

David C Samuels

List of Publications by Year in descending order

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Version: 2024-02-01

210
papers

10,147
citations

38660

50
h-index

42291

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. | 2.6 | 534 |
| 2 | Mitochondrial DNA mutations in human colonic crypt stem cells. Journal of Clinical Investigation, 2003, 112, 1351-1360. | 3.9 | 454 |
| 3 | A reduction of mitochondrial DNA molecules during embryogenesis explains the rapid segregation of genotypes. Nature Genetics, 2008, 40, 249-254. | 9.4 | 438 |
| 4 | Universal heteroplasmy of human mitochondrial DNA. Human Molecular Genetics, 2013, 22, 384-390. | 1.4 | 344 |
| 5 | What causes mitochondrial DNA deletions in human cells?. Nature Genetics, 2008, 40, 275-279. | 9.4 | 334 |
| 6 | Random Intracellular Drift Explains the Clonal Expansion of Mitochondrial DNA Mutations with Age. American Journal of Human Genetics, 2001, 68, 802-806. | 2.6 | 289 |
| 7 | The inheritance of mitochondrial DNA heteroplasmy: random drift, selection or both?. Trends in Genetics, 2000, 16, 500-505. | 2.9 | 227 |
| 8 | Accumulation of mitochondrial DNA mutations in ageing, cancer, and mitochondrial disease: is there a common mechanism?. Lancet, The, 2002, 360, 1323-1325. | 6.3 | 203 |
| 9 | Mitochondrial aging is accelerated by anti-retroviral therapy through the clonal expansion of mtDNA mutations. Nature Genetics, 2011, 43, 806-810. | 9.4 | 201 |
| 10 | Large Scale Comparison of Gene Expression Levels by Microarrays and RNAseq Using TCGA Data. PLoS ONE, 2013, 8, e71462. | 1.1 | 189 |
| 11 | Identification of serum metabolites associating with chronic kidney disease progression and anti-fibrotic effect of 5-methoxytryptophan. Nature Communications, 2019, 10, 1476. | 5.8 | 171 |
| 12 | Relaxed Replication of mtDNA: A Model with Implications for the Expression of Disease. American Journal of Human Genetics, 1999, 64, 1158-1165. | 2.6 | 167 |
| 13 | Sound Emission due to Superfluid Vortex Reconnections. Physical Review Letters, 2001, 86, 1410-1413. | 2.9 | 164 |
| 14 | Illumina human exome genotyping array clustering and quality control. Nature Protocols, 2014, 9, 2643-2662. | 5.5 | 153 |
| 15 | Two direct repeats cause most human mtDNA deletions. Trends in Genetics, 2004, 20, 393-398. | 2.9 | 149 |
| 16 | Random Genetic Drift Determines the Level of Mutant mtDNA in Human Primary Oocytes. American Journal of Human Genetics, 2001, 68, 533-536. | 2.6 | 147 |
| 17 | Epigenetics, epidemiology and mitochondrial DNA diseases. International Journal of Epidemiology, 2012, 41, 177-187. | 0.9 | 146 |
| 18 | Homeostatic Responses Regulate Selfish Mitochondrial Genome Dynamics in C.Âelegans. Cell Metabolism, 2016, 24, 91-103. | 7.2 | 143 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Three-stage quality control strategies for DNA re-sequencing data. <i>Briefings in Bioinformatics</i> , 2014, 15, 879-889. | 3.2 | 141 |
| 20 | Kelvin Waves Cascade in Superfluid Turbulence. <i>Physical Review Letters</i> , 2001, 86, 3080-3083. | 2.9 | 138 |
| 21 | Genome measures used for quality control are dependent on gene function and ancestry. <i>Bioinformatics</i> , 2015, 31, 318-323. | 1.8 | 134 |
| 22 | Recurrent Tissue-Specific mtDNA Mutations Are Common in Humans. <i>PLoS Genetics</i> , 2013, 9, e1003929. | 1.5 | 130 |
| 23 | Variation in germline mtDNA heteroplasmy is determined prenatally but modified during subsequent transmission. <i>Nature Genetics</i> , 2012, 44, 1282-1285. | 9.4 | 128 |
| 24 | Finding the lost treasures in exome sequencing data. <i>Trends in Genetics</i> , 2013, 29, 593-599. | 2.9 | 124 |
| 25 | Improvements and impacts of GRCh38 human reference on high throughput sequencing data analysis. <i>Genomics</i> , 2017, 109, 83-90. | 1.3 | 123 |
| 26 | The Diversity Present in 5140 Human Mitochondrial Genomes. <i>American Journal of Human Genetics</i> , 2009, 84, 628-640. | 2.6 | 114 |
| 27 | 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, 333-343. | 2.6 | 112 |
| 28 | 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, 433-439. | 2.6 | 103 |
| 29 | Segregation of mtDNA throughout human embryofetal development: m.3243A→G as a model system. <i>Human Mutation</i> , 2011, 32, 116-125. | 1.1 | 103 |
| 30 | The effect of strand bias in Illumina short-read sequencing data. <i>BMC Genomics</i> , 2012, 13, 666. | 1.2 | 102 |
| 31 | Superfluid vortex lines in a model of turbulent flow. <i>Physics of Fluids</i> , 1997, 9, 2631-2643. | 1.6 | 101 |
| 32 | The Power to Detect Disease Associations with Mitochondrial DNA Haplogroups. <i>American Journal of Human Genetics</i> , 2006, 78, 713-720. | 2.6 | 100 |
| 33 | OPA1 mutations cause cytochrome c oxidase deficiency due to loss of wild-type mtDNA molecules. <i>Human Molecular Genetics</i> , 2010, 19, 3043-3052. | 1.4 | 95 |
| 34 | MitoSeek: extracting mitochondria information and performing high-throughput mitochondria sequencing analysis. <i>Bioinformatics</i> , 2013, 29, 1210-1211. | 1.8 | 87 |
| 35 | 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, 189-195. | 2.6 | 85 |
| 36 | Multi-perspective quality control of Illumina exome sequencing data using QC3. <i>Genomics</i> , 2014, 103, 323-328. | 1.3 | 79 |

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|----|--|-----|-----------|
| 37 | Evolution of vortex knots. <i>Journal of Fluid Mechanics</i> , 1999, 391, 29-44. | 1.4 | 78 |
| 38 | Somatic mitochondrial DNA mutations in cancer escape purifying selection and high pathogenicity mutations lead to the oncogenic phenotype: pathogenicity analysis of reported somatic mtDNA mutations in tumors. <i>BMC Cancer</i> , 2012, 12, 53. | 1.1 | 75 |
| 39 | Velocity matching and Poiseuille pipe flow of superfluid helium. <i>Physical Review B</i> , 1992, 46, 11714-11724. | 1.1 | 73 |
| 40 | Depletion of mitochondrial DNA in leucocytes harbouring the 3243A->G mtDNA mutation. <i>Journal of Medical Genetics</i> , 2006, 44, 69-74. | 1.5 | 72 |
| 41 | The Distribution of Mitochondrial DNA Heteroplasmy Due to Random Genetic Drift. <i>American Journal of Human Genetics</i> , 2008, 83, 582-593. | 2.6 | 72 |
| 42 | Mutation dependence of the mitochondrial DNA copy number in the first stages of human embryogenesis. <i>Human Molecular Genetics</i> , 2013, 22, 1867-1872. | 1.4 | 72 |
| 43 | High-throughput sequencing in mitochondrial DNA research. <i>Mitochondrion</i> , 2014, 17, 157-163. | 1.6 | 71 |
| 44 | Multi-perspective quality control of Illumina RNA sequencing data analysis. <i>Briefings in Functional Genomics</i> , 2017, 16, elw035. | 1.3 | 68 |
| 45 | Mitochondrial DNA Rearrangements in Health and Disease-A Comprehensive Study. <i>Human Mutation</i> , 2014, 35, 1-14. | 1.1 | 67 |
| 46 | Mitochondrial DNA deletions are associated with non-B DNA conformations. <i>Nucleic Acids Research</i> , 2012, 40, 7606-7621. | 6.5 | 64 |
| 47 | How tangled is a tangle?. <i>Physica D: Nonlinear Phenomena</i> , 2001, 157, 197-206. | 1.3 | 58 |
| 48 | High Proportion of Heteroresistance in <i>gyrA</i> and <i>gyrB</i> in Fluoroquinolone-Resistant <i>Mycobacterium tuberculosis</i> Clinical Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 3270-3275. | 1.4 | 58 |
| 49 | Architectures and accuracy of artificial neural network for disease classification from omics data. <i>BMC Genomics</i> , 2019, 20, 167. | 1.2 | 58 |
| 50 | Triple Vortex Ring Structure in Superfluid Helium II. <i>Science</i> , 2000, 290, 777-779. | 6.0 | 57 |
| 51 | Strategies for processing and quality control of Illumina genotyping arrays. <i>Briefings in Bioinformatics</i> , 2018, 19, 765-775. | 3.2 | 57 |
| 52 | Current Research on Non-Coding Ribonucleic Acid (RNA). <i>Genes</i> , 2017, 8, 366. | 1.0 | 54 |
| 53 | Mitochondrial DNA sequence characteristics modulate the size of the genetic bottleneck. <i>Human Molecular Genetics</i> , 2016, 25, 1031-1041. | 1.4 | 53 |
| 54 | OSBPL10, RXRA and lipid metabolism confer African-ancestry protection against dengue haemorrhagic fever in admixed Cubans. <i>PLoS Pathogens</i> , 2017, 13, e1006220. | 2.1 | 51 |

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|----|---|-----|-----------|
| 55 | Mitochondrial DNA repeats constrain the life span of mammals. <i>Trends in Genetics</i> , 2004, 20, 226-229. | 2.9 | 49 |
| 56 | 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, 154-160. | 0.9 | 49 |
| 57 | A Model of the Nuclear Control of Mitochondrial DNA Replication. <i>Journal of Theoretical Biology</i> , 2003, 221, 565-583. | 0.8 | 48 |
| 58 | 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, 2759-2770. | 3.5 | 47 |
| 59 | Comparative Study of Exome Copy Number Variation Estimation Tools Using Array Comparative Genomic Hybridization as Control. <i>BioMed Research International</i> , 2013, 2013, 1-7. | 0.9 | 47 |
| 60 | What is influencing the phenotype of the common homozygous polymerase- β mutation p.Ala467Thr?. <i>Brain</i> , 2012, 135, 3614-3626. | 3.7 | 46 |
| 61 | Evaporation of a Packet of Quantized Vorticity. <i>Physical Review Letters</i> , 2002, 89, 155302. | 2.9 | 44 |
| 62 | 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, 317-339. | 0.4 | 44 |
| 63 | Dynamics of the interactions of rotons with quantized vortices in helium II. <i>Physical Review Letters</i> , 1990, 65, 187-190. | 2.9 | 42 |
| 64 | Polarization of Superfluid Turbulence. <i>Physical Review Letters</i> , 2002, 89, 275301. | 2.9 | 42 |
| 65 | Adult-onset spinocerebellar ataxia syndromes due to <i>MTATP6</i> mutations. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012, 83, 883-886. | 0.9 | 42 |
| 66 | Fractal Dimension of Superfluid Turbulence. <i>Physical Review Letters</i> , 2001, 87, 155301. | 2.9 | 41 |
| 67 | Response of superfluid vortex filaments to concentrated normal-fluid vorticity. <i>Physical Review B</i> , 1993, 47, 1107-1110. | 1.1 | 40 |
| 68 | 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, 136-139. | 0.5 | 39 |
| 69 | Evaluating Purifying Selection in the Mitochondrial DNA of Various Mammalian Species. <i>PLoS ONE</i> , 2013, 8, e58993. | 1.1 | 39 |
| 70 | Motion of charged vortex rings in helium II. <i>Physical Review Letters</i> , 1991, 67, 2505-2508. | 2.9 | 38 |
| 71 | Life span is related to the free energy of mitochondrial DNA. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 1123-1129. | 2.2 | 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. <i>American Journal of Human Genetics</i> , 2010, 86, 540-550. | 2.6 | 37 |

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|----|--|-----|-----------|
| 73 | Vortex Heating in Superfluid Helium at Low Temperatures. <i>Physical Review Letters</i> , 1998, 81, 4381-4383. | 2.9 | 36 |
| 74 | 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, 257-261. | 1.5 | 36 |
| 75 | Mutation-specific effects in germline transmission of pathogenic mtDNA variants. <i>Human Reproduction</i> , 2018, 33, 1331-1341. | 0.4 | 36 |
| 76 | Equation for Self-Consistent Superfluid Vortex Line Dynamics. <i>Journal of Low Temperature Physics</i> , 2000, 120, 269-280. | 0.6 | 35 |
| 77 | Alternative applications for distinct RNA sequencing strategies. <i>Briefings in Bioinformatics</i> , 2015, 16, 629-639. | 3.2 | 35 |
| 78 | The Axon as a Metabolic Compartment: Protein Degradation, Transport, and Maximum Length of an Axon. <i>Journal of Theoretical Biology</i> , 1997, 186, 373-379. | 0.8 | 34 |
| 79 | The evidence that the DNC (SLC25A19) is not the mitochondrial deoxyribonucleotide carrier. <i>Mitochondrion</i> , 2008, 8, 103-108. | 1.6 | 34 |
| 80 | 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, 494-498. | 2.6 | 34 |
| 81 | RNaseq by Total RNA Library Identifies Additional RNAs Compared to Poly(A) RNA Library. <i>BioMed Research International</i> , 2015, 2015, 1-9. | 0.9 | 34 |
| 82 | 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, 321-325. | 1.8 | 33 |
| 83 | Heterozygosity Ratio, a Robust Global Genomic Measure of Autozygosity and Its Association with Height and Disease Risk. <i>Genetics</i> , 2016, 204, 893-904. | 1.2 | 33 |
| 84 | Power and sample size calculations for high-throughput sequencing-based experiments. <i>Briefings in Bioinformatics</i> , 2018, 19, 1247-1255. | 3.2 | 32 |
| 85 | 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, 554-559. | 0.4 | 31 |
| 86 | Velocity spectra of superfluid turbulence. <i>Europhysics Letters</i> , 2002, 57, 845-851. | 0.7 | 30 |
| 87 | Reassessing evidence for a postnatal mitochondrial genetic bottleneck. <i>Nature Genetics</i> , 2010, 42, 471-472. | 9.4 | 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. <i>Journal of Theoretical Biology</i> , 2011, 271, 114-123. | 0.8 | 30 |
| 89 | The discrepancy among single nucleotide variants detected by DNA and RNA high throughput sequencing data. <i>BMC Genomics</i> , 2017, 18, 690. | 1.2 | 30 |
| 90 | 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. | 1.1 | 29 |

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|-----|---|-----|-----------|
| 91 | Mitochondria sequence mapping strategies and practicability of mitochondria variant detection from exome and RNA sequencing data. <i>Briefings in Bioinformatics</i> , 2016, 17, 224-232. | 3.2 | 29 |
| 92 | Sideband instability and recurrence of Kelvin waves on vortex cores. <i>Physical Review Letters</i> , 1990, 64, 1385-1388. | 2.9 | 28 |
| 93 | Scaling Laws of Vortex Reconnections. <i>Journal of Low Temperature Physics</i> , 2004, 136, 281-293. | 0.6 | 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. <i>Clinical Infectious Diseases</i> , 2015, 61, 1476-1484. | 2.9 | 27 |
| 96 | 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. | 1.1 | 26 |
| 97 | 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. | 1.9 | 26 |
| 98 | Local normal-fluid helium II flow due to mutual friction interaction with the superfluid. <i>Physical Review B</i> , 2000, 62, 3409-3415. | 1.1 | 25 |
| 99 | Mitochondrial Haplogroups Affect Severity But Not Prevalence of Diabetic Retinopathy. , 2017, 58, 1346. | | 25 |
| 100 | Geometry and Topology of Superfluid Turbulence. <i>Journal of Low Temperature Physics</i> , 2003, 132, 97-117. | 0.6 | 24 |
| 101 | A computational model of mitochondrial deoxynucleotide metabolism and DNA replication. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C989-C1002. | 2.1 | 24 |
| 102 | The mitochondrial genome sequence and molecular phylogeny of the turkey, <i>Meleagris gallopavo</i> . <i>Animal Genetics</i> , 2009, 40, 134-141. | 0.6 | 24 |
| 103 | Mitochondrial DNA variation and HIV-associated sensory neuropathy in CHARTER. <i>Journal of NeuroVirology</i> , 2012, 18, 511-520. | 1.0 | 24 |
| 104 | Data from Artificial Models of Mitochondrial DNA Disorders Are Not Always Applicable to Humans. <i>Cell Reports</i> , 2014, 7, 933-934. | 2.9 | 23 |
| 105 | A Damping Length Scale for Superfluid Turbulence. <i>Physical Review Letters</i> , 1999, 83, 5306-5309. | 2.9 | 22 |
| 106 | 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. | 2.4 | 21 |
| 107 | Non-Random mtDNA Segregation Patterns Indicate a Metastable Heteroplasmic Segregation Unit in m.3243A>G Hybrid Cells. <i>PLoS ONE</i> , 2012, 7, e52080. | 1.1 | 21 |
| 108 | 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. | 0.5 | 21 |

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|-----|--|-----|-----------|
| 109 | The length of cytochrome c oxidase-negative segments in muscle fibres in patients with mtDNA myopathy. <i>Neuromuscular Disorders</i> , 2002, 12, 858-864. | 0.3 | 20 |
| 110 | A compositional segmentation of the human mitochondrial genome is related to heterogeneities in the guanine mutation rate. <i>Nucleic Acids Research</i> , 2003, 31, 6043-6052. | 6.5 | 19 |
| 111 | Chapter 5 Discrete Stochastic Simulation Methods for Chemically Reacting Systems. <i>Methods in Enzymology</i> , 2009, 454, 115-140. | 0.4 | 19 |
| 112 | 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, 363-370. | 0.9 | 19 |
| 113 | Genomic Positional Dissection of RNA Editomes in Tumor and Normal Samples. <i>Frontiers in Genetics</i> , 2019, 10, 211. | 1.1 | 19 |
| 114 | LYSMD3: A mammalian pattern recognition receptor for chitin. <i>Cell Reports</i> , 2021, 36, 109392. | 2.9 | 19 |
| 115 | Mitochondrial AZT metabolism. <i>IUBMB Life</i> , 2006, 58, 403-408. | 1.5 | 18 |
| 116 | Superfluid vortex reconnections at finite temperature. <i>Europhysics Letters</i> , 2001, 54, 774-778. | 0.7 | 17 |
| 117 | Quantum Signature of Superfluid Turbulence. <i>Physical Review Letters</i> , 2001, 87, 275302. | 2.9 | 17 |
| 118 | Is selection required for the accumulation of somatic mitochondrial DNA mutations in post-mitotic cells?. <i>Neuromuscular Disorders</i> , 2006, 16, 381-386. | 0.3 | 17 |
| 119 | Detecting new neurodegenerative disease genes: does phenotype accuracy limit the horizon?. <i>Trends in Genetics</i> , 2009, 25, 486-488. | 2.9 | 17 |
| 120 | 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, 1031-1039. | 0.5 | 17 |
| 121 | Single-nucleotide variants in human RNA: RNA editing and beyond. <i>Briefings in Functional Genomics</i> , 2019, 18, 30-39. | 1.3 | 17 |
| 122 | Evaluation of Allele Frequency Estimation Using Pooled Sequencing Data Simulation. <i>Scientific World Journal, The</i> , 2013, 2013, 1-9. | 0.8 | 16 |
| 123 | Estimating relative mitochondrial DNA copy number using high throughput sequencing data. <i>Genomics</i> , 2017, 109, 457-462. | 1.3 | 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. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2019, 80, e95-e102. | 0.9 | 16 |
| 125 | Plasma Arginine and Citrulline are Elevated in Diabetic Retinopathy. <i>American Journal of Ophthalmology</i> , 2022, 235, 154-162. | 1.7 | 16 |
| 126 | Self-consistent decay of superfluid turbulence. <i>Physical Review B</i> , 1999, 60, 1252-1260. | 1.1 | 15 |

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|-----|---|-----|-----------|
| 127 | 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, 759-765. | 0.5 | 15 |
| 128 | StrandScript: evaluation of Illumina genotyping array design and strand correction. <i>Bioinformatics</i> , 2017, 33, 2399-2401. | 1.8 | 15 |
| 129 | A computational model of mitochondrial AZT metabolism. <i>Biochemical Journal</i> , 2005, 392, 363-373. | 1.7 | 14 |
| 130 | Mitochondrial DNA Haplogroups and Delirium During Sepsis. <i>Critical Care Medicine</i> , 2019, 47, 1065-1071. | 0.4 | 14 |
| 131 | Targeting diacylglycerol lipase reduces alcohol consumption in preclinical models. <i>Journal of Clinical Investigation</i> , 2021, 131, . | 3.9 | 13 |
| 132 | MutEx: a multifaceted gateway for exploring integrative pan-cancer genomic data. <i>Briefings in Bioinformatics</i> , 2020, 21, 1479-1486. | 3.2 | 12 |
| 133 | Quantized Vortex Knots. <i>Journal of Low Temperature Physics</i> , 1998, 110, 509-514. | 0.6 | 11 |
| 134 | An Analysis of Enzyme Kinetics Data for Mitochondrial DNA Strand Termination by Nucleoside Reverse Transcription Inhibitors. <i>PLoS Computational Biology</i> , 2009, 5, e1000261. | 1.5 | 11 |
| 135 | Enzyme Kinetics of the Mitochondrial Deoxyribonucleoside Salvage Pathway Are Not Sufficient to Support Rapid mtDNA Replication. <i>PLoS Computational Biology</i> , 2011, 7, e1002078. | 1.5 | 11 |
| 136 | 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, 1100-1111. | 1.1 | 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. <i>Aids</i> , 2021, 35, 439-445. | 1.0 | 11 |
| 139 | Two data-driven approaches to identifying the spectrum of problematic opioid use: A pilot study within a chronic pain cohort. <i>International Journal of Medical Informatics</i> , 2021, 156, 104621. | 1.6 | 11 |
| 140 | Genomic and transcriptomic characterization of the mitochondrial-rich oncocyctic phenotype on a thyroid carcinoma background. <i>Mitochondrion</i> , 2019, 46, 123-133. | 1.6 | 10 |
| 141 | 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. | 1.6 | 9 |
| 142 | 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. | 2.9 | 9 |
| 143 | Instabilities during the dendritic and axonal development of neuronal form. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 254, 46-61. | 1.2 | 8 |
| 144 | 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. | 1.6 | 8 |

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|-----|--|-----|-----------|
| 145 | Mitochondria single nucleotide variation across six blood cell types. <i>Mitochondrion</i> , 2016, 28, 16-22. | 1.6 | 8 |
| 146 | Relation of Body Mass Index to Symptom Burden in Patients with Atrial Fibrillation. <i>American Journal of Cardiology</i> , 2018, 122, 235-241. | 0.7 | 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. <i>Genomics</i> , 2019, 111, 950-957. | 1.3 | 7 |
| 149 | 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. | 0.9 | 7 |
| 150 | Alternative Applications of Genotyping Array Data Using Multivariant Methods. <i>Trends in Genetics</i> , 2020, 36, 857-867. | 2.9 | 7 |
| 151 | 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. | 1.1 | 7 |
| 152 | European Mitochondrial DNA Haplogroups are Associated with Cerebrospinal Fluid Biomarkers of Inflammation in HIV Infection. <i>Pathogens and Immunity</i> , 2016, 1, 330. | 1.4 | 7 |
| 153 | Unique mitochondrial DNA in highly inbred feral cattle. <i>Mitochondrion</i> , 2012, 12, 438-440. | 1.6 | 6 |
| 154 | Epidermal nerve fiber density, oxidative stress, and mitochondrial haplogroups in HIV-infected Thais initiating therapy. <i>Aids</i> , 2014, 28, 1625-1633. | 1.0 | 6 |
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