# James B Stewart

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3785326/publications.pdf

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| 52 | 5,075 | 109321 | 206112 |
|---|---|---|---|
| papers | citations | 35 h-index | 48 g-index |

| 60 | 60 | 60 | 5645 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The dynamics of mitochondrial DNA heteroplasmy: implications for human health and disease. Nature Reviews Genetics, 2015, 16, 530-542. | 16.3 | 679 |
| 2 | Incorporating Molecular Evolution into Phylogenetic Analysis, and a New Compilation of Conserved Polymerase Chain Reaction Primers for Animal Mitochondrial DNA. Annual Review of Ecology, Evolution, and Systematics, 2006, 37, 545-579. | 8.3 | 496 |
| 3 | Strong Purifying Selection in Transmission of Mammalian Mitochondrial DNA. PLoS Biology, 2008, 6, e10. | 5.6 | 425 |
| 4 | LRPPRC is necessary for polyadenylation and coordination of translation of mitochondrial mRNAs. EMBO Journal, 2012, 31, 443-456. | 7.8 | 264 |
| 5 | Germline mitochondrial DNA mutations aggravate ageing and can impair brain development. Nature, 2013, 501, 412-415. | 27.8 | 231 |
| 6 | Genome editing in mitochondria corrects a pathogenic mtDNA mutation in vivo. Nature Medicine, 2018, 24, 1691-1695. | 30.7 | 215 |
| 7 | MitoTALEN reduces mutant mtDNA load and restores tRNAAla levels in a mouse model of heteroplasmic mtDNA mutation. Nature Medicine, 2018, 24, 1696-1700. | 30.7 | 187 |
| 8 | Ultra-Deep Sequencing of Mouse Mitochondrial DNA: Mutational Patterns and Their Origins. PLoS Genetics, 2011, 7, e1002028. | 3.5 | 162 |
| 9 | Purifying selection of mtDNA and its implications for understanding evolution and mitochondrial disease. Nature Reviews Genetics, 2008, 9, 657-662. | 16.3 | 155 |
| 10 | Extreme heterogeneity of human mitochondrial DNA from organelles to populations. Nature Reviews Genetics, 2021, 22, 106-118. | 16.3 | 139 |
| 11 | Variation in germline mtDNA heteroplasmy is determined prenatally but modified during subsequent transmission. Nature Genetics, 2012, 44, 1282-1285. | 21.4 | 128 |
| 12 | Hierarchical RNA Processing Is Required for Mitochondrial Ribosome Assembly. Cell Reports, 2016, 16, 1874-1890. | 6.4 | 116 |
| 13 | Simultaneous DNA and RNA Mapping of Somatic Mitochondrial Mutations across Diverse Human Cancers. PLoS Genetics, 2015, 11, e1005333. | 3.5 | 102 |
| 14 | A Phenotype-Driven Approach to Generate Mouse Models with Pathogenic mtDNA Mutations Causing Mitochondrial Disease. Cell Reports, 2016, 16, 2980-2990. | 6.4 | 102 |
| 15 | Characterization of mature mitochondrial transcripts in Drosophila, and the implications for the tRNA punctuation model in arthropods. Gene, 2009, 445, 49-57. | 2.2 | 94 |
| 16 | Insect mitochondrial genomics: the complete mitochondrial genome sequence of the meadow spittlebug Philaenus spumarius (Hemiptera: Auchenorrhyncha: Cercopoidae). Genome, 2005, 48, 46-54. | 2.0 | 93 |
| 17 | MTERF1 Binds mtDNA to Prevent Transcriptional Interference at the Light-Strand Promoter but Is Dispensable for rRNA Gene Transcription Regulation. Cell Metabolism, 2013, 17, 618-626. | 16.2 | 93 |
| 18 | No recombination of mtDNA after heteroplasmy for 50 generations in the mouse maternal germline. Nucleic Acids Research, 2014, 42, 1111-1116. | 14.5 | 92 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Keeping mtDNA in Shape between Generations. PLoS Genetics, 2014, 10, e1004670. | 3.5 | 90 |
| 20 | Modulation of mtDNA copy number ameliorates the pathological consequences of a heteroplasmic mtDNA mutation in the mouse. Science Advances, 2019, 5, eaav9824. | 10.3 | 86 |
| 21 | Progressive loss of mitochondrial DNA in thymidine kinase 2-deficient mice. Human Molecular Genetics, 2008, 17, 2329-2335. | 2.9 | 85 |
| 22 | Increased Total mtDNA Copy Number Cures Male Infertility Despite Unaltered mtDNA Mutation Load. Cell Metabolism, 2017, 26, 429-436.e4. | 16.2 | 84 |
| 23 | Phylogenetic and genomic analysis of the complete mitochondrial DNA sequence of the spotted asparagus beetle Crioceris duodecimpunctata. Molecular Phylogenetics and Evolution, 2003, 26, 513-526. | 2.7 | 70 |
| 24 | The exonuclease activity of DNA polymerase Î³ is required for ligation during mitochondrial DNA replication. Nature Communications, 2015, 6, 7303. | 12.8 | 70 |
| 25 | Mitochondrial DNA deletions are associated with non-B DNA conformations. Nucleic Acids Research, 2012, 40, 7606-7621. | 14.5 | 64 |
| 26 | The Challenges of Mitochondrial Replacement. PLoS Genetics, 2014, 10, e1004315. | 3.5 | 61 |
| 27 | In vivo mutagenesis reveals that OriL is essential for mitochondrial DNA replication. EMBO Reports, 2012, 13, 1130-1137. | 4.5 | 59 |
| 28 | Base-excision repair deficiency alone or combined with increased oxidative stress does not increase mtDNA point mutations in mice. Nucleic Acids Research, 2018, 46, 6642-6669. | 14.5 | 58 |
| 29 | Mice lacking the mitochondrial exonuclease MGME1 accumulate mtDNA deletions without developing progeria. Nature Communications, 2018, 9, 1202. | 12.8 | 57 |
| 30 | Insect mitochondrial genomics 3: the complete mitochondrial genome sequences of representatives from two neuropteroid orders: a dobsonfly (order Megaloptera) and a giant lacewing and an owlfly (order Neuroptera). Genome, 2009, 52, 31-38. | 2.0 | 56 |
| 31 | Insect mitochondrial genomics 2: the complete mitochondrial genome sequence of a giant stonefly, Pteronarcys princeps, asymmetric directional mutation bias, and conserved plecopteran A+T-region elements. Genome, 2006, 49, 815-824. | 2.0 | 55 |
| 32 | The Bicoid Stability Factor Controls Polyadenylation and Expression of Specific Mitochondrial mRNAs in Drosophila melanogaster. PLoS Genetics, 2011, 7, e1002324. | 3.5 | 55 |
| 33 | Mitochondrial DNA: Radically free of free-radical driven mutations. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1354-1361. | 1.0 | 52 |
| 34 | Complementation between polymerase- and exonuclease-deficient mitochondrial DNA polymerase mutants in genomically engineered flies. Nature Communications, 2015, 6, 8808. | 12.8 | 48 |
| 35 | Mitochondrial targeted meganuclease as a platform to eliminate mutant mtDNA in vivo. Nature Communications, 2021, 12, 3210. | 12.8 | 42 |
| 36 | Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. PLoS Genetics, 2020, 16, e1009242. | 3.5 | 41 |

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|---|---|---|---|
| 37 | Similar patterns of clonally expanded somatic mtDNA mutations in the colon of heterozygous mtDNA mutator mice and ageing humans. Mechanisms of Ageing and Development, 2014, 139, 22-30. | 4.6 | 33 |
| 38 | Mitochondrial stress response triggered by defects in protein synthesis quality control. Life Science Alliance, 2019, 2, e201800219. | 2.8 | 26 |
| 39 | Mitochondrial DNA heteroplasmy is modulated during oocyte development propagating mutation transmission. Science Advances, 2021, 7, eabi5657. | 10.3 | 22 |
| 40 | Current progress with mammalian models of mitochondrial <scp>DNA</scp> disease. Journal of Inherited Metabolic Disease, 2021, 44, 325-342. | 3.6 | 19 |
| 41 | A novel histochemistry assay to assess and quantify focal cytochrome c oxidase deficiency. Journal of Pathology, 2018, 245, 311-323. | 4.5 | 17 |
| 42 | Large dataset of octocoral mitochondrial genomes provides new insights into mt-mutS evolution and function. DNA Repair, 2022, 110, 103273. | 2.8 | 16 |
| 43 | Tissue-specific modulation of mitochondrial DNA segregation by a defect in mitochondrial division. Human Molecular Genetics, 2016, 25, 706-714. | 2.9 | 11 |
| 44 | Delivery of mtZFNs into Early Mouse Embryos. Methods in Molecular Biology, 2018, 1867, 215-228. | 0.9 | 6 |
| 45 | Addressing RNA Integrity to Determine the Impact of Mitochondrial DNA Mutations on Brain Mitochondrial Function with Age. PLoS ONE, 2014, 9, e96940. | 2.5 | 5 |
| 46 | High-Throughput Detection of mtDNA Mutations Leading to tRNA Processing Errors. Methods in Molecular Biology, 2021, 2192, 117-132. | 0.9 | 4 |
| 47 | Characterization of the sea urchin mitochondrial transcription factor A reveals unusual features. Mitochondrion, 2014, 14, 34-41. | 3.4 | 2 |
| 48 | MitoTALEN reduces mutant mtDNA load and restores tRNAAla levels in a mouse model of heteroplasmic mtDNA mutation. , 0, . | | 1 |
| 49 | Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242. | | 0 |
| 50 | Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242. | | 0 |
| 51 | Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242. | | 0 |
| 52 | Accurate mapping of mitochondrial DNA deletions and duplications using deep sequencing. , 2020, 16, e1009242. | | 0 |