

Function of sperm chromatin structural elements in fer

Molecular Human Reproduction

16, 30-36

DOI: [10.1093/molehr/gap080](https://doi.org/10.1093/molehr/gap080)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Effect on Intracytoplasmic Sperm Injection Outcome of Genotype, Male Germ Cell Stage and Freeze-Thawing in Mice. PLoS ONE, 2010, 5, e11062.	1.1	29
2	Sperm DNA fragmentation induced by DNase I and hydrogen peroxide: an in vitro comparative study among different mammalian species. Reproduction, 2010, 140, 445-452.	1.1	55
3	Male Fertility, Chromosome Abnormalities, and Nuclear Organization. Cytogenetic and Genome Research, 2011, 133, 269-279.	0.6	26
5	Biennial Review of Infertility. , 2011, , .		0
6	Clinical Significance of Sperm RNA. , 2011, , 259-274.		0
7	Spermiogenesis in Sperm Genetic Integrity. , 2011, , 307-320.		0
8	Clinical Significance of Sperm DNA Damage Threshold Value in the Assessment of Male Infertility. Reproductive Sciences, 2011, 18, 1005-1013.	1.1	83
9	Organization of Chromosomes During Spermatogenesis and in Mature Sperm. Epigenetics and Human Health, 2011, , 261-277.	0.2	1
10	Histone Variants during Gametogenesis and Early Development. Epigenetics and Human Health, 2011, , 187-212.	0.2	1
11	Scrotal insulation and its relationship to abnormal morphology, chromatin protamination and nuclear shape of spermatozoa in Holstein-Friesian and Belgian Blue bulls. Theriogenology, 2011, 76, 1246-1257.	0.9	89
12	Epigenetic Memory in Mammals. Frontiers in Genetics, 2011, 2, 28.	1.1	67
13	Proteomics and the genetics of sperm chromatin condensation. Asian Journal of Andrology, 2011, 13, 24-30.	0.8	63
14	Non-genetic contributions of the sperm nucleus to embryonic development. Asian Journal of Andrology, 2011, 13, 31-35.	0.8	56
15	Sumo1-ylation of human spermatozoa and its relationship with semen quality. Journal of Developmental and Physical Disabilities, 2011, 34, 581-593.	3.6	34
16	Effect of microsurgical varicocelectomy on sperm DNA fragmentation in infertile men. Middle East Fertility Society Journal, 2011, 16, 149-153.	0.5	11
17	Digital holographic microscopy in human sperm imaging. Journal of Assisted Reproduction and Genetics, 2011, 28, 725-729.	1.2	34
18	DNA secondary structure is influenced by genetic variation and alters susceptibility to de novo translocation. Molecular Cytogenetics, 2011, 4, 18.	0.4	7
19	Cross species fertilization and development investigated by cat sperm injection into mouse oocytes. Journal of Experimental Zoology, 2011, 315A, 349-357.	1.2	5

#	ARTICLE	IF	CITATIONS
20	Epigenetic programming: From gametes to blastocyst. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 652-665.	1.6	77
22	The sperm nucleus: chromatin, RNA, and the nuclear matrix. Reproduction, 2011, 141, 21-36.	1.1	160
23	Chromatin Organization in Sperm May Be the Major Functional Consequence of Base Composition Variation in the Human Genome. PLoS Genetics, 2011, 7, e1002036.	1.5	90
24	Drosophila spermiogenesis. Spermatogenesis, 2012, 2, 197-212.	0.8	216
25	The Activation of DNA Damage Detection and Repair Responses in Cleavage-Stage Rat Embryos by a Damaged Paternal Genome. Toxicological Sciences, 2012, 127, 555-566.	1.4	22
26	Amifostine-doxorubicin association causes long-term prepubertal spermatogonia DNA damage and early developmental arrest. Human Reproduction, 2012, 27, 2457-2466.	0.4	36
27	Correlation between DNA defect and sperm-head morphology. Reproductive BioMedicine Online, 2012, 24, 211-218.	1.1	93
28	Proteomic analysis of the reproductive tract fluids from tropically-adapted Santa Ines rams. Journal of Proteomics, 2012, 75, 4436-4456.	1.2	83
29	Epigenetics of the male gamete. Fertility and Sterility, 2012, 97, 267-274.	0.5	240
30	Chromosomal translocations and palindromic AT-rich repeats. Current Opinion in Genetics and Development, 2012, 22, 221-228.	1.5	63
31	Sperm vacuoles are linked to capacitation and acrosomal status. Human Reproduction, 2012, 27, 2927-2932.	0.4	42
32	Analysing the sperm epigenome: roles in early embryogenesis and assisted reproduction. Nature Reviews Urology, 2012, 9, 609-619.	1.9	73
33	Human Sperm Chromatin Undergoes Physiological Remodeling During In Vitro Capacitation and Acrosome Reaction. Journal of Andrology, 2012, 33, 1025-1035.	2.0	28
34	Sperm DNA Damage and Antioxidant Use: Roles in Male Fertility. , 2012, , 307-315.		0
35	Preservation of Mouse Sperm by Convective Drying and Storing in 3-O-Methyl-D-Glucose. PLoS ONE, 2012, 7, e29924.	1.1	16
36	The actors of human implantation: gametes, embryo and endometrium. , 2012, , .		0
37	Makings of the Best Spermatozoa: Molecular Determinants of High Fertility. , 2012, , .		2
38	Direct and delayed X-ray-induced DNA damage in male mouse germ cells. Environmental and Molecular Mutagenesis, 2012, 53, 429-439.	0.9	27

#	ARTICLE	IF	CITATIONS
39	Sperm nucleus decondensation, hyaluronic acid (HA) binding and oocyte activation capacity: different markers of sperm immaturity? Case reports. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 353-355.	1.2	25
40	The nuclear form of glutathione peroxidase 4 is associated with sperm nuclear matrix and is required for proper paternal chromatin decondensation at fertilization. <i>Journal of Cellular Physiology</i> , 2012, 227, 1420-1427.	2.0	44
41	Paternal obesity initiates metabolic disturbances in two generations of mice with incomplete penetrance to the F ₂ generation and alters the transcriptional profile of testis and sperm microRNA content. <i>FASEB Journal</i> , 2013, 27, 4226-4243.	0.2	486
42	Human Interphase Chromosomes. , 2013, , .		16
43	Alteration of poly(ADP-ribose) metabolism affects murine sperm nuclear architecture by impairing pericentric heterochromatin condensation. <i>Chromosoma</i> , 2013, 122, 319-335.	1.0	23
44	Bovine sperm chromatin is not protected from the effects of ultrasmall gold nanoparticles. <i>Biology Bulletin</i> , 2013, 40, 493-499.	0.1	14
45	DNA oxidative damage in mammalian spermatozoa: where and why is the male nucleus affected?. <i>Free Radical Biology and Medicine</i> , 2013, 65, 719-723.	1.3	74
46	Analysis of DNA damage after human sperm cryopreservation in genes crucial for fertilization and early embryo development. <i>Andrology</i> , 2013, 1, 723-730.	1.9	62
47	Organization of Chromosomes in Human Sperm Nucleus. , 2013, , 139-159.		2
48	Major heparin-binding proteins of the seminal plasma from Morada Nova rams. <i>Small Ruminant Research</i> , 2013, 113, 115-127.	0.6	31
49	Y chromosome azoospermia factor region microdeletions are not associated with idiopathic recurrent spontaneous abortion in a Slovenian population: association study and literature review. <i>Fertility and Sterility</i> , 2013, 99, 1663-1667.	0.5	9
50	Sperm vacuoles negatively affect outcomes in intracytoplasmic morphologically selected sperm injection in terms of pregnancy, implantation, and live-birth rates. <i>Fertility and Sterility</i> , 2013, 100, 379-385.	0.5	22
51	Effects of cryostorage on human sperm chromatin integrity. <i>Zygote</i> , 2013, 21, 330-336.	0.5	13
52	The Choreography of Fertilization. , 2013, , 289-306.		3
53	Cryopreservation of gametes for aquaculture and alternative cell sources for genome preservation. , 2013, , 76-116.		16
54	Novel insights into the genetic and epigenetic paternal contribution to the human embryo. <i>Clinics</i> , 2013, 68, 5-14.	0.6	93
55	The source and significance of DNA damage in human spermatozoa; a commentary on diagnostic strategies and straw man fallacies. <i>Molecular Human Reproduction</i> , 2013, 19, 475-485.	1.3	133
56	Protamine-like Proteins in 12 Sequenced Species of <i>Drosophila</i> . <i>Protein and Peptide Letters</i> , 2013, 20, 17-35.	0.4	9

#	ARTICLE	IF	CITATIONS
57	The sperm epigenome: a role in embryogenesis and fetal health?. , 0, , 16-26.		0
58	Embryotropic actions of follistatin: paracrine and autocrine mediators of oocyte competence and embryo developmental progression. <i>Reproduction, Fertility and Development</i> , 2014, 26, 37.	0.1	19
59	The nuclear form of glutathione peroxidase 4 colocalizes and directly interacts with protamines in the nuclear matrix during mouse sperm chromatin assembly. <i>Spermatogenesis</i> , 2014, 4, e28460.	0.8	8
60	Bovine spermatozoa react to in vitro heat stress by activating the mitogen-activated protein kinase 14 signalling pathway. <i>Reproduction, Fertility and Development</i> , 2014, 26, 245.	0.1	26
61	<i>Drosophila</i> Protamine-Like Mst35Ba and Mst35Bb Are Required for Proper Sperm Nuclear Morphology but Are Dispensable for Male Fertility. <i>C3: Genes, Genomes, Genetics</i> , 2014, 4, 2241-2245.	0.8	29
62	Altered chromatin condensation of heat-stressed spermatozoa perturbs the dynamics of DNA methylation reprogramming in the paternal genome after in vitro fertilisation in cattle. <i>Reproduction, Fertility and Development</i> , 2014, 26, 1107.	0.1	30
63	The role of epigenetics in spermatogenesis. <i>Turk Uroloji Dergisi</i> , 2014, 39, 181-187.	0.4	35
64	Understanding the Spermatozoon. <i>Methods in Molecular Biology</i> , 2014, 1154, 91-119.	0.4	6
65	Comparative analysis of three sperm DNA damage assays and sperm nuclear protein content in couples undergoing assisted reproduction treatment. <i>Human Reproduction</i> , 2014, 29, 904-917.	0.4	112
66	Perspectives on the assessment of human sperm chromatin integrity. <i>Fertility and Sterility</i> , 2014, 102, 1508-1517.	0.5	79
67	Recent knowledge concerning mammalian sperm chromatin organization and its potential weaknesses when facing oxidative challenge. <i>Basic and Clinical Andrology</i> , 2014, 24, 6.	0.8	13
68	Structure of Chromatin in Spermatozoa. <i>Advances in Experimental Medicine and Biology</i> , 2014, 791, 1-11.	0.8	22
69	Genetic Damage in Human Spermatozoa. <i>Advances in Experimental Medicine and Biology</i> , 2014, , .	0.8	11
70	The Sperm Epigenome: Implications for the Embryo. <i>Advances in Experimental Medicine and Biology</i> , 2014, 791, 53-66.	0.8	87
71	Protamine Alterations in Human Spermatozoa. <i>Advances in Experimental Medicine and Biology</i> , 2014, 791, 83-102.	0.8	41
72	Paternal exposure to testis cancer chemotherapeutics alters sperm fertilizing capacity and affects gene expression in the eight-cell stage rat embryo. <i>Andrology</i> , 2014, 2, 259-266.	1.9	8
73	Factors enhancing fish sperm quality and emerging tools for sperm analysis. <i>Aquaculture</i> , 2014, 432, 389-401.	1.7	172
74	Double-stranded DNA breaks hidden in the neutral Comet assay suggest a role of the sperm nuclear matrix in DNA integrity maintenance. <i>Molecular Human Reproduction</i> , 2014, 20, 330-340.	1.3	46

#	ARTICLE	IF	CITATIONS
75	Sperm <scp>DNA</scp> integrity testing: big halo is a good predictor of embryo quality and pregnancy after conventional <scp>IVF</scp>. <i>Andrology</i> , 2014, 2, 678-686.	1.9	60
76	Identification and characterization of an oocyte factor required for sperm decondensation in pig. <i>Reproduction</i> , 2014, 148, 367-375.	1.1	10
77	Dynamic aspects of spermiogenic chromatin condensation patterning by phase separation during the histone-to-protamine transition in charalean algae and relation to bryophytes. <i>Tissue and Cell</i> , 2014, 46, 415-432.	1.0	13
78	Parenting from before conception. <i>Science</i> , 2014, 345, 756-760.	6.0	244
79	Preterm labor: One syndrome, many causes. <i>Science</i> , 2014, 345, 760-765.	6.0	1,478
80	CHD5 is required for spermiogenesis and chromatin condensation. <i>Mechanisms of Development</i> , 2014, 131, 35-46.	1.7	69
81	First Pregnancy, Somatic and Psychological Status of a 4-Year-Old Child Born following Annexin V TESA Sperm Separation. <i>AJP Reports</i> , 2015, 05, e105-e108.	0.4	8
82	A Simple Sperm DNA Toroid Integrity Test and Risk of Miscarriage. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	4
83	Human sperm chromatin epigenetic potential: genomics, proteomics, and male infertility. <i>Asian Journal of Andrology</i> , 2015, 17, 601.	0.8	65
84	Inhibition of zygotic DNA repair: transcriptome analysis of the offspring in trout (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 11 26	1.1	26
85	Epigenetics and male reproduction: the consequences of paternal lifestyle on fertility, embryo development, and children lifetime health. <i>Clinical Epigenetics</i> , 2015, 7, 120.	1.8	168
86	A double-blinded comparison of in situ TUNEL and aniline blue versus flow cytometry acridine orange for the determination of sperm DNA fragmentation and nucleus decondensation state index. <i>Zygote</i> , 2015, 23, 556-562.	0.5	13
87	Sperm DNA fragmentation is related to sperm morphological staining patterns. <i>Reproductive BioMedicine Online</i> , 2015, 31, 506-515.	1.1	18
88	Damage to Sperm DNA Mediated by Reactive Oxygen Species: Its Impact on Human Reproduction and the Health Trajectory of Offspring. <i>Advances in Experimental Medicine and Biology</i> , 2015, 868, 23-47.	0.8	57
90	Sperm Protamine-Status Correlates to the Fertility of Breeding Bulls1. <i>Biology of Reproduction</i> , 2015, 92, 92.	1.2	77
91	Fertilization in Mammals. , 2015, , 149-196.		54
92	The Spermatozoon. , 2015, , 99-148.		19
93	Confrontation, Consolidation, and Recognition: The Oocyte's Perspective on the Incoming Sperm. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a023408.	2.9	18

#	ARTICLE	IF	CITATIONS
94	Post-translational Modifications of Histones in Human Sperm. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 2195-2209.	1.2	27
95	Single Gamete Insemination Aiming at the Ideal Conceptus. , 2015, , 73-88.		0
96	Environmental Susceptibility of the Sperm Epigenome During Windows of Male Germ Cell Development. <i>Current Environmental Health Reports</i> , 2015, 2, 356-366.	3.2	100
97	Molecular karyotyping of single sperm with nuclear vacuoles identifies more chromosomal abnormalities in patients with testiculopathy than fertile controls: implications for ICSI. <i>Human Reproduction</i> , 2015, 30, 2493-2500.	0.4	13
98	Luminal fluid of epididymis and vas deferens contributes to sperm chromatin fragmentation. <i>Human Reproduction</i> , 2015, 30, dev245.	0.4	26
100	Animal Models for Developing Clinical Lab Procedures. , 2015, , 81-107.		0
101	Localisation and quantification of alkali-labile sites in human spermatozoa by DNA breakage detection-fluorescence in situ hybridisation. <i>Andrologia</i> , 2015, 47, 221-227.	1.0	8
102	Sperm Proteome: What Is on the Horizon?. <i>Reproductive Sciences</i> , 2015, 22, 638-653.	1.1	11
104	Sperm Vacuoles: Origin and Implications. , 2015, , 111-121.		1
105	Transgenic mouse offspring generated by ROSI. <i>Journal of Reproduction and Development</i> , 2016, 62, 37-42.	0.5	7
106	Spermatozoa of <i>Sminthopsis murina</i> (Mammalia: Metatheria) exhibit an unusually high degree of chromatin stability in the absence of disulphide bonding in protamine 1. <i>Reproduction, Fertility and Development</i> , 2016, 28, 1268.	0.1	3
107	Unlocking sperm chromatin at fertilization requires a dedicated egg thioredoxin in <i>Drosophila</i> . <i>Nature Communications</i> , 2016, 7, 13539.	5.8	36
108	Mammalian sperm nuclear organization: resiliencies and vulnerabilities. <i>Basic and Clinical Andrology</i> , 2016, 26, 17.	0.8	49
109	Selected sperm traits are simultaneously altered after scrotal heat stress and play specific roles in <i>in vitro</i> fertilization and embryonic development. <i>Theriogenology</i> , 2016, 86, 924-933.	0.9	22
110	Epigenetics in male reproduction: effect of paternal diet on sperm quality and offspring health. <i>Nature Reviews Urology</i> , 2016, 13, 584-595.	1.9	204
111	Improvement of gamete quality by stimulating and feeding the endogenous antioxidant system: mechanisms, clinical results, insights on gene-environment interactions and the role of diet. <i>Journal of Assisted Reproduction and Genetics</i> , 2016, 33, 1633-1648.	1.2	48
112	Re-visiting the Protamine-2 locus: deletion, but not haploinsufficiency, renders male mice infertile. <i>Scientific Reports</i> , 2016, 6, 36764.	1.6	48
113	Topology of chromosome centromeres in human sperm nuclei with high levels of DNA damage. <i>Scientific Reports</i> , 2016, 6, 31614.	1.6	13

#	ARTICLE	IF	CITATIONS
114	Fourier transform infrared spectroscopic analysis of sperm chromatin structure and <sc>DNA</sc> stability. <i>Andrology</i> , 2016, 4, 430-441.	1.9	11
116	Simultaneous Holographic Microscopy and Raman Spectroscopy Monitoring of Human Spermatozoa Photodegradation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 27-34.	1.9	21
117	Histone retention, protein carbonylation, and lipid peroxidation in spermatozoa: Possible role in recurrent pregnancy loss. <i>Systems Biology in Reproductive Medicine</i> , 2016, 62, 201-212.	1.0	25
118	Transcriptional Framework of Male Gametogenesis in the Liverwort <i>Marchantia polymorpha</i>L.. <i>Plant and Cell Physiology</i> , 2016, 57, 325-338.	1.5	83
119	Male Factors in Recurrent Pregnancy Loss. , 2016, , 109-129.		0
120	Impact of sperm DNA chromatin in the clinic. <i>Journal of Assisted Reproduction and Genetics</i> , 2016, 33, 157-166.	1.2	46
121	Sperm cryopreservation update: Cryodamage, markers, and factors affecting the sperm freezability in pigs. <i>Theriogenology</i> , 2016, 85, 47-64.	0.9	249
122	Paternal contribution to development: Sperm genetic damage and repair in fish. <i>Aquaculture</i> , 2017, 472, 45-59.	1.7	45
123	Degradation in forensic trace DNA samples explored by massively parallel sequencing. <i>Forensic Science International: Genetics</i> , 2017, 27, 160-166.	1.6	16
126	Optical methods for measuring DNA folding. <i>Modern Physics Letters B</i> , 2017, 31, 1730001.	1.0	6
127	Reproductive tract modifications of the boar sperm surface. <i>Molecular Reproduction and Development</i> , 2017, 84, 822-831.	1.0	17
128	A novel hypothesis for histone-to-protamine transition in <i>Bos taurus</i> spermatozoa. <i>Reproduction</i> , 2017, 153, 241-251.	1.1	24
129	Sperm Chromatin Stability and Susceptibility to Damage in Relation to Its Structure. , 0, , 21-35.		4
130	Sperm Ultrastructure in Fertile Men and Male Sterility: Revisiting Teratozoospermia. , 0, , 36-58.		3
131	Association between the MTHFR-C677T isoform and structure of sperm DNA. <i>Journal of Assisted Reproduction and Genetics</i> , 2017, 34, 1283-1288.	1.2	17
132	High-throughput analysis of <sc>TUNEL</sc>-stained sperm using image cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 854-858.	1.1	3
133	Intracytoplasmic sperm injection: state of the art in humans. <i>Reproduction</i> , 2017, 154, F93-F110.	1.1	90
134	Deficient expression of JMJD1A histone demethylase in patients with round spermatid maturation arrest. <i>Reproductive BioMedicine Online</i> , 2017, 34, 82-89.	1.1	18

#	ARTICLE	IF	CITATIONS
135	Is transcription in sperm stationary or dynamic?. Journal of Reproduction and Development, 2017, 63, 439-443.	0.5	59
136	Paternal obesity: how bad is it for sperm quality and progeny health?. Basic and Clinical Andrology, 2017, 27, 20.	0.8	44
137	Testis specific histone 2B is associated with sperm chromatin dynamics and bull fertility-a pilot study. Reproductive Biology and Endocrinology, 2017, 15, 59.	1.4	13
138	Unlabeled Semen Analysis by Means of the Holographic Imaging. , 0, , .		0
139	Eight tests for sperm DNA fragmentation and their roles in the clinic. Translational Andrology and Urology, 2017, 6, S468-S470.	0.6	7
140	Determination of sperm quality in decapod crustaceans. Aquaculture, 2018, 490, 185-193.	1.7	34
141	Sperm epigenetics and influence of environmental factors. Molecular Metabolism, 2018, 14, 1-11.	3.0	234
142	A history of why fathersâ€™ RNA mattersâ€™. Biology of Reproduction, 2018, 99, 147-159.	1.2	94
143	The effect of human sperm chromatin maturity on ICSI outcomes. Human Cell, 2018, 31, 220-231.	1.2	9
144	The protective function of noncoding DNA in genome defense of eukaryotic male germ cells. Epigenomics, 2018, 10, 499-517.	1.0	26
145	Heat stress responses in spermatozoa: Mechanisms and consequences for cattle fertility. Theriogenology, 2018, 113, 102-112.	0.9	71
146	Does genome organization matter in spermatozoa? A refined hypothesis to awaken the silent vessel. Systems Biology in Reproductive Medicine, 2018, 64, 518-534.	1.0	16
147	Do paternal semen parameters influence the birth weight or BMI of the offspring? A study from the Utah Population Database. Journal of Assisted Reproduction and Genetics, 2018, 35, 793-799.	1.2	11
148	Sperm telomere length in motile sperm selection techniques: A qFISH approach. Andrologia, 2018, 50, e12840.	1.0	30
149	Involvement of sperm acetylated histones and the nuclear isoform of Glutathione peroxidase 4 in fertilization. Journal of Cellular Physiology, 2018, 233, 3093-3104.	2.0	6
150	Ultrastructure of Spermatozoa from Infertility Patients. , 2018, , .		1
151	The Mammalian Spermatogenesis Single-Cell Transcriptome, from Spermatogonial Stem Cells to Spermatids. Cell Reports, 2018, 25, 1650-1667.e8.	2.9	384
152	Establishing a stable, repeatable platform for measuring changes in sperm DNA methylation. Clinical Epigenetics, 2018, 10, 119.	1.8	7

#	ARTICLE	IF	CITATIONS
153	Fatherhood and Sperm DNA Damage in Testicular Cancer Patients. <i>Frontiers in Endocrinology</i> , 2018, 9, 506.	1.5	26
154	Nuclear Integrity but Not Topology of Mouse Sperm Chromosome is Affected by Oxidative DNA Damage. <i>Genes</i> , 2018, 9, 501.	1.0	18
155	Paternal factors contributing to embryo quality. <i>Journal of Assisted Reproduction and Genetics</i> , 2018, 35, 1953-1968.	1.2	97
156	Chromatin Structure in Sperm: Composition and Function. , 2018, , 129-133.		0
157	A Decade of Exploring the Mammalian Sperm Epigenome: Paternal Epigenetic and Transgenerational Inheritance. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 50.	1.8	134
158	Distribution of DNA damage in the sperm nucleus: A study of zebrafish as a model of histone-packaged chromatin. <i>Theriogenology</i> , 2018, 122, 109-115.	0.9	9
159	The Evolutionary Consequences of Selection at the Haploid Gametic Stage. <i>American Naturalist</i> , 2018, 192, 241-249.	1.0	58
160	Tandem Repeats in the Genome of <i>Sus scrofa</i> , Their Localization on Chromosomes and in the Spermatogenic Cell Nuclei. <i>Russian Journal of Genetics</i> , 2019, 55, 835-846.	0.2	1
161	Intracytoplasmic Morphologically Selected Sperm Injection. , 2019, , 415-428.		2
162	Paternal impacts on development: identification of genomic regions vulnerable to oxidative DNA damage in human spermatozoa. <i>Human Reproduction</i> , 2019, 34, 1876-1890.	0.4	43
163	Cryoprotectants synergy improve zebrafish sperm cryopreservation and offspring skeletogenesis. <i>Cryobiology</i> , 2019, 91, 115-127.	0.3	6
164	Sperm cellular and nuclear dynamics associated with bull fertility. <i>Animal Reproduction Science</i> , 2019, 211, 106203.	0.5	14
165	Single and Double Strand Sperm DNA Damage: Different Reproductive Effects on Male Fertility. <i>Genes</i> , 2019, 10, 105.	1.0	83
166	Sperm DNA damage and its impact on male reproductive health: a critical review for clinicians, reproductive professionals and researchers. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 443-457.	1.5	27
167	The effect of Robertsonian translocations on the intranuclear positioning of NORs (nucleolar) Tj ETQq0 0 0 rgBT /Oyerlock 10,Tf 50 182	1.6	3
168	Quantification of histones and protamines mRNA transcripts in sperms of infertile couples and their impact on spermâ€™s quality and chromatin integrity. <i>Reproductive Biology</i> , 2019, 19, 6-13.	0.9	10
169	Gcn5-Mediated Histone Acetylation Governs Nucleosome Dynamics in Spermiogenesis. <i>Developmental Cell</i> , 2019, 51, 745-758.e6.	3.1	47
170	Sperm nuclear maturity and chromatin stability in subfertile patients: Density gradient centrifugation is fair but non-discriminative in selecting the right population. <i>Reproductive Biology</i> , 2019, 19, 316-321.	0.9	4

#	ARTICLE	IF	CITATIONS
171	Role of Oxidative Stress in the Etiology of Male Infertility and the Potential Therapeutic Value of Antioxidants. , 2019, , 91-100.		10
172	Potential biomarkers of <scp>DNA</scp> quality in cryopreserved fish sperm: impact on gene expression and embryonic development. <i>Reviews in Aquaculture</i> , 2020, 12, 382-391.	4.6	25
173	H4S1ph, an alternative epigenetic marker for sperm maturity. <i>Andrologia</i> , 2020, 52, e13352.	1.0	2
174	Effects of temperature and storage time on the motility, viability, DNA integrity and apoptosis of processed human spermatozoa. <i>Andrologia</i> , 2020, 52, e13485.	1.0	3
175	Transcriptome profiling reveals signaling conditions dictating human spermatogonia fate in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17832-17841.	3.3	46
176	Protamine-2 Deficiency Initiates a Reactive Oxygen Species (ROS)-Mediated Destruction Cascade during Epididymal Sperm Maturation in Mice. <i>Cells</i> , 2020, 9, 1789.	1.8	21
177	Paternal epigenetics: Mammalian sperm provide much more than DNA at fertilization. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 110964.	1.6	44
178	Comparative studies of semen quality traits and sperm kinematic parameters in relation to fertility rate between 2 genetic groups of breed lines. <i>Poultry Science</i> , 2020, 99, 6139-6146.	1.5	13
180	Sperm chromatin condensation and single- and double-stranded DNA damage as important parameters to define male factor related recurrent miscarriage. <i>Molecular Reproduction and Development</i> , 2020, 87, 1126-1132.	1.0	8
181	Methylation: An Ineluctable Biochemical and Physiological Process Essential to the Transmission of Life. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9311.	1.8	23
182	The Impact of Single- and Double-Strand DNA Breaks in Human Spermatozoa on Assisted Reproduction. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3882.	1.8	47
183	Sperm DNA Integrity and Male Fertility in Farm Animals: A Review. <i>Frontiers in Veterinary Science</i> , 2020, 7, 321.	0.9	49
184	Fractalkine and apoptotic/anti-apoptotic markers in granulosa cells of women with polycystic ovarian syndrome. <i>Molecular Biology Reports</i> , 2020, 47, 3593-3603.	1.0	6
185	The effect of cryopreservation on DNA methylation patterns of the chromosome 15q11-q13 region in human spermatozoa. <i>Cell and Tissue Banking</i> , 2020, 21, 433-445.	0.5	14
186	Oxidative Stress in Male Infertility: Causes, Effects in Assisted Reproductive Techniques, and Protective Support of Antioxidants. <i>Biology</i> , 2020, 9, 77.	1.3	45
187	Proteomic Analysis Reveals that Topoisomerase 2A is Associated with Defective Sperm Head Morphology. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 444-455.	2.5	13
188	Etiologies of sperm DNA damage and its impact on male infertility. <i>Andrologia</i> , 2021, 53, e13706.	1.0	41
189	Comparative analysis of tests used to assess sperm chromatin integrity and DNA fragmentation. <i>Andrologia</i> , 2021, 53, e13718.	1.0	27

#	ARTICLE	IF	CITATIONS
190	Male Factors: the Role of Sperm in Preimplantation Embryo Quality. <i>Reproductive Sciences</i> , 2021, 28, 1788-1811.	1.1	15
191	Dynamics of paternal contributions to early embryo development in large animals. <i>Biology of Reproduction</i> , 2021, 104, 274-281.	1.2	7
192	Male infertility. <i>Lancet, The</i> , 2021, 397, 319-333.	6.3	468
193	Resveratrol improves sperm DNA quality and reproductive capacity in type 1 diabetes. <i>Andrology</i> , 2021, 9, 384-399.	1.9	22
194	Contribution of epididymal epithelial cell functions to sperm epigenetic changes and the health of progeny. <i>Human Reproduction Update</i> , 2021, 28, 51-66.	5.2	23
195	Evaluation of the human sperm nucleus: ambiguity and risk of confusion with chromomycin staining. <i>Zygote</i> , 2021, 29, 257-259.	0.5	4
196	Highly Cited Articles in the Field of Male Infertility and Antioxidants: A Scientometric Analysis. <i>World Journal of Men's Health</i> , 2021, 39, 760.	1.7	3
197	Hepatitis B virus surface protein induces sperm dysfunction through the activation of a Bcl2/Bax signaling cascade triggering AIF/Endo G ^α -mediated apoptosis. <i>Andrology</i> , 2021, 9, 944-955.	1.9	10
198	Protamine Binding Site on DNA: Molecular Dynamics Simulations and Free Energy Calculations with Full Atomistic Details. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3032-3044.	1.2	10
200	Chromatin Condensation: Chromomycin A3 (CMA3) Stain. , 2021, , 151-155.		0
201	Protamine Characterization by Top-Down Proteomics: Boosting Proteoform Identification with DBSCAN. <i>Proteomes</i> , 2021, 9, 21.	1.7	7
202	Chromatin Condensation: Aniline Blue Stain. , 2021, , 142-150.		0
203	Species-Specific Differences in Sperm Chromatin Decondensation Between Eutherian Mammals Underlie Distinct Lysis Requirements. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 669182.	1.8	21
204	Gene Expression Alteration of Sperm-Associated Antigens in Human Cryopreserved Sperm. <i>Biopreservation and Biobanking</i> , 2021, 19, 503-510.	0.5	3
205	The dose-, LET-, and gene-dependent patterns of DNA changes underlying the point mutations in spermatozoa of <i>Drosophila melanogaster</i> . I. Autosomal gene black. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2021, 823, 111755.	0.4	1
206	Complete Chromatin Decondensation of Pig Sperm Is Required to Analyze Sperm DNA Breaks With the Comet Assay. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 675973.	1.8	9
207	Assessment of MUSASHI 1 and MUSASHI 2 expression in spermatozoa and testicular tissue. <i>Andrologia</i> , 2021, 53, e14187.	1.0	2
208	Coenzyme Q10 ameliorates the quality of mouse oocytes during <i>in vitro</i> culture. <i>Zygote</i> , 2022, 30, 249-257.	0.5	5

#	ARTICLE	IF	CITATIONS
209	Generation of single stranded DNA with selective affinity to bovine spermatozoa. <i>Animal Bioscience</i> , 2021, 34, 1579-1589.	0.8	1
210	The TUNEL assay underestimates the incidence of DNA damage in pig sperm due to chromatin condensation. <i>Theriogenology</i> , 2021, 174, 94-101.	0.9	7
211	Comprehensive functional analysis reveals that acrosome integrity and viability are key variables distinguishing artificial insemination bulls of varying fertility. <i>Journal of Dairy Science</i> , 2021, 104, 11226-11241.	1.4	21
212	Tandem Repeat-Based Probes Support the Loop Model of Pericentromere Packing. <i>Cytogenetic and Genome Research</i> , 2021, 161, 93-102.	0.6	0
213	The Role of the Oocyte in Remodeling of Male Chromatin and DNA Repair: Are Events During the Zygotic Cell Cycle of Relevance to ART?. , 2011, , 227-243.		6
214	Laboratory Evidence for Male Infertility. , 2020, , 27-37.		1
215	Sperm DNA Fragmentation and Male Infertility. , 2020, , 155-172.		21
216	Sperm Chromatin: An Overview. , 2018, , 3-30.		8
217	Sperm Nuclear Architecture. , 2018, , 53-61.		2
218	The nucleolus-like and precursor bodies of mammalian oocytes and embryos and their possible role in post-fertilization centromere remodelling. <i>Biochemical Society Transactions</i> , 2020, 48, 581-593.	1.6	11
219	Revisiting summer infertility in the pig: could heat stress-induced sperm DNA damage negatively affect early embryo development?. <i>Animal Production Science</i> , 2017, 57, 1975.	0.6	19
220	Rapidly Evolving Genes and Genetic Systems. , 2012, , .		10
221	Differential susceptibility to endocrine disruptor-induced epimutagenesis. <i>Environmental Epigenetics</i> , 2020, 6, dvaa016.	0.9	10
222	Progress on an optical trapping assay to measure DNA folding pathways in sperm. , 2017, , .		2
223	Handling Gametes and Embryos: Oocyte Collection and Embryo Culture. , 2014, , 30-51.		5
224	Double Stranded Sperm DNA Breaks, Measured by Comet Assay, Are Associated with Unexplained Recurrent Miscarriage in Couples without a Female Factor. <i>PLoS ONE</i> , 2012, 7, e44679.	1.1	105
225	Mouse Zygotes Respond to Severe Sperm DNA Damage by Delaying Paternal DNA Replication and Embryonic Development. <i>PLoS ONE</i> , 2013, 8, e56385.	1.1	104
226	Oxidative Stress in Mouse Sperm Impairs Embryo Development, Fetal Growth and Alters Adiposity and Glucose Regulation in Female Offspring. <i>PLoS ONE</i> , 2014, 9, e100832.	1.1	97

#	ARTICLE	IF	CITATIONS
227	Differential Gene Susceptibility to Sperm DNA Damage: Analysis of Developmental Key Genes in Trout. PLoS ONE, 2014, 9, e114161.	1.1	22
228	Differences in the Ovine HSP90AA1 Gene Expression Rates Caused by Two Linked Polymorphisms at Its Promoter Affect Rams Sperm DNA Fragmentation under Environmental Heat Stress Conditions. PLoS ONE, 2015, 10, e0116360.	1.1	18
229	Protamine and other proteins in sperm and seminal plasma as molecular markers of bull fertility. Veterinary World, 2020, 13, 556-562.	0.7	21
230	Distribution of Nucleosome-enriched Sequences of Human Sperm Chromatin Along Isochores. Exploratory Research and Hypothesis in Medicine, 2018, 3, 54-60.	0.1	1
231	Protamines: Structural Complexity, Evolution and Chromatin Patterning. Protein and Peptide Letters, 2011, 18, 755-771.	0.4	47
232	The Role of Sperm Chromatin Integrity and DNA Damage on Male Infertility. The Open Reproductive Science Journal, 2011, 3, 65-71.	0.5	17
233	Protamine-1 and -2 polymorphisms and gene expression in male infertility: an Italian study. Journal of Endocrinological Investigation, 2012, 35, 882-8.	1.8	21
234	Chromatin as a global buffer for eukaryotic gene control. AIMS Biophysics, 2015, 2, 531-554.	0.3	4
235	A model for the control of DNA integrity by the sperm nuclear matrix. Asian Journal of Andrology, 2015, 17, 610.	0.8	16
236	Comparison of ART outcomes in men with altered mRNA protamine 1/protamine 2 ratio undergoing intracytoplasmic sperm injection with ejaculated and testicular spermatozoa. Asian Journal of Andrology, 2020, 22, 623.	0.8	8
237	Distribution of DNA damage in the human sperm nucleus: implications of the architecture of the sperm head. Asian Journal of Andrology, 2020, 22, 401.	0.8	6
238	Transcription and regulation of hepatitis B virus genes in host sperm cells. Asian Journal of Andrology, 2018, 20, 284.	0.8	13
239	Beneficial Effect of an Oral Antioxidant Supplementation (Fertimax2) on IVF-ICSI Outcomes: A Preliminary Clinical Study. Advances in Reproductive Sciences, 2014, 02, 47-56.	0.3	7
240	Polyubiquitination and Proteasome Signals in Tubulobulbar Complexes of Rat Late Spermatids. CellBio, 2013, 02, 173-178.	1.3	1
241	Single sperm selection and DNA fragmentation analysis: The case of MSOME/IMSI. Natural Science, 2013, 05, 7-14.	0.2	11
242	Seminiferous Tubules and Spermatogenesis. , 0, , .		1
243	Is sperm chromatin packaging relevant for IVF success?. Journal of Fertilization in Vitro, 2012, 01, .	0.2	0
244	Clinical Significance of Sperm RNA. , 2013, , 395-415.		0

#	ARTICLE	IF	CITATIONS
245	Spermiogenesis in Sperm Genetic Integrity. , 2013, , 201-218.		0
246	The Relationship Between Chromatin Structure and DNA Damage in Mammalian Spermatozoa. , 2013, , 45-53.		0
247	Spermiogenesis in Sperm Genetic Integrity. , 2013, , 97-114.		0
248	Paternal Obesity and Programming of Offspring Health. , 2016, , 105-131.		2
249	Chapter 15. The Comet Assay in Spermâ€”Assessing Genotoxins in Male Germ Cells. Issues in Toxicology, 2016, , 390-456.	0.2	0
250	The Relevance in Reproductive Success of Sperm Head Polarization (Birefringence). , 2017, , 211-222.		0
251	Sperm DNA and Natural Pregnancy. , 2018, , 365-391.		0
252	Spermatozoal Chromatin Structure: Role in Sperm Functions and Fertilization. , 2020, , 39-55.		3
253	Methods for obtaining the enriched fraction of ram seminal vesicle proteins (RSVP14). Revista Brasileira De Zootecnia, 2020, 49, .	0.3	1
254	Clinical implications of oxidative stress & sperm DNA damage in normozoospermic infertile men. Indian Journal of Medical Research, 2011, 134, 396-8.	0.4	13
255	Medical school hotline: The Institute for Biogenesis Research: a flower in the Pacific. Hawai'i Journal of Medicine & Public Health: A Journal of Asia Pacific Medicine & Public Health, 2014, 73, 393-6.	0.4	0
256	Organization of sperm DNA by the nuclear matrix. American Journal of Clinical and Experimental Urology, 2018, 6, 87-92.	0.4	8
257	Genetics and molecular biology of male infertility among Iranian population: an update. American Journal of Translational Research (discontinued), 2021, 13, 5767-5785.	0.0	0
258	Cellular and Molecular Events after ICSI in Clinically Relevant Animal Models. , 2021, , 103-113.		0
259	Nuclear Lamins: Key Proteins for Embryonic Development. Biology, 2022, 11, 198.	1.3	1
261	Basic Physiology. , 2022, , 5-33.		0
262	PRM1 Gene Expression and Its Protein Abundance in Frozen-Thawed Spermatozoa as Potential Fertility Markers in Breeding Bulls. Veterinary Sciences, 2022, 9, 111.	0.6	6
263	Reactive Oxygen Species and Their Consequences on the Structure and Function of Mammalian Spermatozoa. Antioxidants and Redox Signaling, 2022, 37, 481-500.	2.5	12

#	ARTICLE	IF	CITATIONS
264	Fertilization, Oocyte Activation, Calcium Release and Epigenetic Remodelling: Lessons From Cancer Models. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 781953.	1.8	6
265	Role of sperm DNA damage in creating de-novo mutations in human offspring: the "post-meiotic oocyte collusion" hypothesis. <i>Reproductive BioMedicine Online</i> , 2022, 45, 109-124.	1.1	18
266	Sperm chromatin structure: Insights from in vitro to in situ experiments. <i>Current Opinion in Cell Biology</i> , 2022, 75, 102075.	2.6	6
267	The Sixth Edition of the WHO Manual for Human Semen Analysis: A Critical Review and SWOT Analysis. <i>Life</i> , 2021, 11, 1368.	1.1	68
268	Significance and Relevance of Spermatozoal RNAs to Male Fertility in Livestock. <i>Frontiers in Genetics</i> , 2021, 12, 768196.	1.1	11
269	Identification of biomarkers for bull fertility using functional genomics. <i>Animal Reproduction</i> , 2022, 19, e20220004.	0.4	2
270	Investigation of the risk of paternal cell contamination in PGT and the necessity of intracytoplasmic sperm injection. <i>Human Fertility</i> , 2022, , 1-6.	0.7	2
271	Effect of over dilution of semen with tris extender on motion and functional attributes of bull spermatozoa during cryopreservation. <i>Andrologia</i> , 2022, 54, e14478.	1.0	1
272	Human Sperm Morphology as a Marker of Its Nuclear Quality and Epigenetic Pattern. <i>Cells</i> , 2022, 11, 1788.	1.8	3
273	Sperm DNA fragmentation " can it be a routine?. <i>Fertility Science and Research</i> , 2022, 9, 29.	0.1	0
274	Comparison of sperm preparation methods to improve the recovery of mature spermatozoa in sub-fertile males. <i>Zygote</i> , 2022, 30, 664-673.	0.5	1
275	Sperm as a Carrier of Genome Instability in Relation to Paternal Lifestyle and Nutritional Conditions. <i>Nutrients</i> , 2022, 14, 3155.	1.7	4
276	TMT-Based Proteomic Analysis of Human Spermatozoa from Unexplained Recurrent Miscarriage Patients before and after Oral Antioxidant Treatment. <i>Biomedicines</i> , 2022, 10, 2014.	1.4	3
277	Sperm degradation after vasectomy follows a sperm chromatin fragmentation-dependent mechanism causing DNA breaks in the toroid linker regions. <i>Molecular Human Reproduction</i> , 2022, 28, .	1.3	2
278	Insights to maternal regulation of the paternal genome in mammalian livestock embryos: A mini-review. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	2
279	Sperm signatures of fertility and freezability. <i>Animal Reproduction Science</i> , 2022, 247, 107147.	0.5	3
280	Omics insights into spermatozoa activation induced by Fetal bovine serum in viviparous black rockfish (<i>Sebastes schlegelii</i>). <i>Gene</i> , 2023, 851, 147014.	1.0	1
281	Functional Aspects of Sperm Chromatin Organization. <i>Results and Problems in Cell Differentiation</i> , 2022, , 295-311.	0.2	6

#	ARTICLE	IF	CITATIONS
282	Antioxidant Intervention against Male Infertility: Time to Design Novel Strategies. <i>Biomedicines</i> , 2022, 10, 3058.	1.4	10
283	Cryopreservation of Semen in Domestic Animals: A Review of Current Challenges, Applications, and Prospective Strategies. <i>Animals</i> , 2022, 12, 3271.	1.0	11
284	Condensation and protamination of sperm chromatin affect ICSI outcomes when gametes from healthy individuals are used. <i>Human Reproduction</i> , 2023, 38, 371-386.	0.4	1
285	Damage to <i>Sorubim cuspidatus</i> Sperm Cryopreserved with Ethylene Glycol. <i>Animals</i> , 2023, 13, 235.	1.0	2
286	Semen Thresholds of Normality Established by the WHO Do Not Reveal Genome Instability—A Potential Occult Male Factor. <i>Genes</i> , 2023, 14, 239.	1.0	1
287	New horizons in human sperm selection for assisted reproduction. <i>Frontiers in Endocrinology</i> , 0, 14, .	1.5	4
288	Sperm DNA damage: The possible link between obesity and male infertility, an update of the current literature. <i>Andrology</i> , 2023, 11, 1635-1652.	1.9	5
289	Contribution of semen to early embryo development: fertilization and beyond. <i>Human Reproduction Update</i> , 2023, 29, 395-433.	5.2	12
291	The Impact of a Very Short Abstinence Period on Assisted Reproductive Technique Outcomes: A Systematic Review and Meta-Analysis. <i>Antioxidants</i> , 2023, 12, 752.	2.2	3
295	Spermienqualität und Spermienfunktionstests. <i>Springer Reference Medizin</i> , 2023, , 179-194.	0.0	0
300	Contribution Ã©pigÃ©nÃ©tique du spermatozoÃ©de humain. , 2023, , 397-411.		0
307	Sperm Chromatin Packaging and the Toroid Linker Model. , 2023, , 54-60.		0
308	Sperm Quality and Sperm Function Tests. , 2023, , 165-180.		0