. <i>Nature Genetics</i> , 2010 , 42, 579-89 | 36.3 | 1449 |
| 29 | Using science to improve the nation's health system: NIH's commitment to comparative effectiveness research. <i>JAMA - Journal of the American Medical Association</i> , 2010 , 303, 2182-3 | 27.4 | 80 |
| 28 | Patient-Centered Outcomes Research Institute: the intersection of science and health care. <i>Science Translational Medicine</i> , 2010 , 2, 37cm18 | 17.5 | 120 |
| 27 | Change, change, change: heeding the call. <i>Molecular Biology of the Cell</i> , 2010 , 21, 3793-4 | 3.5 | 1 |
| 26 | Research agenda. Opportunities for research and NIH. <i>Science</i> , 2010 , 327, 36-7 | 33.3 | 79 |
| 25 | Scientists need a shorter path to research freedom. <i>Nature</i> , 2010 , 467, 635 | 50.4 | 12 |
| 24 | The path to personalized medicine. <i>New England Journal of Medicine</i> , 2010 , 363, 301-4 | 59.2 | 1294 |
| 23 | Cardiovascular pathology in Hutchinson-Gilford progeria: correlation with the vascular pathology of aging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 2301-9 | 9.4 | 263 |
| 22 | Systematic comparison of three genomic enrichment methods for massively parallel DNA sequencing. <i>Genome Research</i> , 2010 , 20, 1420-31 | 9.7 | 175 |
| 21 | Common variants at 30 loci contribute to polygenic dyslipidemia. <i>Nature Genetics</i> , 2009 , 41, 56-65 | 36.3 | 1095 |
| 20 | A progeria mutation reveals functions for lamin A in nuclear assembly, architecture, and chromosome organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20788-93 | 11.5 | 157 |
| 19 | Potential etiologic and functional implications of genome-wide association loci for human diseases and traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9362-7 | 11.5 | 3120 |

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|----|---|------|-------|
| 18 | Newly identified loci that influence lipid concentrations and risk of coronary artery disease. <i>Nature Genetics</i> , 2008 , 40, 161-9 | 36.3 | 1304 |
| 17 | Toxicology. Transforming environmental health protection. <i>Science</i> , 2008 , 319, 906-7 | 33.3 | 478 |
| 16 | A farnesyltransferase inhibitor prevents both the onset and late progression of cardiovascular disease in a progeria mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15902-7 | 11.5 | 155 |
| 15 | Phenotype and course of Hutchinson-Gilford progeria syndrome. <i>New England Journal of Medicine</i> , 2008 , 358, 592-604 | 59.2 | 484 |
| 14 | The mutant form of lamin A that causes Hutchinson-Gilford progeria is a biomarker of cellular aging in human skin. <i>PLoS ONE</i> , 2007 , 2, e1269 | 3.7 | 259 |
| 13 | Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. <i>Nature</i> , 2007 , 447, 799-816 | 50.4 | 4121 |
| 12 | A lamin A protein isoform overexpressed in Hutchinson-Gilford progeria syndrome interferes with mitosis in progeria and normal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 4949-54 | 11.5 | 193 |
| 11 | Progressive vascular smooth muscle cell defects in a mouse model of Hutchinson-Gilford progeria syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3250-5 | 11.5 | 211 |
| 10 | Human laminopathies: nuclei gone genetically awry. <i>Nature Reviews Genetics</i> , 2006 , 7, 940-52 | 30.1 | 414 |
| 9 | Inhibiting farnesylation of progerin prevents the characteristic nuclear blebbing of Hutchinson-Gilford progeria syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12879-84 | 11.5 | 285 |
| 8 | The case for a US prospective cohort study of genes and environment. <i>Nature</i> , 2004 , 429, 475-7 | 50.4 | 217 |
| 7 | Accumulation of mutant lamin A causes progressive changes in nuclear architecture in Hutchinson-Gilford progeria syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 8963-8 | 11.5 | 812 |
| 6 | Recurrent de novo point mutations in lamin A cause Hutchinson-Gilford progeria syndrome. <i>Nature</i> , 2003 , 423, 293-8 | 50.4 | 1586 |
| 5 | The Human Genome Project: lessons from large-scale biology. <i>Science</i> , 2003 , 300, 286-90 | 33.3 | 717 |
| 4 | Initial sequencing and analysis of the human genome. <i>Nature</i> , 2001 , 409, 860-921 | 50.4 | 17366 |
| 3 | Linkage disequilibrium between microsatellite markers extends beyond 1 cM on chromosome 20 in Finns. <i>Genome Research</i> , 2001 , 11, 1221-6 | 9.7 | 51 |
| 2 | Influence of genetic variants on gene expression in human pancreatic islets ¶ Implications for type 2 diabetes | | 9 |
| 1 | Single cell ATAC-seq in human pancreatic islets and deep learning upscaling of rare cells reveals cell-specific type 2 diabetes regulatory signatures | | 1 |

