Sperm tsRNAs contribute to intergenerational inheritan disorder

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Citation Report

#	Article	IF	Citations
1	RNA Interference in Moths: Mechanisms, Applications, and Progress. Genes, 2016, 7, 88.	1.0	50
2	Role of Non-Coding RNAs in the Transgenerational Epigenetic Transmission of the Effects of Reprotoxicants. International Journal of Molecular Sciences, 2016, 17, 452.	1.8	33
3	Multiple Layers of Stress-Induced Regulation in tRNA Biology. Life, 2016, 6, 16.	1.1	55
4	Sperm microRNA Content Is Altered in a Mouse Model of Male Obesity, but the Same Suite of microRNAs Are Not Altered in Offspringâ€™s Sperm. PLoS ONE, 2016, 11, e0166076.	1.1	76
5	The tRNA-Derived Small RNAs Regulate Gene Expression through Triggering Sequence-Specific Degradation of Target Transcripts in the Oomycete Pathogen Phytophthora sojae. Frontiers in Plant Science, 2016, 07, 1938.	1.7	45
6	Soma to germline inheritance of extrachromosomal genetic information via a LINEâ€1 reverse transcriptaseâ€based mechanism. BioEssays, 2016, 38, 726-733.	1.2	18
7	Sperm tsRNAs and acquired metabolic disorders. Journal of Endocrinology, 2016, 230, F13-F18.	1.2	18
8	Inheritance of Cytosine Methylation. Journal of Cellular Physiology, 2016, 231, 2346-2352.	2.0	11
9	Distinct Functions of Argonaute Slicer in siRNA Maturation and Heterochromatin Formation. Molecular Cell, 2016, 63, 191-205.	4.5	15
10	Persistent influence of maternal obesity on offspring health: Mechanisms from animal models and clinical studies. Molecular and Cellular Endocrinology, 2016, 435, 7-19.	1.6	39
11	An epigenetic resolution of the lek paradox. BioEssays, 2016, 38, 355-366.	1.2	18
12	Paternal programming of offspring cardiometabolic diseases in later life. Journal of Hypertension, 2016, 34, 2111-2126.	0.3	55
13	Mammalian sperm nuclear organization: resiliencies and vulnerabilities. Basic and Clinical Andrology, 2016, 26, 17.	0.8	49
14	Segment-specific regulation of epididymal gene expression. Reproduction, 2016, 152, R91-R99.	1.1	32
15	Epigenetic Heredity: Transfer RNA Has Gone to Pieces. FASEB Journal, 2016, 30, 1691-1693.	0.2	1
16	Connecting the regulatory genome. Nature Genetics, 2016, 48, 479-480.	9.4	6
17	Fat eggs shape offspring health. Nature Genetics, 2016, 48, 478-479.	9.4	10
18	Long-term activation of the innate immune system in atherosclerosis. Seminars in Immunology, 2016, 28, 384-393.	2.7	75

#	Article	IF	Citations
19	tRF2Cancer: A web server to detect tRNA-derived small RNA fragments (tRFs) and their expression in multiple cancers. Nucleic Acids Research, 2016, 44, W185-W193.	6.5	113
20	Vertically- and horizontally-transmitted memories â€“ the fading boundaries between regeneration and inheritance in planaria. Biology Open, 2016, 5, 1177-1188.	0.6	27
21	Transcriptomic data reanalysis allows for a contribution of embryonic transcriptional change-induced gene expression reprogramming in transgenerational epigenetic inheritance. Environmental Epigenetics, 2016, 2, dvw009.	0.9	3
22	Molecular carriers of acquired inheritance: absence of evidence is not evidence of absence. Environmental Epigenetics, 2016, 2, dvw014.	0.9	6
23	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications. Nature Reviews Genetics, 2016, 17, 733-743.	7.7	427
24	Transgenerational inheritance: Models and mechanisms of nonâ€“DNA sequenceâ€“based inheritance. Science, 2016, 354, 59-63.	6.0	288
25	Sins of Fathers Through a Scientific Lens. , 2016, , 585-599.		0
26	Epigenetic Control of Early Mouse Development. Current Topics in Developmental Biology, 2016, 120, 311-360.	1.0	18
27	Polarity in Cell-Fate Acquisition in the Early Mouse Embryo. Current Topics in Developmental Biology, 2016, 120, 203-234.	1.0	23
28	Different Types of Small RNAs in Protozoa. , 2016, , 177-196.		0
29	Does skeletal muscle have an â€˜epiâ€™â€•memory? The role of epigenetics in nutritional programming, metabolic disease, aging and exercise. Aging Cell, 2016, 15, 603-616.	3.0	143
30	Non-coding RNAs and Inter-kingdom Communication. , 2016, , .		5
31	Specification and epigenetic programming of the human germ line. Nature Reviews Genetics, 2016, 17, 585-600.	7.7	352
32	Epigenetics in male reproduction: effect of paternal diet on sperm quality and offspring health. Nature Reviews Urology, 2016, 13, 584-595.	1.9	204
33	Endocrine disrupters, microRNAs, and primordial germ cells: aÂdangerous cocktail. Fertility and Sterility, 2016, 106, 871-879.	0.5	16
34	SpermBase: A Database for Sperm-Borne RNA Contents. Biology of Reproduction, 2016, 95, 99-99.	1.2	111
35	The Epigenetic Consequences of Paternal Exposure to Environmental Contaminants and Reproductive Toxicants. Current Environmental Health Reports, 2016, 3, 202-213.	3.2	19
36	Male-lineage transmission of an acquired metabolic phenotype induced by grand-paternal obesity. Molecular Metabolism, 2016, 5, 699-708.	3.0	154

#	Article	IF	Citations
37	Extracellular RNA is transported from one generation to the next in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12496-12501.	3.3	101
38	High-fat diet disrupts metabolism in two generations of rats in a parent-of-origin specific manner. Scientific Reports, 2016, 6, 31857.	1.6	37
39	Small RNA Modifications: Integral to Function and Disease. Trends in Molecular Medicine, 2016, 22, 1025-1034.	3.5	90
40	Highly sensitive sequencing reveals dynamic modifications and activities of small RNAs in mouse oocytes and early embryos. Science Advances, 2016, 2, e1501482.	4.7	122
41	Discovery of a Novel Seminal Fluid Microbiome and Influence of Estrogen Receptor Alpha Genetic Status. Scientific Reports, 2016, 6, 23027.	1.6	59
42	Post-Testicular Sperm Maturation: Centriole Pairs, Found in Upper Epididymis, are Destroyed Prior to Spermâ€™s Release at Ejaculation. Scientific Reports, 2016, 6, 31816.	1.6	18
44	Paternal overweight is associated with increased breast cancer risk in daughters in a mouse model. Scientific Reports, 2016, 6, 28602.	1.6	29
45	Characterisation of mouse epididymosomes reveals a complex profile of microRNAs and a potential mechanism for modification of the sperm epigenome. Scientific Reports, 2016, 6, 31794.	1.6	181
46	Who's your daddy?: paternal inheritance of metabolic disease risk. Current Opinion in Endocrinology, Diabetes and Obesity, 2017, 24, 47-55.	1.2	26
47	Early nutrition, epigenetics, and cardiovascular disease. Current Opinion in Lipidology, 2016, 27, 449-458.	1.2	24
48	Biogenesis and Function of Transfer RNA-Related Fragments (tRFs). Trends in Biochemical Sciences, 2016, 41, 679-689.	3.7	371
49	You are what your parents ate: A Darwinian perspective on the inheritance of food effects. Trends in Food Science and Technology, 2016, 54, 204-207.	7.8	6
50	Inheritance of diet-induced metabolic changes via tsRNAs. Nature Reviews Genetics, 2016, 17, 128-128.	7.7	3
51	Commentary: Inheritance of acquired characteristics: eliminating alternatives in the search for mechanisms. Commentary on Galton F: Feasible experiments on the possibility of transmitting acquired habits by means of inheritance. International Journal of Epidemiology, 2016, 45, 20-23.	0.9	2
52	Fat dad, fat kids: sperm small RNAs in control!. Science Bulletin, 2016, 61, 428-429.	4.3	0
53	Epigenetic germline inheritance of diet-induced obesity and insulin resistance. Nature Genetics, 2016, 48, 497-499.	9.4	287
54	tRNA fragments: novel players in intergenerational inheritance. Cell Research, 2016, 26, 395-396.	5.7	26
55	Small RNAs in Sperm, Affected by Diet, Transmit Information to Offspring. Biology of Reproduction, 2016, 94, .	1.2	0

#	Article	IF	Citations
56	Transferring Fragments of Paternal Metabolism to the Offspring. Cell Metabolism, 2016, 23, 401-402.	7.2	6
57	Decoding Lamarckâ€"transgenerational control of metabolism by noncoding RNAs. Pflugers Archiv European Journal of Physiology, 2016, 468, 959-969.	1.3	8
58	Mechanism and biological role of Dnmt2 in Nucleic Acid Methylation. RNA Biology, 2017, 14, 1108-1123.	1.5	156
59	Transgenerational epigenetics: Integrating soma to germline communication with gametic inheritance. Mechanisms of Ageing and Development, 2017, 163, 15-22.	2.2	66
60	Dysregulation of long noncoding RNAs in mouse testes and spermatozoa after exposure to cadmium. Biochemical and Biophysical Research Communications, 2017, 484, 8-14.	1.0	23
61	Paternal epigenetic programming: evolving metabolic disease risk. Journal of Molecular Endocrinology, 2017, 58, R159-R168.	1.1	63
62	Epigenetic information in gametes: Gaming from before fertilization. Physics of Life Reviews, 2017, 20, 146-149.	1.5	3
63	Role of small RNAs in epigenetic reprogramming during plant sexual reproduction. Current Opinion in Plant Biology, 2017, 36, 22-28.	3.5	51
64	Intersections of post-transcriptional gene regulatory mechanisms with intermediary metabolism. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2017, 1860, 349-362.	0.9	14
65	Lamarck rises from his grave: parental environmentâ€induced epigenetic inheritance in model organisms and humans. Biological Reviews, 2017, 92, 2084-2111.	4.7	123
66	Metabolic Inputs into the Epigenome. Cell Metabolism, 2017, 25, 544-558.	7.2	156
67	Epigenetic Mechanisms of Transmission of Metabolic Disease across Generations. Cell Metabolism, 2017, 25, 559-571.	7.2	179
68	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA â€" an ISEV position paper. Journal of Extracellular Vesicles, 2017, 6, 1286095.	5.5	561
69	Occurrence and functional significance of the transcriptome in bovine (Bos taurus) spermatozoa. Scientific Reports, 2017, 7, 42392.	1.6	86
70	Multigenerational cohorts in patients with asthma and allergy. Journal of Allergy and Clinical Immunology, 2017, 139, 415-421.	1.5	51
71	Does Early Embryogenesis in Eudicots and Monocots Involve the Same Mechanism and Molecular Players?. Plant Physiology, 2017, 173, 130-142.	2.3	74
72	Advanced paternal age and childhood cancer in offspring: A nationwide register-based cohort study. International Journal of Cancer, 2017, 140, 2461-2472.	2.3	31
73	Small non coding RNAs in adipocyte biology and obesity. Molecular and Cellular Endocrinology, 2017, 456, 87-94.	1.6	25

#	Article	IF	Citations
74	The most common vices of men can damage fertility and the health of the next generation. Journal of Endocrinology, 2017, 234, F1-F6.	1.2	27
75	A sequence of 28S rRNA-derived small RNAs is enriched in mature sperm and various somatic tissues and possibly associates with inflammation. Journal of Molecular Cell Biology, 2017, 9, 256-259.	1.5	45
76	Exercise alters mouse sperm small noncoding RNAs and induces a transgenerational modification of male offspring conditioned fear and anxiety. Translational Psychiatry, 2017, 7, e1114-e1114.	2.4	134
77	A tRNA-derived fragment competes with mRNA for ribosome binding and regulates translation during stress. RNA Biology, 2017, 14, 1364-1373.	1.5	153
78	Parental obesity leads to metabolic changes in the F2 generation in Drosophila. Molecular Metabolism, 2017, 6, 631-639.	3.0	18
79	Uterine Fluid in Pregnancy: A Biological and Clinical Outlook. Trends in Molecular Medicine, 2017, 23, 604-614.	3.5	40
80	Understanding RNA modifications: the promises and technological bottlenecks of the â€˜epitranscriptomeâ€™. Open Biology, 2017, 7, 170077.	1.5	112
81	Discovery and function of transfer <scp>RNA</scp>â€derived fragments and their role in disease. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1423.	3.2	76
82	Precision Medicine in Gynecology and Obstetrics. Comprehensive Gynecology and Obstetrics, 2017, , .	0.0	1
83	tRFâ€Leuâ€CAG promotes cell proliferation and cell cycle in nonâ€small cell lung cancer. Chemical Biology and Drug Design, 2017, 90, 730-738.	1.5	148
84	Transgenerational paternal transmission of acquired traits: stress-induced modification of the sperm regulatory transcriptome and offspring phenotypes. Current Opinion in Behavioral Sciences, 2017, 14, 140-147.	2.0	44
85	Effect of vitrification on the <scp>mRNA</scp> transcriptome of bovine oocytes. Reproduction in Domestic Animals, 2017, 52, 531-541.	0.6	57
86	Molecular changes and signaling events occurring in spermatozoa during epididymal maturation. Andrology, 2017, 5, 204-218.	1.9	178
87	Advanced paternal age and stillbirth rate: a nationwide register-based cohort study of 944,031 pregnancies in Denmark. European Journal of Epidemiology, 2017, 32, 227-234.	2.5	30
88	Comparative profiling of small RNAs of pig seminal plasma and ejaculated and epididymal sperm. Reproduction, 2017, 153, 785-796.	1.1	36
89	A Matter of Time: Small RNAs Regulate the Duration of Epigenetic Inheritance. Trends in Genetics, 2017, 33, 46-57.	2.9	91
90	Epigenetic modifications and reprogramming in paternal pronucleus: sperm, preimplantation embryo, and beyond. Cellular and Molecular Life Sciences, 2017, 74, 1957-1967.	2.4	42
91	Consumption of a high-fat diet alters the seminal fluid and gut microbiomes in male mice. Reproduction, Fertility and Development, 2017, 29, 1602.	0.1	38

#	Article	IF	Citations
92	Dyslipidemia alters sperm maturation and capacitation in LXR-null mice. Reproduction, 2017, 154, 827-842.	1.1	11
93	Microfluidics-based digital quantitative PCR for single-cell small RNA quantificationâ€. Biology of Reproduction, 2017, 97, 490-496.	1.2	8
94	Chromatinâ€associated noncoding <scp>RNAs</scp> in development and inheritance. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1435.	3.2	10
95	tsRNAs: new players in mammalian retrotransposon control. Cell Research, 2017, 27, 1307-1308.	5.7	16
96	Analysis of the small non-protein-coding RNA profile of mouse spermatozoa reveals specific enrichment of piRNAs within mature spermatozoa. RNA Biology, 2017, 14, 1776-1790.	1.5	57
97	Obese fathers lead to an altered metabolism and obesity in their children in adulthood: review of experimental and human studies. Jornal De Pediatria, 2017, 93, 551-559.	0.9	37
98	The RNA modification landscape in human disease. Rna, 2017, 23, 1754-1769.	1.6	427
99	The New RNA World: Growing Evidence for Long Noncoding RNA Functionality. Trends in Genetics, 2017, 33, 665-676.	2.9	192
100	Genetics of Nonsyndromic Human Obesity, With Suggestions for New Studies From Work in Mouse Models. , 2017, , 455-476.		0
101	Obesity, a serious etiologic factor for male subfertility in modern society. Reproduction, 2017, 154, R123-R131.	1.1	145
102	Switches in Dicer Activity During Oogenesis and Early Development. Results and Problems in Cell Differentiation, 2017, 63, 325-351.	0.2	0
103	DNA methylation-independent growth restriction and altered developmental programming in a mouse model of preconception male alcohol exposure. Epigenetics, 2017, 12, 841-853.	1.3	46
104	Transmission of Type 2 diabetes to sons and daughters: the D.E.S.I.R. cohort. Diabetic Medicine, 2017, 34, 1615-1622.	1.2	5
105	A transfer-RNA-derived small RNA regulates ribosome biogenesis. Nature, 2017, 552, 57-62.	13.7	366
107	Male Obesity: Epigenetic Origin and Effects in Sperm and Offspring. Current Molecular Biology Reports, 2017, 3, 288-296.	0.8	50
108	Variant Histone H2afv reprograms DNA methylation during early zebrafish development. Epigenetics, 2017, 12, 811-824.	1.3	19
109	Comparative microRNAome analysis of the testis and ovary of the Chinese giant salamander. Reproduction, 2017, 154, 269-279.	1.1	18
110	Paternal preconception alcohol exposure imparts intergenerational alcohol-related behaviors to male offspring on a pure C57BL/6J background. Alcohol, 2017, 60, 169-177.	0.8	81

#	Article	IF	Citations
111	Homage to the â€˜Hâ€™ in developmental origins of health and disease. Journal of Developmental Origins of Health and Disease, 2017, 8, 8-29.	0.7	20
112	Obese fathers lead to an altered metabolism and obesity in their children in adulthood: review of experimental and human studies. Jornal De Pediatria (VersÃ£o Em PortuguÃªs), 2017, 93, 551-559.	0.2	2
113	Heritable sperm chromatin epigenetics: a break to rememberâ€. Biology of Reproduction, 2017, 97, 784-797.	1.2	23
114	The nuclear and organellar tRNA-derived RNA fragment population in Arabidopsis thaliana is highly dynamic. Nucleic Acids Research, 2017, 45, 3460-3472.	6.5	93
115	Nutritional Epigenome and Metabolic Syndrome. , 2017, , 465-475.		2
116	LncRNA Structural Characteristics in Epigenetic Regulation. International Journal of Molecular Sciences, 2017, 18, 2659.	1.8	131
117	Computational Approaches to tRNA-Derived Small RNAs. Non-coding RNA, 2017, 3, 2.	1.3	20
118	An Exerciseâ€Only Intervention in Obese Fathers Restores Glucose and Insulin Regulation in Conjunction with the Rescue of Pancreatic Islet Cell Morphology and MicroRNA Expression in Male Offspring. Nutrients, 2017, 9, 122.	1.7	40
119	Mouse Models of Epigenetic Inheritance: Classification, Mechanisms, and Experimental Strategies. , 2017, , 231-243.		0
120	Parental and Early Developmental Stress Impact on Neurodevelopmental and Neuropsychiatric Disorders. , 2017, , 117-132.		0
121	Cross-Talk between Dnmt2-Dependent tRNA Methylation and Queuosine Modification. Biomolecules, 2017, 7, 14.	1.8	42
122	Overexpression of Human-Derived DNMT3A Induced Intergenerational Inheritance of Active DNA Methylation Changes in Rat Sperm. Frontiers in Genetics, 2017, 8, 207.	1.1	3
123	They Are What You Eat: Can Nutritional Factors during Gestation and Early Infancy Modulate the Neonatal Immune Response?. Frontiers in Immunology, 2017, 8, 1641.	2.2	37
124	New Insight into Inter-kingdom Communication: Horizontal Transfer of Mobile Small RNAs. Frontiers in Microbiology, 2017, 8, 768.	1.5	45
125	Sperm-Mediated Transgenerational Inheritance. Frontiers in Microbiology, 2017, 8, 2401.	1.5	39
126	Binge-Like Sucrose Self-Administration Experience Inhibits Cocaine and Sucrose Seeking Behavior in Offspring. Frontiers in Behavioral Neuroscience, 2017, 11, 184.	1.0	7
127	Epigenetics and multiple sclerosis. , 2017, , 185-213.		2
128	Bioinformatics and Drug Discovery. Current Topics in Medicinal Chemistry, 2017, 17, 1709-1726.	1.0	128

#	Article	IF	Citations
129	A new paramutation-like example at the Delta gene of Drosophila. PLoS ONE, 2017, 12, e0172780.	1.1	2
130	Paternal obesity: how bad is it for sperm quality and progeny health?. Basic and Clinical Andrology, 2017, 27, 20.	0.8	44
131	C. elegans SUP-46, an HNRNPM family RNA-binding protein that prevents paternally-mediated epigenetic sterility. BMC Biology, 2017, 15, 61.	1.7	6
132	Multigenerational analysis of sex-specific phenotypic differences at midgestation caused by abnormal folate metabolism. Environmental Epigenetics, 2017, 3, dvx014.	0.9	10
133	Epigenetic dynamics and interplay during spermatogenesis and embryogenesis: implications for male fertility and offspring health. Oncotarget, 2017, 8, 53804-53818.	0.8	50
134	Sperm-carried RNAs play critical roles in mouse embryonic development. Oncotarget, 2017, 8, 67394-67405.	0.8	66
135	Adolescence and the next generation. Nature, 2018, 554, 458-466.	13.7	238
136	Modifications and functional genomics of human transfer RNA. Cell Research, 2018, 28, 395-404.	5.7	260
137	A single-cell epigenetic model for paternal psychological stress-induced transgenerational reprogramming in offspringâ€. Biology of Reproduction, 2018, 98, 846-855.	1.2	9
138	Epigenetics as a Driver of Developmental Origins of Health and Disease: Did We Forget the Fathers?. BioEssays, 2018, 40, 1700113.	1.2	70
139	Epigenetic alterations in longevity regulators, reduced life span, and exacerbated aging-related pathology in old father offspring mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2348-E2357.	3.3	102
140	Replicating and Cycling Stores of Information Perpetuate Life. BioEssays, 2018, 40, e1700161.	1.2	7
141	Chromatin dynamics underlying latent responses to xenobiotics. Toxicology Research, 2018, 7, 606-617.	0.9	4
142	Epigenetics as a mechanism linking developmental exposures to long-term toxicity. Environment International, 2018, 114, 77-86.	4.8	140
143	Sperm epigenetics and influence of environmental factors. Molecular Metabolism, 2018, 14, 1-11.	3.0	234
144	A history of why fathersâ€™ RNA mattersâ€. Biology of Reproduction, 2018, 99, 147-159.	1.2	94
145	Dnmt2 mediates intergenerational transmission of paternally acquired metabolic disorders through sperm small non-coding RNAs. Nature Cell Biology, 2018, 20, 535-540.	4.6	302
146	Origins of lifetime health around the time of conception: causes and consequences. Lancet, The, 2018, 391, 1842-1852.	6.3	771

#	Article	IF	Citations
147	Exploring the extent and scope of epigenetic inheritance. Nature Reviews Endocrinology, 2018, 14, 345-355.	4.3	71
148	Not just heads and tails: The complexity of the sperm epigenome. Journal of Biological Chemistry, 2018, 293, 13815-13820.	1.6	39
149	Chromatin modifications in metabolic disease: Potential mediators of longâ€term disease risk. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2018, 10, e1416.	6.6	19
150	Developmental Origins of Breast Cancer: A Paternal Perspective. Methods in Molecular Biology, 2018, 1735, 91-103.	0.4	4
151	Non-coding RNA fragments account for the majority of annotated piRNAs expressed in somatic non-gonadal tissues. Communications Biology, 2018, 1, 2.	2.0	102
152	Impact of paternal nutrition on epigenetic patterns. Epigenomics, 2018, 10, 115-117.	1.0	1
153	Metabolism in Pluripotent Stem Cells and Early Mammalian Development. Cell Metabolism, 2018, 27, 332-338.	7.2	122
154	Daphnia magna micro<scp>RNA</scp>s respond to nutritional stress and ageing but are not transgenerational. Molecular Ecology, 2018, 27, 1402-1412.	2.0	21
155	Animal models of obesity and diabetes mellitus. Nature Reviews Endocrinology, 2018, 14, 140-162.	4.3	563
156	Modificaomics: deciphering the functions of biomolecule modifications. Science China Chemistry, 2018, 61, 381-392.	4.2	38
157	Signaling to and from the RNA Polymerase III Transcription and Processing Machinery. Annual Review of Biochemistry, 2018, 87, 75-100.	5.0	68
158	tRNA-derived small non-coding RNAs in human disease. Cancer Letters, 2018, 419, 1-7.	3.2	80
159	Identification of substrates of the small RNA methyltransferase Hen1 in mouse spermatogonial stem cells and analysis of its methyl-transfer domain. Journal of Biological Chemistry, 2018, 293, 9981-9994.	1.6	13
160	Effects of paternal high-fat diet and rearing environment on maternal investment and development of defensive responses in the offspring. Psychoneuroendocrinology, 2018, 91, 20-30.	1.3	21
161	Hormonal changes and folliculogenesis in female offspring of rats exposed to cadmium during gestation and lactation. Environmental Pollution, 2018, 238, 336-347.	3.7	22
162	The discovery potential of RNA processing profiles. Nucleic Acids Research, 2018, 46, e15-e15.	6.5	9
163	Transfer RNA-derived small RNAs in plants. Science China Life Sciences, 2018, 61, 155-161.	2.3	35
164	Drosophila tsRNAs preferentially suppress general translation machinery via antisense pairing and participate in cellular starvation response. Nucleic Acids Research, 2018, 46, 5250-5268.	6.5	93

#	Article	IF	Citations
165	A paternal methyl donor-rich diet altered cognitive and neural functions in offspring mice. Molecular Psychiatry, 2018, 23, 1345-1355.	4.1	53
166	Exercise and epigenetic inheritance of disease risk. Acta Physiologica, 2018, 222, e12881.	1.8	48
167	Parental Advisory: Maternal and Paternal Stress Can Impact Offspring Neurodevelopment. Biological Psychiatry, 2018, 83, 886-894.	0.7	146
168	Novel evidence for paternal dietary influences on cognitive and neural functions in offspring mice. Molecular Psychiatry, 2018, 23, 2118-2118.	4.1	0
169	The emerging complexity of the tRNA world: mammalian tRNAs beyond protein synthesis. Nature Reviews Molecular Cell Biology, 2018, 19, 45-58.	16.1	324
170	Diet-induced obesity leads to metabolic dysregulation in offspring via endoplasmic reticulum stress in a sex-specific manner. International Journal of Obesity, 2018, 42, 244-251.	1.6	20
171	The â€œevolutionary fieldâ€•hypothesis. Non-Mendelian transgenerational inheritance mediates diversification and evolution. Progress in Biophysics and Molecular Biology, 2018, 134, 27-37.	1.4	34
172	tRNA-derived small RNAs: New players in genome protection against retrotransposons. RNA Biology, 2018, 15, 170-175.	1.5	37
173	Epigenetic germline inheritance in mammals: looking to the past to understand the future. Genes, Brain and Behavior, 2018, 17, e12407.	1.1	48
174	Transcriptional and Small RNA Responses of the White Mold Fungus Sclerotinia sclerotiorum to Infection by a Virulence-Attenuating Hypovirus. Viruses, 2018, 10, 713.	1.5	35
175	Epigenetic effects of male obesity on sperm and offspring. Journal of Bio-X Research, 2018, 1, 105-110.	0.3	3
176	Introductory Chapter: Spermatozoa - Facts and Perspectives. , 2018, , .		0
177	Diabetes in Pregnancy and MicroRNAs: Promises and Limitations in Their Clinical Application. Non-coding RNA, 2018, 4, 32.	1.3	31
178	Paternally Mediated Developmental Toxicity. , 2018, , 100-117.		2
179	Functions and mechanisms of epigenetic inheritance in animals. Nature Reviews Molecular Cell Biology, 2018, 19, 774-790.	16.1	335
180	tRNA-Derived Small RNAs: Biogenesis, Modification, Function and Potential Impact on Human Disease Development. Genes, 2018, 9, 607.	1.0	81
182	Deciphering the Role of the Non-Coding Genome in Regulating Gene-Diet Interactions. Nutrients, 2018, 10, 1831.	1.7	2
183	Paternal Preconception Chronic Variable Stress Confers Attenuated Ethanol Drinking Behavior Selectively to Male Offspring in a Pre-Stress Environment Dependent Manner. Frontiers in Behavioral Neuroscience, 2018, 12, 257.	1.0	18

#	Article	IF	Citations
184	Transfer RNA-derived fragments and tRNA halves: biogenesis, biological functions and their roles in diseases. Journal of Molecular Medicine, 2018, 96, 1167-1176.	1.7	171
185	Paternal Exercise Improves Glucose Metabolism in Adult Offspring. Diabetes, 2018, 67, 2530-2540.	0.3	78
186	Origine dÃ©veloppementale des maladies mÃ©taboliquesÂ: lâ€™empreinte du pÃ¨re. Cahiers De Nutrition Et De Dietetique, 2018, 53, 256-266.	0.2	0
187	Transgenerational inheritance of behavioral and metabolic effects of paternal exposure to traumatic stress in early postnatal life: evidence in the 4th generation. Environmental Epigenetics, 2018, 4, dvy023.	0.9	69
188	Epigenetic Inheritance: Concepts, Mechanisms and Perspectives. Frontiers in Molecular Neuroscience, 2018, 11, 292.	1.4	160
189	Large Differences in Small RNA Composition Between Human Biofluids. Cell Reports, 2018, 25, 1346-1358.	2.9	163
190	Paternal factors contributing to embryo quality. Journal of Assisted Reproduction and Genetics, 2018, 35, 1953-1968.	1.2	97
191	Environmental toxicant induced epigenetic transgenerational inheritance of ovarian pathology and granulosa cell epigenome and transcriptome alterations: ancestral origins of polycystic ovarian syndrome and primary ovarian insufficiency. Epigenetics, 2018, 13, 875-895.	1.3	51
192	Sperm epigenome as a marker of environmental exposure and lifestyle, at the origin of diseases inheritance. Mutation Research - Reviews in Mutation Research, 2018, 778, 38-44.	2.4	53
193	The remarkable legacy of a fatherâ€™s diet on the health of his offspring. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9827-9829.	3.3	6
194	Paternal malnutrition programs breast cancer risk and tumor metabolism in offspring. Breast Cancer Research, 2018, 20, 99.	2.2	35
195	Transgenerational Epigenetic Inheritance. Annual Review of Genetics, 2018, 52, 21-41.	3.2	208
196	Enigma of Retrotransposon Biology in Mammalian Early Embryos and Embryonic Stem Cells. Stem Cells International, 2018, 2018, 1-6.	1.2	20
197	Epigenetic control of variation and stochasticity in metabolic disease. Molecular Metabolism, 2018, 14, 26-38.	3.0	32
198	The contribution of human sperm proteins to the development and epigenome of the preimplantation embryo. Human Reproduction Update, 2018, 24, 535-555.	5.2	131
199	Folate treatment of pregnant rat dams abolishes metabolic effects in female offspring induced by a paternal pre-conception unhealthy diet. Diabetologia, 2018, 61, 1862-1876.	2.9	19
200	tRNA fragments (tRFs) guide Ago to regulate gene expression post-transcriptionally in a Dicer-independent manner. Rna, 2018, 24, 1093-1105.	1.6	276
201	Dadâ€™s diet â€“ smRNA methylation signatures in sperm pass on disease risk. Nature Reviews Endocrinology, 2018, 14, 446-447.	4.3	1

#	Article	IF	Citations
202	Current and Future Perspectives on Sperm RNAs. , 2018, , 29-46.		0
203	The S. pombe mitochondrial transcriptome. Rna, 2018, 24, 1241-1254.	1.6	17
204	Tie-Break: Host and Retrotransposons Play tRNA. Trends in Cell Biology, 2018, 28, 793-806.	3.6	38
205	The role of RNA modifications in the regulation of tRNA cleavage. FEBS Letters, 2018, 592, 2828-2844.	1.3	128
206	Transgenerational and Epigenetic Impacts of Environmental Exposures in Male Reproduction. , 2018, , 634-641.		0
207	Mechanisms of Epigenetic Transgenerational Inheritance. , 2018, , 439-441.		1
208	Will Widespread Synthetic Opioid Consumption Induce Epigenetic Consequences in Future Generations?. Frontiers in Pharmacology, 2018, 9, 702.	1.6	16
209	Environmentally induced epigenetic transgenerational inheritance of disease. Environmental Epigenetics, 2018, 4, dvy016.	0.9	293
210	Small RNAs Are Trafficked from the Epididymis to Developing Mammalian Sperm. Developmental Cell, 2018, 46, 481-494.e6.	3.1	287
211	Small RNAs Gained during Epididymal Transit of Sperm Are Essential for Embryonic Development in Mice. Developmental Cell, 2018, 46, 470-480.e3.	3.1	228
212	Transcriptional profiles of crossbred embryos derived from yak oocytes in vitro fertilized with cattle sperm. Scientific Reports, 2018, 8, 11571.	1.6	3
213	Heavy Chronic Intermittent Ethanol Exposure Alters Small Noncoding RNAs in Mouse Sperm and Epididymosomes. Frontiers in Genetics, 2018, 9, 32.	1.1	88
214	Alteration of Hepatic Gene Expression along with the Inherited Phenotype of Acquired Fatty Liver in Chicken. Genes, 2018, 9, 199.	1.0	30
215	Limited efficacy of somatic cell lysis buffer to purify laboratory mouse sperm. Epigenomics, 2018, 10, 689-694.	1.0	2
216	Nucleotide Substitution Models and Evolutionary Distances. , 2018, , 269-314.		3
217	Testosterone-Dependent miR-26a-5p and let-7g-5p Act as Signaling Mediators to Regulate Sperm Apoptosis via Targeting PTEN and PMAIP1. International Journal of Molecular Sciences, 2018, 19, 1233.	1.8	41
218	Functional Interplay between Small Non-Coding RNAs and RNA Modification in the Brain. Non-coding RNA, 2018, 4, 15.	1.3	15
219	Epigenetics of Transgenerational Inheritance of Disease. , 2018, , 805-836.		2

#	Article	IF	Citations
220	Genome wide analyses uncover allele-specific RNA editing in human and mouse. Nucleic Acids Research, 2018, 46, 8888-8897.	6.5	47
221	Parentally inherited long non-coding RNA Cyrano is involved in zebrafish neurodevelopment. Nucleic Acids Research, 2018, 46, 9726-9735.	6.5	33
222	tRNA-Derived Small RNA: A Novel Regulatory Small Non-Coding RNA. Genes, 2018, 9, 246.	1.0	217
223	The Criticisms of Pangenesis. Advances in Genetics, 2018, 101, 31-61.	0.8	0
224	Darwin's Pangenesis and the Lamarckian Inheritance of Acquired Characters. Advances in Genetics, 2018, 101, 115-144.	0.8	0
225	A Novel Class of tRNA-Derived Small Non-Coding RNAs Respond to Myocardial Hypertrophy and Contribute to Intergenerational Inheritance. Biomolecules, 2018, 8, 54.	1.8	37
226	Distance-Based Phylogenetic Methods. , 2018, , 343-379.		3
227	Bioinformatics and Translation Initiation. , 2018, , 173-195.		0
228	Bioinformatics and Translation Elongation. , 2018, , 197-238.		1
229	Genomic Features: Content Sensors, Nucleotide Skew Plot, Strand Asymmetry, and DNA Methylation. , 2018, , 255-268.		1
230	Protein Isoelectric Point and Helicobacter pylori. , 2018, , 397-412.		0
231	Fundamentals of Proteomics. , 2018, , 421-436.		0
232	In Search of Darwin's Imaginary Gemmules. Advances in Genetics, 2018, 101, 87-114.	0.8	9
233	Abnormal folate metabolism causes ageâ€, sexâ€•and parentâ€ofâ€originâ€specific haematological defects in mice. Journal of Physiology, 2018, 596, 4341-4360.	1.3	18
234	The Influence of Darwin's Pangenesis on Later Theories. Advances in Genetics, 2018, 101, 63-85.	0.8	1
235	A Lexicon of DNA Modifications: Their Roles in Embryo Development and the Germline. Frontiers in Cell and Developmental Biology, 2018, 6, 24.	1.8	16
236	A Decade of Exploring the Mammalian Sperm Epigenome: Paternal Epigenetic and Transgenerational Inheritance. Frontiers in Cell and Developmental Biology, 2018, 6, 50.	1.8	134
237	Investigation into the role of the germline epigenome in the transmission of glucocorticoid-programmed effects across generations. Genome Biology, 2018, 19, 50.	3.8	20

#	Article	IF	Citations
239	SPORTS1.0: A Tool for Annotating and Profiling Non-coding RNAs Optimized for rRNA- and tRNA-derived Small RNAs. Genomics, Proteomics and Bioinformatics, 2018, 16, 144-151.	3.0	102
240	Early life diet conditions the molecular response to post-weaning protein restriction in the mouse. BMC Biology, 2018, 16, 51.	1.7	12
241	Endurance training remodels sperm-borne small RNA expression and methylation at neurological gene hotspots. Clinical Epigenetics, 2018, 10, 12.	1.8	84
242	Effects of Post-Weaning Chronic Stress on Nociception, Spinal Cord Î¼-Opioid, and Î±2-Adrenergic Receptors Expression in Rats and Their Offspring. Journal of Molecular Neuroscience, 2018, 64, 567-573.	1.1	5
243	Tracing the origin of heterogeneity and symmetry breaking in the early mammalian embryo. Nature Communications, 2018, 9, 1819.	5.8	72
244	Paternal diet programs offspring health through sperm- and seminal plasma-specific pathways in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10064-10069.	3.3	185
245	Principles of DNA methylation and their implications for biology and medicine. Lancet, The, 2018, 392, 777-786.	6.3	436
246	Repertoires of tRNAs: The Couplers of Genomics and Proteomics. Annual Review of Cell and Developmental Biology, 2018, 34, 239-264.	4.0	72
247	Darwin's Pangenesis and Graft Hybridization. Advances in Genetics, 2018, 102, 27-66.	0.8	7
248	Transgenerational epigenetic inheritance in birds. Environmental Epigenetics, 2018, 4, dvy008.	0.9	47
249	DNA Methylation in Eukaryotes: Regulation and Function. , 2018, , 509-570.		0
250	What Can Stem Cell Models Tell Us About Human Germ Cell Biology?. Current Topics in Developmental Biology, 2018, 129, 25-65.	1.0	18
251	Transfer RNA-derived fragments target and regulate ribosome-associated aminoacyl-transfer RNA synthetases. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2018, 1861, 647-656.	0.9	44
252	Early-Life Nutrition, Epigenetics and Prevention of Obesity. , 2018, , 427-456.		2
253	Emerging Topics in Reproduction. , 2018, , .		0
254	Paternal cholestasis exacerbates obesity-associated hypertension in male offspring but is prevented by paternal ursodeoxycholic acid treatment. International Journal of Obesity, 2019, 43, 319-330.	1.6	17
255	Maternal obesity and risk of cerebral palsy in children: a systematic review and metaâ€analysis. Developmental Medicine and Child Neurology, 2019, 61, 31-38.	1.1	17
256	Reversing Behavioral, Neuroanatomical, and Germline Influences of Intergenerational Stress. Biological Psychiatry, 2019, 85, 248-256.	0.7	23

#	Article	IF	Citations
257	RNA (C5-cytosine) Methyltransferases. Biochemistry (Moscow), 2019, 84, 851-869.	0.7	5
258	Small non-coding RNAs as epigenetic regulators. , 2019, , 37-47.		0
259	Race in the social-epigenomic regulation of pre- and perinatal development. , 2019, , 135-152.		0
260	Epigenetic inheritance of metabolic signals. , 2019, , 167-190.		2
261	The paternal diet regulates the offspring epigenome and health. , 2019, , 191-200.		0
262	Identifying Opinion Leaders in Virtual Travel Community Based on Social Network Analysis. Lecture Notes in Computer Science, 2019, , 276-294.	1.0	3
263	Paternal epigenetic inheritance. , 2019, , 107-133.		3
264	Epigenetic inheritance of type 2 diabetes. , 2019, , 439-462.		0
265	Oxidative Damage to Sperm DNA: Attack and Defense. Advances in Experimental Medicine and Biology, 2019, 1166, 107-117.	0.8	32
266	The Sperm Epigenome: Implications for Assisted Reproductive Technologies. Advances in Experimental Medicine and Biology, 2019, 1166, 47-56.	0.8	12
267	Advances in epigenetics link genetics to the environment and disease. Nature, 2019, 571, 489-499.	13.7	863
268	Developmental programming of obesity by maternal exposure to concentrated ambient PM2.5 is maternally transmitted into the third generation in a mouse model. Particle and Fibre Toxicology, 2019, 16, 27.	2.8	18
269	Genome-Wide Distribution of Nascent Transcripts in Sperm DNA, Products of a Late Wave of General Transcription. Cells, 2019, 8, 1196.	1.8	6
270	Paternal Contributions to Offspring Health: Role of Sperm Small RNAs in Intergenerational Transmission of Epigenetic Information. Frontiers in Cell and Developmental Biology, 2019, 7, 215.	1.8	90
271	Feedback Numbers of MÃ¶bius Ladders. ITM Web of Conferences, 2019, 25, 01013.	0.4	0
272	Expression analysis of transfer RNAâ€derived fragments in the blood of patients with moyamoya disease: A preliminary study. Molecular Medicine Reports, 2019, 19, 3564-3574.	1.1	10
273	Transgenerational epigenetic inheritance: from phenomena to molecular mechanisms. Current Opinion in Neurobiology, 2019, 59, 189-206.	2.0	57
274	Emerging role of a novel small non-coding regulatory RNA: tRNA-derived small RNA. ExRNA, 2019, 1, .	1.0	7

#	Article	IF	Citations
275	Expression profile of tRNAâ€‘derived fragments in pancreatic cancer. Oncology Letters, 2019, 18, 3104-3114.	0.8	20
276	The active role of spermatozoa in transgenerational inheritance. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191263.	1.2	18
277	The effects of di-butyl phthalate exposure from medications on human sperm RNA among men. Scientific Reports, 2019, 9, 12397.	1.6	22
278	Transgenerational Impact of Environmental Change. Advances in Experimental Medicine and Biology, 2019, 1200, 71-89.	0.8	6
279	Epigenetic changes in the mammalian paternal germ line. , 2019, , 43-72.		0
280	Multigenerational epigenetic inheritance: One step forward, two generations back. Neurobiology of Disease, 2019, 132, 104591.	2.1	36
281	Expression profile of tRNAâ€‘derived fragments and their potential roles in human varicose veins. Molecular Medicine Reports, 2019, 20, 3191-3201.	1.1	4
282	Dietary Micronutrient Supplementation for 12 Days in Obese Male Mice Restores Sperm Oxidative Stress. Nutrients, 2019, 11, 2196.	1.7	20
283	Angiogenin generates specific stress-induced tRNA halves and is not involved in tRF-3â€“mediated gene silencing. Journal of Biological Chemistry, 2019, 294, 16930-16941.	1.6	109
284	Advances in research into gamete and embryo-fetal origins of adult diseases. Science China Life Sciences, 2019, 62, 360-368.	2.3	20
285	Mother or Father: Who Is in the Front Line? Mechanisms Underlying the Non-Genomic Transmission of Obesity/Diabetes via the Maternal or the Paternal Line. Nutrients, 2019, 11, 233.	1.7	42
286	Preconception paternal alcohol exposure exerts sex-specific effects on offspring growth and long-term metabolic programming. Epigenetics and Chromatin, 2019, 12, 9.	1.8	44
287	The tRNA-associated dysregulation in diabetes mellitus. Metabolism: Clinical and Experimental, 2019, 94, 9-17.	1.5	20
288	Mature sperm small-RNA profile in the sparrow: implications for transgenerational effects of age on fitness. Environmental Epigenetics, 2019, 5, dvz007.	0.9	7
289	Historical perspective of transgenerational epigenetics. , 2019, , 25-40.		1
290	Investigating Possible Trans/Intergenerational Associations With Obesity in Young Adults Using an Exposome Approach. Frontiers in Genetics, 2019, 10, 314.	1.1	25
291	microRNA and Other Small RNA Sequence Profiling across Six Tissues of Chinese Forest Musk Deer (Moschus berezovskii). BioMed Research International, 2019, 2019, 1-9.	0.9	4
292	Sperm RNA code programmes the metabolic health of offspring. Nature Reviews Endocrinology, 2019, 15, 489-498.	4.3	152

#	Article	IF	Citations
293	Transgenerational epigenetics, paternal obesity, and insulin resistance. , 2019, , 423-437.		0
294	Paternal Nongenetic Intergenerational Transmission of Metabolic Disease Risk. Current Diabetes Reports, 2019, 19, 38.	1.7	25
295	CircNAPEPLD is expressed in human and murine spermatozoa and physically interacts with oocyte miRNAs. RNA Biology, 2019, 16, 1237-1248.	1.5	31
296	Maternal epigenetic inheritance. , 2019, , 75-105.		2
297	Dynamic expression of tRNAâ€derived small RNAs define cellular states. EMBO Reports, 2019, 20, e47789.	2.0	100
298	Environmental and Nutritional Effects Regulating Adipose Tissue Function and Metabolism Across Generations. Advanced Science, 2019, 6, 1900275.	5.6	18
299	Epididymal small nonâ€coding <scp>RNA</scp> studies: progress over the past decade. Andrology, 2019, 7, 681-689.	1.9	18
300	Role of miRNA in the Transmission of Metabolic Diseases Associated With Paternal Diet-Induced Obesity. Frontiers in Genetics, 2019, 10, 337.	1.1	46
301	Maternal overnutrition programs hedonic and metabolic phenotypes across generations through sperm tsRNAs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10547-10556.	3.3	118
302	Complement C3 activation regulates the production of tRNA-derived fragments Gly-tRFs and promotes alcohol-induced liver injury and steatosis. Cell Research, 2019, 29, 548-561.	5.7	53
303	Galactose-Mediated Protection from Metabolic Disease: Nutritional Programming, Parental Effects, and the Milky Way Forward. Journal of Nutrition, 2019, 149, 1099-1101.	1.3	1
304	A Secreted RNA Binding Protein Forms RNA-Stabilizing Granules in the Honeybee Royal Jelly. Molecular Cell, 2019, 74, 598-608.e6.	4.5	39
305	tRNA Fragments Show Intertwining with mRNAs of Specific Repeat Content and Have Links to Disparities. Cancer Research, 2019, 79, 3034-3049.	0.4	72
306	Alterations in sperm-inherited noncoding RNAs associate with late-term fetal growth restriction induced by preconception paternal alcohol use. Reproductive Toxicology, 2019, 87, 11-20.	1.3	35
307	Profiling of epididymal small nonâ€proteinâ€coding <scp>RNA</scp>s. Andrology, 2019, 7, 669-680.	1.9	33
308	The tRNA Epitranscriptome and Diabetes: Emergence of tRNA Hypomodifications as a Cause of Pancreatic Î²-Cell Failure. Endocrinology, 2019, 160, 1262-1274.	1.4	13
309	Systematic Analysis of tRNA-Derived Small RNAs Reveals Novel Potential Therapeutic Targets of Traditional Chinese Medicine (Buyang-Huanwu-Decoction) on Intracerebral Hemorrhage. International Journal of Biological Sciences, 2019, 15, 895-908.	2.6	65
310	Intergenerational Effects of Alcohol: A Review of Paternal Preconception Ethanol Exposure Studies and Epigenetic Mechanisms in the Male Germline. Alcoholism: Clinical and Experimental Research, 2019, 43, 1032-1045.	1.4	45

#	Article	IF	Citations
312	Early in life effects and heredity: reconciling neo-Darwinism with neo-Lamarckism under the banner of the inclusive evolutionary synthesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180113.	1.8	28
313	Genome-wide methylation is modified by caloric restriction in Daphnia magna. BMC Genomics, 2019, 20, 197.	1.2	21
314	The expanding repertoire of hereditary information carriers. Development (Cambridge), 2019, 146, .	1.2	9
315	Identification of small non-coding RNAs as sperm quality biomarkers for in vitro fertilization. Cell Discovery, 2019, 5, 20.	3.1	72
316	Non-genetic inheritance via the male germline in mammals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180118.	1.8	37
317	A dispersion flattened fiber front-haul transmission system with high bitrate signal at low input optical power. Optoelectronics Letters, 2019, 15, 31-34.	0.4	0
318	Vitamin K2-Dependent GGCX and MGP Are Required for Homeostatic Calcium Regulation of Sperm Maturation. IScience, 2019, 14, 210-225.	1.9	15
319	Diet-Induced Epigenetic Modifications and Implications for Intestinal Diseases. , 2019, , 1513-1533.		0
320	Exosomal tRNA-derived small RNA as a promising biomarker for cancer diagnosis. Molecular Cancer, 2019, 18, 74.	7.9	204
321	Endogenous Retroviruses Function as Gene Expression Regulatory Elements During Mammalian Pre-implantation Embryo Development. International Journal of Molecular Sciences, 2019, 20, 790.	1.8	37
322	Small RNAs in Rat Sperm Are a Predictive and Sensitive Biomarker of Exposure to the Testicular Toxicant Ethylene Glycol Monomethyl Ether. Toxicological Sciences, 2019, 169, 399-408.	1.4	12
323	Adverse effects of paternal obesity on the motile spermatozoa quality. PLoS ONE, 2019, 14, e0211837.	1.1	23
324	The Opening of Pandora's Box: An Emerging Role of Long Noncoding RNA in Viral Infections. Frontiers in Immunology, 2018, 9, 3138.	2.2	42
325	Nutritional modulation of the epigenome and its implication for future health. Proceedings of the Nutrition Society, 2019, 78, 305-312.	0.4	15
326	Environmental Toxicant Induced Epigenetic Transgenerational Inheritance of Prostate Pathology and Stromal-Epithelial Cell Epigenome and Transcriptome Alterations: Ancestral Origins of Prostate Disease. Scientific Reports, 2019, 9, 2209.	1.6	31
327	Metazoan tsRNAs: Biogenesis, Evolution and Regulatory Functions. Non-coding RNA, 2019, 5, 18.	1.3	21
328	RNA-Sequencing Analysis of Paternal Low-Protein Diet-Induced Gene Expression Change in Mouse Offspring Adipocytes. G3: Genes, Genomes, Genetics, 2019, 9, 2161-2170.	0.8	11
329	Parental breeding age effects on descendantsâ€™ longevity interact over 2 generations in matrilines and patrilines. PLoS Biology, 2019, 17, e3000556.	2.6	28

#	Article	IF	Citations
330	Transient Sperm Starvation Improves the Outcome of Assisted Reproductive Technologies. Frontiers in Cell and Developmental Biology, 2019, 7, 262.	1.8	32
331	Influence of increased paternal BMI on pregnancy and child health outcomes independent of maternal effects: A systematic review and meta-analysis. Obesity Research and Clinical Practice, 2019, 13, 511-521.	0.8	43
332	Epigenetics and Human Assisted Reproduction. , 2019, , 331-357.		0
333	Human sperm displays rapid responses to diet. PLoS Biology, 2019, 17, e3000559.	2.6	122
334	The influence of paternal diet on sncRNA-mediated epigenetic inheritance. Molecular Genetics and Genomics, 2019, 294, 1-11.	1.0	38
335	Intergenerational and transgenerational epigenetic inheritance in animals. Nature Cell Biology, 2019, 21, 143-151.	4.6	365
336	Genotype and Phenotype. , 2019, , 237-279.		0
337	Germline and Transgenerational Impacts of Toxicant Exposures. , 2019, , 251-263.		1
338	Plant RNases T2, but not Dicer-like proteins, are major players of tRNA-derived fragments biogenesis. Nucleic Acids Research, 2019, 47, 941-952.	6.5	517
339	Sperm Epigenome in Obesity. , 2019, , 727-744.		1
340	Inter- and transgenerational inheritance of behavioral phenotypes. Current Opinion in Behavioral Sciences, 2019, 25, 96-101.	2.0	11
341	Translation regulation in skin cancer from a tRNA point of view. Epigenomics, 2019, 11, 215-245.	1.0	25
342	Hypoxiaâ€induced tRNAâ€derived fragments, novel regulatory factor for doxorubicin resistance in tripleâ€negative breast cancer. Journal of Cellular Physiology, 2019, 234, 8740-8751.	2.0	65
343	Expression profiles and characteristics of human lncRNA in normal and asthenozoospermia spermâ€. Biology of Reproduction, 2019, 100, 982-993.	1.2	50
344	The Epigenetic System of Inheritance. , 2019, , 215-258.		0
345	Effects of Aging on Sperm Chromatin. , 2019, , 85-103.		1
346	The Intergenerational Effects on Fetal Programming. , 2019, , 361-379.		1
347	Driving the Next Generation: Paternal Lifetime Experiences Transmitted via Extracellular Vesicles and Their Small RNA Cargo. Biological Psychiatry, 2019, 85, 164-171.	0.7	56

#	Article	IF	Citations
348	Epigenetically facilitated mutational assimilation: epigenetics as a hub within the inclusive evolutionary synthesis. Biological Reviews, 2019, 94, 259-282.	4.7	75
349	Linking diabetic vascular complications with LncRNAs. Vascular Pharmacology, 2019, 114, 139-144.	1.0	31
350	Adaptation to environmental stress at different timescales. Annals of the New York Academy of Sciences, 2020, 1476, 5-22.	1.8	75
351	Alterations in sperm long RNA contribute to the epigenetic inheritance of the effects of postnatal trauma. Molecular Psychiatry, 2020, 25, 2162-2174.	4.1	130
352	Molecular mechanisms of epigenetic inheritance: Possible evolutionary implications. Seminars in Cell and Developmental Biology, 2020, 97, 106-115.	2.3	61
353	Paternal inheritance of diet induced metabolic traits correlates with germline regulation of diet induced coding gene expression. Genomics, 2020, 112, 567-573.	1.3	12
354	Inferring targeting modes of Argonaute-loaded tRNA fragments. RNA Biology, 2020, 17, 1070-1080.	1.5	44
355	Human chromatin remodeler cofactor, RNA interactor, eraser and writer sperm RNAs responding to obesity. Epigenetics, 2020, 15, 32-46.	1.3	15
356	The influence of seminal plasma on offspring development and health. Seminars in Cell and Developmental Biology, 2020, 97, 131-137.	2.3	53
357	tiRNAs: A novel class of small noncoding RNAs that helps cells respond to stressors and plays roles in cancer progression. Journal of Cellular Physiology, 2020, 235, 683-690.	2.0	50
358	From epigenotype to new genotypes: Relevance of epigenetic mechanisms in the emergence of genomic evolutionary novelty. Seminars in Cell and Developmental Biology, 2020, 97, 86-92.	2.3	14
359	Sperm RNA: Quo vadis?. Seminars in Cell and Developmental Biology, 2020, 97, 123-130.	2.3	25
360	Germ cell-mediated mechanisms of epigenetic inheritance. Seminars in Cell and Developmental Biology, 2020, 97, 116-122.	2.3	25
361	Interplay between paternal germline and maternal effects in shaping development: The overlooked importance of behavioural ecology. Functional Ecology, 2020, 34, 401-413.	1.7	16
362	The preconception environment and sperm epigenetics. Andrology, 2020, 8, 924-942.	1.9	85
363	Disentangling sRNA-Seq data to study RNA communication between species. Nucleic Acids Research, 2020, 48, e21-e21.	6.5	8
364	Diet-Induced Modification of the Sperm Epigenome Programs Metabolism and Behavior. Trends in Endocrinology and Metabolism, 2020, 31, 131-149.	3.1	38
365	Early life lessons: The lasting effects of germline epigenetic information on organismal development. Molecular Metabolism, 2020, 38, 100924.	3.0	22

#	Article	IF	Citations
366	Effects of Paternal Preconception Vapor Alcohol Exposure Paradigms on Behavioral Responses in Offspring. Brain Sciences, 2020, 10, 658.	1.1	9
367	The DNA methylome of human sperm is distinct from blood with little evidence for tissue-consistent obesity associations. PLoS Genetics, 2020, 16, e1009035.	1.5	13
368	Paternal systemic inflammation induces offspring programming of growth and liver regeneration in association with Igf2 upregulation. Molecular and Cellular Endocrinology, 2020, 518, 111001.	1.6	8
369	Paternal programming of offspring health. Early Human Development, 2020, 150, 105185.	0.8	16
370	Transfer RNA-Derived Small RNAs: Another Layer of Gene Regulation and Novel Targets for Disease Therapeutics. Molecular Therapy, 2020, 28, 2340-2357.	3.7	57
371	Sperm histone H3 lysine 4 trimethylation is altered in a genetic mouse model of transgenerational epigenetic inheritance. Nucleic Acids Research, 2020, 48, 11380-11393.	6.5	65
372	Can we blame fathers who are obese peri-conception, for increasing chronic disease risk in children?. Obesity Research and Clinical Practice, 2020, 14, 195-196.	0.8	0
373	Transfer RNA-derived small RNAs: potential applications as novel biomarkers for disease diagnosis and prognosis. Annals of Translational Medicine, 2020, 8, 1092-1092.	0.7	38
374	tRNA-Derived Small RNAs and Their Potential Roles in Cardiac Hypertrophy. Frontiers in Pharmacology, 2020, 11, 572941.	1.6	32
375	Understanding 'Non-genetic' Inheritance: Insights from Molecular-Evolutionary Crosstalk. Trends in Ecology and Evolution, 2020, 35, 1078-1089.	4.2	83
376	Current mechanistic perspectives on male reproductive toxicity induced by heavy metals. Journal of Environmental Science and Health, Part C: Toxicology and Carcinogenesis, 2020, 38, 204-244.	0.4	25
377	Diet and Transgenerational Epigenetic Inheritance of Breast Cancer: The Role of the Paternal Germline. Frontiers in Nutrition, 2020, 7, 93.	1.6	16
378	Brain and placental transcriptional responses as a readout of maternal and paternal preconception stress are fetal sex specific. Placenta, 2020, 100, 164-170.	0.7	14
379	Quantification of tRNA fragments by electrochemical direct detection in small volume biofluid samples. Scientific Reports, 2020, 10, 7516.	1.6	12
380	Roles of Noncoding RNAs in Islet Biology. , 2020, 10, 893-932.		7
381	Sperm miRNAsâ€" potential mediators of bull age and early embryo development. BMC Genomics, 2020, 21, 798.	1.2	24
382	The abundance of a transfer RNA-derived RNA fragment small RNA subpopulation is enriched in cauda spermatozoa. ExRNA, 2020, 2, .	1.0	5
383	Transfer-RNA-Derived Fragments Are Potential Prognostic Factors in Patients with Squamous Cell Carcinoma of the Head and Neck. Genes, 2020, 11, 1344.	1.0	16

#	Article	IF	Citations
384	Gestational arsenic exposure and paternal intergenerational epigenetic inheritance. Toxicology and Applied Pharmacology, 2020, 409, 115319.	1.3	10
385	Mapping the past, present and future research landscape of paternal effects. BMC Biology, 2020, 18, 183.	1.7	20
386	Germ Granules Allow Transmission of Small RNA-Based Parental Responses in the â€œGerm Plasmâ€• IScience, 2020, 23, 101831.	1.9	19
387	Aging Induces Profound Changes in sncRNA in Rat Sperm and These Changes Are Modified by Perinatal Exposure to Environmental Flame Retardant. International Journal of Molecular Sciences, 2020, 21, 8252.	1.8	13
388	A tRNA-derived fragment (tRF-3001b) aggravates the development of nonalcoholic fatty liver disease by inhibiting autophagy. Life Sciences, 2020, 257, 118125.	2.0	20
389	Identification of tRNA-derived fragments and their potential roles in diabetic cataract rats. Epigenomics, 2020, 12, 1405-1418.	1.0	13
390	Nutri-Epigenetics and Gut Microbiota: How Birth Care, Bonding and Breastfeeding Can Influence and Be Influenced?. International Journal of Molecular Sciences, 2020, 21, 5032.	1.8	15
391	The Relationship between Sperm Oxidative Stress Alterations and IVF/ICSI Outcomes: A Systematic Review from Nonhuman Mammals. Biology, 2020, 9, 178.	1.3	23
392	Transgenerational epigenetic reprogramming of early embryos: a mechanistic model. Environmental Epigenetics, 2020, 6, dvaa009.	0.9	14
393	The Role of the Epididymis and the Contribution of Epididymosomes to Mammalian Reproduction. International Journal of Molecular Sciences, 2020, 21, 5377.	1.8	123
394	Environmental Impact on Male (In)Fertility via Epigenetic Route. Journal of Clinical Medicine, 2020, 9, 2520.	1.0	35
395	Parental Effects on Epigenetic Programming in Gametes and Embryos of Dairy Cows. Frontiers in Genetics, 2020, 11, 557846.	1.1	15
396	Small RNA modifications in Alzheimer's disease. Neurobiology of Disease, 2020, 145, 105058.	2.1	40
397	Repeated sampling facilitates within- and between-subject modeling of the human sperm transcriptome to identify dynamic and stress-responsive sncRNAs. Scientific Reports, 2020, 10, 17498.	1.6	16
398	Paternal bisphenol A exposure in mice impairs glucose tolerance in female offspring. Food and Chemical Toxicology, 2020, 145, 111716.	1.8	12
399	Evidence for germline non-genetic inheritance of human phenotypes and diseases. Clinical Epigenetics, 2020, 12, 136.	1.8	32
400	Noncanonical Roles of tRNAs: tRNA Fragments and Beyond. Annual Review of Genetics, 2020, 54, 47-69.	3.2	126
401	PIWIL1 promotes gastric cancer via a piRNA-independent mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22390-22401.	3.3	48

#	Article	IF	Citations
402	A novel tsRNA-16902 regulating the adipogenic differentiation of human bone marrow mesenchymal stem cells. Stem Cell Research and Therapy, 2020, 11, 365.	2.4	12
403	Profiling of miRNAs in porcine Sertoli cells. Journal of Animal Science and Biotechnology, 2020, 11, 85.	2.1	8
404	Effects of maternal and paternal exercise on offspring metabolism. Nature Metabolism, 2020, 2, 858-872.	5.1	59
405	Small RNA sequencing reveals a novel tsRNAâ€06018 playing an important role during adipogenic differentiation of hMSCs. Journal of Cellular and Molecular Medicine, 2020, 24, 12736-12749.	1.6	12
406	On the expanding roles of tRNA fragments in modulating cell behavior. Nucleic Acids Research, 2020, 48, 9433-9448.	6.5	107
407	Oxidative Stress in Reproduction: A Mitochondrial Perspective. Biology, 2020, 9, 269.	1.3	36
408	What Is Lost in the Weismann Barrier?. Journal of Developmental Biology, 2020, 8, 35.	0.9	14
409	Metabolic diseases affect male reproduction and induce signatures in gametes that may compromise the offspring health. Environmental Epigenetics, 2020, 6, dvaa019.	0.9	10
410	Global identification and characterization of tRNA-derived RNA fragment landscapes across human cancers. NAR Cancer, 2020, 2, zcaa031.	1.6	18
411	Different classes of small RNAs are essential for head regeneration in the planarian Dugesia japonica. BMC Genomics, 2020, 21, 876.	1.2	6
412	Mimulus sRNAs Are Wound Responsive and Associated with Transgenerationally Plastic Genes but Rarely Both. International Journal of Molecular Sciences, 2020, 21, 7552.	1.8	5
413	Pervasive Small RNAs in Cardiometabolic Research: Great Potential Accompanied by Biological and Technical Barriers. Diabetes, 2020, 69, 813-822.	0.3	3
414	Male reproductive health and intergenerational metabolic responses from a small RNA perspective. Journal of Internal Medicine, 2020, 288, 305-320.	2.7	29
415	Paternal restraint stress affects offspring metabolism via ATF-2 dependent mechanisms in Drosophila melanogaster germ cells. Communications Biology, 2020, 3, 208.	2.0	16
416	The mechanisms in the altered ontogenetic development and lung-related pathology in microcystin-leucine arginine (MC-LR)-paternal-exposed offspring mice. Science of the Total Environment, 2020, 736, 139678.	3.9	14
417	A Twist between ROS and Sperm-Mediated Intergenerational Epigenetic Inheritance. Molecular Cell, 2020, 78, 371-373.	4.5	12
418	Paternal effects in a wildâ€type zebrafish implicate a role of spermâ€derived small RNAs. Molecular Ecology, 2020, 29, 2722-2735.	2.0	24
419	Genetic control of non-genetic inheritance in mammals: state-of-the-art and perspectives. Mammalian Genome, 2020, 31, 146-156.	1.0	4

#	Article	IF	Citations
420	Early cleavage of preimplantation embryos is regulated by tRNAGln-TTGâ€“derived small RNAs present in mature spermatozoa. Journal of Biological Chemistry, 2020, 295, 10885-10900.	1.6	33
421	Critical period regulation across multiple timescales. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23242-23251.	3.3	250
422	NRF2 loss recapitulates heritable impacts of paternal cigarette smoke exposure. PLoS Genetics, 2020, 16, e1008756.	1.5	11
423	Normalized retention time for scheduled liquid chromatography-multistage mass spectrometry analysis of epitranscriptomic modifications. Journal of Chromatography A, 2020, 1623, 461181.	1.8	4
424	Angiogenin and tRNA fragments in Parkinsonâ€™s disease and neurodegeneration. Acta Pharmacologica Sinica, 2020, 41, 442-446.	2.8	39
425	Emerging roles of novel small non-coding regulatory RNAs in immunity and cancer. RNA Biology, 2020, 17, 1196-1213.	1.5	24
426	ATF7-Dependent Epigenetic Changes Are Required for the Intergenerational Effect of a Paternal Low-Protein Diet. Molecular Cell, 2020, 78, 445-458.e6.	4.5	52
427	Association of preconception paternal health on perinatal outcomes: analysis of U.S. claims data. Fertility and Sterility, 2020, 113, 947-954.	0.5	31
428	Dynamic Signatures of the Epigenome: Friend or Foe?. Cells, 2020, 9, 653.	1.8	17
429	5â€² tRNA halves are highly expressed in the primate hippocampus and might sequence-specifically regulate gene expression. Rna, 2020, 26, 694-707.	1.6	32
430	Characterization of serum small extracellular vesicles and their small RNA contents across humans, rats, and mice. Scientific Reports, 2020, 10, 4197.	1.6	31
431	Production and purification of endogenously modified tRNA-derived small RNAs. RNA Biology, 2020, 17, 1104-1115.	1.5	29
432	Germline epigenetic inheritance: Challenges and opportunities for linking human paternal experience with offspring biology and health. Evolutionary Anthropology, 2020, 29, 180-200.	1.7	13
433	Noncoding RNA: from dark matter to bright star. Science China Life Sciences, 2020, 63, 463-468.	2.3	32
434	Reproductive tract extracellular vesicles are sufficient to transmit intergenerational stress and program neurodevelopment. Nature Communications, 2020, 11, 1499.	5.8	125
435	Histone Post-Translational Modifications and CircRNAs in Mouse and Human Spermatozoa: Potential Epigenetic Marks to Assess Human Sperm Quality. Journal of Clinical Medicine, 2020, 9, 640.	1.0	37
436	Epitranscriptomic 5-Methylcytosine Profile in PM2.5-induced Mouse Pulmonary Fibrosis. Genomics, Proteomics and Bioinformatics, 2020, 18, 41-51.	3.0	41
437	Action mechanisms and research methods of tRNA-derived small RNAs. Signal Transduction and Targeted Therapy, 2020, 5, 109.	7.1	123

#	Article	IF	Citations
438	Frequent and mild scrotal heat stress in mice epigenetically alters glucose metabolism in the male offspring. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E291-E304.	1.8	12
439	OncotRF: an online resource for exploration of tRNA-derived fragments in human cancers. RNA Biology, 2020, 17, 1081-1091.	1.5	39
440	Processing by RNase 1 forms tRNA halves and distinct Y RNA fragments in the extracellular environment. Nucleic Acids Research, 2020, 48, 8035-8049.	6.5	41
441	MicroRNA expression profile in extracellular vesicles derived from ALV-J infected chicken semen. Virus Research, 2020, 286, 198083.	1.1	5
442	Current understanding of the role of Adipose-derived Extracellular Vesicles in Metabolic Homeostasis and Diseases: Communication from the distance between cells/tissues. Theranostics, 2020, 10, 7422-7435.	4.6	60
444	Reproductive Consequences of Obesity. , 2020, , .		1
445	Novel insights into the emerging roles of tRNA-derived fragments in mammalian development. RNA Biology, 2020, 17, 1214-1222.	1.5	47
446	Human sperm RNA code senses dietary sugar. Nature Reviews Endocrinology, 2020, 16, 200-201.	4.3	9
447	Physicochemical Foundations of Life that Direct Evolution: Chance and Natural Selection are not Evolutionary Driving Forces. Life, 2020, 10, 7.	1.1	14
448	Insights into the roles of sperm in animal cloning. Stem Cell Research and Therapy, 2020, 11, 65.	2.4	14
449	Extracellular tRNAs and tRNA-derived fragments. RNA Biology, 2020, 17, 1149-1167.	1.5	52
450	Impairment of spermatogenesis and sperm motility by the high-fat diet-induced dysbiosis of gut microbes. Gut, 2020, 69, 1608-1619.	6.1	142
451	Comprehensive profiling of Small RNAs in human embryo-conditioned culture media by improved sequencing and quantitative PCR methods. Systems Biology in Reproductive Medicine, 2020, 66, 129-139.	1.0	16
453	tRNA-derived fragments and microRNAs in the maternal-fetal interface of a mouse maternal-immune-activation autism model. RNA Biology, 2020, 17, 1183-1195.	1.5	30
454	Gender-specific siblings and women with maternal history of diabetes are at high risk of developing type2 diabetes-a family study from South India. International Journal of Diabetes in Developing Countries, 2020, 40, 384-389.	0.3	0
455	Epigenetic changes during ageing and their underlying mechanisms. Biogerontology, 2020, 21, 423-443.	2.0	15
456	You are affected by what your parents eat: Diet, epigenetics, transgeneration and intergeneration. Trends in Food Science and Technology, 2020, 100, 248-261.	7.8	18
457	Nutrition and its role in epigenetic inheritance of obesity and diabetes across generations. Mammalian Genome, 2020, 31, 119-133.	1.0	39

#	Article	IF	Citations
458	The role of epigenetics in the development of obesity. Biochemical Pharmacology, 2020, 177, 113973.	2.0	30
459	Genes and Diet in the Prevention of Chronic Diseases in Future Generations. International Journal of Molecular Sciences, 2020, 21, 2633.	1.8	59
460	Increasing associations between defects in phospholipase C zeta and conditions of male infertility: not just ICSI failure?. Journal of Assisted Reproduction and Genetics, 2020, 37, 1273-1293.	1.2	20
461	Conservation and Divergence in the Meiocyte sRNAomes of Arabidopsis, Soybean, and Cucumber. Plant Physiology, 2020, 182, 301-317.	2.3	13
462	A comprehensive overview of bull sperm-borne small non-coding RNAs and their diversity across breeds. Epigenetics and Chromatin, 2020, 13, 19.	1.8	31
463	Paternal Subclinical Hypothyroidism Affects the Clinical Outcomes ofIn VitroFertilization/Intracytoplasmic Sperm Injection. Thyroid, 2021, 31, 12-22.	2.4	8
464	Paternal origins of obesity: Emerging evidence for incorporating epigenetic pathways into the social determinants of health framework. Social Science and Medicine, 2021, 271, 112066.	1.8	17
465	tsRBase: a comprehensive database for expression and function of tsRNAs in multiple species. Nucleic Acids Research, 2021, 49, D1038-D1045.	6.5	32
466	TET2 chemically modifies tRNAs and regulates tRNA fragment levels. Nature Structural and Molecular Biology, 2021, 28, 62-70.	3.6	42
467	Mucosal immunity and tRNA, tRF, and tiRNA. Journal of Molecular Medicine, 2021, 99, 47-56.	1.7	12
468	Aging of male and female gametes. , 2021, , 253-267.		0
469	Impact of Parental Exposure on Offspring Health in Humans. Trends in Genetics, 2021, 37, 373-388.	2.9	50
470	tRNA-Derived Fragments in Alzheimerâ€™s Disease: Implications for New Disease Biomarkers and Neuropathological Mechanisms. Journal of Alzheimer's Disease, 2021, 79, 793-806.	1.2	49
471	tRNA-derived fragments tRFGlnCTG induced by arterial injury promote vascular smooth muscle cell proliferation. Molecular Therapy - Nucleic Acids, 2021, 23, 603-613.	2.3	15
472	Transfer RNAs: diversity in form and function. RNA Biology, 2021, 18, 316-339.	1.5	44
473	Environmental impacts on sperm and oocyte epigenetics affect embryo cell epigenetics and transcription to promote the epigenetic inheritance of pathology and phenotypic variation. Reproduction, Fertility and Development, 2021, 33, 102.	0.1	2
474	A genome-wide transcriptomic analysis of embryos fathered by obese males in a murine model of diet-induced obesity. Scientific Reports, 2021, 11, 1979.	1.6	6
475	Contribution of epididymal epithelial cell functions to sperm epigenetic changes and the health of progeny. Human Reproduction Update, 2021, 28, 51-66.	5.2	23

#	Article	IF	Citations
476	Reproductive disease epigenetics. , 2021, , 309-346.		0
477	tsRNAs: Novel small molecules from cell function and regulatory mechanism to therapeutic targets. Cell Proliferation, 2021, 54, e12977.	2.4	59
478	Principles of epigenetics and DNA methylation. , 2021, , 3-26.		0
479	tRNA Biology in the Pathogenesis of Diabetes: Role of Genetic and Environmental Factors. International Journal of Molecular Sciences, 2021, 22, 496.	1.8	9
481	Maintenance and change of phenotype: Inheritance of acquired traits. , 2021, , 201-261.		0
482	tRNA-derived fragments as New Hallmarks of Aging and Age-related Diseases. , 2021, 12, 1304.		13
483	All you need to know about sperm RNAs. Human Reproduction Update, 2021, 28, 67-91.	5.2	39
484	Epigenetic and Developmental Basis of Risk of Obesity and Metabolic Disease. , 2021, , 289-313.		2
485	Prenatal androgen exposure causes a sexually dimorphic transgenerational increase in offspring susceptibility to anxiety disorders. Translational Psychiatry, 2021, 11, 45.	2.4	22
486	Chromatin remodeling of the male genome during spermiogenesis and embryo development. , 2021, , 47-67.		3
487	Epigenetic reprogramming in the embryo. , 2021, , 97-116.		0
488	Transgenerational epigenetics and psychiatric disorders. , 2021, , 761-782.		0
489	Molecular mechanisms of Î²-cell dysfunction and death in monogenic forms of diabetes. International Review of Cell and Molecular Biology, 2021, 359, 139-256.	1.6	7
490	Sperm microRNAs confer depression susceptibility to offspring. Science Advances, 2021, 7, .	4.7	53
492	Extracellular vesicle cargo of the male reproductive tract and the paternal preconception environment. Systems Biology in Reproductive Medicine, 2021, 67, 103-111.	1.0	13
493	5â€²-tRF-GlyGCC: a tRNA-derived small RNA as a novel biomarker for colorectal cancer diagnosis. Genome Medicine, 2021, 13, 20.	3.6	60
494	Aberrant Expression of microRNA Clusters in Head and Neck Cancer Development and Progression: Current and Future Translational Impacts. Pharmaceuticals, 2021, 14, 194.	1.7	3
495	Interâ€•and Transgenerational Effects of Paternal Exposure to Inorganic Arsenic. Advanced Science, 2021, 8, 2002715.	5.6	20

#	Article	IF	Citations
496	Extensive profiling of the expressions of tRNAs and tRNA-derived fragments (tRFs) reveals the complexities of tRNA and tRF populations in plants. Science China Life Sciences, 2021, 64, 495-511.	2.3	23
497	Exogenous Coronavirus Interacts With Endogenous Retrotransposon in Human Cells. Frontiers in Cellular and Infection Microbiology, 2021, 11, 609160.	1.8	32
498	Single-molecule long-read sequencing reveals a conserved intact long RNA profile in sperm. Nature Communications, 2021, 12, 1361.	5.8	43
499	The Epigenetics of Gametes and Early Embryos and Potential Long-Range Consequences in Livestock Speciesâ€"Filling in the Picture With Epigenomic Analyses. Frontiers in Genetics, 2021, 12, 557934.	1.1	22
500	Histone H3 lysine 4 trimethylation in sperm is transmitted to the embryo and associated with diet-induced phenotypes in the offspring. Developmental Cell, 2021, 56, 671-686.e6.	3.1	70
501	Paternal multigenerational exposure to an obesogenic diet drives epigenetic predisposition to metabolic diseases in mice. ELife, 2021, 10, .	2.8	24
502	Levels of seminal tRNA-derived fragments from normozoospermic men correlate with the success rate of ART. Molecular Human Reproduction, 2021, 27, .	1.3	7
504	Both murine and human sperm contain intact large RNAs. Biology of Reproduction, 2021, 104, 1184-1186.	1.2	0
505	Stress resets ancestral heritable small RNA responses. ELife, 2021, 10, .	2.8	60
506	Low expression of tRFâ€Proâ€CGG predicts poor prognosis in pancreatic ductal adenocarcinoma. Journal of Clinical Laboratory Analysis, 2021, 35, e23742.	0.9	14
507	Sperm-borne small RNAs improve the developmental competence of pre-implantation cloned embryos in rabbit. Zygote, 2021, 29, 331-336.	0.5	9
509	How does epigenetics influence the course of evolution?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200111.	1.8	73
510	Epigenetic regulations in mammalian spermatogenesis: RNA-m6A modification and beyond. Cellular and Molecular Life Sciences, 2021, 78, 4893-4905.	2.4	31
511	Systemic alterations play a dominant role in epigenetic predisposition to breast cancer in offspring of obese fathers and is transmitted to a second generation. Scientific Reports, 2021, 11, 7317.	1.6	2
512	Dnmt2-null sperm block maternal transmission of a paramutant phenotypeâ€. Biology of Reproduction, 2021, 105, 603-612.	1.2	5
513	Challenging dogmas: How transgenerational epigenetics reshapes our views on life. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2022, 337, 70-74.	0.9	4
514	Epigenetic transgenerational inheritance, gametogenesis and germline developmentâ€. Biology of Reproduction, 2021, 105, 570-592.	1.2	32
515	Small RNAs and chromatin in the multigenerational epigenetic landscape ofCaenorhabditis elegans. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20200112.	1.8	29

#	Article	IF	Citations
517	PANDORA-seq expands the repertoire of regulatory small RNAs by overcoming RNA modifications. Nature Cell Biology, 2021, 23, 424-436.	4.6	115
518	Transfer- or â€˜transmissionâ€™-RNA fragments? The roles of tsRNAs in the reproductive system. Molecular Human Reproduction, 2021, 27, .	1.3	7
519	Toward an Understanding of Extracellular tRNA Biology. Frontiers in Molecular Biosciences, 2021, 8, 662620.	1.6	15
520	Opposing Epigenetic Signatures in Human Sperm by Intake of Fast Food Versus Healthy Food. Frontiers in Endocrinology, 2021, 12, 625204.	1.5	14
521	Small noncoding RNA profiling across cellular and biofluid compartments and their implications for multiple sclerosis immunopathology. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
522	The occurrence order and cross-talk of different tRNA modifications. Science China Life Sciences, 2021, 64, 1423-1436.	2.3	17
523	Emerging Classes of Small Non-Coding RNAs With Potential Implications in Diabetes and Associated Metabolic Disorders. Frontiers in Endocrinology, 2021, 12, 670719.	1.5	8
524	Paternal High-Protein Diet Programs Offspring Insulin Sensitivity in a Sex-Specific Manner. Biomolecules, 2021, 11, 751.	1.8	7
526	Parental energy-sensing pathways control intergenerational offspring sex determination in the nematode Auanema freiburgensis. BMC Biology, 2021, 19, 102.	1.7	9
527	Inheritable testicular metabolic memory of high-fat diet causes transgenerational sperm defects in mice. Scientific Reports, 2021, 11, 9444.	1.6	20
528	The role of non-genetic information in evolutionary frameworks. Critical Reviews in Biochemistry and Molecular Biology, 2021, 56, 255-283.	2.3	5
529	MicroRNAs and tRNA-Derived Small Fragments: Key Messengers in Nuclearâ€“Mitochondrial Communication. Frontiers in Molecular Biosciences, 2021, 8, 643575.	1.6	16
530	Novel insights into the roles of tRNA-derived small RNAs. RNA Biology, 2021, 18, 2157-2167.	1.5	24
531	Screening and potential role of tRFs and tiRNAs derived from tRNAs in the carcinogenesis and development of lung adenocarcinoma. Oncology Letters, 2021, 22, 506.	0.8	9
532	Dynamics of cattle sperm sncRNAs during maturation, from testis to ejaculated sperm. Epigenetics and Chromatin, 2021, 14, 24.	1.8	21
533	Birthweight associations with parental obesity: retrospective analysis of 1,778 singleton term births following assisted reproductive treatment. F&S Reports, 2021, 2, 405-412.	0.4	4
534	Early-Life Exposure to Environmental Contaminants Perturbs the Sperm Epigenome and Induces Negative Pregnancy Outcomes for Three Generations via the Paternal Lineage. Epigenomes, 2021, 5, 10.	0.8	13
535	Expression of obesity-related genes in human spermatozoa affects the outcomes of reproductive treatments. F&S Science, 2021, 2, 164-175.	0.5	4

#	Article	IF	Citations
536	Transfer RNA Fragments in the Kidney in Hypertension. Hypertension, 2021, 77, 1627-1637.	1.3	3
537	Cannabis and synaptic reprogramming of the developing brain. Nature Reviews Neuroscience, 2021, 22, 423-438.	4.9	88
538	Metabolic syndrome and male fertility disorders: Is there a causal link?. Reviews in Endocrine and Metabolic Disorders, 2021, , 1.	2.6	3
539	Transfer RNA-derived small RNA: A rising star in oncology. Seminars in Cancer Biology, 2021, 75, 29-37.	4.3	26
541	The Contribution of Epigenetic Inheritance Processes on Age-Related Cognitive Decline and Alzheimerâ€™s Disease. Epigenomes, 2021, 5, 15.	0.8	12
542	Advances in sperm analysis: techniques, discoveries and applications. Nature Reviews Urology, 2021, 18, 447-467.	1.9	29
543	Menâ€™s dietary patterns in relation to infertility treatment outcomes among couples undergoing in vitro fertilization. Journal of Assisted Reproduction and Genetics, 2021, 38, 2307-2318.	1.2	5
544	Effects of noninherited ancestral genotypes on offspring phenotypesâ€. Biology of Reproduction, 2021, 105, 747-760.	1.2	4
545	Defective folate metabolism causes germline epigenetic instability and distinguishes Hira as a phenotype inheritance biomarker. Nature Communications, 2021, 12, 3714.	5.8	12
546	Hypoxia-induced alteration of RNA modifications in the mouse testis and sperm. Biology of Reproduction, 2021, 105, 1171-1178.	1.2	8
548	Epigenetic inheritance of polycystic ovary syndrome â€" challenges and opportunities for treatment. Nature Reviews Endocrinology, 2021, 17, 521-533.	4.3	72
549	Plant transfer RNAâ€derived fragments: Biogenesis and functions. Journal of Integrative Plant Biology, 2021, 63, 1399-1409.	4.1	16
550	Interspecies RNA Interactome of Pathogen and Host in a Heritable Defensive Strategy. Frontiers in Microbiology, 2021, 12, 649858.	1.5	1
551	Transfer RNA and Origins of RNA Interference. Frontiers in Molecular Biosciences, 2021, 8, 708984.	1.6	3
552	The â€œmissing heritabilityâ€â€"Problem in psychiatry: Is the interaction of genetics, epigenetics and transposable elements a potential solution?. Neuroscience and Biobehavioral Reviews, 2021, 126, 23-42.	2.9	11
553	Germ Cell Drivers: Transmission of Preconception Stress Across Generations. Frontiers in Human Neuroscience, 2021, 15, 642762.	1.0	11
554	tRNA derived fragment (tRF)-3009 participates in modulation of IFN-Î±-induced CD4+ T cell oxidative phosphorylation in lupus patients. Journal of Translational Medicine, 2021, 19, 305.	1.8	12
555	tRNA-derived fragment tRFLys-CTT-010 promotes triple-negative breast cancer progression by regulating glucose metabolism via G6PC. Carcinogenesis, 2021, 42, 1196-1207.	1.3	21

#	Article	IF	Citations
556	A mechanism of inheritance of acquired traits in animals. Developmental Biology, 2021, 475, 106-117.	0.9	4
557	Diabetic Uterine Environment Leads to Disorders in Metabolism of Offspring. Frontiers in Cell and Developmental Biology, 2021, 9, 706879.	1.8	4
558	Single paternal dexamethasone challenge programs offspring metabolism and reveals multiple candidates in RNA-mediated inheritance. IScience, 2021, 24, 102870.	1.9	20
559	Exposures during the prepuberty period and future offspringâ€™s health: evidence from human cohort studiesâ€. Biology of Reproduction, 2021, 105, 667-680.	1.2	9
560	Differential Expression Profiles and Function Predictions for tRFs & tiRNAs in Skin Injury Induced by Ultraviolet Irradiation. Frontiers in Cell and Developmental Biology, 2021, 9, 707572.	1.8	14
562	Altered sperm tsRNAs in aged male contribute to anxietyâ€like behavior in offspring. Aging Cell, 2021, 20, e13466.	3.0	20
563	Consequences of Paternal Nutrition on Offspring Health and Disease. Nutrients, 2021, 13, 2818.	1.7	30
564	Paternal high protein diet modulates body composition, insulin sensitivity, epigenetics, and gut microbiota intergenerationally in rats. FASEB Journal, 2021, 35, e21847.	0.2	13
565	The memory of neuronal mitochondrial stress is inherited transgenerationally via elevated mitochondrial DNA levels. Nature Cell Biology, 2021, 23, 870-880.	4.6	53
566	Of â€˜junk foodâ€™ and â€˜brain foodâ€™: how parental diet influences offspring neurobiology and behaviour. Trends in Endocrinology and Metabolism, 2021, 32, 566-578.	3.1	21
567	Multigenerational epigenetic inheritance: Transmitting information across generations. Seminars in Cell and Developmental Biology, 2022, 127, 121-132.	2.3	32
568	Global view of dynamic expression and precise mapping of mitochondrial tRNAs-derived fragments during stressed conditions in S. pombe. Mitochondrion, 2021, 60, 219-227.	1.6	3
569	Sure, Fathers Give Birth, Too!. Molecules and Cells, 2021, 44, 696-698.	1.0	3
571	Identification of transfer RNA-derived fragments and their potential roles in aortic dissection. Genomics, 2021, 113, 3039-3049.	1.3	18
573	Structure of human cytomegalovirus virion reveals host tRNA binding to capsid-associated tegument protein pp150. Nature Communications, 2021, 12, 5513.	5.8	13
574	tRNA-derived RNA fragments in the exosomes of bovine milk and colostrum. Journal of Food Composition and Analysis, 2021, 102, 103948.	1.9	1
575	Expression of tiRNA and tRF in APP/PS1 transgenic mice and the change of related proteins expression. Annals of Translational Medicine, 2021, 9, 1457-1457.	0.7	8
576	Paternal environmental exposure-induced spermatozoal small noncoding RNA alteration meditates the intergenerational epigenetic inheritance of multiple diseases. Frontiers of Medicine, 2022, 16, 176-184.	1.5	3

#	Article	IF	Citations
577	Profiling nonhuman primate germline RNA to understand the legacy of early life stress. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2022, 337, 15-23.	0.9	2
578	Soma-to-germline RNA communication. Nature Reviews Genetics, 2022, 23, 73-88.	7.7	29
582	Origins and evolving functionalities of tRNA-derived small RNAs. Trends in Biochemical Sciences, 2021, 46, 790-804.	3.7	81
583	tRNA-derived fragments: A new class of non-coding RNA with key roles in nervous system function and dysfunction. Progress in Neurobiology, 2021, 205, 102118.	2.8	28
584	Effects of paternal diet and antioxidant addition to the semen extender on bovine semen characteristics and on the phenotype of the resulting embryo. Theriogenology, 2021, 175, 23-33.	0.9	4
585	Regulatory roles of tRNA-derived RNA fragments in human pathophysiology. Molecular Therapy - Nucleic Acids, 2021, 26, 161-173.	2.3	38
586	Effects of glufosinate-ammonium on male reproductive health: Focus on epigenome and transcriptome in mouse sperm. Chemosphere, 2022, 287, 132395.	4.2	5
587	Genome-wide interrogation of transfer RNA-derived small RNAs in a mouse model of traumatic brain injury. Neural Regeneration Research, 2022, 17, 386.	1.6	8
588	From animal to human epigenetics. , 2021, , 27-58.		0
589	Epigenetic Mechanisms of Paternal Stress in Offspring Development and Diseases. International Journal of Genomics, 2021, 2021, 1-10.	0.8	14
590	tRNA-derived fragments (tRFs): establishing their turf in post-transcriptional gene regulation. Cellular and Molecular Life Sciences, 2021, 78, 2607-2619.	2.4	50
591	Global survey of miRNAs and tRNA-derived small RNAs from the human parasitic protist Trichomonas vaginalis. Parasites and Vectors, 2021, 14, 87.	1.0	9
592	Association of Testosterone-Related Dietary Pattern with Testicular Function among Adult Men: A Cross-Sectional Health Screening Study in Taiwan. Nutrients, 2021, 13, 259.	1.7	4
593	Epigenetics and the Impact of Early-Life Stress Across Generations. , 2021, , 297-307.		1
594	Precision medicine reaching out to the patients in allergology â€“ a German-Japanese workshop report. Allergologie Select, 2021, 5, 162-179.	1.6	1
595	Exposure to drugs of abuse induce effects that persist across generations. International Review of Neurobiology, 2021, 156, 217-277.	0.9	18
596	Comprehensive annotation and characterization of planarian tRNA and tRNA-derived fragments (tRFs). Rna, 2021, 27, 477-495.	1.6	11
597	Mitochondrial Reactive Oxygen Species (ROS) Production Alters Sperm Quality. Antioxidants, 2021, 10, 92.	2.2	70

#	Article	IF	Citations
598	The (not so) Controversial Role of DNA Methylation in Epigenetic Inheritance Across Generations. , 2020, , 175-208.		4
599	Developmental Origins of Health and Diseases (DOHaD): Perspective Toward Preemptive Medicine. Comprehensive Gynecology and Obstetrics, 2017, , 237-250.	0.0	3
600	Non-coding RNAs and Pathological Cardiac Hypertrophy. Advances in Experimental Medicine and Biology, 2020, 1229, 231-245.	0.8	7
601	Coincubation of sperm with epididymal extracellular vesicle preparations from chronic intermittent ethanol-treated mice is sufficient to impart anxiety-like and ethanol-induced behaviors to adult progeny. Alcohol, 2020, 87, 111-120.	0.8	17
602	Impact of nicotine, alcohol, and cocaine exposure on germline integrity and epigenome. Neuropharmacology, 2020, 173, 108127.	2.0	14
619	Proximate causes and consequences of intergenerational influences of salient sensory experience. Genes, Brain and Behavior, 2020, 19, e12638.	1.1	8
620	The Female Response to Seminal Fluid. Physiological Reviews, 2020, 100, 1077-1117.	13.1	98
621	Elevation of plasma tRNA fragments precedes seizures in human epilepsy. Journal of Clinical Investigation, 2019, 129, 2946-2951.	3.9	71
622	Dynamics of tRNA fragments and their targets in aging mammalian brain. F1000Research, 2016, 5, 2758.	0.8	46
623	Out of sight, out of mind? Germ cells and the potential impacts of epigenomic drugs. F1000Research, 2018, 7, 1967.	0.8	9
624	Tissue- and Time-Specific Expression of Otherwise Identical tRNA Genes. PLoS Genetics, 2016, 12, e1006264.	1.5	50
625	Dietary Intake Influences Adult Fertility and Offspring Fitness in Zebrafish. PLoS ONE, 2016, 11, e0166394.	1.1	17
626	Systematic identification and characterization of long non-coding RNAs in mouse mature sperm. PLoS ONE, 2017, 12, e0173402.	1.1	56
627	Paternal metabolic and cardiovascular programming of their offspring: A systematic scoping review. PLoS ONE, 2020, 15, e0244826.	1.1	39
628	A stressâ€induced tyrosineâ€tRNA depletion response mediates codonâ€based translational repression and growth suppression. EMBO Journal, 2021, 40, e106696.	3.5	25
629	DNA methylation in epigenetic inheritance of metabolic diseases through the male germ line. Journal of Molecular Endocrinology, 2018, 60, R39-R56.	1.1	47
630	Periconceptional environment and the developmental origins of disease. Journal of Endocrinology, 2019, 242, T33-T49.	1.2	46
631	The contribution of epididymosomes to the sperm small RNA profile. Reproduction, 2019, 157, R209-R223.	1.1	80

#	Article	IF	Citations
632	Ejaculate-mediated paternal effects: evidence, mechanisms and evolutionary implications. Reproduction, 2019, 157, R109-R126.	1.1	45
633	Low protein diet and methyl-donor supplements modify testicular physiology in mice. Reproduction, 2020, 159, 627-641.	1.1	7
634	Defining the male contribution to embryo quality and offspring health in assisted reproduction in farm animals. Animal Reproduction, 2020, 17, e20200018.	0.4	9
635	Mitochondria-related miR-574 reduces sperm ATP by targeting ND5 in aging males. Aging, 2020, 12, 8321-8338.	1.4	19
636	tRNA-Derived Small RNAs: The Good, the Bad and the Ugly. Med One, 2019, , .	1.5	3
637	Large Differences in Small RNA Composition Between Human Biofluids. SSRN Electronic Journal, 0, , .	0.4	1
638	Human Bacille Calmette-GuÃ©rin Vaccination Elicits Trained Immunity Via the Hematopoietic Progenitor Compartment. SSRN Electronic Journal, 0, , .	0.4	4
639	Hijacking tRNAs From Translation: Regulatory Functions of tRNAs in Mammalian Cell Physiology. Frontiers in Molecular Biosciences, 2020, 7, 610617.	1.6	35
640	Oxidation of Sperm Nucleus in Mammals: A Physiological Necessity to Some Extent with Adverse Impacts on Oocyte and Offspring. Antioxidants, 2020, 9, 95.	2.2	47
641	tRNA-Derived Small RNAs: Novel Epigenetic Regulators. Cancers, 2020, 12, 2773.	1.7	31
642	T Lymphocytes and Testicular Immunity: A New Insight into Immune Regulation in Testes. International Journal of Molecular Sciences, 2021, 22, 57.	1.8	28
643	Transgenerational inheritance of ethanol preference is caused by maternal NPF repression. ELife, 2019, 8, .	2.8	31
644	An atlas of cell types in the mouse epididymis and vas deferens. ELife, 2020, 9, .	2.8	51
645	Differences in small noncoding RNAs profile between bull X and Y sperm. PeerJ, 2020, 8, e9822.	0.9	4
646	THUMPD3â€“TRMT112 is a m2G methyltransferase working on a broad range of tRNA substrates. Nucleic Acids Research, 2021, 49, 11900-11919.	6.5	21
647	tsRFun: a comprehensive platform for decoding human tsRNA expression, functions and prognostic value by high-throughput small RNA-Seq and CLIP-Seq data. Nucleic Acids Research, 2022, 50, D421-D431.	6.5	26
648	Sperm-borne sncRNAs: potential biomarkers for semen fertility?. Reproduction, Fertility and Development, 2021, 34, 160-173.	0.1	6
649	Modifications of the human tRNA anticodon loop and their associations with genetic diseases. Cellular and Molecular Life Sciences, 2021, 78, 7087-7105.	2.4	15

#	Article	IF	Citations
651	A glimpse at the metabolic research in China. Cell Metabolism, 2021, 33, 2122-2125.	7.2	18
652	Paternal periconception metabolic health and offspring programming. Proceedings of the Nutrition Society, 2022, 81, 119-125.	0.4	0
653	The epitranscriptome of small non-coding RNAs. Non-coding RNA Research, 2021, 6, 167-173.	2.4	13
654	Integrated analysis of tRNA-derived small RNAs reveals new therapeutic genes of hyperbaric oxygen in diabetic foot ulcers. Epigenomics, 2021, 13, 1817-1829.	1.0	4
655	Intergenerational Costs of Oxidative Stress: Reduced Fitness in Daughters of Mothers That Experienced High Levels of Oxidative Damage during Reproduction. Physiological and Biochemical Zoology, 2022, 95, 1-14.	0.6	2
656	Small RNAs in epigenetic inheritance: from mechanisms to trait transmission. FEBS Letters, 2021, 595, 2953-2977.	1.3	25
657	Acrylamide modulates the mouse epididymal proteome to drive alterations in the sperm small non-coding RNA profile and dysregulate embryo development. Cell Reports, 2021, 37, 109787.	2.9	22
662	DNA Methylation in Eukaryotes: Regulation and Function. , 2017, , 1-62.		1
667	Paternal Programming and Multigenerational Transmission. , 2017, , 329-350.		0
669	Diet-Induced Epigenetic Modifications and Implications for Intestinal Diseases. , 2018, , 1-21.		0
679	Genomic innovation of ATD alleviates mistranslation associated with multicellularity in Animalia. ELife, 2020, 9, .	2.8	4
684	A 5â€² tRNA-Ala-derived small RNA regulates anti-fungal defense in plants. Science China Life Sciences, 2022, 65, 1-15.	2.3	24
685	Sperm epigenetic alterations contribute to inter- and transgenerational effects of paternal exposure to long-term psychological stress via evading offspring embryonic reprogramming. Cell Discovery, 2021, 7, 101.	3.1	26
687	Programming of Embryonic Development. International Journal of Molecular Sciences, 2021, 22, 11668.	1.8	15
690	Position 34 of tRNA is a discriminative element for m5C38 modification by human DNMT2. Nucleic Acids Research, 2021, 49, 13045-13061.	6.5	17
692	Small Non-Coding RNAs and Epigenetic Inheritance. , 2020, , 209-230.		1
693	Molecular Mechanism of Early-Life Chemical Exposure-Induced Harmful Effects. , 2020, , 217-227.		0
694	The Sperm Epigenome and Potential Implications for the Developing Embryo. , 2020, , 173-185.		0

#	Article	IF	Citations
695	Introduction to Epigenetic Inheritance: Definition, Mechanisms, Implications and Relevance. , 2020, , 159-173.		1
698	The Transgenerational Transmission of the Paternal Type 2 Diabetes-Induced Subfertility Phenotype. Frontiers in Endocrinology, 2021, 12, 763863.	1.5	4
702	Friend or Foe: Epigenetic Regulation of Retrotransposons in Mammalian Oogenesis and Early Development. Yale Journal of Biology and Medicine, 2016, 89, 487-497.	0.2	15
703	Emerging Functions of Circular RNAs. Yale Journal of Biology and Medicine, 2016, 89, 527-537.	0.2	173
704	Role of tRNA-derived fragments in cancer: novel diagnostic and therapeutic targets tRFs in cancer. American Journal of Cancer Research, 2020, 10, 393-402.	1.4	17
705	The parental contributions to early plant embryogenesis and the concept of maternal-to-zygotic transition in plants. Current Opinion in Plant Biology, 2022, 65, 102144.	3.5	5
706	The effect of epididymal sperm cryopreservation on neonatal birthweight following PESA-ICSI. Archives of Gynecology and Obstetrics, 2022, 305, 1233-1239.	0.8	2
707	Temporal and sequential order of nonoverlapping gene networks unraveled in mated female Drosophila. Life Science Alliance, 2022, 5, e202101119.	1.3	4
708	Roles of Extracellular Vesicles in Human Reproduction. Physiology, 0, , .	4.0	0
709	A Novel Serum tsRNA for Diagnosis and Prediction of Nephritis in SLE. Frontiers in Immunology, 2021, 12, 735105.	2.2	19
710	Angiogenin mediates paternal inflammation-induced metabolic disorders in offspring through sperm tsRNAs. Nature Communications, 2021, 12, 6673.	5.8	44
711	5â€² Half of specific tRNAs feeds back to promote corresponding tRNA gene transcription in vertebrate embryos. Science Advances, 2021, 7, eabh0494.	4.7	18
712	In utero exposure to endocrine-disrupting chemicals, maternal factors and alterations in the epigenetic landscape underlying later-life health effects. Environmental Toxicology and Pharmacology, 2022, 89, 103779.	2.0	20
713	An emerging role of the 5â€² termini of mature tRNAs in human diseases: Current situation and prospects. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166314.	1.8	12
714	A dual role of human tRNA methyltransferase hTrmt13 in regulating translation and transcription. EMBO Journal, 2022, 41, e108544.	3.5	6
715	The developmental significance of sperm-borne ribonucleic acids and their potential for use as diagnostic markers for male factor infertility. F&S Reviews, 2022, 3, 11-23.	0.7	2
716	Altered Expression of Transfer-RNA-Derived Small RNAs in Human With Rheumatic Heart Disease. Frontiers in Cardiovascular Medicine, 2021, 8, 716716.	1.1	6
717	Evolutionary history of sexual selection affects microRNA profiles in Drosophila sperm. Evolution; International Journal of Organic Evolution, 2022, 76, 310-319.	1.1	4

#	Article	IF	Citations
718	Cinnamaldehyde prevents intergenerational effect of paternal depression in mice via regulating GR/miR-190b/BDNF pathway. Acta Pharmacologica Sinica, 2022, 43, 1955-1969.	2.8	3
719	Epigenetics provides a bridge between early nutrition and longâ€term health and a target for disease prevention. Acta Paediatrica, International Journal of Paediatrics, 2022, , .	0.7	7
720	tRNA-derived fragments from wheat are potentially involved in susceptibility to Fusarium head blight. BMC Plant Biology, 2022, 22, 3.	1.6	11
721	tRNA-derived small RNAs: Mechanisms and potential roles in cancers. Genes and Diseases, 2022, 9, 1431-1442.	1.5	18
722	Differential Expression Profiles and Potential Intergenerational Functions of tRNA-Derived Small RNAs in Mice After Cadmium Exposure. Frontiers in Cell and Developmental Biology, 2021, 9, 791784.	1.8	5
723	Transfer RNA-Derived Small RNAs in the Pathogenesis of Parasitic Protozoa. Genes, 2022, 13, 286.	1.0	7
724	Screening and Comprehensive Analysis of Cancer-Associated tRNA-Derived Fragments. Frontiers in Genetics, 2021, 12, 747931.	1.1	4
725	Alternative splicing and MicroRNA: epigenetic mystique in male reproduction. RNA Biology, 2022, 19, 162-175.	1.5	13
726	Obesity modulates cell-cell interactions during ovarian folliculogenesis. IScience, 2022, 25, 103627.	1.9	12
727	A hypothesis: Retrotransposons as a relay of epigenetic marks in intergenerational epigenetic inheritance. Gene, 2022, 817, 146229.	1.0	7
728	The future of assessing bull fertility: Can the â€˜omics fields identify usable biomarkers?. Biology of Reproduction, 2022, 106, 854-864.	1.2	16
729	Contributions of epigenetic inheritance to the predisposition of major psychiatric disorders: Theoretical framework, evidence, and implications. Neuroscience and Biobehavioral Reviews, 2022, 135, 104579.	2.9	8
730	Advanced paternal age increased metabolic risks in mice offspring. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166355.	1.8	5
731	Disruption of Folate Metabolism Causes Poor Alignment and Spacing of Mouse Conceptuses for Multiple Generations. Frontiers in Cell and Developmental Biology, 2021, 9, 723978.	1.8	4
732	Circulating tRNA-Derived Small RNAs as Novel Radiation Biomarkers of Heavy Ion, Proton and X-ray Exposure. International Journal of Molecular Sciences, 2021, 22, 13476.	1.8	1
733	Role of epigenetic transgenerational inheritance in generational toxicology. Environmental Epigenetics, 2022, 8, dvac001.	0.9	35
735	Mechanisms Underlying the Expansion and Functional Maturation of Î²-Cells in Newborns: Impact of the Nutritional Environment. International Journal of Molecular Sciences, 2022, 23, 2096.	1.8	6
736	Molecular insights into the transgenerational inheritance of stress memory. Journal of Genetics and Genomics, 2022, 49, 89-95.	1.7	13

#	Article	IF	Citations
737	The non-coding genome in early human development â€" Recent advancements. Seminars in Cell and Developmental Biology, 2022, , .	2.3	2
738	Calcium Homeostasis in the Epididymal Microenvironment: Is Extracellular Calcium a Cofactor for Matrix Gla Protein-Dependent Scavenging Regulated by Vitamins. Frontiers in Cell and Developmental Biology, 2022, 10, 827940.	1.8	7
739	Highâ€fat, sucrose and saltâ€rich diet during rat spermatogenesis lead to the development of chronic kidney disease in the female offspring of the F2 generation. FASEB Journal, 2022, 36, e22259.	0.2	6
740	Differential Expression Profiles and Bioinformatics Analysis of tRNA-Derived Small RNAs in Muscle-Invasive Bladder Cancer in a Chinese Population. Genes, 2022, 13, 601.	1.0	9
741	Maternal Prepregnancy 5-Hydroxytryptamine Exposure Affects the Early Development of the Fetus. Frontiers in Physiology, 2022, 13, 761357.	1.3	1
742	Environmental epigenetic interaction of gametes and early embryos. Biology of Reproduction, 2022, , .	1.2	0
743	Cocaine-Induced Changes in Sperm<i>Cdkn1a</i>Methylation Are Associated with Cocaine Resistance in Male Offspring. Journal of Neuroscience, 2022, 42, 2905-2916.	1.7	9
744	Extracellular vesicles-associated tRNA-derived fragments (tRFs): biogenesis, biological functions, and their role as potential biomarkers in human diseases. Journal of Molecular Medicine, 2022, 100, 679-695.	1.7	33
745	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
746	Mouse Paternal RNAs Initiate a Pattern of Metabolic Disorders in a Line-Dependent Manner. Frontiers in Genetics, 2022, 13, 839841.	1.1	2
747	tiRNA-Val promotes angiogenesis via Sirt1â€"Hif-1Î± axis in mice with diabetic retinopathy. Biological Research, 2022, 55, 14.	1.5	6
748	Small Non-Coding RNAs in the Human Placenta: Regulatory Roles and Clinical Utility. Frontiers in Genetics, 2022, 13, 868598.	1.1	6
749	Normal-range paternal serum free thyroxine concentrations and outcomes of assisted reproductive technologies. Thyroid, 2022, , .	2.4	4
750	tsRNAsåŠå…¶å¯¹æç‰©åº"åº"éç"Ÿç‰©èƒè¿«æ—¶åŸºå›èç¨è¾¾çš„è°ƒæŽ§. Chinese Science Bulletin, 2022, , .	0.4	0
751	Pregnancy Achievement by Medical Assisted Reproduction Is Correlated to the G Protein-Coupled Receptor 30 mRNA Abundance in Human Spermatozoa. Applied Sciences (Switzerland), 2022, 12, 3240.	1.3	0
752	PhOxi-Seq: Single-Nucleotide Resolution Sequencing of <i>N</i>²-Methylation at Guanosine in RNA by Photoredox Catalysis. Journal of the American Chemical Society, 2022, 144, 5723-5727.	6.6	2
753	Impact of Endocrine Disruptors upon Non-Genetic Inheritance. International Journal of Molecular Sciences, 2022, 23, 3350.	1.8	22
754	The Transmission of Intergenerational Epigenetic Information by Sperm microRNAs. Epigenomes, 2022, 6, 12.	0.8	17

#	Article	IF	Citations
755	Altered small nonâ€'coding RNA expression profiles of extracellular vesicles in the prostatic fluid of patients with chronic pelvic pain syndrome. Experimental and Therapeutic Medicine, 2022, 23, 382.	0.8	1
756	Abundant small RNAs in the reproductive tissues and eggs of the honey bee, Apis mellifera. BMC Genomics, 2022, 23, 257.	1.2	6
757	Distinct Stressâ€Đependent Signatures of Cellular and Extracellular tRNAâ€Đerived Small RNAs. Advanced Science, 2022, 9, e2200829.	5.6	19
758	Sex-Specific Expression of Non-Coding RNA Fragments in Frontal Cortex, Hippocampus and Cerebellum of Rats. Epigenomes, 2022, 6, 11.	0.8	1
759	Paternal obesity induces placental hypoxia and sex-specific impairments in placental vascularization and offspring metabolism. Biology of Reproduction, 2022, 107, 574-589.	1.2	7
760	Transgenerational epigenetic impacts of parental infection on offspring health and disease susceptibility. Trends in Genetics, 2022, 38, 662-675.	2.9	10
761	The socioeconomic landscape of the exposome during pregnancy. Environment International, 2022, 163, 107205.	4.8	6
762	MiR-466b-3p/HDAC7 meditates transgenerational inheritance of testicular testosterone synthesis inhibition induced by prenatal dexamethasone exposure. Biochemical Pharmacology, 2022, 199, 115018.	2.0	9
763	Sperm histone H3 lysine 4 tri-methylation serves as a metabolic sensor of paternal obesity and is associated with the inheritance of metabolic dysfunction. Molecular Metabolism, 2022, 59, 101463.	3.0	40
764	Non-coding RNAs and chromatin: key epigenetic factors from spermatogenesis to transgenerational inheritance. Biological Research, 2021, 54, 41.	1.5	7
765	Riddle of the Sphinx: Emerging Role of Transfer RNAs in Human Cancer. Frontiers in Pharmacology, 2021, 12, 794986.	1.6	2
766	Expression Profiles of tRNA-Derived Small RNAs and Their Potential Roles in Primary Nasopharyngeal Carcinoma. Frontiers in Molecular Biosciences, 2021, 8, 780621.	1.6	10
767	Intergenerational effects of a paternal Western diet during adolescence on offspring gut microbiota, stress reactivity, and social behavior. FASEB Journal, 2022, 36, e21981.	0.2	8
768	Small Noncoding RNAs in Reproduction and Infertility. Biomedicines, 2021, 9, 1884.	1.4	14
769	Epigenetic Modifications at the Center of the Barker Hypothesis and Their Transgenerational Implications. International Journal of Environmental Research and Public Health, 2021, 18, 12728.	1.2	10
770	Exploring the expanding universe of small RNAs. Nature Cell Biology, 2022, 24, 415-423.	4.6	65
771	Testicular â€œInherited Metabolic Memoryâ€•of Ancestral High-Fat Diet Is Associated with Sperm sncRNA Content. Biomedicines, 2022, 10, 909.	1.4	8
772	Paternal High-Fat Diet Altered Sperm 5'tsRNA-Gly-GCC Is Associated With Enhanced Gluconeogenesis in the Offspring. Frontiers in Molecular Biosciences, 2022, 9, 857875.	1.6	7

#	Article	IF	Citations
773	TRMT6/61A-dependent base methylation of tRNA-derived fragments regulates gene-silencing activity and the unfolded protein response in bladder cancer. Nature Communications, 2022, 13, 2165.	5.8	43
774	Heat shock protein family D member 1 in boar spermatozoa is strongly related to the litter size of inseminated sows. Journal of Animal Science and Biotechnology, 2022, 13, 42.	2.1	7
775	Deciphering the RNA universe in sperm in its role as a vertical information carrier. Environmental Epigenetics, 2022, 8, .	0.9	8
796	The Therapeutic Potential of tRNA-derived Small RNAs in Neurodegenerative Disorders. , 2022, 13, 389.		8
797	Transfer RNA-Derived Small RNAs: Novel Regulators and Biomarkers of Cancers. Frontiers in Oncology, 2022, 12, 843598.	1.3	6
798	Common microRNAs in epilepsy and migraine: their possibility as candidates for biomarkers and therapeutic targets during comorbid onset of both conditions. CNS and Neurological Disorders - Drug Targets, 2022, 21, .	0.8	1
799	Co-expression network analysis of environmental canalization in the ascidian Ciona. Bmc Ecology and Evolution, 2022, 22, 53.	0.7	2
800	Paternal eNOS deficiency in mice affects glucose homeostasis and liver glycogen in male offspring without inheritance of eNOS deficiency itself. Diabetologia, 2022, 65, 1222-1236.	2.9	6
801	Epigenetic Inheritance: Intergenerational Effects of Pesticides and Other Endocrine Disruptors on Cancer Development. International Journal of Molecular Sciences, 2022, 23, 4671.	1.8	19
802	Perinatal Exposure to Nicotine Alters Sperm RNA Profiles in Rats. Frontiers in Endocrinology, 2022, 13, .	1.5	1
803	Multigenerational effects of paternal spatial training are lasting in the F1 and F2 male offspring. Behavioural Pharmacology, 2022, Publish Ahead of Print, .	0.8	1
804	Integrative Analysis of Small RNA and mRNA Expression Profiles Identifies Signatures Associated With Chronic Epididymitis. Frontiers in Immunology, 2022, 13, .	2.2	6
805	Role of tRNA derived fragments in renal ischemiaâ€“reperfusion injury. Renal Failure, 2022, 44, 815-825.	0.8	8
806	Systematic analysis of tRNA-derived small RNAs reveals therapeutic targets of Xuefu Zhuyu decoction in the cortexes of experimental traumatic brain injury. Phytomedicine, 2022, 102, 154168.	2.3	8
807	Maternal enzyme reprograms paternal DNA for healthy offspring. Nature, 2022, 605, 621-622.	13.7	0
808	Epitranscriptomic challenges and promises in metabolic diseases. Metabolism: Clinical and Experimental, 2022, 132, 155219.	1.5	9
811	Sex differences in the intergenerational inheritance of metabolic traits. Nature Metabolism, 2022, 4, 507-523.	5.1	25
812	Transfer RNA-derived small RNA: an emerging small non-coding RNA with key roles in cancer. Experimental Hematology and Oncology, 2022, 11, .	2.0	5

#	Article	IF	Citations
813	A pro-metastatic tRNA fragment drives Nucleolin oligomerization and stabilization of its bound metabolic mRNAs. Molecular Cell, 2022, 82, 2604-2617.e8.	4.5	33
814	Experimental paradigms revisited: oxidative stress-induced tRNA fragmentation does not correlate with stress granule formation but is associated with delayed cell death. Nucleic Acids Research, 2022, 50, 6919-6937.	6.5	13
815	Intergenerational hyperglycemia through epigenetic alterations of gametes. , 0, , .		0
816	Spermâ€derived RNAs improve the efficiency of somatic cell nuclear transfer (SCNT) through promoting Râ€loop formation. Molecular Reproduction and Development, 0, , .	1.0	1
817	Progress in modern reproductive biology research in China. Biology of Reproduction, 0, , .	1.2	0
818	Effects of paternal high-fat diet and maternal rearing environment on the gut microbiota and behavior. Scientific Reports, 2022, 12, .	1.6	9
819	Transgenerational Transmission of Reproductive and Metabolic Dysfunction in the Male Progeny of Polycystic Ovary Syndrome. SSRN Electronic Journal, 0, , .	0.4	0
820	Small Noncoding RNAs Contribute to Sperm Oxidative Stress-Induced Programming of Behavioral and Metabolic Phenotypes in Offspring. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-14.	1.9	3
821	Ancestral dietary change alters the development of Drosophila larvae through MAPK signalling. Fly, 2022, 16, 298-310.	0.9	2
822	Evaluation of serum tRF-23-Q99P9P9NDD as a potential biomarker for the clinical diagnosis of gastric cancer. Molecular Medicine, 2022, 28, .	1.9	15
823	Role of non-coding RNAs in response to environmental exposure and mediating epigenetic inheritance in mammals. Scientia Sinica Vitae, 2022, 52, 1137-1147.	0.1	2
824	Transgenerational Susceptibility to Food Addiction-Like Behavior in Rats Associates to a Decrease of the Anti-Inflammatory IL-10 in Plasma. Neurochemical Research, 2022, 47, 3093-3103.	1.6	2
825	Exosomal tRF-Leu-AAG-001 derived from mast cell as a potential non-invasive diagnostic biomarker for endometriosis. BMC Women's Health, 2022, 22, .	0.8	8
826	Paternal knockdown of <scp>tRNA</scp>(cytosineâ€5â€)â€methyltransferase (Dnmt2) increases offspring susceptibility to infection in red flour beetles. Insect Molecular Biology, 2022, 31, 711-721.	1.0	4
827	Discovery of Inhibitors of DNA Methyltransferase 2, an Epitranscriptomic Modulator and Potential Target for Cancer Treatment. Journal of Medicinal Chemistry, 2022, 65, 9750-9788.	2.9	7
828	microRNAs in aged sperm confer psychiatric symptoms to offspring through causing the dysfunction of estradiol signaling in early embryos. Cell Discovery, 2022, 8, .	3.1	3
830	Uterosomes: The lost ring of telegony?. Progress in Biophysics and Molecular Biology, 2022, , .	1.4	0
831	Paternal transgenerational nutritional epigenetic effect: A new insight into nutritional manipulation to reduce the use of antibiotics in animal feeding. Animal Nutrition, 2022, 11, 142-151.	2.1	4

#	Article	IF	Citations
832	The influence of parental high-fat high-sugar diet on the gut-brain axis in male offspring. Food Research International, 2022, 160, 111706.	2.9	2
833	The epigenetic mechanisms underlying gamete origin of adult-onset diseases. Science Bulletin, 2022, 67, 1724-1727.	4.3	2
834	Alteration of RNA modification signature in human sperm correlates with sperm motility. Molecular Human Reproduction, 2022, 28, .	1.3	7
835	Cloning and Sequencing Eukaryotic Small RNAs. Current Protocols, 2022, 2, .	1.3	2
836	Noncoding RNAs and RNA-binding proteins: emerging governors of liver physiology and metabolic diseases. American Journal of Physiology - Cell Physiology, 2022, 323, C1003-C1017.	2.1	8
838	Paternal high-fat diet alters triglyceride metabolism-related gene expression in liver and white adipose tissue of male mouse offspring. Biochemistry and Biophysics Reports, 2022, 31, 101330.	0.7	2
839	Transfer RNA-derived small RNAs (tsRNAs): Versatile regulators in cancer. Cancer Letters, 2022, 546, 215842.	3.2	10
840	Altered nonâ€coding RNA profiles of seminal plasma extracellular vesicles of men with poor semen quality undergoing in vitro fertilization treatment. Andrology, 2023, 11, 677-686.	1.9	9
841	sncRNAs in Epididymosomes: The Contribution to Embryonic Development and Offspring Health. International Journal of Molecular Sciences, 2022, 23, 10851.	1.8	5
842	Parental Programming of Offspring Health: The Intricate Interplay between Diet, Environment, Reproduction and Development. Biomolecules, 2022, 12, 1289.	1.8	7
843	Nutritional Epigenetics and Fetal Metabolic Programming. , 2023, , 611-623.		0
844	Linking nutrition to long-term health: Epigenetic mechanisms. , 2022, , 257-277.		0
845	Transcriptome-wide profiling of N⁶-methyladenosine via a selective chemical labeling method. Chemical Science, 2022, 13, 12149-12157.	3.7	5
846	Bmhen1 is Essential for Eupyrene Sperm Development in Bombyx Mori But Piwi Proteins are Not. SSRN Electronic Journal, 0, , .	0.4	0
847	A novel method to purify small RNAs from human tissues for methylation analysis by LC-MS/MS. Frontiers in Molecular Biosciences, 0, 9, .	1.6	0
848	Sperm-inherited H3K27me3 epialleles are transmitted transgenerationally incis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
849	Transfer RNA-derived small RNAs and their potential roles in the therapeutic heterogeneity of sacubitril/valsartan in heart failure patients after acute myocardial infarction. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	1
850	Age-associated epigenetic changes in mammalian sperm: implications for offspring health and development. Human Reproduction Update, 2023, 29, 24-44.	5.2	25

#	Article	IF	Citations
851	tRNA derived small RNAsâ€"Small players with big roles. Frontiers in Genetics, 0, 13, .	1.1	9
852	Paternal low protein diet perturbs inter-generational metabolic homeostasis in a tissue-specific manner in mice. Communications Biology, 2022, 5, .	2.0	3
853	Systematic Analysis of tRNA-Derived Small RNAs Reveals the Effects of Xuefu-Zhuyu Decoction on the Hippocampi of Rats after Traumatic Brain Injury. Evidence-based Complementary and Alternative Medicine, 2022, 2022, 1-13.	0.5	1
854	Situating the Father: Strengthening Interdisciplinary Collaborations between Sociology, History and the Emerging POHaD Paradigm. Nutrients, 2022, 14, 3884.	1.7	0
855	Comprehensive In Silico Analysis of RNA Silencing-Related Genes and Their Regulatory Elements in Wheat (Triticum aestivum L.). BioMed Research International, 2022, 2022, 1-26.	0.9	5
856	Deep learning models for disease-associated circRNA prediction: a review. Briefings in Bioinformatics, 2022, 23, .	3.2	16
857	Plasma tRF-1:29-Pro-AGG-1-M6 and tRF-55:76-Tyr-GTA-1-M2 as novel diagnostic biomarkers for lung adenocarcinoma. Frontiers in Oncology, 0, 12, .	1.3	4
858	Genome-wide DNA methylation profiles and small noncoding RNA signatures in sperm with a high DNA fragmentation index. Journal of Assisted Reproduction and Genetics, 0, , .	1.2	2
859	Cross Talk proposal: The kids will be fine: parental stress rodent models are good for assessing influences on human neurobiology. Journal of Physiology, 2022, 600, 4409-4411.	1.3	0
860	tRNA-Derived Small RNAs: Novel Insights into the Pathogenesis and Treatment of Cardiovascular Diseases. Journal of Cardiovascular Translational Research, 2023, 16, 300-309.	1.1	8
861	Sperm RNA-mediated epigenetic inheritance in mammals: challenges and opportunities. Reproduction, Fertility and Development, 2022, 35, 118-124.	0.1	3
862	Emerging functions of tRNA modifications in mRNA translation andÂdiseases. Journal of Genetics and Genomics, 2023, 50, 223-232.	1.7	5
863	The Legacy of Parental Obesity: Mechanisms of Non-Genetic Transmission and Reversibility. Biomedicines, 2022, 10, 2461.	1.4	3
864	Missing Causality and Heritability of Autoimmune Hepatitis. Digestive Diseases and Sciences, 2023, 68, 1585-1604.	1.1	3
865	MicroRNA sensing and regulating microbiota-host crosstalk via diet motivation. Critical Reviews in Food Science and Nutrition, 0, , 1-18.	5.4	1
866	Transgenerational inheritance and its modulation by environmental cues. Current Topics in Developmental Biology, 2023, , 31-76.	1.0	5
867	BmHen1 is essential for eupyrene sperm development in Bombyx mori but PIWI proteins are not. Insect Biochemistry and Molecular Biology, 2022, 151, 103874.	1.2	7
868	Small Non-Coding RNAs in Human Cancer. Genes, 2022, 13, 2072.	1.0	14

#	Article	IF	Citations
869	Developmental origins of adult diseases. Medical Review, 2022, .	0.3	0
870	tatDB: a database of Ago1-mediated targets of transfer RNA fragments. Nucleic Acids Research, 2023, 51, D297-D305.	6.5	2
871	Phenotypic plasticity as a facilitator of microbial evolution. Environmental Epigenetics, 2022, 8, .	0.9	1
872	Paternal epigenetic influences on placental health and their impacts on offspring development and disease. Frontiers in Genetics, 0, 13, .	1.1	10
873	Preconception paternal mental disorders and child health: Mechanisms and interventions. Neuroscience and Biobehavioral Reviews, 2023, 144, 104976.	2.9	4
874	tRFs and tRNA Halves: Novel Cellular Defenders in Multiple Biological Processes. Current Issues in Molecular Biology, 2022, 44, 5949-5962.	1.0	1
875	Assessing spermatozoal small ribonucleic acids and their relationship to blastocyst development in idiopathic infertile males. Scientific Reports, 2022, 12, .	1.6	2
876	On the Role of Seminal Fluid Protein and Nucleic Acid Content in Paternal Epigenetic Inheritance. International Journal of Molecular Sciences, 2022, 23, 14533.	1.8	1
877	Food abundance in men before puberty predicts a range of cancers in grandsons. Nature Communications, 2022, 13, .	5.8	5
878	Changes in the rearing environment cause reorganization of molecular networks associated with <scp>DNA</scp> methylation. Journal of Animal Ecology, 2023, 92, 648-664.	1.3	2
879	Recruitment of CTCF to an Fto enhancer is responsible for transgenerational inheritance of BPA-induced obesity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	17
880	Small RNA perspective of physical exercise-related improvement of male reproductive dysfunction due to obesity. Frontiers in Endocrinology, 0, 13, .	1.5	0
881	Role of small RNAs harbored by sperm in embryonic development and offspring phenotype. Andrology, 2023, 11, 770-782.	1.9	9
882	Differential Expression Analysis of tRNA-Derived Small RNAs from Subcutaneous Adipose Tissue of Obese and Lean Pigs. Animals, 2022, 12, 3561.	1.0	4
883	Plant tRNA functions beyond their major role in translation. Journal of Experimental Botany, 2023, 74, 2352-2363.	2.4	4
884	Exposures Driving Long-Term DOHaD Effects. , 2022, , 75-84.		0
885	The Sperm Small RNA Transcriptome: Implications beyond Reproductive Disorder. International Journal of Molecular Sciences, 2022, 23, 15716.	1.8	1
886	Long non-coding RNAs: definitions, functions, challenges and recommendations. Nature Reviews Molecular Cell Biology, 2023, 24, 430-447.	16.1	313

#	Article	IF	Citations
887	<scp>DNA</scp> methylationâ€mediated inhibition of <scp>MGARP</scp> is involved in impaired progeny testosterone synthesis in mice exposed to <scp>DBP</scp> in utero. Environmental Toxicology, 2023, 38, 914-925.	2.1	0
888	Transgenerational Epigenetic Inheritance of Traumatic Experience in Mammals. Genes, 2023, 14, 120.	1.0	8
889	Preconceptional exposure of adult male rats to bisphenol S impairs insulin sensitivity and glucose tolerance in their male offspring. Chemosphere, 2023, 314, 137691.	4.2	1
890	Promising novel biomarkers and therapy targets: The application of cell-free seminal nucleotides in male reproduction research. Translational Research, 2023, 256, 73-86.	2.2	2
891	Men who inject opioids exhibit altered tRNA-Gly-GCC isoforms in semen. Molecular Human Reproduction, 2023, 29, .	1.3	3
892	tRNA derived fragments:A novel player in gene regulation and applications in cancer. Frontiers in Oncology, 0, 13, .	1.3	2
893	Phthalates impact on the epigenetic factors contributed specifically by the father at fertilization. Epigenetics and Chromatin, 2023, 16, .	1.8	0
894	tRNA-derived small RNAs in plant response to biotic and abiotic stresses. Frontiers in Plant Science, 0, 14, .	1.7	4
896	Paternal and maternal environmental influences on offspring health: inter- and transgenerational epigenetic inheritance. , 2023, , 299-325.		0
897	Identification of RNA helicases with unwinding activity on angiogenin-processed tRNAs. Nucleic Acids Research, 2023, 51, 1326-1352.	6.5	8
898	The epigenetic basis of evolution. Progress in Biophysics and Molecular Biology, 2023, 178, 57-69.	1.4	7
899	The emerging role of extracellular vesicles in the testis. Human Reproduction, 2023, 38, 334-351.	0.4	6
900	The role of tRNA-derived small RNAs in aging. BMB Reports, 2023, 56, 49-55.	1.1	2
901	Paternal methotrexate exposure affects sperm small RNA content and causes craniofacial defects in the offspring. Nature Communications, 2023, 14, .	5.8	8
902	Correlation between PRDX2 and spermatogenesis under oxidative stress. Biochemical and Biophysical Research Communications, 2023, 656, 139-145.	1.0	2
903	Paternal phthalate exposure-elicited offspring metabolic disorders are associated with altered sperm small RNAs in mice. Environment International, 2023, 172, 107769.	4.8	13
904	Differential expression profiling of tRNA-Derived small RNAs and their potential roles in methamphetamine self-administered rats. Frontiers in Genetics, 0, 14, .	1.1	4
906	Staying together after the breakup: tRNA halves in extracellular fluids. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	2

#	Article	IF	Citations
907	Transfer RNA halves are found as nicked tRNAs in cells: evidence that nicked tRNAs regulate expression of an RNA repair operon. Rna, 2023, 29, 620-629.	1.6	11
908	Emerging roles of tRNA-derived fragments in cancer. Molecular Cancer, 2023, 22, .	7.9	19
909	Exosome-derived Small RNAs in mouse Sertoli cells inhibit spermatogonial apoptosis. Theriogenology, 2023, 200, 155-167.	0.9	4
910	LSM1-mediated Major Satellite RNA decay is required for nonequilibrium histone H3.3 incorporation into parental pronuclei. Nature Communications, 2023, 14, .	5.8	1
911	Hypoxia induces alterations in tRNA modifications involved in translational control. BMC Biology, 2023, 21, .	1.7	5
912	Stress Response in Entamoeba histolytica Is Associated with Robust Processing of tRNA to tRNA Halves. MBio, 2023, 14, .	1.8	5
914	Developmental origins of health and disease: Impact of paternal nutrition and lifestyle. Pediatric Investigation, 2023, 7, 111-131.	0.6	3
915	Intergenerational Inheritance of Hepatic Steatosis in a Mouse Model of Childhood Obesity: Potential Involvement of Germ-Line microRNAs. Nutrients, 2023, 15, 1241.	1.7	0
916	Preconception origins of asthma, allergies and lung function: The influence of previous generations on the respiratory health of our children. Journal of Internal Medicine, 2023, 293, 531-549.	2.7	3
917	PANDORA-Seq unveils the hidden small noncoding RNA landscape in atherosclerosis of LDL receptor-deficient mice. Journal of Lipid Research, 2023, 64, 100352.	2.0	4
918	Multigenerational mistimed feeding drives circadian reprogramming with an impaired unfolded protein response. Frontiers in Endocrinology, 0, 14, .	1.5	0
919	Mechanisms of transgenerational epigenetic inheritance: lessons from animal model organisms. Current Opinion in Genetics and Development, 2023, 79, 102024.	1.5	9
920	Nucleosomes in mammalian sperm: conveying paternal epigenetic inheritance or subject to reprogramming between generations?. Current Opinion in Genetics and Development, 2023, 79, 102034.	1.5	8
921	Contribution of semen to early embryo development: fertilization and beyond. Human Reproduction Update, 2023, 29, 395-433.	5.2	12
922	Transgenerational Inheritance and Systemic Racism in America. Psychiatric Research and Clinical Practice, 2023, 5, 60-73.	1.3	1
923	Using Small Non-Coding RNAs in Extracellular Vesicles of Semen as Biomarkers of Male Reproductive System Health: Opportunities and Challenges. International Journal of Molecular Sciences, 2023, 24, 5447.	1.8	2
924	Stressâ€sensitive dynamics of miRNAs and Elba1 in Drosophila embryogenesis. Molecular Systems Biology, 2023, 19, .	3.2	2
925	Sperm RNA Payload: Implications for Intergenerational Epigenetic Inheritance. International Journal of Molecular Sciences, 2023, 24, 5889.	1.8	3

#	Article	IF	Citations
926	Epitranscriptomics in metabolic disease. Nature Metabolism, 2023, 5, 370-384.	5.1	8
927	The role and mechanism of action of tRNA-derived fragments in the diagnosis and treatment of malignant tumors. Cell Communication and Signaling, 2023, 21, .	2.7	4
928	Urinary phthalate metabolites and small non-coding RNAs from seminal plasma extracellular vesicles among men undergoing infertility treatment. Environmental Pollution, 2023, 329, 121529.	3.7	0
929	Small RNA shuffling between murine sperm and their cytoplasmic droplets during epididymal maturation. Developmental Cell, 2023, 58, 779-790.e4.	3.1	3
930	Small RNAs: An expanding world with therapeutic promises. Fundamental Research, 2023, 3, 676-682.	1.6	0
933	Multiple regulatory roles of the transfer RNA-derived small RNAs in cancers. Genes and Diseases, 2024, 11, 597-613.	1.5	1
934	Emerging evidence that the mammalian sperm epigenome serves as a template for embryo development. Nature Communications, 2023, 14, .	5.8	18
935	Developmental defects and potential mechanisms in F1 generation of parents exposed to difenoconazole at different life stages of zebrafish (Danio rerio). Science of the Total Environment, 2023, 883, 163529.	3.9	2
936	RNA Crossing Membranes: Systems and Mechanisms Contextualizing Extracellular RNA and Cell Surface GlycoRNAs. Annual Review of Genomics and Human Genetics, 2023, 24, 85-107.	2.5	3
937	DNA methylation changes underlie the long-term association between periodontitis and atherosclerotic cardiovascular disease. Frontiers in Cardiovascular Medicine, 0, 10, .	1.1	1
938	The intergenerational effects on fetal programming. , 2023, , 387-407.		0
939	Effects of aging on sperm chromatin. , 2023, , 93-117.		0
942	Role of Bioinformatics in Drug Design and Discovery. , 2023, , 1-33.		0
945	Epigenetic changes and the dynamic heterogeneity of the metastatic phenotype â€“ challenges ahead. Cancer and Metastasis Reviews, 0, , .	2.7	0
949	Circulating non-coding RNAs in chronic kidney disease and its complications. Nature Reviews Nephrology, 2023, 19, 573-586.	4.1	5
951	Endocrine disrupting chemicals induce the epigenetic transgenerational inheritance of disease. , 2023, , 125-134.		0
957	Non-coding RNAs. , 2023, , 89-138.		0
965	Emerging roles of tRNA-derived small RNAs in cancer biology. Experimental and Molecular Medicine, 2023, 55, 1293-1304.	3.2	4

#	Article	IF	Citations
974	Advances in epigenetic mechanisms and transgenerational inheritance of male infertility. , 0, , .		0
991	Transgenerational and early-life nutrition, epigenetics, and prevention of obesity. , 2024, , 459-490.		0
992	Epigenetics of transgenerational inheritance of disease. , 2024, , 989-1030.		0
995	Classification, function, and advances in tsRNA in non-neoplastic diseases. Cell Death and Disease, 2023, 14, .	2.7	1
998	Transfer RNA Fragments, from Structure to Function. RNA Technologies, 2023, , 1-19.	0.2	1
1005	Contribution of RNA Species in Sexually Transmitted Infections. RNA Technologies, 2023, , 421-439.	0.2	0
1006	Precision Nutrition, Epigenome, and Male Reproductive Health. , 2024, , 215-226.		0
1015	Editorial: Current state of male physiological research and the impacts of environment and fetal programming in livestock. Frontiers in Animal Science, 0, 4, .	0.8	0
1016	Small RNA structural biochemistry in a post-sequencing era. Nature Protocols, 2024, 19, 595-602.	5.5	0
1023	Epigenetics and multiple sclerosis. , 2024, , 183-223.		0
1024	Roles and regulation of tRNA-derived small RNAs in animals. Nature Reviews Molecular Cell Biology, 0, , .	16.1	1
1029	RNS2 is required for the biogenesis of a wounding responsive 16 nts tsRNA in Arabidopsis thaliana. Plant Molecular Biology, 2024, 114, .	2.0	0
1041	c. Lessons From the Cardiovascular Risk in Young Finns Study. , 2024, , 87-98.		0