

Justin C St John

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

3,603
citations

185998

28
h-index

138251

58
g-index

65
all docs

65
docs citations

65
times ranked

3856
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial content reflects oocyte variability and fertilization outcome. <i>Fertility and Sterility</i> , 2006, 85, 584-591.	0.5	344
2	Mitochondria directly influence fertilisation outcome in the pig. <i>Reproduction</i> , 2006, 131, 233-245.	1.1	289
3	Mitochondrial DNA replication during differentiation of murine embryonic stem cells. <i>Journal of Cell Science</i> , 2007, 120, 4025-4034.	1.2	261
4	Mitochondrial DNA transmission, replication and inheritance: a journey from the gamete through the embryo and into offspring and embryonic stem cells. <i>Human Reproduction Update</i> , 2010, 16, 488-509.	5.2	234
5	Regulated Mitochondrial DNA Replication During Oocyte Maturation Is Essential for Successful Porcine Embryonic Development. <i>Biology of Reproduction</i> , 2007, 76, 327-335.	1.2	224
6	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. <i>Development (Cambridge)</i> , 2015, 142, 681-691.	1.2	223
7	The Expression of Mitochondrial DNA Transcription Factors during Early Cardiomyocyte In Vitro Differentiation from Human Embryonic Stem Cells. <i>Cloning and Stem Cells</i> , 2005, 7, 141-153.	2.6	216
8	Mitochondrial DNA copy number is regulated in a tissue specific manner by DNA methylation of the nuclear-encoded DNA polymerase gamma A. <i>Nucleic Acids Research</i> , 2012, 40, 10124-10138.	6.5	154
9	The identification of mitochondrial DNA variants in glioblastoma multiforme. <i>Acta Neuropathologica Communications</i> , 2014, 2, 1.	2.4	143
10	The expression of polymerase gamma and mitochondrial transcription factor A and the regulation of mitochondrial DNA content in mature human sperm. <i>Human Reproduction</i> , 2007, 22, 1585-1596.	0.4	116
11	The impact of mitochondrial genetics on male infertility. <i>Journal of Developmental and Physical Disabilities</i> , 2005, 28, 65-73.	3.6	111
12	The consequences of nuclear transfer for mammalian foetal development and offspring survival. A mitochondrial DNA perspective. <i>Reproduction</i> , 2004, 127, 631-641.	1.1	81
13	Paternal Mitochondrial DNA Transmission During Nonhuman Primate Nuclear Transfer. <i>Genetics</i> , 2004, 167, 897-905.	1.2	71
14	Mitochondrial DNA Haplotypes Define Gene Expression Patterns in Pluripotent and Differentiating Embryonic Stem Cells. <i>Stem Cells</i> , 2013, 31, 703-716.	1.4	65
15	Restoration of normal embryogenesis by mitochondrial supplementation in pig oocytes exhibiting mitochondrial DNA deficiency. <i>Scientific Reports</i> , 2016, 6, 23229.	1.6	65
16	Aberrant Nucleo-cytoplasmic Cross-Talk Results in Donor Cell mtDNA Persistence in Cloned Embryos. <i>Genetics</i> , 2006, 172, 2515-2527.	1.2	61
17	Contrasting Effects of in Vitro Fertilization and Nuclear Transfer on the Expression of mtDNA Replication Factors. <i>Genetics</i> , 2007, 176, 1511-1526.	1.2	55
18	The Analysis of Mitochondria and Mitochondrial DNA in Human Embryonic Stem Cells. , 2006, 331, 347-374.		49

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19	The Effects of Nuclear Reprogramming on Mitochondrial DNA Replication. <i>Stem Cell Reviews and Reports</i> , 2013, 9, 1-15.	5.6	48
20	Lipopolysaccharide promotes Drp1-dependent mitochondrial fission and associated inflammatory responses in macrophages. <i>Immunology and Cell Biology</i> , 2020, 98, 528-539.	1.0	47
21	Ooplasm donation in humans: The need to investigate the transmission of mitochondrial DNA following cytoplasmic transfer. <i>Human Reproduction</i> , 2002, 17, 1954-1958.	0.4	46
22	Mitochondrial DNA copy number and replication in reprogramming and differentiation. <i>Seminars in Cell and Developmental Biology</i> , 2016, 52, 93-101.	2.3	46
23	The relationship between mitochondrial DNA haplotype and the reproductive capacity of domestic pigs (<i>Sus scrofa domestica</i>). <i>BMC Genetics</i> , 2016, 17, 67.	2.7	42
24	The role of the mtDNA set point in differentiation, development and tumorigenesis. <i>Biochemical Journal</i> , 2016, 473, 2955-2971.	1.7	40
25	Global DNA methylation synergistically regulates the nuclear and mitochondrial genomes in glioblastoma cells. <i>Nucleic Acids Research</i> , 2018, 46, 5977-5995.	6.5	40
26	Interspecies Somatic Cell Nuclear Transfer Is Dependent on Compatible Mitochondrial DNA and Reprogramming Factors. <i>PLoS ONE</i> , 2011, 6, e14805.	1.1	40
27	Aberrant heteroplasmic transmission of mtDNA in cloned pigs arising from double nuclear transfer. <i>Molecular Reproduction and Development</i> , 2005, 72, 450-460.	1.0	38
28	Mitochondrial DNA haplotypes induce differential patterns of DNA methylation that result in differential chromosomal gene expression patterns. <i>Cell Death Discovery</i> , 2017, 3, 17062.	2.0	33
29	The degree of mitochondrial DNA methylation in tumor models of glioblastoma and osteosarcoma. <i>Clinical Epigenetics</i> , 2018, 10, 157.	1.8	32
30	Generation of mtDNA Homoplasmic Cloned Lambs. <i>Cellular Reprogramming</i> , 2010, 12, 347-355.	0.5	31
31	Modulation of mitochondrial DNA copy number in a model of glioblastoma induces changes to DNA methylation and gene expression of the nuclear genome in tumours. <i>Epigenetics and Chromatin</i> , 2018, 11, 53.	1.8	30
32	The potential risks of abnormal transmission of mtDNA through assisted reproductive technologies. <i>Reproductive BioMedicine Online</i> , 2004, 8, 34-44.	1.1	28
33	Transmission, inheritance and replication of mitochondrial DNA in mammals: implications for reproductive processes and infertility. <i>Cell and Tissue Research</i> , 2012, 349, 795-808.	1.5	27
34	The effects of mitochondrial DNA supplementation at the time of fertilization on the gene expression profiles of porcine preimplantation embryos. <i>Molecular Reproduction and Development</i> , 2018, 85, 490-504.	1.0	23
35	Segregation of Naturally Occurring Mitochondrial DNA Variants in a Mini-Pig Model. <i>Genetics</i> , 2016, 202, 931-944.	1.2	20
36	The association of mitochondrial DNA haplotypes and phenotypic traits in pigs. <i>BMC Genetics</i> , 2018, 19, 41.	2.7	20

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37	Additional mitochondrial DNA influences the interactions between the nuclear and mitochondrial genomes in a bovine embryo model of nuclear transfer. <i>Scientific Reports</i> , 2018, 8, 7246.	1.6	20
38	Manipulating the Mitochondrial Genome To Enhance Cattle Embryo Development. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2065-2080.	0.8	19
39	The molecular characterisation of mitochondrial DNA deficient oocytes using a pig model. <i>Human Reproduction</i> , 2018, 33, 942-953.	0.4	19
40	Cattle phenotypes can disguise their maternal ancestry. <i>BMC Genetics</i> , 2017, 18, 59.	2.7	15
41	Mitochondria and Female Germline Stem Cells – A Mitochondrial DNA Perspective. <i>Cells</i> , 2019, 8, 852.	1.8	13
42	The role of mitochondrial DNA copy number, variants, and haplotypes in farm animal developmental outcome. <i>Domestic Animal Endocrinology</i> , 2016, 56, S133-S146.	0.8	12
43	Genomic Balance: Two Genomes Establishing Synchrony to Modulate Cellular Fate and Function. <i>Cells</i> , 2019, 8, 1306.	1.8	12
44	The transgenerational effects of oocyte mitochondrial supplementation. <i>Scientific Reports</i> , 2019, 9, 6694.	1.6	11
45	Transmission of Dysfunctional Mitochondrial DNA and Its Implications for Mammalian Reproduction. <i>Advances in Anatomy, Embryology and Cell Biology</i> , 2019, 231, 75-103.	1.0	11
46	The molecular characterization of porcine egg precursor cells. <i>Oncotarget</i> , 2017, 8, 63484-63505.	0.8	10
47	Deletion of the Complex I Subunit NDUFS4 Adversely Modulates Cellular Differentiation. <i>Stem Cells and Development</i> , 2016, 25, 239-250.	1.1	8
48	The mitochondrial genome: how it drives fertility. <i>Reproduction, Fertility and Development</i> , 2018, 30, 118.	0.1	8
49	The mitochondrion, its genome and their contribution to well-being and disease. <i>Molecular Human Reproduction</i> , 2015, 21, 1-2.	1.3	7
50	Mitochondrial supplementation of <i>Sus scrofa</i> metaphase II oocytes alters DNA methylation and gene expression profiles of blastocysts. <i>Epigenetics and Chromatin</i> , 2022, 15, 12.	1.8	6
51	Analysis of Mitochondrial DNA Copy Number and Its Regulation Through DNA Methylation of POLGA. <i>Methods in Molecular Biology</i> , 2016, 1351, 131-141.	0.4	5
52	Analysis of Upstream Regulators, Networks, and Pathways Associated With the Expression Patterns of Polycystic Ovary Syndrome Candidate Genes During Fetal Ovary Development. <i>Frontiers in Genetics</i> , 2021, 12, 762177.	1.1	5
53	Sperm mitochondria and fertilisation. <i>Society of Reproduction and Fertility Supplement</i> , 2007, 65, 399-416.	0.2	5
54	Stem-cell banking: the size of the task. <i>Lancet, The</i> , 2005, 366, 1991-1992.	6.3	4

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55	Mitochondrial DNA supplementation as an enhancer of female reproductive capacity. <i>Current Opinion in Obstetrics and Gynecology</i> , 2016, 28, 211-216.	0.9	4
56	Modulation of Mitochondrial DNA Copy Number to Induce Hepatocytic Differentiation of Human Amniotic Epithelial Cells. <i>Stem Cells and Development</i> , 2017, 26, 1505-1519.	1.1	4
57	Analysis of the Mitochondrial DNA and Its Replicative Capacity in Induced Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2014, 1357, 231-267.	0.4	3
58	Analysis of Mitochondrial DNA in Induced Pluripotent and Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2015, 1330, 219-252.	0.4	3
59	The Control of Mitochondrial DNA Replication in Gametes, Embryos, and Early Development.. <i>Biology of Reproduction</i> , 2012, 87, 109-109.	1.2	2
60	Ancestral dietary change alters the development of <i>Drosophila</i> larvae through MAPK signalling. <i>Fly</i> , 2022, 16, 298-310.	0.9	2
61	Epigenetic Regulation of the Nuclear and Mitochondrial Genomes: Involvement in Metabolism, Development, and Disease. <i>Annual Review of Animal Biosciences</i> , 2021, 9, 203-224.	3.6	1
62	Low guanine content and biased nucleotide distribution in vertebrate mtDNA can cause overestimation of non-CpG methylation. <i>NAR Genomics and Bioinformatics</i> , 2022, 4, lqab119.	1.5	0