

David C Samuels

List of Publications by Citations

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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.

205
papers

8,137
citations

47
h-index

84
g-index

216
ext. papers

9,297
ext. citations

7
avg, IF

5.88
L-index

#	Paper	IF	Citations
205	Pathogenic mitochondrial DNA mutations are common in the general population. <i>American Journal of Human Genetics</i> , 2008 , 83, 254-60	11	431
204	Mitochondrial DNA mutations in human colonic crypt stem cells. <i>Journal of Clinical Investigation</i> , 2003 , 112, 1351-60	15.9	389
203	A reduction of mitochondrial DNA molecules during embryogenesis explains the rapid segregation of genotypes. <i>Nature Genetics</i> , 2008 , 40, 249-54	36.3	362
202	What causes mitochondrial DNA deletions in human cells?. <i>Nature Genetics</i> , 2008 , 40, 275-9	36.3	302
201	Universal heteroplasmy of human mitochondrial DNA. <i>Human Molecular Genetics</i> , 2013 , 22, 384-90	5.6	278
200	Random intracellular drift explains the clonal expansion of mitochondrial DNA mutations with age. <i>American Journal of Human Genetics</i> , 2001 , 68, 802-6	11	251
199	The inheritance of mitochondrial DNA heteroplasmy: random drift, selection or both?. <i>Trends in Genetics</i> , 2000 , 16, 500-5	8.5	198
198	Accumulation of mitochondrial DNA mutations in ageing, cancer, and mitochondrial disease: is there a common mechanism?. <i>Lancet, The</i> , 2002 , 360, 1323-5	40	181
197	Mitochondrial aging is accelerated by anti-retroviral therapy through the clonal expansion of mtDNA mutations. <i>Nature Genetics</i> , 2011 , 43, 806-10	36.3	160
196	Sound emission due to superfluid vortex reconnections. <i>Physical Review Letters</i> , 2001 , 86, 1410-3	7.4	149
195	Large scale comparison of gene expression levels by microarrays and RNAseq using TCGA data. <i>PLoS ONE</i> , 2013 , 8, e71462	3.7	149
194	Relaxed replication of mtDNA: A model with implications for the expression of disease. <i>American Journal of Human Genetics</i> , 1999 , 64, 1158-65	11	147
193	Two direct repeats cause most human mtDNA deletions. <i>Trends in Genetics</i> , 2004 , 20, 393-8	8.5	140
192	Epigenetics, epidemiology and mitochondrial DNA diseases. <i>International Journal of Epidemiology</i> , 2012 , 41, 177-87	7.8	124
191	Kelvin waves cascade in superfluid turbulence. <i>Physical Review Letters</i> , 2001 , 86, 3080-3	7.4	122
190	Random genetic drift determines the level of mutant mtDNA in human primary oocytes. <i>American Journal of Human Genetics</i> , 2001 , 68, 533-6	11	121
189	Three-stage quality control strategies for DNA re-sequencing data. <i>Briefings in Bioinformatics</i> , 2014 , 15, 879-89	13.4	106

188	Finding the lost treasures in exome sequencing data. <i>Trends in Genetics</i> , 2013 , 29, 593-9	8.5	105
187	Recurrent tissue-specific mtDNA mutations are common in humans. <i>PLoS Genetics</i> , 2013 , 9, e1003929	6	105
186	Variation in germline mtDNA heteroplasmy is determined prenatally but modified during subsequent transmission. <i>Nature Genetics</i> , 2012 , 44, 1282-5	36.3	102
185	Illumina human exome genotyping array clustering and quality control. <i>Nature Protocols</i> , 2014 , 9, 2643-628.8	28.8	101
184	The diversity present in 5140 human mitochondrial genomes. <i>American Journal of Human Genetics</i> , 2009 , 84, 628-40	11	100
183	Identification of serum metabolites associating with chronic kidney disease progression and anti-fibrotic effect of 5-methoxytryptophan. <i>Nature Communications</i> , 2019 , 10, 1476	17.4	95
182	Genome measures used for quality control are dependent on gene function and ancestry. <i>Bioinformatics</i> , 2015 , 31, 318-23	7.2	92
181	Homeostatic Responses Regulate Selfish Mitochondrial Genome Dynamics in <i>C. elegans</i> . <i>Cell Metabolism</i> , 2016 , 24, 91-103	24.6	91
180	The effect of strand bias in Illumina short-read sequencing data. <i>BMC Genomics</i> , 2012 , 13, 666	4.5	85
179	Comparing phylogeny and the predicted pathogenicity of protein variations reveals equal purifying selection across the global human mtDNA diversity. <i>American Journal of Human Genetics</i> , 2011 , 88, 433-9 ¹¹	11	85
178	OPA1 mutations cause cytochrome c oxidase deficiency due to loss of wild-type mtDNA molecules. <i>Human Molecular Genetics</i> , 2010 , 19, 3043-52	5.6	83
177	Superfluid vortex lines in a model of turbulent flow. <i>Physics of Fluids</i> , 1997 , 9, 2631-2643	4.4	82
176	Segregation of mtDNA throughout human embryofetal development: m.3243A>G as a model system. <i>Human Mutation</i> , 2011 , 32, 116-25	4.7	79
175	Response to Yao et al.. <i>American Journal of Human Genetics</i> , 2009 , 85, 933	11	78
174	The power to detect disease associations with mitochondrial DNA haplogroups. <i>American Journal of Human Genetics</i> , 2006 , 78, 713-20	11	78
173	MitoSeek: extracting mitochondria information and performing high-throughput mitochondria sequencing analysis. <i>Bioinformatics</i> , 2013 , 29, 1210-1	7.2	76
172	Selection against pathogenic mtDNA mutations in a stem cell population leads to the loss of the 3243A->G mutation in blood. <i>American Journal of Human Genetics</i> , 2008 , 82, 333-43	11	76
171	Improvements and impacts of GRCh38 human reference on high throughput sequencing data analysis. <i>Genomics</i> , 2017 , 109, 83-90	4.3	66

170	Evolution of vortex knots. <i>Journal of Fluid Mechanics</i> , 1999 , 391, 29-44	3.7	66
169	High-throughput sequencing in mitochondrial DNA research. <i>Mitochondrion</i> , 2014 , 17, 157-63	4.9	65
168	Somatic mitochondrial DNA mutations in cancer escape purifying selection and high pathogenicity mutations lead to the oncocyctic phenotype: pathogenicity analysis of reported somatic mtDNA mutations in tumors. <i>BMC Cancer</i> , 2012 , 12, 53	4.8	64
167	Normal levels of wild-type mitochondrial DNA maintain cytochrome c oxidase activity for two pathogenic mitochondrial DNA mutations but not for m.3243A-->G. <i>American Journal of Human Genetics</i> , 2007 , 81, 189-95	11	63
166	Multi-perspective quality control of Illumina exome sequencing data using QC3. <i>Genomics</i> , 2014 , 103, 323-8	4.3	61
165	Mutation dependance of the mitochondrial DNA copy number in the first stages of human embryogenesis. <i>Human Molecular Genetics</i> , 2013 , 22, 1867-72	5.6	61
164	Velocity matching and Poiseuille pipe flow of superfluid helium. <i>Physical Review B</i> , 1992 , 46, 11714-11724	3.3	61
163	The distribution of mitochondrial DNA heteroplasmy due to random genetic drift. <i>American Journal of Human Genetics</i> , 2008 , 83, 582-93	11	58
162	Mitochondrial DNA rearrangements in health and disease--a comprehensive study. <i>Human Mutation</i> , 2014 , 35, 1-14	4.7	55
161	Depletion of mitochondrial DNA in leucocytes harbouring the 3243A->G mtDNA mutation. <i>Journal of Medical Genetics</i> , 2007 , 44, 69-74	5.8	51
160	How tangled is a tangle?. <i>Physica D: Nonlinear Phenomena</i> , 2001 , 157, 197-206	3.3	50
159	Mitochondrial DNA deletions are associated with non-B DNA conformations. <i>Nucleic Acids Research</i> , 2012 , 40, 7606-21	20.1	49
158	The use of next generation sequencing technology to study the effect of radiation therapy on mitochondrial DNA mutation. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012 , 744, 154-60	3	46
157	Mitochondrial DNA repeats constrain the life span of mammals. <i>Trends in Genetics</i> , 2004 , 20, 226-9	8.5	46
156	High proportion of heteroresistance in gyrA and gyrB in fluoroquinolone-resistant Mycobacterium tuberculosis clinical isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 3270-5	5.9	45
155	Mitochondrial DNA sequence characteristics modulate the size of the genetic bottleneck. <i>Human Molecular Genetics</i> , 2016 , 25, 1031-41	5.6	44
154	Triple vortex ring structure in superfluid helium II. <i>Science</i> , 2000 , 290, 777-9	33.3	44
153	Evidence for variable selective pressures at a large secondary structure of the human mitochondrial DNA control region. <i>Molecular Biology and Evolution</i> , 2008 , 25, 2759-70	8.3	43

152	A review comparing deoxyribonucleoside triphosphate (dNTP) concentrations in the mitochondrial and cytoplasmic compartments of normal and transformed cells. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2011 , 30, 317-39	1.4	41
151	A model of the nuclear control of mitochondrial DNA replication. <i>Journal of Theoretical Biology</i> , 2003 , 221, 565-83	2.3	41
150	OSBPL10, RXRA and lipid metabolism confer African-ancestry protection against dengue haemorrhagic fever in admixed Cubans. <i>PLoS Pathogens</i> , 2017 , 13, e1006220	7.6	41
149	Multi-perspective quality control of Illumina RNA sequencing data analysis. <i>Briefings in Functional Genomics</i> , 2017 , 16, 194-204	4.9	41
148	Evaporation of a packet of quantized vorticity. <i>Physical Review Letters</i> , 2002 , 89, 155302	7.4	40
147	What is influencing the phenotype of the common homozygous polymerase- β mutation p.Ala467Thr?. <i>Brain</i> , 2012 , 135, 3614-26	11.2	39
146	Fractal dimension of superfluid turbulence. <i>Physical Review Letters</i> , 2001 , 87, 155301	7.4	37
145	Polarization of superfluid turbulence. <i>Physical Review Letters</i> , 2002 , 89, 275301	7.4	37
144	Comparative study of exome copy number variation estimation tools using array comparative genomic hybridization as control. <i>BioMed Research International</i> , 2013 , 2013, 915636	3	36
143	Current Research on Non-Coding Ribonucleic Acid (RNA). <i>Genes</i> , 2017 , 8,	4.2	35
142	Response of superfluid vortex filaments to concentrated normal-fluid vorticity. <i>Physical Review B</i> , 1993 , 47, 1107-1110	3.3	35
141	Evaluating purifying selection in the mitochondrial DNA of various mammalian species. <i>PLoS ONE</i> , 2013 , 8, e58993	3.7	33
140	Information for genetic management of mtDNA disease: sampling pathogenic mtDNA mutants in the human germline and in placenta. <i>Journal of Medical Genetics</i> , 2010 , 47, 257-61	5.8	32
139	Equation for Self-Consistent Superfluid Vortex Line Dynamics. <i>Journal of Low Temperature Physics</i> , 2000 , 120, 269-280	1.3	32
138	Dynamics of the interactions of rotons with quantized vortices in helium II. <i>Physical Review Letters</i> , 1990 , 65, 187-190	7.4	32
137	Poor correlations in the levels of pathogenic mitochondrial DNA mutations in polar bodies versus oocytes and blastomeres in humans. <i>American Journal of Human Genetics</i> , 2011 , 88, 494-8	11	31
136	Adult-onset spinocerebellar ataxia syndromes due to MTATP6 mutations. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012 , 83, 883-6	5.5	31
135	Life span is related to the free energy of mitochondrial DNA. <i>Mechanisms of Ageing and Development</i> , 2005 , 126, 1123-9	5.6	31

134	The axon as a metabolic compartment: protein degradation, transport, and maximum length of an axon. <i>Journal of Theoretical Biology</i> , 1997 , 186, 373-9	2.3	30
133	Velocity spectra of superfluid turbulence. <i>Europhysics Letters</i> , 2002 , 57, 845-851	1.6	30
132	Alternative applications for distinct RNA sequencing strategies. <i>Briefings in Bioinformatics</i> , 2015 , 16, 629-39	13.4	29
131	Previous estimates of mitochondrial DNA mutation level variance did not account for sampling error: comparing the mtDNA genetic bottleneck in mice and humans. <i>American Journal of Human Genetics</i> , 2010 , 86, 540-50	11	29
130	The evidence that the DNC (SLC25A19) is not the mitochondrial deoxyribonucleotide carrier. <i>Mitochondrion</i> , 2008 , 8, 103-8	4.9	29
129	POLG mutations cause decreased mitochondrial DNA repopulation rates following induced depletion in human fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011 , 1812, 321-5	6.9	27
128	Vortex Heating in Superfluid Helium at Low Temperatures. <i>Physical Review Letters</i> , 1998 , 81, 4381-4383	7.4	27
127	Strategies for processing and quality control of Illumina genotyping arrays. <i>Briefings in Bioinformatics</i> , 2018 , 19, 765-775	13.4	26
126	RNAseq by Total RNA Library Identifies Additional RNAs Compared to Poly(A) RNA Library. <i>BioMed Research International</i> , 2015 , 2015, 862130	3	26
125	The Bcl-2-associated death promoter (BAD) lowers the threshold at which the Bcl-2-interacting domain death agonist (BID) triggers mitochondria disintegration. <i>Journal of Theoretical Biology</i> , 2011 , 271, 114-23	2.3	26
124	Scaling Laws of Vortex Reconnections. <i>Journal of Low Temperature Physics</i> , 2004 , 136, 281-293	1.3	26
123	No evidence of an association between mitochondrial DNA variants and osteoarthritis in 7393 cases and 5122 controls. <i>Annals of the Rheumatic Diseases</i> , 2013 , 72, 136-9	2.4	25
122	Reassessing evidence for a postnatal mitochondrial genetic bottleneck. <i>Nature Genetics</i> , 2010 , 42, 471-2; author reply 472-3	36.3	25
121	Sideband instability and recurrence of Kelvin waves on vortex cores. <i>Physical Review Letters</i> , 1990 , 64, 1385-1388	7.4	25
120	Architectures and accuracy of artificial neural network for disease classification from omics data. <i>BMC Genomics</i> , 2019 , 20, 167	4.5	24
119	Mitochondria sequence mapping strategies and practicability of mitochondria variant detection from exome and RNA sequencing data. <i>Briefings in Bioinformatics</i> , 2016 , 17, 224-32	13.4	23
118	Genome-wide association study of HIV-associated neurocognitive disorder (HAND): A CHARTER group study. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2017 , 174, 413-426	3.5	23
117	Mitochondrial DNA Haplogroups and Neurocognitive Impairment During HIV Infection. <i>Clinical Infectious Diseases</i> , 2015 , 61, 1476-84	11.6	23

116	Preventing the transmission of pathogenic mitochondrial DNA mutations: Can we achieve long-term benefits from germ-line gene transfer?. <i>Human Reproduction</i> , 2013 , 28, 554-9	5.7	23
115	Power and sample size calculations for high-throughput sequencing-based experiments. <i>Briefings in Bioinformatics</i> , 2018 , 19, 1247-1255	13.4	22
114	The mitochondrial genome sequence and molecular phylogeny of the turkey, <i>Meleagris gallopavo</i> . <i>Animal Genetics</i> , 2009 , 40, 134-41	2.5	22
113	A computational model of mitochondrial deoxynucleotide metabolism and DNA replication. <i>American Journal of Physiology - Cell Physiology</i> , 2005 , 288, C989-1002	5.4	22
112	Genetic variation in iron metabolism is associated with neuropathic pain and pain severity in HIV-infected patients on antiretroviral therapy. <i>PLoS ONE</i> , 2014 , 9, e103123	3.7	21
111	Geometry and Topology of Superfluid Turbulence. <i>Journal of Low Temperature Physics</i> , 2003 , 132, 97-117.	7.3	21
110	Local normal-fluid helium II flow due to mutual friction interaction with the superfluid. <i>Physical Review B</i> , 2000 , 62, 3409-3415	3.3	21
109	The other genome: a systematic review of studies of mitochondrial DNA haplogroups and outcomes of HIV infection and antiretroviral therapy. <i>AIDS Reviews</i> , 2013 , 15, 213-20	1.5	21
108	Mutation-specific effects in germline transmission of pathogenic mtDNA variants. <i>Human Reproduction</i> , 2018 , 33, 1331-1341	5.7	21
107	Mitochondrial DNA variation and HIV-associated sensory neuropathy in CHARTER. <i>Journal of NeuroVirology</i> , 2012 , 18, 511-20	3.9	20
106	A Damping Length Scale for Superfluid Turbulence. <i>Physical Review Letters</i> , 1999 , 83, 5306-5309	7.4	20
105	Data from artificial models of mitochondrial DNA disorders are not always applicable to humans. <i>Cell Reports</i> , 2014 , 7, 933-4	10.6	19
104	The length of cytochrome c oxidase-negative segments in muscle fibres in patients with mtDNA myopathy. <i>Neuromuscular Disorders</i> , 2002 , 12, 858-64	2.9	19
103	Cerebrospinal Fluid Ceruloplasmin, Haptoglobin, and Vascular Endothelial Growth Factor Are Associated with Neurocognitive Impairment in Adults with HIV Infection. <i>Molecular Neurobiology</i> , 2019 , 56, 3808-3818	6.2	19
102	The discrepancy among single nucleotide variants detected by DNA and RNA high throughput sequencing data. <i>BMC Genomics</i> , 2017 , 18, 690	4.5	18
101	Mitochondrial genomics and CD4 T-cell count recovery after antiretroviral therapy initiation in AIDS clinical trials group study 384. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2011 , 58, 363-70 ^{3.1}		18
100	Discrete stochastic simulation methods for chemically reacting systems. <i>Methods in Enzymology</i> , 2009 , 454, 115-40	1.7	17
99	Superfluid vortex reconnections at finite temperature. <i>Europhysics Letters</i> , 2001 , 54, 774-778	1.6	17

98	Heterozygosity Ratio, a Robust Global Genomic Measure of Autozygosity and Its Association with Height and Disease Risk. <i>Genetics</i> , 2016 , 204, 893-904	4	16
97	Is selection required for the accumulation of somatic mitochondrial DNA mutations in post-mitotic cells?. <i>Neuromuscular Disorders</i> , 2006 , 16, 381-6	2.9	16
96	Mitochondrial AZT metabolism. <i>IUBMB Life</i> , 2006 , 58, 403-8	4.7	16
95	Mitochondrial genomics and antiretroviral therapy-associated metabolic complications in HIV-infected Black South Africans: a pilot study. <i>AIDS Research and Human Retroviruses</i> , 2013 , 29, 1031-9 ^{1.6}		15
94	Evaluation of allele frequency estimation using pooled sequencing data simulation. <i>Scientific World Journal, The</i> , 2013 , 2013, 895496	2.2	15
93	Non-random mtDNA segregation patterns indicate a metastable heteroplasmic segregation unit in m.3243A>G cybrid cells. <i>PLoS ONE</i> , 2012 , 7, e52080	3.7	15
92	Mitochondrial haplogroups are associated with severity of diabetic retinopathy 2014 , 55, 5589-95		14
91	A compositional segmentation of the human mitochondrial genome is related to heterogeneities in the guanine mutation rate. <i>Nucleic Acids Research</i> , 2003 , 31, 6043-52	20.1	14
90	A computational model of mitochondrial AZT metabolism. <i>Biochemical Journal</i> , 2005 , 392, 363-73	3.8	14
89	Self-consistent decay of superfluid turbulence. <i>Physical Review B</i> , 1999 , 60, 1252-1260	3.3	14
88	Estimating relative mitochondrial DNA copy number using high throughput sequencing data. <i>Genomics</i> , 2017 , 109, 457-462	4.3	13
87	Risk factors for symptomatic hyperlactatemia and lactic acidosis among combination antiretroviral therapy-treated adults in Botswana: results from a clinical trial. <i>AIDS Research and Human Retroviruses</i> , 2012 , 28, 759-65	1.6	13
86	Detecting new neurodegenerative disease genes: does phenotype accuracy limit the horizon?. <i>Trends in Genetics</i> , 2009 , 25, 486-8	8.5	12
85	Quantum signature of superfluid turbulence. <i>Physical Review Letters</i> , 2001 , 87, 275302	7.4	12
84	Peripheral Blood Mitochondrial DNA Copy Number Obtained From Genome-Wide Genotype Data Is Associated With Neurocognitive Impairment in Persons With Chronic HIV Infection. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2019 , 80, e95-e102	3.1	12
83	Genomic Positional Dissection of RNA Editomes in Tumor and Normal Samples. <i>Frontiers in Genetics</i> , 2019 , 10, 211	4.5	10
82	Cerebrospinal fluid (CSF) biomarkers of iron status are associated with CSF viral load, antiretroviral therapy, and demographic factors in HIV-infected adults. <i>Fluids and Barriers of the CNS</i> , 2017 , 14, 11	7	10
81	Enzyme kinetics of the mitochondrial deoxyribonucleoside salvage pathway are not sufficient to support rapid mtDNA replication. <i>PLoS Computational Biology</i> , 2011 , 7, e1002078	5	10

80	Quantized Vortex Knots. <i>Journal of Low Temperature Physics</i> , 1998 , 110, 509-514	1.3	10
79	Single-nucleotide variants in human RNA: RNA editing and beyond. <i>Briefings in Functional Genomics</i> , 2019 , 18, 30-39	4.9	10
78	Vortex Filament Methods for Superfluids 2001 , 97-113		10
77	Fine Time Scaling of Purifying Selection on Human Nonsynonymous mtDNA Mutations Based on the Worldwide Population Tree and Mother-Child Pairs. <i>Human Mutation</i> , 2015 , 36, 1100-11	4.7	9
76	Mitochondrial DNA Haplogroups and Delirium During Sepsis. <i>Critical Care Medicine</i> , 2019 , 47, 1065-1071	1.4	9
75	An analysis of enzyme kinetics data for mitochondrial DNA strand termination by nucleoside reverse transcription inhibitors. <i>PLoS Computational Biology</i> , 2009 , 5, e1000261	5	8
74	Motion of charged vortex rings in helium II. <i>Physical Review Letters</i> , 1991 , 67, 2505-2508	7.4	8
73	Mitochondrial Haplogroups Affect Severity But Not Prevalence of Diabetic Retinopathy 2017 , 58, 1346-1351		7
72	T cell activation markers and African mitochondrial DNA haplogroups among non-Hispanic black participants in AIDS clinical trials group study 384. <i>PLoS ONE</i> , 2012 , 7, e43803	3.7	7
71	European Mitochondrial DNA Haplogroups are Associated with Cerebrospinal Fluid Biomarkers of Inflammation in HIV Infection. <i>Pathogens and Immunity</i> , 2016 , 1, 330-351	4.9	7
70	Genomic and transcriptomic characterization of the mitochondrial-rich oncocyte phenotype on a thyroid carcinoma background. <i>Mitochondrion</i> , 2019 , 46, 123-133	4.9	7
69	STRATEGIES FOR EQUITABLE PHARMACOGENOMIC-GUIDED WARFARIN DOSING AMONG EUROPEAN AND AFRICAN AMERICAN INDIVIDUALS IN A CLINICAL POPULATION. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2017 , 22, 545-556	1.3	6
68	Mitochondrial Haplogroups Modify the Effect of Diabetes Duration and HbA1c on Proliferative Diabetic Retinopathy Risk in Patients With Type 2 Diabetes 2017 , 58, 6481-6488		6
67	The Role of Mitochondrial DNA Variation in Age-Related Decline in Gait Speed Among Older Men Living With Human Immunodeficiency Virus. <i>Clinical Infectious Diseases</i> , 2018 , 67, 778-784	11.6	6
66	Mitochondria single nucleotide variation across six blood cell types. <i>Mitochondrion</i> , 2016 , 28, 16-22	4.9	6
65	Epidermal nerve fiber density, oxidative stress, and mitochondrial haplogroups in HIV-infected Thais initiating therapy. <i>Aids</i> , 2014 , 28, 1625-33	3.5	6
64	Instabilities during the dendritic and axonal development of neuronal form. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 254, 46-61	3.3	6
63	Linear stability of laminar plane Poiseuille flow of helium II under a nonuniform mutual friction forcing. <i>Physics of Fluids</i> , 2001 , 13, 983-990	4.4	6

62	Relation of Body Mass Index to Symptom Burden in Patients with Atrial Fibrillation. <i>American Journal of Cardiology</i> , 2018 , 122, 235-241	3	6
61	StrandScript: evaluation of Illumina genotyping array design and strand correction. <i>Bioinformatics</i> , 2017 , 33, 2399-2401	7.2	5
60	Global human frequencies of predicted nuclear pathogenic variants and the role played by protein hydrophobicity in pathogenicity potential. <i>Scientific Reports</i> , 2014 , 4, 7155	4.9	5
59	Mitochondrial-encoded membrane protein transcripts are pyrimidine-rich while soluble protein transcripts and ribosomal RNA are purine-rich. <i>BMC Genomics</i> , 2005 , 6, 136	4.5	5
58	Numerical Methods for Coupled Normal-Fluid and Superfluid Flows in Helium II 2001 , 162-176		5
57	Relationships Between Adipose Mitochondrial Function, Serum Adiponectin, and Insulin Resistance in Persons With HIV After 96 Weeks of Antiretroviral Therapy. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2019 , 80, 358-366	3.1	5
56	Quality and concordance of genotyping array data of 12,064 samples from 5840 cancer patients. <i>Genomics</i> , 2019 , 111, 950-957	4.3	4
55	Correlated tissue expression of genes of cytoplasmic and mitochondrial nucleotide metabolisms in normal tissues is disrupted in transformed tissues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2012 , 31, 112-29	1.4	4
54	Unique mitochondrial DNA in highly inbred feral cattle. <i>Mitochondrion</i> , 2012 , 12, 438-40	4.9	4
53	Superfluid Vortex Reconnections. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 271-279	1.3	4
52	Stable superfluid vortex filament structures in laminar boundary layer flow of helium II. <i>Physical Review B</i> , 2000 , 61, 4190-4195	3.3	4
51	Mitochondrial DNA Haplogroups and Frailty in Adults Living with HIV. <i>AIDS Research and Human Retroviruses</i> , 2020 , 36, 214-219	1.6	4
50	MutEx: a multifaceted gateway for exploring integrative pan-cancer genomic data. <i>Briefings in Bioinformatics</i> , 2020 , 21, 1479-1486	13.4	4
49	Practicability of mitochondrial heteroplasmy detection through an Illumina genotyping array. <i>Mitochondrion</i> , 2016 , 31, 75-78	4.9	3
48	Down syndrome prediction/screening model based on deep learning and illumina genotyping array 2017 ,		3
47	Practicality of identifying mitochondria variants from exome and RNAseq data. <i>BMC Bioinformatics</i> , 2015 , 16, P6	3.6	3
46	Replication pauses of the wild-type and mutant mitochondrial DNA polymerase gamma: a simulation study. <i>PLoS Computational Biology</i> , 2011 , 7, e1002287	5	3
45	Can Superfluid Vortex Lines Excite Normal Fluid Turbulence in 4He?. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 377-386	1.3	3

44	The effect of a coriolis force on Taylor-Couette flow. <i>Journal of Statistical Physics</i> , 1991 , 64, 913-926	1.5	3
43	Homeostatic responses regulate selfish mitochondrial genome dynamics in <i>C. elegans</i>		3
42	Alternative Applications of Genotyping Array Data Using Multivariant Methods. <i>Trends in Genetics</i> , 2020 , 36, 857-867	8.5	3
41	Mitochondrial Haplogroups as a Risk Factor for Herpes Zoster. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofw184	1	3
40	Bi-stream CNN Down Syndrome screening model based on genotyping array. <i>BMC Medical Genomics</i> , 2018 , 11, 105	3.7	3
39	Tri-allelic heteroplasmies, DNA-RNA differences and their polynucleotide tract associations in the mitochondrial genome. <i>Genomics</i> , 2017 , 110, 211-211	4.3	2
38	Nuclear-Mitochondrial interactions influence susceptibility to HIV-associated neurocognitive impairment. <i>Mitochondrion</i> , 2019 , 46, 247-255	4.9	2
37	Population structure analysis on 2504 individuals across 26 ancestries using bioinformatics approaches. <i>BMC Bioinformatics</i> , 2015 , 16, P19	3.6	2
36	Reply to Lee and Sawcer. <i>Trends in Genetics</i> , 2010 , 26, 242-243	8.5	2
35	Mitochondrial DNA haplogroups and weight gain following switch to integrase strand transfer inhibitor-based antiretroviral therapy. <i>Aids</i> , 2021 , 35, 439-445	3.5	2
34	Nucleic acid oxidation is associated with biomarkers of neurodegeneration in CSF in people with HIV. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2020 , 7,	9.1	2
33	Fate or coincidence: do COPD and major depression share genetic risk factors?. <i>Human Molecular Genetics</i> , 2021 , 30, 619-628	5.6	2
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