

# Francis S Collins

## List of Publications by Year in descending order

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Version: 2024-02-01

129  
papers

77,235  
citations

9254

74  
h-index

11928

134  
g-index

141  
all docs

141  
docs citations

141  
times ranked

75410  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 175, 119-126.	2.0	13
2	Genome-wide association studies of metabolites in Finnish men identify disease-relevant loci. <i>Nature Communications</i> , 2022, 13, 1644.	5.8	63
3	Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation. <i>Nature Genetics</i> , 2022, 54, 560-572.	9.4	250
4	In vivo base editing rescues Hutchinson-Gilford progeria syndrome in mice. <i>Nature</i> , 2021, 589, 608-614.	13.7	275
5	COVID-19 lessons for research. <i>Science</i> , 2021, 371, 1081-1081.	6.0	14
6	A targeted antisense therapeutic approach for Hutchinson-Gilford progeria syndrome. <i>Nature Medicine</i> , 2021, 27, 536-545.	15.2	55
7	A Transcription Start Site Map in Human Pancreatic Islets Reveals Functional Regulatory Signatures. <i>Diabetes</i> , 2021, 70, 1581-1591.	0.3	7
8	The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , 2021, 53, 840-860.	9.4	341
9	Base editor treats progeria in mice. <i>Nature</i> , 2021, , .	13.7	4
10	Affirming NIH's commitment to addressing structural racism in the biomedical research enterprise. <i>Cell</i> , 2021, 184, 3075-3079.	13.5	81
11	Genetic reduction of mTOR extends lifespan in a mouse model of Hutchinson-Gilford Progeria syndrome. <i>Aging Cell</i> , 2021, 20, e13457.	3.0	27
12	Differentiating Moebius syndrome and other congenital facial weakness disorders with electrodiagnostic studies. <i>Muscle and Nerve</i> , 2021, 63, 516-524.	1.0	6
13	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.	1.8	13
14	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.	3.0	103
15	Adiponectin GWAS loci harboring extensive allelic heterogeneity exhibit distinct molecular consequences. <i>PLoS Genetics</i> , 2020, 16, e1009019.	1.5	11
16	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.	3.3	20
17	Brain phenotyping in Moebius syndrome and other congenital facial weakness disorders by diffusion MRI morphometry. <i>Brain Communications</i> , 2020, 2, fcaa014.	1.5	9
18	Genetic variant effects on gene expression in human pancreatic islets and their implications for T2D. <i>Nature Communications</i> , 2020, 11, 4912.	5.8	89

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19	Analysis of somatic mutations identifies signs of selection during in vitro aging of primary dermal fibroblasts. <i>Aging Cell</i> , 2019, 18, e13010.	3.0	6
20	Associations of autozygosity with a broad range of human phenotypes. <i>Nature Communications</i> , 2019, 10, 4957.	5.8	84
21	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.	3.3	18
22	Adipose Tissue Gene Expression Associations Reveal Hundreds of Candidate Genes for Cardiometabolic Traits. <i>American Journal of Human Genetics</i> , 2019, 105, 773-787.	2.6	45
23	Exome sequencing of 20,791 cases of type 2 diabetes and 24,440 controls. <i>Nature</i> , 2019, 570, 71-76.	13.7	248
24	Hydroa vacciniforme-like lymphoproliferative disorder: an EBV disease with a low risk of systemic illness in whites. <i>Blood</i> , 2019, 133, 2753-2764.	0.6	46
25	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.	3.3	114
26	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.	1.4	31
27	Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. <i>Nature Genetics</i> , 2019, 51, 452-469.	9.4	89
28	Single-cell transcriptomics from human pancreatic islets: sample preparation matters. <i>Biology Methods and Protocols</i> , 2019, 4, bpz019.	1.0	15
29	Multiomic Profiling Identifies cis-Regulatory Networks Underlying Human Pancreatic $\beta^2$ Cell Identity and Function. <i>Cell Reports</i> , 2019, 26, 788-801.e6.	2.9	68
30	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.	1.4	30
31	Refining the accuracy of validated target identification through coding variant fine-mapping in type 2 diabetes. <i>Nature Genetics</i> , 2018, 50, 559-571.	9.4	356
32	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.	2.6	123
33	Biotinylation by antibody recognition—a method for proximity labeling. <i>Nature Methods</i> , 2018, 15, 127-133.	9.0	107
34	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.	3.3	43
35	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.	9.4	1,331
36	Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits. <i>Nature Genetics</i> , 2018, 50, 1412-1425.	9.4	924

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37	Interactions between genetic variation and cellular environment in skeletal muscle gene expression. PLoS ONE, 2018, 13, e0195788.	1.1	18
38	Addendum: Biotinylation by antibody recognitionâ€”a method for proximity labeling. Nature Methods, 2018, 15, 749-749.	9.0	6
39	Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. Nature Genetics, 2018, 50, 26-41.	9.4	286
40	The Metabolic Syndrome in Men study: a resource for studies of metabolic and cardiovascular diseases. Journal of Lipid Research, 2017, 58, 481-493.	2.0	147
41	Rare and low-frequency coding variants alter human adult height. Nature, 2017, 542, 186-190.	13.7	544
42	Genetic Regulation of Adipose Gene Expression and Cardio-Metabolic Traits. American Journal of Human Genetics, 2017, 100, 428-443.	2.6	141
43	Genetic regulatory signatures underlying islet gene expression and type 2 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2301-2306.	3.3	189
44	A novel somatic mutation achieves partial rescue in a child with Hutchinson-Gilford progeria syndrome. Journal of Medical Genetics, 2017, 54, 212-216.	1.5	28
45	A Genome-Wide Association Study of IVGTT-Based Measures of First-Phase Insulin Secretion Refines the Underlying Physiology of Type 2 Diabetes Variants. Diabetes, 2017, 66, 2296-2309.	0.3	102
46	Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. Nature Communications, 2017, 8, 14977.	5.8	169
47	A Low-Frequency Inactivating <i>AKT2</i> Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. Diabetes, 2017, 66, 2019-2032.	0.3	47
48	Novel Blood Pressure Locus and Gene Discovery Using Genome-Wide Association Study and Expression Data Sets From Blood and the Kidney. Hypertension, 2017, 70, .	1.3	123
49	Large meta-analysis of genome-wide association studies identifies five loci for lean body mass. Nature Communications, 2017, 8, 80.	5.8	147
50	A Type 2 Diabetesâ€”Associated Functional Regulatory Variant in a Pancreatic Islet Enhancer at the <i>ADCY5</i> Locus. Diabetes, 2017, 66, 2521-2530.	0.3	54
51	A defect in myoblast fusion underlies Carey-Fineman-Ziter syndrome. Nature Communications, 2017, 8, 16077.	5.8	72
52	Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. Scientific Data, 2017, 4, 170179.	2.4	31
53	Genome-wide physical activity interactions in adiposity â€• A meta-analysis of 200,452 adults. PLoS Genetics, 2017, 13, e1006528.	1.5	158
54	Common, low-frequency, and rare genetic variants associated with lipoprotein subclasses and triglyceride measures in Finnish men from the METSIM study. PLoS Genetics, 2017, 13, e1007079.	1.5	49

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55	The genetic architecture of type 2 diabetes. <i>Nature</i> , 2016, 536, 41-47.	13.7	952
56	The genetic regulatory signature of type 2 diabetes in human skeletal muscle. <i>Nature Communications</i> , 2016, 7, 11764.	5.8	114
57	A reference panel of 64,976 haplotypes for genotype imputation. <i>Nature Genetics</i> , 2016, 48, 1279-1283.	9.4	2,421
58	A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. <i>Nature Communications</i> , 2016, 7, 13357.	5.8	74
59	Trans-ancestry meta-analyses identify rare and common variants associated with blood pressure and hypertension. <i>Nature Genetics</i> , 2016, 48, 1151-1161.	9.4	261
60	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.	9.4	362
61	Genome-Wide Association Study of the Modified Stumvoll Insulin Sensitivity Index Identifies <i>BCL2</i> and <i>FAM19A2</i> as Novel Insulin Sensitivity Loci. <i>Diabetes</i> , 2016, 65, 3200-3211.	0.3	67
62	Seeking a Cure for One of the Rarest Diseases: Progeria. <i>Circulation</i> , 2016, 134, 126-129.	1.6	15
63	Basic science: Bedrock of progress. <i>Science</i> , 2016, 351, 1405-1405.	6.0	24
64	Motif signatures in stretch enhancers are enriched for disease-associated genetic variants. <i>Epigenetics and Chromatin</i> , 2015, 8, 23.	1.8	28
65	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.	1.5	331
66	Multiple Hepatic Regulatory Variants at the GALNT2 GWAS Locus Associated with High-Density Lipoprotein Cholesterol. <i>American Journal of Human Genetics</i> , 2015, 97, 801-815.	2.6	49
67	New genetic loci link adipose and insulin biology to body fat distribution. <i>Nature</i> , 2015, 518, 187-196.	13.7	1,328
68	Genetic studies of body mass index yield new insights for obesity biology. <i>Nature</i> , 2015, 518, 197-206.	13.7	3,823
69	Super-enhancers delineate disease-associated regulatory nodes in T cells. <i>Nature</i> , 2015, 520, 558-562.	13.7	323
70	Directional dominance on stature and cognition in diverse human populations. <i>Nature</i> , 2015, 523, 459-462.	13.7	173
71	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.	1.5	95
72	NIH research: Think globally. <i>Science</i> , 2015, 348, 159-159.	6.0	3

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73	Impact of Type 2 Diabetes Susceptibility Variants on Quantitative Glycemic Traits Reveals Mechanistic Heterogeneity. Diabetes, 2014, 63, 2158-2171.	0.3	297
74	Re-sequencing Expands Our Understanding of the Phenotypic Impact of Variants at GWAS Loci. PLoS Genetics, 2014, 10, e1004147.	1.5	50
75	NIH Roadmap/Common Fund at 10 years. Science, 2014, 345, 274-276.	6.0	24
76	Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. Nature Genetics, 2014, 46, 234-244.	9.4	959
77	Discovery and refinement of loci associated with lipid levels. Nature Genetics, 2013, 45, 1274-1283.	9.4	2,641
78	Biomedical Research: Strength from Diversity. Science, 2013, 342, 798-798.	6.0	12
79	Trans-Ethnic Fine-Mapping of Lipid Loci Identifies Population-Specific Signals and Allelic Heterogeneity That Increases the Trait Variance Explained. PLoS Genetics, 2013, 9, e1003379.	1.5	112
80	Use of microarray hybrid capture and next-generation sequencing to identify the anatomy of a transgene. Nucleic Acids Research, 2013, 41, e70-e70.	6.5	41
81	Chromatin stretch enhancer states drive cell-specific gene regulation and harbor human disease risk variants. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17921-17926.	3.3	606
82	Network News: Powering Clinical Research. Science Translational Medicine, 2013, 5, 182fs13.	5.8	33
83	Biomedical Research: Strength from Diversity. Science, 2013, 342, 798-798.	6.0	10
84	Novel Loci for Adiponectin Levels and Their Influence on Type 2 Diabetes and Metabolic Traits: A Multi-Ethnic Meta-Analysis of 45,891 Individuals. PLoS Genetics, 2012, 8, e1002607.	1.5	419
85	NIH Basics. Science, 2012, 337, 503-503.	6.0	20
86	Progeria: Translational insights from cell biology. Journal of Cell Biology, 2012, 199, 9-13.	2.3	37
87	Steering a New Course for Stem Cell Research: NIH's Intramural Center for Regenerative Medicine. Stem Cells Translational Medicine, 2012, 1, 15-17.	1.6	13
88	Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. Nature Genetics, 2012, 44, 991-1005.	9.4	746
89	Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. Nature Genetics, 2012, 44, 981-990.	9.4	1,748
90	A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. Nature Genetics, 2012, 44, 659-669.	9.4	762

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91	Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk. Nature, 2011, 478, 103-109.	13.7	1,855
92	Discovery of active enhancers through bidirectional expression of short transcripts. Genome Biology, 2011, 12, R113.	13.9	120
93	Genome-Wide Association Identifies Nine Common Variants Associated With Fasting Proinsulin Levels and Provides New Insights Into the Pathophysiology of Type 2 Diabetes. Diabetes, 2011, 60, 2624-2634.	0.3	335
94	Mining for therapeutic gold. Nature Reviews Drug Discovery, 2011, 10, 397-397.	21.5	96
95	Rapamycin Reverses Cellular Phenotypes and Enhances Mutant Protein Clearance in Hutchinson-Gilford Progeria Syndrome Cells. Science Translational Medicine, 2011, 3, 89ra58.	5.8	294
96	Reengineering Translational Science: The Time Is Right. Science Translational Medicine, 2011, 3, 90cm17.	5.8	409
97	Protein farnesylation inhibitors cause donut-shaped cell nuclei attributable to a centrosome separation defect. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4997-5002.	3.3	71
98	Genome-wide association study identifies six new loci influencing pulse pressure and mean arterial pressure. Nature Genetics, 2011, 43, 1005-1011.	9.4	403
99	Biological, clinical and population relevance of 95 loci for blood lipids. Nature, 2010, 466, 707-713.	13.7	3,249
100	Has the revolution arrived?. Nature, 2010, 464, 674-675.	13.7	243
101	Twelve type 2 diabetes susceptibility loci identified through large-scale association analysis. Nature Genetics, 2010, 42, 579-589.	9.4	1,631
102	Using Science to Improve the Nation's Health System. JAMA - Journal of the American Medical Association, 2010, 303, 2182.	3.8	94
103	Patient-Centered Outcomes Research Institute: The Intersection of Science and Health Care. Science Translational Medicine, 2010, 2, 37cm18.	5.8	168
104	Change, Change, Change: Heeding the Call. Molecular Biology of the Cell, 2010, 21, 3793-3794.	0.9	1
105	Opportunities for Research and NIH. Science, 2010, 327, 36-37.	6.0	91
106	Scientists need a shorter path to research freedom. Nature, 2010, 467, 635-635.	13.7	15
107	The Path to Personalized Medicine. New England Journal of Medicine, 2010, 363, 301-304.	13.9	1,595
108	Cardiovascular Pathology in Hutchinson-Gilford Progeria: Correlation With the Vascular Pathology of Aging. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2301-2309.	1.1	332

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109	Systematic comparison of three genomic enrichment methods for massively parallel DNA sequencing. <i>Genome Research</i> , 2010, 20, 1420-1431.	2.4	194
110	Common variants at 30 loci contribute to polygenic dyslipidemia. <i>Nature Genetics</i> , 2009, 41, 56-65.	9.4	1,234
111	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, 20788-20793.	3.3	185
112	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, 9362-9367.	3.3	3,719
113	Phenotype and Course of Hutchinsonâ€“Gilford Progeria Syndrome. <i>New England Journal of Medicine</i> , 2008, 358, 592-604.	13.9	610
114	Newly identified loci that influence lipid concentrations and risk of coronary artery disease. <i>Nature Genetics</i> , 2008, 40, 161-169.	9.4	1,488
115	Transforming Environmental Health Protection. <i>Science</i> , 2008, 319, 906-907.	6.0	580
116	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, 15902-15907.	3.3	181
117	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, 4949-4954.	3.3	235
118	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.	1.1	305
119	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. <i>Nature</i> , 2007, 447, 799-816.	13.7	4,709
120	Human laminopathies: nuclei gone genetically awry. <i>Nature Reviews Genetics</i> , 2006, 7, 940-952.	7.7	478
121	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, 3250-3255.	3.3	255
122	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, 12879-12884.	3.3	334
123	The case for a US prospective cohort study of genes and environment. <i>Nature</i> , 2004, 429, 475-477.	13.7	290
124	Accumulation of mutant lamin A causes progressive changes in nuclear architecture in Hutchinsonâ€“Gilford progeria syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8963-8968.	3.3	988
125	Recurrent de novo point mutations in lamin A cause Hutchinsonâ€“Gilford progeria syndrome. <i>Nature</i> , 2003, 423, 293-298.	13.7	1,925
126	The Human Genome Project: Lessons from Large-Scale Biology. <i>Science</i> , 2003, 300, 286-290.	6.0	959



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127	Initial sequencing and analysis of the human genome. Nature, 2001, 409, 860-921.	13.7	21,074
128	Linkage Disequilibrium Between Microsatellite Markers Extends Beyond 1 cM on Chromosome 20 in Finns. Genome Research, 2001, 11, 1221-1226.	2.4	60
129	Biotinylation by antibody recognition. Protocol Exchange, 0, , .	0.3	1