Justin C St John

List of Publications by Year
in descending order

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	Low guanine content and biased nucleotide distribution in vertebrate mtDNA can cause overestimation of non-CpG methylation. NAR Genomics and Bioinformatics, 2022, 4, lqab119.	1.5	0
2	Mitochondrial supplementation of Sus scrofa metaphase II oocytes alters DNA methylation and gene expression profiles of blastocysts. Epigenetics and Chromatin, 2022, 15, 12.	1.8	6
3	Ancestral dietary change alters the development of <i>Drosophila</i> larvae through MAPK signalling. Fly, 2022, 16, 298-310.	0.9	2
4	Epigenetic Regulation of the Nuclear and Mitochondrial Genomes: Involvement in Metabolism, Development, and Disease. Annual Review of Animal Biosciences, 2021, 9, 203-224.	3.6	1
5	Analysis of Upstream Regulators, Networks, and Pathways Associated With the Expression Patterns of Polycystic Ovary Syndrome Candidate Genes During Fetal Ovary Development. Frontiers in Genetics, 2021, 12, 762177.	1.1	5
6	Lipopolysaccharide promotes Drp1â€dependent mitochondrial fission and associated inflammatory responses in macrophages. Immunology and Cell Biology, 2020, 98, 528-539.	1.0	47
7	Mitochondria and Female Germline Stem Cellsâ€"A Mitochondrial DNA Perspective. Cells, 2019, 8, 852.	1.8	13
8	Genomic Balance: Two Genomes Establishing Synchrony to Modulate Cellular Fate and Function. Cells, 2019, 8, 1306.	1.8	12
9	The transgenerational effects of oocyte mitochondrial supplementation. Scientific Reports, 2019, 9, 6694.	1.6	11
10	Transmission of Dysfunctional Mitochondrial DNA and Its Implications for Mammalian Reproduction. Advances in Anatomy, Embryology and Cell Biology, 2019, 231, 75-103.	1.0	11
11	The effects of mitochondrial DNA supplementation at the time of fertilization on the gene expression profiles of porcine preimplantation embryos. Molecular Reproduction and Development, 2018, 85, 490-504.	1.0	23
12	The molecular characterisation of mitochondrial DNA deficient oocytes using a pig model. Human Reproduction, 2018, 33, 942-953.	0.4	19
13	Global DNA methylation synergistically regulates the nuclear and mitochondrial genomes in glioblastoma cells. Nucleic Acids Research, 2018, 46, 5977-5995.	6.5	40
14	The degree of mitochondrial DNA methylation in tumor models of glioblastoma and osteosarcoma. Clinical Epigenetics, 2018, 10, 157.	1.8	32
15	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. Epigenetics and Chromatin, 2018, 11, 53.	1.8	30
16	The association of mitochondrial DNA haplotypes and phenotypic traits in pigs. BMC Genetics, 2018, 19, 41.	2.7	20
17	Additional mitochondrial DNA influences the interactions between the nuclear and mitochondrial genomes in a bovine embryo model of nuclear transfer. Scientific Reports, 2018, 8, 7246.	1.6	20
18	The mitochondrial genome: how it drives fertility. Reproduction, Fertility and Development, 2018, 30, 118.	0.1	8

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19	Manipulating the Mitochondrial Genome To Enhance Cattle Embryo Development. G3: Genes, Genomes, Genetics, 2017, 7, 2065-2080.	0.8	19
20	Mitochondrial DNA haplotypes induce differential patterns of DNA methylation that result in differential chromosomal gene expression patterns. Cell Death Discovery, 2017, 3, 17062.	2.0	33
21	Modulation of Mitochondrial DNA Copy Number to Induce Hepatocytic Differentiation of Human Amniotic Epithelial Cells. Stem Cells and Development, 2017, 26, 1505-1519.	1.1	4
22	Cattle phenotypes can disguise their maternal ancestry. BMC Genetics, 2017, 18, 59.	2.7	15
23	The molecular characterization of porcine egg precursor cells. Oncotarget, 2017, 8, 63484-63505.	0.8	10
24	Mitochondrial DNA supplementation as an enhancer of female reproductive capacity. Current Opinion in Obstetrics and Gynecology, 2016, 28, 211-216.	0.9	4
25	The role of mitochondrial DNA copy number, variants, and haplotypes in farm animal developmental outcome. Domestic Animal Endocrinology, 2016, 56, S133-S146.	0.8	12
26	The relationship between mitochondrial DNA haplotype and the reproductive capacity of domestic pigs (Sus scrofa domesticus). BMC Genetics, 2016, 17, 67.	2.7	42
27	The role of the mtDNA set point in differentiation, development and tumorigenesis. Biochemical Journal, 2016, 473, 2955-2971.	1.7	40
28	Restoration of normal embryogenesis by mitochondrial supplementation in pig oocytes exhibiting mitochondrial DNA deficiency. Scientific Reports, 2016, 6, 23229.	1.6	65
29	Segregation of Naturally Occurring Mitochondrial DNA Variants in a Mini-Pig Model. Genetics, 2016, 202, 931-944.	1.2	20
30	Mitochondrial DNA copy number and replication in reprogramming and differentiation. Seminars in Cell and Developmental Biology, 2016, 52, 93-101.	2.3	46
31	Deletion of the Complex I Subunit NDUFS4 Adversely Modulates Cellular Differentiation. Stem Cells and Development, 2016, 25, 239-250.	1.1	8
32	Analysis of Mitochondrial DNA Copy Number and Its Regulation Through DNA Methylation of POLGA. Methods in Molecular Biology, 2016, 1351, 131-141.	0.4	5
33	Mitochondrial dysfunction in oocytes of obese mothers: transmission to offspring and reversal by pharmacological endoplasmic reticulum stress inhibitors. Development (Cambridge), 2015, 142, 681-691.	1.2	223
34	The mitochondrion, its genome and their contribution to well-being and disease. Molecular Human Reproduction, 2015, 21, 1-2.	1.3	7
35	Analysis of Mitochondrial DNA in Induced Pluripotent and Embryonic Stem Cells. Methods in Molecular Biology, 2015, 1330, 219-252.	0.4	3
36	Analysis of the Mitochondrial DNA and Its Replicative Capacity in Induced Pluripotent Stem Cells. Methods in Molecular Biology, 2014, 1357, 231-267.	0.4	3

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37	The identification of mitochondrial DNA variants in glioblastoma multiforme. Acta Neuropathologica Communications, 2014, 2, 1.	2.4	143
38	The Effects of Nuclear Reprogramming on Mitochondrial DNA Replication. Stem Cell Reviews and Reports, 2013, 9, 1-15.	5.6	48
39	Mitochondrial DNA Haplotypes Define Gene Expression Patterns in Pluripotent and Differentiating Embryonic Stem Cells. Stem Cells, 2013, 31, 703-716.	1.4	65
40	Mitochondrial DNA copy number is regulated in a tissue specific manner by DNA methylation of the nuclear-encoded DNA polymerase gamma A. Nucleic Acids Research, 2012, 40, 10124-10138.	6.5	154
41	Transmission, inheritance and replication of mitochondrial DNA in mammals: implications for reproductive processes and infertility. Cell and Tissue Research, 2012, 349, 795-808.	1.5	27
42	The Control of Mitochondrial DNA Replication in Gametes, Embryos, and Early Development.. Biology of Reproduction, 2012, 87, 109-109.	1.2	2
43	Interspecies Somatic Cell Nuclear Transfer Is Dependent on Compatible Mitochondrial DNA and Reprogramming Factors. PLoS ONE, 2011, 6, e14805.	1.1	40
44	Generation of mtDNA Homoplasmic Cloned Lambs. Cellular Reprogramming, 2010, 12, 347-355.	0.5	31
45	Mitochondrial DNA transmission, replication and inheritance: a journey from the gamete through the embryo and into offspring and embryonic stem cells. Human Reproduction Update, 2010, 16, 488-509.	5.2	234
46	Mitochondrial DNA replication during differentiation of murine embryonic stem cells. Journal of Cell Science, 2007, 120, 4025-4034.	1.2	261
47	Regulated Mitochondrial DNA Replication During Oocyte Maturation Is Essential for Successful Porcine Embryonic Development. Biology of Reproduction, 2007, 76, 327-335.	1.2	224
48	The expression of polymerase gamma and mitochondrial transcription factor A and the regulation of mitochondrial DNA content in mature human sperm. Human Reproduction, 2007, 22, 1585-1596.	0.4	116
49	Contrasting Effects of in Vitro Fertilization and Nuclear Transfer on the Expression of mtDNA Replication Factors. Genetics, 2007, 176, 1511-1526.	1.2	55
50	Sperm mitochondria and fertilisation. Society of Reproduction and Fertility Supplement, 2007, 65, 399-416.	0.2	5
51	Mitochondria directly influence fertilisation outcome in the pig. Reproduction, 2006, 131, 233-245.	1.1	289
52	Mitochondrial content reflects oocyte variability and fertilization outcome. Fertility and Sterility, 2006, 85, 584-591.	0.5	344
53	Aberrant Nucleo-cytoplasmic Cross-Talk Results in Donor Cell mtDNA Persistence in Cloned Embryos. Genetics, 2006, 172, 2515-2527.	1.2	61
54	The Analysis of Mitochondria and Mitochondrial DNA in Human Embryonic Stem Cells. , 2006, 331, 347-374.		49

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55	Aberrant heteroplasmic transmission of mtDNA in cloned pigs arising from double nuclear transfer. Molecular Reproduction and Development, 2005, 72, 450-460.	1.0	38
56	The impact of mitochondrial genetics on male infertility. Journal of Developmental and Physical Disabilities, 2005, 28, 65-73.	3.6	111
57	Stem-cell banking: the size of the task. Lancet, The, 2005, 366, 1991-1992.	6.3	4
58	The Expression of Mitochondrial DNA Transcription Factors during Early Cardiomyocyte In Vitro Differentiation from Human Embryonic Stem Cells. Cloning and Stem Cells, 2005, 7, 141-153.	2.6	216
59	The consequences of nuclear transfer for mammalian foetal development and offspring survival. A mitochondrial DNA perspective. Reproduction, 2004, 127, 631-641.	1.1	81
60	Paternal Mitochondrial DNA Transmission During Nonhuman Primate Nuclear Transfer. Genetics, 2004, 167, 897-905.	1.2	71
61	The potential risks of abnormal transmission of mtDNA through assisted reproductive technologies. Reproductive BioMedicine Online, 2004, 8, 34-44.	1.1	28
62	Ooplasm donation in humans: The need to investigate the transmission of mitochondrial DNA following cytoplasmic transfer. Human Reproduction, 2002, 17, 1954-1958.	0.4	46