Human knockouts and phenotypic analysis in a cohort

Nature

544, 235-239

DOI: 10.1038/nature22034

Citation Report

#	Article	IF	Citations
1	Non-Coding Loss-of-Function Variation in Human Genomes. Human Heredity, 2016, 81, 78-87.	0.8	16
2	Importance of Genetic Studies in Consanguineous Populations for the Characterization of Novel Human Gene Functions. Annals of Human Genetics, 2016, 80, 187-196.	0.8	41
3	Analysis of protein-coding genetic variation in 60,706 humans. Nature, 2016, 536, 285-291.	27.8	9,051
4	The impact of recent population history on the deleterious mutation load in humans and close evolutionary relatives. Current Opinion in Genetics and Development, 2016, 41, 150-158.	3.3	89
5	Human Knockout Carriers: Dead, Diseased, Healthy, or Improved?. Trends in Molecular Medicine, 2016, 22, 341-351.	6.7	31
6	Human genes lost and their functions found. Nature, 2017, 544, 171-172.	27.8	2
7	Dawn of the Human Knockout Project. Nature Reviews Genetics, 2017, 18, 328-329.	16.3	7
8	The Mouse Lemur, a Genetic Model Organism for Primate Biology, Behavior, and Health. Genetics, 2017, 206, 651-664.	2.9	58
9	The impact of rare and low-frequency genetic variants in common disease. Genome Biology, 2017, 18, 77.	8.8	277
10	Estimating the selective effects of heterozygous protein-truncating variants from human exome data. Nature Genetics, 2017, 49, 806-810.	21.4	157
11	Autosomal recessive congenital ichthyosis: CERS3 mutations identified by a next generation sequencing panel targeting ichthyosis genes. European Journal of Human Genetics, 2017, 25, 1282-1285.	2.8	19
12	In Vivo Base Editing of PCSK9 (Proprotein Convertase Subtilisin/Kexin Type 9) as a Therapeutic Alternative to Genome Editing. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1741-1747.	2.4	181
13	Settling the score: variant prioritization and Mendelian disease. Nature Reviews Genetics, 2017, 18, 599-612.	16.3	213
14	From Peas to Disease: Modifier Genes, Network Resilience, and the Genetics of Health. American Journal of Human Genetics, 2017, 101, 177-191.	6.2	108
15	Genome Editing. Journal of the American College of Cardiology, 2017, 70, 2808-2821.	2.8	27
16	Lipidomic profiling of plasma in a healthy Singaporean population to identify ethnic specific differences in lipid levels and associations with disease risk factors. Clinical Mass Spectrometry, 2017, 6, 25-31.	1.9	11
17	A novel homozygous ARL13B variant in patients with Joubert syndrome impairs its guanine nucleotide-exchange factor activity. European Journal of Human Genetics, 2017, 25, 1324-1334.	2.8	9
18	Apolipoprotein C-III inhibits triglyceride hydrolysis by GPIHBP1-bound LPL. Journal of Lipid Research, 2017, 58, 1893-1902.	4.2	39

#	Article	IF	Citations
19	When â€œNof 2â€•is not enough: integrating statistical and functional data in gene discovery. Journal of Physical Education and Sports Management, 2017, 3, a001099.	1.2	2
20	Genome-wide CRISPR-Cas9 Screen Identifies Leukemia-Specific Dependence on a Pre-mRNA Metabolic Pathway Regulated by DCPS. Cancer Cell, 2018, 33, 386-400.e5.	16.8	99
21	Future Directions of Research in the Oral Mucosa. , 2018, , 173-184.		1
22	Therapeutic oligonucleotides in cardiovascular and metabolic diseases: insights for the internist. Internal and Emergency Medicine, 2018, 13, 313-318.	2.0	4
23	Medical relevance of protein-truncating variants across 337,205 individuals in the UK Biobank study. Nature Communications, 2018, 9, 1612.	12.8	95
24	Knockout of human muscle genes revealed by large scale whole-exome studies. Molecular Genetics and Metabolism, 2018, 123, 411-415.	1.1	3
25	Formalising recall by genotype as an efficient approach to detailed phenotyping and causal inference. Nature Communications, 2018, 9, 711.	12.8	54
26	Big data from electronic health records for early and late translational cardiovascular research: challenges and potential. European Heart Journal, 2018, 39, 1481-1495.	2.2	163
27	APOC3 Loss-of-Function Mutations, Remnant Cholesterol, Low-Density Lipoprotein Cholesterol, and Cardiovascular Risk. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 660-668.	2.4	70
28	Human genetics of infectious diseases: Unique insights into immunological redundancy. Seminars in Immunology, 2018, 36, 1-12.	5.6	82
29	Expanding the spectrum of CVD genetics. Nature Reviews Cardiology, 2018, 15, 77-78.	13.7	6
30	Runs of homozygosity: windows into population history and trait architecture. Nature Reviews Genetics, 2018, 19, 220-234.	16.3	497
31	Profiling and Leveraging Relatedness in a Precision Medicine Cohort of 92,455 Exomes. American Journal of Human Genetics, 2018, 102, 874-889.	6.2	58
32	New medications targeting triglyceride-rich lipoproteins: Can inhibition of ANGPTL3 or apoC-III reduce the residual cardiovascular risk?. Atherosclerosis, 2018, 272, 27-32.	0.8	30
33	Lipoprotein Disorders. , 2018, , 27-46.		1
34	Human gene essentiality. Nature Reviews Genetics, 2018, 19, 51-62.	16.3	213
35	Genetic modifiers of <scp>D</scp>uchenne and facioscapulohumeral muscular dystrophies. Muscle and Nerve, 2018, 57, 6-15.	2.2	28
36	CRISPR-Cas9 Genome Editing for Treatment of Atherogenic Dyslipidemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 12-18.	2.4	23

#	Article	IF	Citations
37	Modernizing Human Cancer Risk Assessment of Therapeutics. Trends in Pharmacological Sciences, 2018, 39, 232-247.	8.7	17
38	Nonalcoholic Fatty Liver Disease Progresses into Severe NASH when Physiological Mechanisms of Tissue Homeostasis Collapse. Annals of Hepatology, 2018, 17, 182-186.	1.5	6
40	DNA Raw Data Analysis for Better Health Outcomes. Journal of Molecular and Genetic Medicine: an International Journal of Biomedical Research, 2018, 12, .	0.1	1
41	Genetic Pointillism versus Physiological Form. Perspectives in Biology and Medicine, 2018, 61, 503-516.	0.5	5
42	Origin and age of the causative mutations in KLC2, IMPA1, MED25 and WNT7A unravelled through Brazilian admixed populations. Scientific Reports, 2018, 8, 16552.	3.3	6
43	Identifying mouse developmental essential genes using machine learning. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	18
44	PI 4K2A deficiency in an intellectual disability, epilepsy, myoclonus, akathisia syndrome. Annals of Clinical and Translational Neurology, 2018, 5, 1617-1621.	3.7	9
45	Translational Medicine in the Era of Big Data and Machine Learning. Circulation Research, 2018, 123, 1202-1204.	4.5	33
46	Frequency and phenotype consequence of APOC3 rare variants in patients with very low triglyceride levels. BMC Medical Genomics, 2018, 11, 66.	1.5	5
47	A homozygous loss-of-function mutation leading to CYBC1 deficiency causes chronic granulomatous disease. Nature Communications, 2018, 9, 4447.	12.8	95
48	Understanding the Hidden Complexity of Latin American Population Isolates. American Journal of Human Genetics, 2018, 103, 707-726.	6.2	48
49	Hypertriglyceridemia and cardiovascular risk: a cautionary note about metabolic confounding. Journal of Lipid Research, 2018, 59, 1266-1275.	4.2	62
50	Genetic-Driven Druggable Target Identification and Validation. Trends in Genetics, 2018, 34, 558-570.	6.7	44
51	Atherosclerotic Cardiovascular Disease in South Asians in the United States: Epidemiology, Risk Factors, and Treatments: A Scientific Statement From the American Heart Association. Circulation, 2018, 138, e1-e34.	1.6	316
52	Genetic Inactivation of CD33 in Hematopoietic Stem Cells to Enable CAR T Cell Immunotherapy for Acute Myeloid Leukemia. Cell, 2018, 173, 1439-1453.e19.	28.9	323
53	Novel Therapeutic Targets for Managing Dyslipidemia. Trends in Pharmacological Sciences, 2018, 39, 733-747.	8.7	31
54	Whole-exome sequencing revealed HKDC1 as a candidate gene associated with autosomal-recessive retinitis pigmentosa. Human Molecular Genetics, 2018, 27, 4157-4168.	2.9	14
55	Clonal Hematopoiesis. Circulation Genomic and Precision Medicine, 2018, 11, e001926.	3.6	43

#	Article	IF	Citations
56	Therapeutic Agents Targeting Cardiometabolic Risk for Preventing and Treating Atherosclerotic Cardiovascular Diseases. Clinical Pharmacology and Therapeutics, 2018, 104, 257-268.	4.7	12
57	The future of humans as model organisms. Science, 2018, 361, 552-553.	12.6	31
58	Estimating the mutational load for cardiovascular diseases in Pakistani population. PLoS ONE, 2018, 13, e0192446.	2.5	15
59	The Future of Lipid-lowering Therapy. Journal of Clinical Medicine, 2019, 8, 1085.	2.4	8
60	Spatial chromatin architecture alteration by structural variations in human genomes at the population scale. Genome Biology, 2019, 20, 148.	8.8	36
61	Life is complicated: so is apoCIII. Journal of Lipid Research, 2019, 60, 1347-1349.	4.2	6
62	A Genocentric Approach to Discovery of Mendelian Disorders. American Journal of Human Genetics, 2019, 105, 974-986.	6.2	30
63	Characterization of Human Dosage-Sensitive Transcription Factor Genes. Frontiers in Genetics, 2019, 10, 1208.	2.3	8
64	Associations of autozygosity with a broad range of human phenotypes. Nature Communications, 2019, 10, 4957.	12.8	84
65	Looking to the future of zebrafish as a model to understand the genetic basis of eye disease. Human Genetics, 2019, 138, 993-1000.	3.8	15
66	Lipid-Lowering Agents. Circulation Research, 2019, 124, 386-404.	4.5	124
67	The virtuous cycle of human genetics and mouse models in drug discovery. Nature Reviews Drug Discovery, 2019, 18, 255-272.	46.4	44
68	Emerging Evidence that ApoC-III Inhibitors Provide Novel Options to Reduce the Residual CVD. Current Atherosclerosis Reports, 2019, 21, 27.	4.8	72
69	Genotype/Phenotype Relationship in a Consanguineal Family With Brugada Syndrome Harboring the R1632C Missense Variant in the SCN5A Gene. Frontiers in Physiology, 2019, 10, 666.	2.8	11
70	Beyond adiponectin and leptin: adipose tissue-derived mediators of inter-organ communication. Journal of Lipid Research, 2019, 60, 1648-1697.	4.2	197
71	Carrier screening for recessive disorders. Nature Reviews Genetics, 2019, 20, 549-561.	16.3	84
72	MLPA Analyses Reveal a Spectrum of Dystrophin Gene Deletions/Duplications in Pakistani Patients Suspected of Having Duchenne/Becker Muscular Dystrophy: A Retrospective Study. Genetic Testing and Molecular Biomarkers, 2019, 23, 468-472.	0.7	9
73	Detecting genetic interactions using parallel evolution in experimental populations. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180237.	4.0	21

#	Article	IF	Citations
74	Implementation of public health genomics in Pakistan. European Journal of Human Genetics, 2019, 27, 1485-1492.	2.8	19
75	A decade of Science Translational Medicine. Science Translational Medicine, 2019, 11, .	12.4	4
77	Low plasma adropin concentrations increase risks of weight gain and metabolic dysregulation in response to a high-sugar diet in male nonhuman primates. Journal of Biological Chemistry, 2019, 294, 9706-9719.	3.4	45
78	The complexity of tau in Alzheimerâ€™s disease. Neuroscience Letters, 2019, 705, 183-194.	2.1	200
79	Using Human Genetics to Drive Drug Discovery: A Perspective. American Journal of Kidney Diseases, 2019, 74, 111-119.	1.9	7
80	Adaptation and Phenotypic Diversification in Arabidopsis through Loss-of-Function Mutations in Protein-Coding Genes. Plant Cell, 2019, 31, 1012-1025.	6.6	42
81	Genetics of Common, Complex Coronary Artery Disease. Cell, 2019, 177, 132-145.	28.9	166
82	The Genetic Basis of Metabolic Disease. Cell, 2019, 177, 146-161.	28.9	104
83	The Missing Diversity in Human Genetic Studies. Cell, 2019, 177, 26-31.	28.9	838
85	Stroke genetics: discovery, biology, and clinical applications. Lancet Neurology, The, 2019, 18, 587-599.	10.2	138
86	Phenotypes associated with genes encoding drug targets are predictive of clinical trial side effects. Nature Communications, 2019, 10, 1579.	12.8	61
87	The Contribution of Low-Frequency and Rare Coding Variation to Susceptibility to Type 2 Diabetes. Current Diabetes Reports, 2019, 19, 25.	4.2	13
88	New Human Chromosomal Sites with â€œSafe Harborâ€•Potential for Targeted Transgene Insertion. Human Gene Therapy, 2019, 30, 814-828.	2.7	39
89	Patterns of Aging Biomarkers, Mortality, and Damaging Mutations Illuminate the Beginning of Aging and Causes of Early-Life Mortality. Cell Reports, 2019, 29, 4276-4284.e3.	6.4	40
90	The GenomeAsia 100K Project enables genetic discoveries across Asia. Nature, 2019, 576, 106-111.	27.8	265
91	Analysis of the Progeny of Sibling Matings Reveals Regulatory Variation Impacting the Transcriptome of Immune Cells in Commercial Chickens. Frontiers in Genetics, 2019, 10, 1032.	2.3	18
92	Drugs that Mimic the Effect of Gene Mutations for the Prevention or the Treatment of Atherosclerotic Disease: From PCSK9 Inhibition to ANGPTL3 Inactivation. Current Pharmaceutical Design, 2019, 24, 3638-3646.	1.9	10
93	Effects of APOC3 Heterozygous Deficiency on Plasma Lipid and Lipoprotein Metabolism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 63-72.	2.4	61

#	Article	IF	Citations
94	The Biological Basis of Aging. , 2019, , 415-444.		1
95	Identification of TEX101-associated Proteins Through Proteomic Measurement of Human Spermatozoa Homozygous for the Missense Variant rs35033974*. Molecular and Cellular Proteomics, 2019, 18, 338-351.	3.8	26
96	Insights into genetics, human biology and disease gleaned from family based genomic studies. Genetics in Medicine, 2019, 21, 798-812.	2.4	161
97	Genomic and Phenomic Research in the 21st Century. Trends in Genetics, 2019, 35, 29-41.	6.7	20
98	Homozygous 2p11.2 deletion supports the implication of ELMOD3 in hearing loss and reveals the potential association of CAPG with ASD/ID etiology. Journal of Applied Genetics, 2019, 60, 49-56.	1.9	11
99	Target discovery using biobanks and human genetics. Drug Discovery Today, 2020, 25, 438-445.	6.4	4
100	Cohort Profile: East London Genes & Health (ELGH), a community-based population genomics and health study in British Bangladeshi and British Pakistani people. International Journal of Epidemiology, 2020, 49, 20-21i.	1.9	71
101	Genetic Interleukin 6 Signaling Deficiency Attenuates Cardiovascular Risk in Clonal Hematopoiesis. Circulation, 2020, 141, 124-131.	1.6	270
102	A brief history of human disease genetics. Nature, 2020, 577, 179-189.	27.8	441
103	Apolipoprotein B48 metabolism in chylomicrons and very lowâ€density lipoproteins and its role in triglyceride transport in normoâ€•and hypertriglyceridemic human subjects. Journal of Internal Medicine, 2020, 288, 422-438.	6.0	25
104	Apolipoprotein C3 induces inflammation and organ damage by alternative inflammasome activation. Nature Immunology, 2020, 21, 30-41.	14.5	169
105	High-throughput phenotyping reveals expansive genetic and structural underpinnings of immune variation. Nature Immunology, 2020, 21, 86-100.	14.5	32
106	A de novo variant in the human HIST1H4J gene causes a syndrome analogous to the HIST1H4C-associated neurodevelopmental disorder. European Journal of Human Genetics, 2020, 28, 674-678.	2.8	11
107	Loss of UGP2 in brain leads to a severe epileptic encephalopathy, emphasizing that bi-allelic isoform-specific start-loss mutations of essential genes can cause genetic diseases. Acta Neuropathologica, 2020, 139, 415-442.	7.7	38
108	Clinical review on triglycerides. European Heart Journal, 2020, 41, 99-109c.	2.2	286
109	Exploring the Genetic Landscape of Retinal Diseases in North-Western Pakistan Reveals a High Degree of Autozygosity and a Prevalent Founder Mutation in ABCA4. Genes, 2020, 11, 12.	2.4	13
110	The Impact of Next-Generation Sequencing on the Diagnosis, Treatment, and Prevention of Hereditary Neuromuscular Disorders. Molecular Diagnosis and Therapy, 2020, 24, 641-652.	3.8	7
111	Exome sequencing and characterization of 49,960 individuals in the UK Biobank. Nature, 2020, 586, 749-756.	27.8	369

#	Article	IF	Citations
112	Less Is More, Natural Loss-of-Function Mutation Is a Strategy for Adaptation. Plant Communications, 2020, 1, 100103.	7.7	35
113	The Consequences of Abnormal Gene Dosage: Lessons from Chromosome 18. Trends in Genetics, 2020, 36, 764-776.	6.7	8
114	Evaluation of efficacy and safety of antisense inhibition of apolipoprotein C-III with volanesorsen in patients with severe hypertriglyceridemia. Expert Opinion on Pharmacotherapy, 2020, 21, 1675-1684.	1.8	17
115	Genomic variability. , 2020, , 63-75.		0
116	Apolipoprotein CIII Deficiency Protects Against Atherosclerosis in Knockout Rabbits. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2095-2107.	2.4	19
117	Reduced penetrance of pathogenic ACMG variants in a deeply phenotyped cohort study and evaluation of ClinVar classification over time. Genetics in Medicine, 2020, 22, 1812-1820.	2.4	24
118	The Roles of ApoC-III on the Metabolism of Triglyceride-Rich Lipoproteins in Humans. Frontiers in Endocrinology, 2020, 11, 474.	3.5	81
119	Hypertriglyceridemia and Atherosclerosis: Using Human Research to Guide Mechanistic Studies in Animal Models. Frontiers in Endocrinology, 2020, 11, 504.	3.5	26
120	ApoCIII: A multifaceted protein in cardiometabolic disease. Metabolism: Clinical and Experimental, 2020, 113, 154395.	3.4	22
121	Clinical pharmacology applications in clinical drug development and clinical care: A focus on Saudi Arabia. Saudi Pharmaceutical Journal, 2020, 28, 1217-1227.	2.7	9
122	Gene-based therapy in lipid management: the winding road from promise to practice. Expert Opinion on Investigational Drugs, 2020, 29, 483-493.	4.1	20
123	Genomically Aided Diagnosis of Severe Developmental Disorders. Annual Review of Genomics and Human Genetics, 2020, 21, 327-349.	6.2	3
124	Challenges in the diagnosis and discovery of rare genetic disorders using contemporary sequencing technologies. Briefings in Functional Genomics, 2020, 19, 243-258.	2.7	27
125	Common homozygosity for predicted loss-of-function variants reveals both redundant and advantageous effects of dispensable human genes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13626-13636.	7.1	18
126	Evaluating drug targets through human loss-of-function genetic variation. Nature, 2020, 581, 459-464.	27.8	115
127	The effect of LRRK2 loss-of-function variants in humans. Nature Medicine, 2020, 26, 869-877.	30.7	79
128	Discovery of 318 new risk loci for type 2 diabetes and related vascular outcomes among 1.4 million participants in a multi-ancestry meta-analysis. Nature Genetics, 2020, 52, 680-691.	21.4	445
129	Genomics of hypertriglyceridemia. Advances in Clinical Chemistry, 2020, 97, 141-169.	3.7	10

#	Article	IF	Citations
130	Coronary Artery Disease: Therapeutics and Drug Discovery. Advances in Experimental Medicine and Biology, 2020, , .	1.6	4
131	CEACAM3â€"A Prim(at)e Invention for Opsonin-Independent Phagocytosis of Bacteria. Frontiers in Immunology, 2020, 10, 3160.	4.8	16
132	Embracing human genetics: a primer for developmental biologists. Development (Cambridge), 2020, 147, .	2.5	3
133	Biallelic lossâ€ofâ€function variants in TBC1D2B cause a neurodevelopmental disorder with seizures and gingival overgrowth. Human Mutation, 2020, 41, 1645-1661.	2.5	10
134	HDL-associated apoCIII plays an independent role in predicting postprandial hypertriglyceridemia. Clinical Biochemistry, 2020, 79, 14-22.	1.9	12
135	Quantile-dependent expressivity of postprandial lipemia. PLoS ONE, 2020, 15, e0229495.	2.5	21
136	Expansion of the phenotype of biallelic variants in TRIT1. European Journal of Medical Genetics, 2020, 63, 103882.	1.3	4
137	Centrosome-associated CDC25B is a novel disease-causing gene for a syndrome with cataracts, dilated cardiomyopathy, and multiple endocrinopathies. Clinica Chimica Acta, 2020, 504, 81-87.	1.1	5
138	The next generation of triglyceride-lowering drugs: will reducing apolipoprotein C-III or angiopoietin like protein 3 reduce cardiovascular disease?. Current Opinion in Lipidology, 2020, 31, 140-146.	2.7	29
139	Enhancing inclusion of diverse populations in genomics: A competence framework. Journal of Genetic Counseling, 2020, 29, 282-292.	1.6	10
140	Resources for functional genomic studies of health and development in nonhuman primates. American Journal of Physical Anthropology, 2020, 171, 174-194.	2.1	7
141	Functional effects of protein variants. Biochimie, 2021, 180, 104-120.	2.6	30
142	The clinical implications of clonal hematopoiesis in hematopoietic cell transplantation. Blood Reviews, 2021, 46, 100744.	5.7	16
143	Personalized medicine for cardiovascular diseases. Journal of Human Genetics, 2021, 66, 67-74.	2.3	23
144	Treating Coronary Artery Disease: Beyond Statins, Ezetimibe, and PCSK9 Inhibition. Annual Review of Medicine, 2021, 72, 447-458.	12.2	12
145	Testis developmental related gene 1 (TDRG1) encodes a progressive motility-associated protein in human spermatozoa. Human Reproduction, 2021, 36, 283-292.	0.9	3
146	Mutations in G Proteinâ€"Coupled Receptors: Mechanisms, Pathophysiology and Potential Therapeutic Approaches. Pharmacological Reviews, 2021, 73, 89-119.	16.0	60
147	Translational genetics: a challenging but important path. British Journal of Dermatology, 2021, 184, 800-801.	1.5	0

#	Article	IF	Citations
148	Unique roles of rare variants in the genetics of complex diseases in humans. Journal of Human Genetics, 2021, 66, 11-23.	2.3	74
149	Homozygous deletion of MYADML2 in cranial asymmetry, reduced bone maturation, multiple dislocations, lumbar lordosis, and prominent clavicles. Journal of Human Genetics, 2021, 66, 171-179.	2.3	2
150	Mutations causing Lopes-Maciel-Rodan syndrome are huntingtin hypomorphs. Human Molecular Genetics, 2021, 30, 135-148.	2.9	24
151	Base editing. , 2021, , 101-121.		0
152	Rare versus common diseases: a false dichotomy in precision medicine. Npj Genomic Medicine, 2021, 6, 19.	3.8	14
153	Genomics-driven drug discovery based on disease-susceptibility genes. Inflammation and Regeneration, 2021, 41, 8.	3.7	10
154	Exploring a Local Genetic Interaction Network Using Evolutionary Replay Experiments. Molecular Biology and Evolution, 2021, 38, 3144-3152.	8.9	7
155	Natural human knockouts and Mendelian disorders: deep phenotyping in Italian isolates. European Journal of Human Genetics, 2021, 29, 1272-1281.	2.8	6
156	High-density lipoproteins, reverse cholesterol transport and atherogenesis. Nature Reviews Cardiology, 2021, 18, 712-723.	13.7	91
157	Physico-chemical and physiological determinants of lipo-nanoparticle stability. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 33, 102361.	3.3	4
161	Apolipoprotein C3 aggravates diabetic nephropathy in type 1 diabetes by activating the renal TLR2/NF-Î¹B pathway. Metabolism: Clinical and Experimental, 2021, 119, 154740.	3.4	18
162	Deep sequencing of 1320 genes reveals the landscape of protein-truncating variants and their contribution to psoriasis in 19,973 Chinese individuals. Genome Research, 2021, 31, 1150-1158.	5.5	5
163	Enrichment of low abundance DNA/RNA by oligonucleotide-clicked iron oxide nanoparticles. Scientific Reports, 2021, 11, 13053.	3.3	7
164	Genetics in Drug Discovery. Trends in Genetics, 2021, 37, 603-605.	6.7	0
165	The genetic structure of the Turkish population reveals high levels of variation and admixture. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	42
166	Quantifying and Understanding the Higher Risk of Atherosclerotic Cardiovascular Disease Among South Asian Individuals. Circulation, 2021, 144, 410-422.	1.6	72
167	Lipids and Lipoproteins in Health and Disease: Focus on Targeting Atherosclerosis. Biomedicines, 2021, 9, 985.	3.2	13
169	Genome-wide analysis of blood lipid metabolites in over 5000 South Asians reveals biological insights at cardiometabolic disease loci. BMC Medicine, 2021, 19, 232.	5.5	25

#	Article	IF	Citations
170	APOC3 genetic variation, serum triglycerides, and risk of coronary artery disease in Asian Indians, Europeans, and other ethnic groups. Lipids in Health and Disease, 2021, 20, 113.	3.0	12
171	Stroke Genetics: Turning Discoveries into Clinical Applications. Stroke, 2021, 52, 2974-2982.	2.0	9
172	Biallelic <scp>AOPEP</scp> Lossâ€ofâ€Function Variants Cause Progressive Dystonia with Prominent Limb Involvement. Movement Disorders, 2022, 37, 137-147.	3.9	14
174	Choosing a genome editing strategy and target site. , 2021, , 21-39.		0
190	Increased apolipoprotein C3 drives cardiovascular risk in type 1 diabetes. Journal of Clinical Investigation, 2019, 129, 4165-4179.	8.2	76
191	The promise and reality of therapeutic discovery from large cohorts. Journal of Clinical Investigation, 2020, 130, 575-581.	8.2	9
192	A coagulation defect arising from heterozygous premature termination of tissue factor. Journal of Clinical Investigation, 2020, 130, 5302-5312.	8.2	17
193	Genetic variation in the Middle Eastâ€"an opportunity to advance the human genetics field. Genome Medicine, 2020, 12, 116.	8.2	27
194	Compensatory growth renders Tcf7l1a dispensable for eye formation despite its requirement in eye field specification. ELife, 2019, 8, .	6.0	21
195	Characterising a healthy adult with a rare HAO1 knockout to support a therapeutic strategy for primary hyperoxaluria. ELife, 2020, 9, .	6.0	45
197	Can Sound Public Health Policies Stem the Tide of Burgeoning Epidemic of Cardiovascular Disease in South Asians?. Current Cardiology Reports, 2021, 23, 181.	2.9	7
198	Human genetics and its impact on cardiovascular disease. Journal of Cardiology, 2022, 79, 233-239.	1.9	10
199	Thousands of Qatari genomes inform human migration history and improve imputation of Arab haplotypes. Nature Communications, 2021, 12, 5929.	12.8	18
200	Overview of the 81st Annual Scientific Meeting of the Japanese Circulation Societyã€€â€• Cardiovascular Medicine for the Next Generation â€•. Circulation Journal, 2017, 81, 1261-1267.	1.6	0
210	Drug Discovery for Coronary Artery Disease. Advances in Experimental Medicine and Biology, 2020, 1177, 297-339.	1.6	6
212	Genetically-engineered hamster models: applications and perspective in dyslipidemia and atherosclerosis-related cardiovascular disease. Medical Review, 2021, 1, 92-110.	1.2	1
213	Review of How Genetic Research on Segmental Progeroid Syndromes Has Documented Genomic Instability as a Hallmark of Aging But Let Us Now PursueAntigeroid Syndromes!. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 253-259.	3.6	6
214	A jerk-based algorithm ACCEL for the accurate classification of sleepâ€"wake states from arm acceleration. IScience, 2022, 25, 103727.	4.1	10

#	Article	IF	Citations
215	Overcoming constraints on the detection of recessive selection in human genes from population frequency data. American Journal of Human Genetics, 2022, 109, 33-49.	6.2	5
216	Addressing dyslipidemic risk beyond LDL-cholesterol. Journal of Clinical Investigation, 2022, 132, .	8.2	51
217	Dominance Can Increase Genetic Variance After a Population Bottleneck: A Synthesis of the Theoretical and Empirical Evidence. Journal of Heredity, 2022, 113, 257-271.	2.4	2
218	Genetically Engineered Hamster Models of Dyslipidemia and. Methods in Molecular Biology, 2022, 2419, 433-459.	0.9	1
219	Stroke Genomics: Current Knowledge, Clinical Applications and Future Possibilities. Brain Sciences, 2022, 12, 302.	2.3	2
220	Rare catastrophes and evolutionary legacies: human germline gene variants in MLKL and the necroptosis signalling pathway. Biochemical Society Transactions, 2022, 50, 529-539.	3.4	5
221	Significant sparse polygenic risk scores across 813 traits in UK Biobank. PLoS Genetics, 2022, 18, e1010105.	3.5	40
222	An Amish founder population reveals rare-population genetic determinants of the human lipidome. Communications Biology, 2022, 5, 334.	4.4	7
223	SOMAmer reagents and the SomaScan platform: Chemically modified aptamers and their applications in therapeutics, diagnostics, and proteomics. , 2022, , 171-260.		6
224	Generic model for biological regulation. F1000Research, 0, 11, 419.	1.6	2
225	Impact of parental relatedness on reproductive outcomes among the Old Order Amish of Lancaster County. American Journal of Medical Genetics, Part A, 2022, , .	1.2	0
236	CancerVar: An artificial intelligenceâ€“empowered platform for clinical interpretation of somatic mutations in cancer. Science Advances, 2022, 8, eabj1624.	10.3	14
237	Tourism, Health Promoting Food Domain and Technology Applications: Individualâ€™s Genes Reservoir, Environmental Change and Food in Natural Health Context. , 2022, , 1159-1200.		0
238	Generic model for biological regulation. F1000Research, 0, 11, 419.	1.6	2
239	Genome editing-mediated knock-in of therapeutic genes ameliorates the disease phenotype in a model of hemophilia. Molecular Therapy - Nucleic Acids, 2022, 29, 551-562.	5.1	8
240	Evolving Approaches to Identifying Genetic Risk Variants for Sleep Disorders. Translational Medicine Research, 2022, , 3-20.	0.0	0
241	Plasma ProteomicsÂTo Identify the Biomarkers and Pathogenesis of Mild Cognitive Impairment. SSRN Electronic Journal, 0, , .	0.4	0
242	Postprandial metabolism of apolipoproteins B48, B100, C-III, and E in humans with APOC3 loss-of-function mutations. JCI Insight, 2022, 7, .	5.0	11

#	Article	IF	Citations
243	Estimating the prevalence of congenital disaccharidase deficiencies using allele frequencies from gnomAD. Archives De Pediatrie, 2022, , .	1.0	2
244	Trehalose and its applications in the food industry. Comprehensive Reviews in Food Science and Food Safety, 2022, 21, 5004-5037.	11.7	21
245	Whole genome sequence analysis of blood lipid levels in >66,000 individuals. Nature Communications, 2022, 13, .	12.8	26
246	Gene Sequencing Identifies Perturbation in Nitric Oxide Signaling as a Nonlipid Molecular Subtype of Coronary Artery Disease. Circulation Genomic and Precision Medicine, 2022, 15, .	3.6	4
247	Using human genetics to improve safety assessment of therapeutics. Nature Reviews Drug Discovery, 2023, 22, 145-162.	46.4	20
248	Multiplexed measurement of cell type-specific calcium kinetics using high-content image analysis combined with targeted gene disruption. Biochemical and Biophysical Research Communications, 2022, 637, 40-49.	2.1	1
249	Genetics of Kidney Disease: The Unexpected Role of Rare Disorders. Annual Review of Medicine, 2023, 74, 353-367.	12.2	3
250	Identification of PCSK9-like human gene knockouts using metabolomics, proteomics, and whole-genome sequencing in a consanguineous population. Cell Genomics, 2023, 3, 100218.	6.5	4
251	The integration of large-scale public data and network analysis uncovers molecular characteristics of psoriasis. Human Genomics, 2022, 16, .	2.9	3
252	Genome Editing in Dyslipidemia and Atherosclerosis. Advances in Experimental Medicine and Biology, 2023, , 139-156.	1.6	1
253	Gene editing for dyslipidemias: New tools to â€œcutâ€•lipids. Atherosclerosis, 2023, 368, 14-24.	0.8	5
254	Systematic errors in annotations of truncations, loss-of-function and synonymous variants. Frontiers in Genetics, 0, 14, .	2.3	4
256	Ribonuclease inhibitor 1 (RNH1) deficiency cause congenital cataracts and global developmental delay with infection-induced psychomotor regression and anemia. European Journal of Human Genetics, 2023, 31, 887-894.	2.8	5
257	Precise modulation of transcription factor levels identifies features underlying dosage sensitivity. Nature Genetics, 2023, 55, 841-851.	21.4	23
258	NAT2 global landscape: Genetic diversity and acetylation statuses from a systematic review. PLoS ONE, 2023, 18, e0283726.	2.5	7
259	Soluble interleukin-2 receptor combined with interleukin-8 is a powerful predictor of future adverse cardiovascular events in patients with acute myocardial infarction. Frontiers in Cardiovascular Medicine, 0, 10, .	2.4	2
260	The Multifaceted Role of WNT Signaling in Alzheimerâ€™s Disease Onset and Age-Related Progression. Cells, 2023, 12, 1204.	4.1	1
261	Inosine triphosphate pyrophosphatase: A guardian of the cellular nucleotide pool and potential mediator of <scp>RNA</scp> function. Wiley Interdisciplinary Reviews RNA, 2023, 14, .	6.4	1

#	Article	IF	Citations
263	Epidemiology of Diabetes and Atherosclerotic Cardiovascular Disease Among Asian American Adults: Implications, Management, and Future Directions: A Scientific Statement From the American Heart Association. Circulation, 2023, 148, 74-94.	1.6	11
264	South Asian medical cohorts reveal strong founder effects and high rates of homozygosity. Nature Communications, 2023, 14, .	12.8	8
265	Emerging Lipoprotein-Related Therapeutics for Patients with Diabetes. Contemporary Diabetes, 2023, , 821-878.	0.0	0
266	Recent advances in treating hypertriglyceridemia in patients at high risk of cardiovascular disease with apolipoprotein C-III inhibitors. Expert Opinion on Pharmacotherapy, 2023, 24, 1013-1020.	1.8	7
268	Evolving Therapeutic Targets. , 2024, , 268-274.e1.		0
269	Widespread Involvement of Acetylation in the Retinal Metabolism of Form-Deprivation Myopia in Guinea Pigs. ACS Omega, 2023, 8, 23825-23839.	3.5	1
271	Stealth Liposomes Encapsulating a Potent ACAT1/SOAT1 Inhibitor F12511: Pharmacokinetic, Biodistribution, and Toxicity Studies in Wild-Type Mice and Efficacy Studies in Triple Transgenic Alzheimerâ€™s Disease Mice. International Journal of Molecular Sciences, 2023, 24, 11013.	4.1	0
272	<scp>TMCO3</scp>, a Putative K⁺:Proton Antiporter at the Golgi Apparatus, Is Important for Longitudinal Growth in Mice and Humans. Journal of Bone and Mineral Research, 0, , .	2.8	0
273	Advanced variant classification framework reduces the false positive rate of predicted loss-of-function variants in population sequencing data. American Journal of Human Genetics, 2023, 110, 1496-1508.	6.2	7
274	From target discovery to clinical drug development with human genetics. Nature, 2023, 620, 737-745.	27.8	14
275	Exploring the complex spectrum of dominance and recessiveness in genetic cardiomyopathies. , 0, , .		1
276	Keeping It in the Family: Consanguinity Reveals P4HTM as a Novel Syndromic Obesity Gene. Diabetes, 2023, 72, 1184-1186.	0.6	0
279	Genetic Mutations Reported in Patients of Consanguineous and Nonconsanguineous Marriages who Presented at a Tertiary Health Center for Genetic Counseling. Journal of SAFOG, 2023, 15, 517-525.	0.2	0
281	Exploring apolipoprotein C-III: pathophysiological and pharmacological relevance. Cardiovascular Research, 2024, 119, 2843-2857.	3.8	1
282	Genome sequencing of Pakistani families with male infertility identifies deleterious genotypes in SPAG6, CCDC9, TKTL1, TUBA3C, and M1AP. Andrology, 0, , .	3.5	2
284	Comparative study on genomic and epigenomic profiles of retinoblastoma or tuberous sclerosis complex via nanopore sequencing and a joint screening framework. Cancer Gene Therapy, 0, , .	4.6	0
285	MYH13, a superfast myosin expressed in extraocular, laryngeal and syringeal muscles. Journal of Physiology, 2024, 602, 427-443.	2.9	0
286	From Churchill to Elephants: The Role of Protective Genes against Cancer. Genes, 2024, 15, 118.	2.4	0

#	Article	IF	Citations
287	High-Density Lipoprotein Metabolism and Function in Cardiovascular Diseases: What about Aging and Diet Effects?. Nutrients, 2024, 16, 653.	4.1	0
288	Drug target Mendelian randomization supports apolipoprotein C3-lowering for lipoprotein-lipid levels reductions and cardiovascular diseases prevention. Atherosclerosis, 2024, 391, 117501.	0.8	0
289	The Role of Genetics in Advancing Cardiometabolic Drug Development. Current Atherosclerosis Reports, 0, , .	4.8	0
290	A novel mouse model of familial combined hyperlipidemia and atherosclerosis. Acta Pharmacologica Sinica, 0, , .	6.1	0
292	Discovery of novel genetic syndromes in Latin America: Opportunities and challenges. Genetics and Molecular Biology, 2024, 47, .	1.3	0