David C Samuels

List of Publications by Year
in descending order

210 papers	10,147 citations	38742 50 h-index	42399 92 g-index
216 all docs	216 docs citations	216 times ranked	11574 citing authors

#	Article	IF	Citations
1	Pathogenic Mitochondrial DNA Mutations Are Common in the General Population. American Journal of Human Genetics, 2008, 83, 254-260.	6.2	534
2	Mitochondrial DNA mutations in human colonic crypt stem cells. Journal of Clinical Investigation, 2003, 112, 1351-1360.	8.2	454
3	A reduction of mitochondrial DNA molecules during embryogenesis explains the rapid segregation of genotypes. Nature Genetics, 2008, 40, 249-254.	21.4	438
4	Universal heteroplasmy of human mitochondrial DNA. Human Molecular Genetics, 2013, 22, 384-390.	2.9	344
5	What causes mitochondrial DNA deletions in human cells?. Nature Genetics, 2008, 40, 275-279.	21.4	334
6	Random Intracellular Drift Explains the Clonal Expansion of Mitochondrial DNA Mutations with Age. American Journal of Human Genetics, 2001, 68, 802-806.	6.2	289
7	The inheritance of mitochondrial DNA heteroplasmy: random drift, selection or both?. Trends in Genetics, 2000, 16, 500-505.	6.7	227
8	Accumulation of mitochondrial DNA mutations in ageing, cancer, and mitochondrial disease: is there a common mechanism?. Lancet, The, 2002, 360, 1323-1325.	13.7	203
9	Mitochondrial aging is accelerated by anti-retroviral therapy through the clonal expansion of mtDNA mutations. Nature Genetics, 2011, 43, 806-810.	21.4	201
10	Large Scale Comparison of Gene Expression Levels by Microarrays and RNAseq Using TCGA Data. PLoS ONE, 2013, 8, e71462.	2.5	189
11	Identification of serum metabolites associating with chronic kidney disease progression and anti-fibrotic effect of 5-methoxytryptophan. Nature Communications, 2019, 10, 1476.	12.8	171
12	Relaxed Replication of mtDNA: A Model with Implications for the Expression of Disease. American Journal of Human Genetics, 1999, 64, 1158-1165.	6.2	167
13	Sound Emission due to Superfluid Vortex Reconnections. Physical Review Letters, 2001, 86, 1410-1413.	7.8	164
14	Illumina human exome genotyping array clustering and quality control. Nature Protocols, 2014, 9, 2643-2662.	12.0	153
15	Two direct repeats cause most human mtDNA deletions. Trends in Genetics, 2004, 20, 393-398.	6.7	149
16	Random Genetic Drift Determines the Level of Mutant mtDNA in Human Primary Oocytes. American Journal of Human Genetics, 2001, 68, 533-536.	6.2	147
17	Epigenetics, epidemiology and mitochondrial DNA diseases. International Journal of Epidemiology, 2012, 41, 177-187.	1.9	146
18	Homeostatic Responses Regulate Selfish Mitochondrial Genome Dynamics in C.Âelegans. Cell Metabolism, 2016, 24, 91-103.	16.2	143

#	Article	IF	Citations
19	Three-stage quality control strategies for DNA re-sequencing data. Briefings in Bioinformatics, 2014, 15, 879-889.	6.5	141
20	Kelvin Waves Cascade in Superfluid Turbulence. Physical Review Letters, 2001, 86, 3080-3083.	7.8	138
21	Genome measures used for quality control are dependent on gene function and ancestry. Bioinformatics, 2015, 31, 318-323.	4.1	134
22	Recurrent Tissue-Specific mtDNA Mutations Are Common in Humans. PLoS Genetics, 2013, 9, e1003929.	3.5	130
23	Variation in germline mtDNA heteroplasmy is determined prenatally but modified during subsequent transmission. Nature Genetics, 2012, 44, 1282-1285.	21.4	128
24	Finding the lost treasures in exome sequencing data. Trends in Genetics, 2013, 29, 593-599.	6.7	124
25	Improvements and impacts of GRCh38 human reference on high throughput sequencing data analysis. Genomics, 2017, 109, 83-90.	2.9	123
26	The Diversity Present in 5140 Human Mitochondrial Genomes. American Journal of Human Genetics, 2009, 84, 628-640.	6.2	114
27	Selection against Pathogenic mtDNA Mutations in a Stem Cell Population Leads to the Loss of the 3243Aâ†'G Mutation in Blood. American Journal of Human Genetics, 2008, 82, 333-343.	6.2	112
28	Comparing Phylogeny and the Predicted Pathogenicity of Protein Variations Reveals Equal Purifying Selection across the Global Human mtDNA Diversity. American Journal of Human Genetics, 2011, 88, 433-439.	6.2	103
29	Segregation of mtDNA throughout human embryofetal development: m.3243A>G as a model system. Human Mutation, 2011, 32, 116-125.	2.5	103
30	The effect of strand bias in Illumina short-read sequencing data. BMC Genomics, 2012, 13, 666.	2.8	102
31	Superfluid vortex lines in a model of turbulent flow. Physics of Fluids, 1997, 9, 2631-2643.	4.0	101
32	The Power to Detect Disease Associations with Mitochondrial DNA Haplogroups. American Journal of Human Genetics, 2006, 78, 713-720.	6.2	100
33	OPA1 mutations cause cytochrome c oxidase deficiency due to loss of wild-type mtDNA molecules. Human Molecular Genetics, 2010, 19, 3043-3052.	2.9	95
34	MitoSeek: extracting mitochondria information and performing high-throughput mitochondria sequencing analysis. Bioinformatics, 2013, 29, 1210-1211.	4.1	87
35	Normal Levels of Wild-Type Mitochondrial DNA Maintain Cytochrome c Oxidase Activity for Two Pathogenic Mitochondrial DNA Mutations but Not for m.3243Aâ†'G. American Journal of Human Genetics, 2007, 81, 189-195.	6.2	85
36	Multi-perspective quality control of Illumina exome sequencing data using QC3. Genomics, 2014, 103, 323-328.	2.9	79

#	Article	IF	Citations
37	Evolution of vortex knots. Journal of Fluid Mechanics, 1999, 391, 29-44.	3.4	78
38	Somatic mitochondrial DNA mutations in cancer escape purifying selection and high pathogenicity mutations lead to the oncocytic phenotype: pathogenicity analysis of reported somatic mtDNA mutations in tumors. BMC Cancer, 2012, 12, 53.	2.6	75
39	Velocity matching and Poiseuille pipe flow of superfluid helium. Physical Review B, 1992, 46, 11714-11724.	3.2	73
40	Depletion of mitochondrial DNA in leucocytes harbouring the 3243A->G mtDNA mutation. Journal of Medical Genetics, 2006, 44, 69-74.	3.2	72
41	The Distribution of Mitochondrial DNA Heteroplasmy Due to Random Genetic Drift. American Journal of Human Genetics, 2008, 83, 582-593.	6.2	72
42	Mutation dependance of the mitochondrial DNA copy number in the first stages of human embryogenesis. Human Molecular Genetics, 2013, 22, 1867-1872.	2.9	72
43	High-throughput sequencing in mitochondrial DNA research. Mitochondrion, 2014, 17, 157-163.	3.4	71
44	Multi-perspective quality control of Illumina RNA sequencing data analysis. Briefings in Functional Genomics, 2017, 16, elw035.	2.7	68
45	Mitochondrial DNA Rearrangements in Health and Disease-A Comprehensive Study. Human Mutation, 2014, 35, 1-14.	2.5	67
46	Mitochondrial DNA deletions are associated with non-B DNA conformations. Nucleic Acids Research, 2012, 40, 7606-7621.	14.5	64
47	How tangled is a tangle?. Physica D: Nonlinear Phenomena, 2001, 157, 197-206.	2.8	58
48	High Proportion of Heteroresistance in gyrA and gyrB in Fluoroquinolone-Resistant Mycobacterium tuberculosis Clinical Isolates. Antimicrobial Agents and Chemotherapy, 2014, 58, 3270-3275.	3.2	58
49	Architectures and accuracy of artificial neural network for disease classification from omics data. BMC Genomics, 2019, 20, 167.	2.8	58
50	Triple Vortex Ring Structure in Superfluid Helium II. Science, 2000, 290, 777-779.	12.6	57
51	Strategies for processing and quality control of Illumina genotyping arrays. Briefings in Bioinformatics, 2018, 19, 765-775.	6.5	57
52	Current Research on Non-Coding Ribonucleic Acid (RNA). Genes, 2017, 8, 366.	2.4	54
53	Mitochondrial DNA sequence characteristics modulate the size of the genetic bottleneck. Human Molecular Genetics, 2016, 25, 1031-1041.	2.9	53
54	OSBPL10, RXRA and lipid metabolism confer African-ancestry protection against dengue haemorrhagic fever in admixed Cubans. PLoS Pathogens, 2017, 13, e1006220.	4.7	51

#	Article	IF	Citations
55	Mitochondrial DNA repeats constrain the life span of mammals. Trends in Genetics, 2004, 20, 226-229.	6.7	49
56	The use of next generation sequencing technology to study the effect of radiation therapy on mitochondrial DNA mutation. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 744, 154-160.	1.7	49
57	A Model of the Nuclear Control of Mitochondrial DNA Replication. Journal of Theoretical Biology, 2003, 221, 565-583.	1.7	48
58	Evidence for Variable Selective Pressures at a Large Secondary Structure of the Human Mitochondrial DNA Control Region. Molecular Biology and Evolution, 2008, 25, 2759-2770.	8.9	47
59	Comparative Study of Exome Copy Number Variation Estimation Tools Using Array Comparative Genomic Hybridization as Control. BioMed Research International, 2013, 2013, 1-7.	1.9	47
60	What is influencing the phenotype of the common homozygous polymerase-Î³ mutation p.Ala467Thr?. Brain, 2012, 135, 3614-3626.	7.6	46
61	Evaporation of a Packet of Quantized Vorticity. Physical Review Letters, 2002, 89, 155302.	7.8	44
62	A Review Comparing Deoxyribonucleoside Triphosphate (dNTP) Concentrations in the Mitochondrial and Cytoplasmic Compartments of Normal and Transformed Cells. Nucleosides, Nucleotides and Nucleic Acids, 2011, 30, 317-339.	1.1	44
63	Dynamics of the interactions of rotons with quantized vortices in helium II. Physical Review Letters, 1990, 65, 187-190.	7.8	42
64	Polarization of Superfluid Turbulence. Physical Review Letters, 2002, 89, 275301.	7.8	42
65	Adult-onset spinocerebellar ataxia syndromes due toMTATP6mutations. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, 883-886.	1.9	42
66	Fractal Dimension of Superfluid Turbulence. Physical Review Letters, 2001, 87, 155301.	7.8	41
67	Response of superfluid vortex filaments to concentrated normal-fluid vorticity. Physical Review B, 1993, 47, 1107-1110.	3.2	40
68	No evidence of an association between mitochondrial DNA variants and osteoarthritis in 7393 cases and 5122 controls. Annals of the Rheumatic Diseases, 2013, 72, 136-139.	0.9	39
69	Evaluating Purifying Selection in the Mitochondrial DNA of Various Mammalian Species. PLoS ONE, 2013, 8, e58993.	2.5	39
70	Motion of charged vortex rings in helium II. Physical Review Letters, 1991, 67, 2505-2508.	7.8	38
71	Life span is related to the free energy of mitochondrial DNA. Mechanisms of Ageing and Development, 2005, 126, 1123-1129.	4.6	38
72	Previous Estimates of Mitochondrial DNA Mutation Level Variance Did Not Account for Sampling Error: Comparing the mtDNA Genetic Bottleneck in Mice and Humans. American Journal of Human Genetics, 2010, 86, 540-550.	6.2	37

#	Article	IF	Citations
73	Vortex Heating in Superfluid Helium at Low Temperatures. Physical Review Letters, 1998, 81, 4381-4383.	7.8	36
74	Information for genetic management of mtDNA disease: sampling pathogenic mtDNA mutants in the human germline and in placenta. Journal of Medical Genetics, 2010, 47, 257-261.	3.2	36
75	Mutation-specific effects in germline transmission of pathogenic mtDNA variants. Human Reproduction, 2018, 33, 1331-1341.	0.9	36
76	Equation for Self-Consistent Superfluid Vortex Line Dynamics. Journal of Low Temperature Physics, 2000, 120, 269-280.	1.4	35
77	Alternative applications for distinct RNA sequencing strategies. Briefings in Bioinformatics, 2015, 16, 629-639.	6.5	35
78	The Axon as a Metabolic Compartment: Protein Degradation, Transport, and Maximum Length of an Axon. Journal of Theoretical Biology, 1997, 186, 373-379.	1.7	34
79	The evidence that the DNC (SLC25A19) is not the mitochondrial deoxyribonucleotide carrier. Mitochondrion, 2008, 8, 103-108.	3.4	34
80	Poor Correlations in the Levels of Pathogenic Mitochondrial DNA Mutations in Polar Bodies versus Oocytes and Blastomeres in Humans. American Journal of Human Genetics, 2011, 88, 494-498.	6.2	34
81	RNAseq by Total RNA Library Identifies Additional RNAs Compared to Poly(A) RNA Library. BioMed Research International, 2015, 2015, 1-9.	1.9	34
82	POLG mutations cause decreased mitochondrial DNA repopulation rates following induced depletion in human fibroblasts. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 321-325.	3.8	33
83	Heterozygosity Ratio, a Robust Global Genomic Measure of Autozygosity and Its Association with Height and Disease Risk. Genetics, 2016, 204, 893-904.	2.9	33
84	Power and sample size calculations for high-throughput sequencing-based experiments. Briefings in Bioinformatics, 2018, 19, 1247-1255.	6.5	32
85	Preventing the transmission of pathogenic mitochondrial DNA mutations: can we achieve long-term benefits from germ-line gene transfer?. Human Reproduction, 2013, 28, 554-559.	0.9	31
86	Velocity spectra of superfluid turbulence. Europhysics Letters, 2002, 57, 845-851.	2.0	30
87	Reassessing evidence for a postnatal mitochondrial genetic bottleneck. Nature Genetics, 2010, 42, 471-472.	21.4	30
88	The Bcl-2-associated death promoter (BAD) lowers the threshold at which the Bcl-2-interacting domain death agonist (BID) triggers mitochondria disintegration. Journal of Theoretical Biology, 2011, 271, 114-123.	1.7	30
89	The discrepancy among single nucleotide variants detected by DNA and RNA high throughput sequencing data. BMC Genomics, 2017, 18, 690.	2.8	30
90	Genetic Variation in Iron Metabolism Is Associated with Neuropathic Pain and Pain Severity in HIV-Infected Patients on Antiretroviral Therapy. PLoS ONE, 2014, 9, e103123.	2.5	29

#	Article	IF	Citations
91	Mitochondria sequence mapping strategies and practicability of mitochondria variant detection from exome and RNA sequencing data. Briefings in Bioinformatics, 2016, 17, 224-232.	6.5	29
92	Sideband instability and recurrence of Kelvin waves on vortex cores. Physical Review Letters, 1990, 64, 1385-1388.	7.8	28
93	Scaling Laws of Vortex Reconnections. Journal of Low Temperature Physics, 2004, 136, 281-293.	1.4	28
94	Mitochondrial Haplogroups Are Associated With Severity of Diabetic Retinopathy. , 2014, 55, 5589.		27
95	Mitochondrial DNA Haplogroups and Neurocognitive Impairment During HIV Infection. Clinical Infectious Diseases, 2015, 61, 1476-1484.	5.8	27
96	Genomeâ€wide association study of HIVâ€associated neurocognitive disorder (HAND): A CHARTER group study. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2017, 174, 413-426.	1.7	26
97	Cerebrospinal Fluid Ceruloplasmin, Haptoglobin, and Vascular Endothelial Growth Factor Are Associated with Neurocognitive Impairment in Adults with HIV Infection. Molecular Neurobiology, 2019, 56, 3808-3818.	4.0	26
98	Local normal-fluid helium II flow due to mutual friction interaction with the superfluid. Physical Review B, 2000, 62, 3409-3415.	3.2	25
99	Mitochondrial Haplogroups Affect Severity But Not Prevalence of Diabetic Retinopathy. , 2017, 58, 1346.		25
100	Geometry and Topology of Superfluid Turbulence. Journal of Low Temperature Physics, 2003, 132, 97-117.	1.4	24
101	A computational model of mitochondrial deoxynucleotide metabolism and DNA replication. American Journal of Physiology - Cell Physiology, 2005, 288, C989-C1002.	4.6	24
102	The mitochondrial genome sequence and molecular phylogeny of the turkey, Meleagris gallopavo. Animal Genetics, 2009, 40, 134-141.	1.7	24
103	Mitochondrial DNA variation and HIV-associated sensory neuropathy in CHARTER. Journal of NeuroVirology, 2012, 18, 511-520.	2.1	24
104	Data from Artificial Models of Mitochondrial DNA Disorders Are Not Always Applicable to Humans. Cell Reports, 2014, 7, 933-934.	6.4	23
105	A Damping Length Scale for Superfluid Turbulence. Physical Review Letters, 1999, 83, 5306-5309.	7.8	22
106	Cerebrospinal fluid (CSF) biomarkers of iron status are associated with CSF viral load, antiretroviral therapy, and demographic factors in HIV-infected adults. Fluids and Barriers of the CNS, 2017, 14, 11.	5.0	21
107	Non-Random mtDNA Segregation Patterns Indicate a Metastable Heteroplasmic Segregation Unit in m.3243A>G Cybrid Cells. PLoS ONE, 2012, 7, e52080.	2.5	21
108	The other genome: a systematic review of studies of mitochondrial DNA haplogroups and outcomes of HIV infection and antiretroviral therapy. AIDS Reviews, 2013, 15, 213-20.	1.0	21

#	Article	IF	Citations
109	The length of cytochrome c oxidase-negative segments in muscle fibres in patients with mtDNA myopathy. Neuromuscular Disorders, 2002, 12, 858-864.	0.6	20
110	A compositional segmentation of the human mitochondrial genome is related to heterogeneities in the guanine mutation rate. Nucleic Acids Research, 2003, 31, 6043-6052.	14.5	19
111	Chapter 5 Discrete Stochastic Simulation Methods for Chemically Reacting Systems. Methods in Enzymology, 2009, 454, 115-140.	1.0	19
112	Mitochondrial Genomics and CD4 T-Cell Count Recovery After Antiretroviral Therapy Initiation in AIDS Clinical Trials Group Study 384. Journal of Acquired Immune Deficiency Syndromes (1999), 2011, 58, 363-370.	2.1	19
113	Genomic Positional Dissection of RNA Editomes in Tumor and Normal Samples. Frontiers in Genetics, 2019, 10, 211.	2.3	19
114	LYSMD3: A mammalian pattern recognition receptor for chitin. Cell Reports, 2021, 36, 109392.	6.4	19
115	Mitochondrial AZT metabolism. IUBMB Life, 2006, 58, 403-408.	3.4	18
116	Superfluid vortex reconnections at finite temperature. Europhysics Letters, 2001, 54, 774-778.	2.0	17
117	Quantum Signature of Superfluid Turbulence. Physical Review Letters, 2001, 87, 275302.	7.8	17
118	Is selection required for the accumulation of somatic mitochondrial DNA mutations in post-mitotic cells?. Neuromuscular Disorders, 2006, 16, 381-386.	0.6	17
119	Detecting new neurodegenerative disease genes: does phenotype accuracy limit the horizon?. Trends in Genetics, 2009, 25, 486-488.	6.7	17
120	Mitochondrial Genomics and Antiretroviral Therapy-Associated Metabolic Complications in HIV-Infected Black South Africans: A Pilot Study. AIDS Research and Human Retroviruses, 2013, 29, 1031-1039.	1.1	17
121	Single-nucleotide variants in human RNA: RNA editing and beyond. Briefings in Functional Genomics, 2019, 18, 30-39.	2.7	17
122	Evaluation of Allele Frequency Estimation Using Pooled Sequencing Data Simulation. Scientific World Journal, The, 2013, 2013, 1-9.	2.1	16
123	Estimating relative mitochondrial DNA copy number using high throughput sequencing data. Genomics, 2017, 109, 457-462.	2.9	16
124	Peripheral Blood Mitochondrial DNA Copy Number Obtained From Genome-Wide Genotype Data Is Associated With Neurocognitive Impairment in Persons With Chronic HIV Infection. Journal of Acquired Immune Deficiency Syndromes (1999), 2019, 80, e95-e102.	2.1	16
125	Plasma Arginine and Citrulline are Elevated in Diabetic Retinopathy. American Journal of Ophthalmology, 2022, 235, 154-162.	3.3	16
126	Self-consistent decay of superfluid turbulence. Physical Review B, 1999, 60, 1252-1260.	3.2	15

#	Article	IF	Citations
127	Risk Factors for Symptomatic Hyperlactatemia and Lactic Acidosis Among Combination Antiretroviral Therapy-Treated Adults in Botswana: Results from a Clinical Trial. AIDS Research and Human Retroviruses, 2012, 28, 759-765.	1.1	15
128	StrandScript: evaluation of Illumina genotyping array design and strand correction. Bioinformatics, 2017, 33, 2399-2401.	4.1	15
129	A computational model of mitochondrial AZT metabolism. Biochemical Journal, 2005, 392, 363-373.	3.7	14
130	Mitochondrial DNA Haplogroups and Delirium During Sepsis. Critical Care Medicine, 2019, 47, 1065-1071.	0.9	14
131	Targeting diacylglycerol lipase reduces alcohol consumption in preclinical models. Journal of Clinical Investigation, 2021, 131, .	8.2	13
132	MutEx: a multifaceted gateway for exploring integrative pan-cancer genomic data. Briefings in Bioinformatics, 2020, 21, 1479-1486.	6.5	12
133	Quantized Vortex Knots. Journal of Low Temperature Physics, 1998, 110, 509-514.	1.4	11
134	An Analysis of Enzyme Kinetics Data for Mitochondrial DNA Strand Termination by Nucleoside Reverse Transcription Inhibitors. PLoS Computational Biology, 2009, 5, e1000261.	3.2	11
135	Enzyme Kinetics of the Mitochondrial Deoxyribonucleoside Salvage Pathway Are Not Sufficient to Support Rapid mtDNA Replication. PLoS Computational Biology, 2011, 7, e1002078.	3.2	11
136	Fine Time Scaling of Purifying Selection on Human Nonsynonymous mtDNA Mutations Based on the Worldwide Population Tree and Mother-Child Pairs. Human Mutation, 2015, 36, 1100-1111.	2.5	11
137	Vortex Filament Methods for Superfluids. , 2001, , 97-113.		11
138	Mitochondrial DNA haplogroups and weight gain following switch to integrase strand transfer inhibitor-based antiretroviral therapy. Aids, 2021, 35, 439-445.	2.2	11
139	Two data-driven approaches to identifying the spectrum of problematic opioid use: A pilot study within a chronic pain cohort. International Journal of Medical Informatics, 2021, 156, 104621.	3.3	11
140	Genomic and transcriptomic characterization of the mitochondrial-rich oncocytic phenotype on a thyroid carcinoma background. Mitochondrion, 2019, 46, 123-133.	3.4	10
141	Linear stability of laminar plane Poiseuille flow of helium II under a nonuniform mutual friction forcing. Physics of Fluids, 2001, 13, 983-990.	4.0	9
142	The Role of Mitochondrial DNA Variation in Age-Related Decline in Gait Speed Among Older Men Living With Human Immunodeficiency Virus. Clinical Infectious Diseases, 2018, 67, 778-784.	5.8	9
143	Instabilities during the dendritic and axonal development of neuronal form. Physica A: Statistical Mechanics and Its Applications, 1998, 254, 46-61.	2.6	8
144	Global human frequencies of predicted nuclear pathogenic variants and the role played by protein hydrophobicity in pathogenicity potential. Scientific Reports, 2014, 4, 7155.	3.3	8

#	Article	IF	Citations
145	Mitochondria single nucleotide variation across six blood cell types. Mitochondrion, 2016, 28, 16-22.	3.4	8
146	Relation of Body Mass Index to Symptom Burden in Patients withAtrial Fibrillation. American Journal of Cardiology, 2018, 122, 235-241.	1.6	8
147	Mitochondrial Haplogroups Modify the Effect of Diabetes Duration and HbA_{1c} on Proliferative Diabetic Retinopathy Risk in Patients With Type 2 Diabetes. , 2017, 58, 6481.		7
148	Quality and concordance of genotyping array data of 12,064 samples from 5840 cancer patients. Genomics, 2019, 111, 950-957.	2.9	7
149	Relationships Between Adipose Mitochondrial Function, Serum Adiponectin, and Insulin Resistance in Persons With HIV After 96 Weeks of Antiretroviral Therapy. Journal of Acquired Immune Deficiency Syndromes (1999), 2019, 80, 358-366.	2.1	7
150	Alternative Applications of Genotyping Array Data Using Multivariant Methods. Trends in Genetics, 2020, 36, 857-867.	6.7	7
151	T Cell Activation Markers and African Mitochondrial DNA Haplogroups among Non-Hispanic Black Participants in AIDS Clinical Trials Group Study 384. PLoS ONE, 2012, 7, e43803.	2.5	7
152	European Mitochondrial DNA Haplogroups are Associated with Cerebrospinal Fluid Biomarkers of Inflammation in HIV Infection. Pathogens and Immunity, 2016, 1, 330.	3.1	7
153	Unique mitochondrial DNA in highly inbred feral cattle. Mitochondrion, 2012, 12, 438-440.	3.4	6
154	Epidermal nerve fiber density, oxidative stress, and mitochondrial haplogroups in HIV-infected Thais initiating therapy. Aids, 2014, 28, 1625-1633.	2.2	6
155	Mitochondrial Haplogroups as a Risk Factor for Herpes Zoster. Open Forum Infectious Diseases, 2016, 3, ofw184.	0.9	6
156	STRATEGIES FOR EQUITABLE PHARMACOGENOMIC-GUIDED WARFARIN DOSING AMONG EUROPEAN AND AFRICAN AMERICAN INDIVIDUALS IN A CLINICAL POPULATION. , 2017, 22, 545-556.		6
157	Mitochondrial DNA Haplogroups and Frailty in Adults Living with HIV. AIDS Research and Human Retroviruses, 2020, 36, 214-219.	1.1	6
158	Nucleic acid oxidation is associated with biomarkers of neurodegeneration in CSF in people with HIV. Neurology: Neuroimmunology and NeuroInflammation, 2020, 7, .	6.0	6
159	EditPredict: Prediction of RNA editable sites with convolutional neural network. Genomics, 2021, 113, 3864-3871.	2.9	6
160	Can Superfluid Vortex Lines Excite Normal Fluid Turbulence in 4He?. Journal of Low Temperature Physics, 2000, 121, 377-386.	1.4	5
161	Stable superfluid vortex filament structures in laminar boundary layer flow of helium II. Physical Review B, 2000, 61, 4190-4195.	3.2	5
162	Numerical Methods for Coupled Normal-Fluid and Superfluid Flows in Helium II. , 2001, , 162-176.		5

#	Article	IF	Citations
163	Mitochondrial-encoded membrane protein transcripts are pyrimidine-rich while soluble protein transcripts and ribosomal RNA are purine-rich. BMC Genomics, 2005, 6, 136.	2.8	5
164	Correlated Tissue Expression of Genes of Cytoplasmic and Mitochondrial Nucleotide Metabolisms in Normal Tissues is Disrupted in Transformed Tissues. Nucleosides, Nucleotides and Nucleic Acids, 2012, 31, 112-129.	1.1	5
165	Nuclear-Mitochondrial interactions influence susceptibility to HIV-associated neurocognitive impairment. Mitochondrion, 2019, 46, 247-255.	3.4	5
166	African Mitochondrial DNA Haplogroup L2 Is Associated With Slower Decline of Î²-cell Function and Lower Incidence of Diabetes Mellitus in Non-Hispanic, Black Women Living With Human Immunodeficiency Virus. Clinical Infectious Diseases, 2020, 71, e218-e225.	5.8	5
167	Fate or coincidence: do COPD and major depression share genetic risk factors?. Human Molecular Genetics, 2021, 30, 619-628.	2.9	5
168	Is it time to reassess variant annotation?. Trends in Genetics, 2022, 38, 521-523.	6.7	5
169	Superfluid Vortex Reconnections. Journal of Low Temperature Physics, 2002, 126, 271-279.	1.4	4
170	Reply to Lee and Sawcer. Trends in Genetics, 2010, 26, 242-243.	6.7	4
171	Down syndrome prediction/screening model based on deep learning and illumina genotyping array. , 2017, , .		4
172	Cancer-specific expression quantitative loci are affected by expression dysregulation. Briefings in Bioinformatics, 2020, 21, 338-347.	6.5	4
173	Bi-stream CNN Down Syndrome screening model based on genotyping array. BMC Medical Genomics, 2018, 11, 105.	1.5	4
174	Hemochromatosis (HFE) Gene Variants Are Associated with Increased Mitochondrial DNA Levels During HIV-1 Infection and Antiretroviral Therapy. AIDS Research and Human Retroviruses, 2018, 34, 942-949.	1.1	4
175	Non-canonical RNA-DNA differences and other human genomic features are enriched within very short tandem repeats. PLoS Computational Biology, 2020, 16, e1007968.	3.2	4
176	The effect of a coriolis force on Taylor-Couette flow. Journal of Statistical Physics, 1991, 64, 913-926.	1.2	3
177	Replication Pauses of the Wild-Type and Mutant Mitochondrial DNA Polymerase Gamma: A Simulation Study. PLoS Computational Biology, 2011, 7, e1002287.	3.2	3
178	Practicality of identifying mitochondria variants from exome and RNAseq data. BMC Bioinformatics, 2015, 16, P6.	2.6	3
179	Practicability of mitochondrial heteroplasmy detection through an Illumina genotyping array. Mitochondrion, 2016, 31, 75-78.	3.4	3
180	Response to Yao etÂal.. American Journal of Human Genetics, 2009, 85, 933.	6.2	2

#	Article	IF	Citations
181	The effect of unhealthy Î²-cells on insulin secretion in pancreatic islets. BMC Medical Genomics, 2013, 6, S6.	1.5	2
182	Population structure analysis on 2504 individuals across 26 ancestries using bioinformatics approaches. BMC Bioinformatics, 2015, 16, P19.	2.6	2
183	Tri-allelic heteroplasmies, DNA-RNA differences and their polynucleotide tract associations in the mitochondrial genome. Genomics, 2018, 110, 211-220.	2.9	2
184	Mitochondrial DNA haplogroups and domain-specific neurocognitive performance in adults with HIV. Journal of NeuroVirology, 2021, 27, 557-567.	2.1	2
185	Higher CSF Ferritin Heavy-Chain (Fth1) and Transferrin Predict Better Neurocognitive Performance in People with HIV. Molecular Neurobiology, 2021, 58, 4842-4855.	4.0	2
186	A numerical investigation of vortex-coupled superfluidity. European Physical Journal D, 1996, 46, 29-30.	0.4	1
187	A damping mechanism and length scale for superfluid turbulence. Physica B: Condensed Matter, 2000, 284-288, 71-72.	2.7	1
188	Superfluid turbulence at zero temperature. Physica B: Condensed Matter, 2000, 284-288, 73-74.	2.7	1
189	Formation and decay of vorticity in coupled helium-II flow. Physical Review B, 2000, 63, .	3.2	1
190	A New Interpretation of Oscillating Flow Experiments in Superfluid Helium II. Journal of Low Temperature Physics, 2001, 125, 69-85.	1.4	1
191	Analysis of enzyme kinetic data for mtDNA replication. Methods, 2010, 51, 385-391.	3.8	1
192	Mitochondria and Human Immunodeficiency Virus: A Troubled Relationship Enters Its Fourth Decade. Clinical Infectious Diseases, 2020, 73, e474-e476.	5.8	1
193	Global Autozygosity Is Associated with Cancer Risk, Mutational Signature and Prognosis. Cancers, 2020, 12, 3646.	3.7	1
194	Dynamics of Rotons. NATO ASI Series Series B: Physics, 1991, , 121-130.	0.2	1
195	Momentum statistics of interacting rotons. Physica B: Condensed Matter, 1994, 194-196, 519-520.	2.7	0
196	Parallel Simulations of Neuron Growth. Computers in Physics, 1996, 10, 129.	0.5	0
197	Hybrid Modeling and Simulation of Insulin Secretion Pathway in Pancreatic Islets. , 2010, , .		0
198	The effect of unhealthy β-cells in synchronized insulin secretion. , 2012, , .		0

#	Article	IF	Citations
199	Randomness in the hybrid modeling and simulation of insulin secretion pathways in pancreatic islets. Tsinghua Science and Technology, 2015, 20, 441-452.	6.1	0
200	Computational Models of Mitochondrial DNA in Aging. , 2006, , 591-599.		0
201	Common mtDNA Polymorphisms and Neurodegenerative Disorders. , 2012, , 63-78.		0
202	Vortex Lines in Non-Uniform Flows. , 1998, , 403-411.		0
203	Complexity measures of tangled vortex filaments. , 2002, , 69-74.		0
204	Computational models of antiviral toxicity. Current Opinion in Drug Discovery & Development, 2007, 10, 43-8.	1.9	0
205	Title is missing!. , 2020, 16, e1007968.		0
206	Title is missing!. , 2020, 16, e1007968.		0
207	Title is missing!. , 2020, 16, e1007968.		0
208	Title is missing!. , 2020, 16, e1007968.		0
209	Title is missing!. , 2020, 16, e1007968.		0
210	Title is missing!. , 2020, 16, e1007968.		0