Juno is the egg Izumo receptor and is essential for mam

Nature

508, 483-487

DOI: 10.1038/nature13203

Citation Report

#	Article	IF	Citations
1	10.1538/expanim.63.357. Experimental Animals, 2014, 99999, 99999999-99999999.	0.7	18
2	Gamete attachment process revealed in flowering plant fertilization. Plant Signaling and Behavior, 2014, 9, e977715.	1.2	12
3	Izumo meets Juno. Cell Cycle, 2014, 13, 2019-2020.	1.3	43
4	Reproductive medicine 2014: the year in review. Journal of Assisted Reproduction and Genetics, 2014, 31, 1571-1572.	1.2	0
6	The beginning of a seed: regulatory mechanisms of double fertilization. Frontiers in Plant Science, 2014, 5, 452.	1.7	69
7	Molecular and Cellular Mechanisms of Sperm-Oocyte Interactions Opinions Relative to in Vitro Fertilization (IVF). International Journal of Molecular Sciences, 2014, 15, 12972-12997.	1.8	44
8	Sperm-Egg Fusion: A Molecular Enigma of Mammalian Reproduction. International Journal of Molecular Sciences, 2014, 15, 10652-10668.	1.8	53
9	Network Analyses of Spermâ€“Egg Recognition and Binding: Ready to Rethink Fertility Mechanisms?. OMICS A Journal of Integrative Biology, 2014, 18, 740-753.	1.0	13
10	Mammalian gamete fusion depends on the inhibition of ovastacin by fetuin-B. Biological Chemistry, 2014, 395, 1195-1199.	1.2	23
11	Sperm protein finds its mate. Nature, 2014, 508, 466-467.	13.7	24
12	Binding of sperm protein Izumo1 and its egg receptor Juno drives Cd9 accumulation in the intercellular contact area prior to fusion during mammalian fertilization. Development (Cambridge), 2014, 141, 3732-3739.	1.2	66
13	Extracellular vesicles as a platform for â€˜liquid biopsyâ€™ in glioblastoma patients. Expert Review of Molecular Diagnostics, 2014, 14, 819-825.	1.5	104
14	Evidence for participation of GCS1 in fertilization of the starlet sea anemone Nematostella vectensis: Implication of a common mechanism of spermâ€“egg fusion in plants and animals. Biochemical and Biophysical Research Communications, 2014, 451, 522-528.	1.0	22
15	Does dietary folic acid supplementation in mouse NTD models affect neural tube development or gamete preference at fertilization?. BMC Genetics, 2014, 15, 91.	2.7	14
16	RIM2Î± is a molecular scaffold for Zona pellucida-induced acrosome reaction. Journal of Molecular Cell Biology, 2014, 6, 434-437.	1.5	2
17	Of Juno, neuropeptide release, and light-activated chloride channels. Journal of General Physiology, 2014, 143, 657-658.	0.9	0
18	Conservation of sequence and function in fertilization of the cortical granule serine protease in echinoderms. Biochemical and Biophysical Research Communications, 2014, 450, 1135-1141.	1.0	3
19	ç²¾åã¨ãçµåˆã«å¿…è¦ãªé¢ã®ã„ãƒ³ãƒ‘ã‚¯è³ªã‚’ç™ºè¦‹. Nature Digest, 2014, 11, 3-3.	0.0	0

#	Article	IF	Citations
20	Mechanism of Fertilization: A Modern View. Experimental Animals, 2014, 63, 357-365.	0.7	24
21	Lectin staining and flow cytometry reveals female-induced sperm acrosome reaction and surface carbohydrate reorganization. Scientific Reports, 2015, 5, 15321.	1.6	18
22	Izumo1 and Juno: the evolutionary origins and coevolution of essential spermâ€“egg binding partners. Royal Society Open Science, 2015, 2, 150296.	1.1	57
23	Phosphorylation of Izumo1 and Its Role in Male Infertility. Asian Journal of Andrology, 2015, 17, 708-10.	0.8	9
24	Mechanisms of fertilization elucidated by gene-manipulated animals. Asian Journal of Andrology, 2015, 17, 646.	0.8	46
25	Ovarian and oocyte targets for development of female contraceptives. Expert Opinion on Therapeutic Targets, 2015, 19, 1433-1446.	1.5	7
26	TLE6 mutation causes the earliest known human embryonic lethality. Genome Biology, 2015, 16, 240.	3.8	153
27	Forward Genetics Identifies a Requirement for the Izumo-like Immunoglobulin Superfamily spe-45 Gene in Caenorhabditis elegans Fertilization. Current Biology, 2015, 25, 3220-3224.	1.8	31
28	The Immunoglobulin-like Gene spe-45 Acts during Fertilization in Caenorhabditis elegans like the Mouse Izumo1 Gene. Current Biology, 2015, 25, 3225-3231.	1.8	37
29	Extracellular vesicles: roles in gamete maturation, fertilization and embryo implantation. Human Reproduction Update, 2016, 22, dmv055.	5.2	248
30	The cytoplasmic domain of the gamete membrane fusion protein HAP2 targets the protein to the fusion site in Chlamydomonas and regulates the fusion reaction. Development (Cambridge), 2015, 142, 962-71.	1.2	35
31	Role of zona pellucida glycoproteins during fertilization in humans. Journal of Reproductive Immunology, 2015, 108, 90-97.	0.8	46
32	Emergency contraception. Widely available and effective but disappointing as a public health intervention: a review. Human Reproduction, 2015, 30, 751-760.	0.4	43
33	Transmembrane Signal Transduction in Oocyte Maturation and Fertilization: Focusing on Xenopus laevis as a Model Animal. International Journal of Molecular Sciences, 2015, 16, 114-134.	1.8	11
34	Human Spermatozoa as a Model for Detecting Missing Proteins in the Context of the Chromosome-Centric Human Proteome Project. Journal of Proteome Research, 2015, 14, 3606-3620.	1.8	55
35	Effects of triploidy incidence on clinical outcomes for IVF-ET cycles in different ovarian stimulation protocols. Gynecological Endocrinology, 2015, 31, 769-773.	0.7	7
36	Testicular oocytes in MRL/MpJ mice possess similar morphological, genetic, and functional characteristics to ovarian oocytes. Mechanisms of Development, 2015, 137, 23-32.	1.7	1
37	Gamete Dialogs in Green Lineages. Molecular Plant, 2015, 8, 1442-1454.	3.9	32

#	Article	IF	Citations
38	To ICSI or Not to ICSI. Seminars in Reproductive Medicine, 2015, 33, 092-102.	0.5	69
39	Fertilization in Mammals. , 2015, , 149-196.		54
40	Phospholipase C and D regulation of Src, calcium release and membrane fusion during Xenopus laevis development. Developmental Biology, 2015, 401, 188-205.	0.9	16
41	Cross-species fertilization: the hamster egg receptor, Juno, binds the human sperm ligand, Izumo1. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140101.	1.8	56
42	Cell biology of yeast zygotes, from genesis to budding. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1702-1714.	1.9	5
43	The Plant Ovule Secretome: A Different View toward Pollenâ€“Pistil Interactions. Journal of Proteome Research, 2015, 14, 4763-4775.	1.8	13
44	Targeting molecular interactions essential forPlasmodiumsexual reproduction. Cellular Microbiology, 2015, 17, 1594-1604.	1.1	9
45	Targeting the folate receptor: diagnostic and therapeutic approaches to personalize cancer treatments. Annals of Oncology, 2015, 26, 2034-2043.	0.6	241
46	A Human Platelet Receptor Protein Microarray Identifies the High Affinity Immunoglobulin E Receptor Subunit Î± (FcÎµR1Î±) as an Activating Platelet Endothelium Aggregation Receptor 1 (PEAR1) Ligand *. Molecular and Cellular Proteomics, 2015, 14, 1265-1274.	2.5	62
47	The Common and Species-Specific Roles of Oviductal Proteins in Mammalian Fertilization and Embryo Development. BioScience, 2015, 65, 973-984.	2.2	41
48	Oocyte-triggered dimerization of sperm IZUMO1 promotes spermâ€“egg fusion in mice. Nature Communications, 2015, 6, 8858.	5.8	87
49	Impact of Timing on Insemination In Relation to Ovulation on the Cycle Pregnancy Rate of Intrauterine Insemination and Intrauterine Tuboperitoneal Insemination in Unexplained Infertility. Reproductive Immunology Open Access, 2016, 01, .	0.1	0
50	Vaccination with an Epitope Peptide of IZUMO1 to Induce Contraception in Female Mice. American Journal of Reproductive Immunology, 2016, 75, 474-485.	1.2	10
51	Effects of three pro-nuclei (3PN) proportion incidence on clinical outcomes of patients with lower retrieved oocytes in the fresh cleavage-stage embryo transfer (ET) cycles. Gynecological Endocrinology, 2016, 32, 891-895.	0.7	5
52	The structure of sperm Izumo1 reveals unexpected similarities with Plasmodium invasion proteins. Current Biology, 2016, 26, R661-R662.	1.8	35
53	Marriage shrines and worms impacting our understanding of mammalian fertilization. Worm, 2016, 5, e1184389.	1.0	4
54	Immunoglobulin G Expression in Human Sperm and Possible Functional Significance. Scientific Reports, 2016, 6, 20166.	1.6	11
55	Two pathways regulate cortical granule translocation to prevent polyspermy in mouse oocytes. Nature Communications, 2016, 7, 13726.	5.8	43

#	Article	IF	Citations
56	Structural and functional insights into IZUMO1 recognition by JUNO in mammalian fertilization. Nature Communications, 2016, 7, 12198.	5.8	58
57	Acrosome Reaction as a Preparation for Gamete Fusion. Advances in Anatomy, Embryology and Cell Biology, 2016, 220, 159-172.	1.0	30
58	Two HAP2-GCS1 homologs responsible for gamete interactions in the cellular slime mold with multiple mating types: Implication for common mechanisms of sexual reproduction shared by plants and protozoa and for male-female differentiation. Developmental Biology, 2016, 415, 6-13.	0.9	30
59	Sperm Acrosome Biogenesis and Function During Fertilization. Advances in Anatomy, Embryology and Cell Biology, 2016, , .	1.0	8
60	The effects of glucuronic acid and N-acetyl-D-glucosamine on in vitro fertilisation of porcine oocytes. Reproduction, Fertility and Development, 2016, 28, 1223.	0.1	3
61	The Acrosome Reaction: A Historical Perspective. Advances in Anatomy, Embryology and Cell Biology, 2016, 220, 1-13.	1.0	19
62	Sperm Meets Egg: The Genetics of Mammalian Fertilization. Annual Review of Genetics, 2016, 50, 93-111.	3.2	61
63	Epigenetic reprogramming of the zygote in mice and men: on your marks, get set, go!. Reproduction, 2016, 152, R211-R222.	1.1	53
64	Deficiency of SPATA46, a Novel Nuclear Membrane Protein, Causes Subfertility in Male Mice. Biology of Reproduction, 2016, 95, 58-58.	1.2	18
65	Characterization of tetraspanin protein CD81 in mouse spermatozoa and bovine gametes. Reproduction, 2016, 152, 785-793.	1.1	18
66	Maternal ENODLs Are Required for Pollen Tube Reception in Arabidopsis. Current Biology, 2016, 26, 2343-2350.	1.8	82
67	The molecular complexity of fertilization: Introducing the concept of a fertilization synapse. Molecular Reproduction and Development, 2016, 83, 376-386.	1.0	27
68	Ganglioside-enriched microdomains define an oolemma that is functionally polarized with respect to fertilizability in the mouse. Reproductive BioMedicine Online, 2016, 33, 458-475.	1.1	8
69	Changes of IZUMO1 in bull spermatozoa during the maturation, acrosome reaction, and cryopreservation. Theriogenology, 2016, 86, 2179-2188.e3.	0.9	20
70	Pipeline for contraceptive development. Fertility and Sterility, 2016, 106, 1295-1302.	0.5	17
71	CRISPR/Cas9-mediated mutation revealed cytoplasmic tail is dispensable for IZUMO1 function and male fertility. Reproduction, 2016, 152, 665-672.	1.1	14
72	The molecular basis of fertilization (Review). International Journal of Molecular Medicine, 2016, 38, 979-986.	1.8	73
73	The control of male fertility by spermatid-specific factors: searching for contraceptive targets from spermatozoonâ€™s head to tail. Cell Death and Disease, 2016, 7, e2472-e2472.	2.7	45

#	Article	IF	Citations
74	IZUMO1-JUNO Union Promotes Fertilization. Biology of Reproduction, 2016, 95, 75-75.	1.2	1
75	A specific flagellum beating mode for inducing fusion in mammalian fertilization and kinetics of sperm internalization. Scientific Reports, 2016, 6, 31886.	1.6	20
76	Gamete activation: basic knowledge and clinical applications. Human Reproduction Update, 2016, 22, 420-439.	5.2	99
77	Impact of lysosome status on extracellular vesicle content and release. Ageing Research Reviews, 2016, 32, 65-74.	5.0	175
78	Gamete interactions require transmembranous immunoglobulin-like proteins with conserved roles during evolution. Worm, 2016, 5, e1197485.	1.0	10
79	When sperm meets egg. Nature, 2016, 534, 484-485.	13.7	4
80	Molecular architecture of the human sperm IZUMO1 and egg JUNO fertilization complex. Nature, 2016, 534, 562-565.	13.7	137
81	Structure of IZUMO1â€“JUNO reveals spermâ€“oocyte recognition during mammalian fertilization. Nature, 2016, 534, 566-569.	13.7	118
82	Biogenesis of sperm acrosome is regulated by pre-mRNA alternative splicing of Acrbp in the mouse. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3696-E3705.	3.3	44
83	ABO (histo) blood group phenotype development and human reproduction as they relate to ancestral IgM formation: A hypothesis. Immunobiology, 2016, 221, 116-127.	0.8	6
84	GPI-AP release in cellular, developmental, and reproductive biology. Journal of Lipid Research, 2016, 57, 538-545.	2.0	54
85	Ecological proteomics: is the field ripe for integrating proteomics into evolutionary ecology research?. Journal of Proteomics, 2016, 135, 1-3.	1.2	19
86	Divergent evolution of vitamin B9 binding underlies Juno-mediated adhesion of mammalian gametes. Current Biology, 2016, 26, R100-R101.	1.8	35
87	Identification of bovine sperm acrosomal proteins that interact with a 32-kDa acrosomal matrix protein. Molecular and Cellular Biochemistry, 2016, 414, 153-169.	1.4	14
88	â€œLove Is Strong, and You're so Sweetâ€¦ JAGGER Is Essential for Persistent Synergid Degeneration and Polytubey Block in Arabidopsis thaliana. Molecular Plant, 2016, 9, 601-614.	3.9	60
89	Fertilization Mechanisms in Flowering Plants. Current Biology, 2016, 26, R125-R139.	1.8	229
90	Capacitation-Associated Glycocomponents of Mammalian Sperm. Reproductive Sciences, 2016, 23, 572-594.	1.1	19
91	Acrosome markers of human sperm. Anatomical Science International, 2016, 91, 128-142.	0.5	48

#	Article	IF	Citations
92	Folate-targeted nanoparticles for rheumatoid arthritis therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1113-1126.	1.7	112
93	Reproductive systems biology tackles global issues of population growth, food safety and reproductive health. Cell and Tissue Research, 2016, 363, 1-5.	1.5	3
94	Some assembly required: evolutionary and systems perspectives on the mammalian reproductive system. Cell and Tissue Research, 2016, 363, 267-278.	1.5	6
95	Proteomics of reproductive systems: Towards a molecular understanding of postmating, prezygotic reproductive barriers. Journal of Proteomics, 2016, 135, 26-37.	1.2	36
96	Oocyte activation deficiency: a role for an oocyte contribution?. Human Reproduction Update, 2016, 22, 23-47.	5.2	110
97	The challenges involved in elucidating the molecular basis of spermâ€“egg recognition in mammals and approaches to overcome them. Cell and Tissue Research, 2016, 363, 227-235.	1.5	22
98	From molecules to mating: Rapid evolution and biochemical studies of reproductive proteins. Journal of Proteomics, 2016, 135, 12-25.	1.2	101
99	Growth arrest specific 1 (Gas1) and glial cell line-derived neurotrophic factor receptor Î±1 (GfrÎ±1), two mouse oocyte glycosylphosphatidylinositol-anchored proteins, are involved in fertilisation. Reproduction, Fertility and Development, 2017, 29, 824.	0.1	3
100	Zinc sparks induce physiochemical changes in the egg zona pellucida that prevent polyspermy. Integrative Biology (United Kingdom), 2017, 9, 135-144.	0.6	72
101	Polyspermy barriers: a plant perspective. Current Opinion in Plant Biology, 2017, 35, 131-137.	3.5	25
102	Arabidopsis HAP2/GCS1 is a gamete fusion protein homologous to somatic and viral fusogens. Journal of Cell Biology, 2017, 216, 571-581.	2.3	93
104	The Ancient Gamete Fusogen HAP2 Is a Eukaryotic Class II Fusion Protein. Cell, 2017, 168, 904-915.e10.	13.5	151
105	Signaling-Mediated Control of Cell Division. Results and Problems in Cell Differentiation, 2017, , .	0.2	1
106	Oocyte Activation and Fertilisation: Crucial Contributors from the Sperm and Oocyte. Results and Problems in Cell Differentiation, 2017, 59, 213-239.	0.2	51
107	Exosomes versus microexosomes: Shared components but distinct functions. Journal of Plant Research, 2017, 130, 479-483.	1.2	10
108	Melatonin protects oocyte quality from Bisphenol Aâ€induced deterioration in the mouse. Journal of Pineal Research, 2017, 62, e12396.	3.4	74
109	Protein biomarkers for male artificial insemination subfertility in bovine spermatozoa. Reproductive Medicine and Biology, 2017, 16, 89-98.	1.0	25
110	â€œFusionâ€•in fertilization: interdisciplinary collaboration among plant and animal scientists. Journal of Plant Research, 2017, 130, 419-421.	1.2	2

#	Article	IF	Citations
111	Food Intake Affects Sperm-Egg Fusion Through the GIP/PSG17 Axis in Mice. Endocrinology, 2017, 158, 2134-2144.	1.4	4
112	Structural Basis of Egg Coat-Sperm Recognition at Fertilization. Cell, 2017, 169, 1315-1326.e17.	13.5	78
113	Sex at Atomic Resolution. Cell, 2017, 169, 1174-1176.	13.5	0
114	Sperm chemorepulsion, a supplementary mechanism to regulate fertilization. Human Reproduction, 2017, 32, 1560-1573.	0.4	18
115	Metalloproteinases in extracellular vesicles. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1989-2000.	1.9	114
116	Evolution of the fusogenic activity of the receptor FGFRL1. Archives of Biochemistry and Biophysics, 2017, 625-626, 54-64.	1.4	5
117	Sperm-oocyte contact induces outside-in signaling via PYK2 activation. Developmental Biology, 2017, 428, 52-62.	0.9	12
118	Melatonin improves the fertilization ability of post-ovulatory aged mouse oocytes by stabilizing ovastacin and Juno to promote sperm binding and fusion. Human Reproduction, 2017, 32, 598-606.	0.4	47
119	Early ovariectomy reveals the germline encoding of natural antiâ€Aâ€•and Tnâ€crossâ€•reactive immunoglobulin M (IgM) arising from developmental Oâ€GalNAc glycosylations. (Germlineâ€•encoded natural antiâ€A/Tn crossâ€•reactive IgM). Cancer Medicine, 2017, 6, 1601-1613.	1.3	8
120	Chemical and physical guidance of fish spermatozoa into the egg through the micropyleâ€,â€¡. Biology of Reproduction, 2017, 96, 780-799.	1.2	67
121	Deficiency in Spermâ€“Egg Protein Interaction as a Major Cause of Fertilization Failure. Journal of Membrane Biology, 2017, 250, 133-144.	1.0	2
122	Relationship between CD4 Regulatory T Cells and Anergy In Vivo. Journal of Immunology, 2017, 198, 2527-2533.	0.4	73
123	Spermatozoa as Functional Components of Robotic Microswimmers. Advanced Materials, 2017, 29, 1606301.	11.1	125
124	Female-induced remote regulation of sperm physiology may provide opportunities for gamete-level mate choice. Evolution; International Journal of Organic Evolution, 2017, 71, 238-248.	1.1	24
125	Extracellular Vesicles: Unique Intercellular Delivery Vehicles. Trends in Cell Biology, 2017, 27, 172-188.	3.6	1,087
126	Novel insights into the molecular mechanism of spermâ€“egg fusion via IZUMO1. Journal of Plant Research, 2017, 130, 475-478.	1.2	10
127	Mutations in folate transporter genes and risk for human myelomeningocele. American Journal of Medical Genetics, Part A, 2017, 173, 2973-2984.	0.7	17
128	Fertilization 1: Spermâ€“Egg Interaction. Advances in Experimental Medicine and Biology, 2017, 1001, 91-103.	0.8	8

#	Article	IF	Citations
129	Intracellular activation of ovastacin mediates pre-fertilization hardening of the zona pellucida. Molecular Human Reproduction, 2017, 23, 607-616.	1.3	30
130	PLCÎ¶ is the physiological trigger of the Ca2+ oscillations that induce embryogenesis in mammals but offspring can be conceived in its absence. Development (Cambridge), 2017, 144, 2914-2924.	1.2	95
131	Subfertility in bulls carrying a nonsense mutation in transmembrane protein 95 is due to failure to interact with the oocyte vestmentsâ€. Biology of Reproduction, 2017, 97, 50-60.	1.2	22
132	A Cell Fusion-Based Screening Method Identifies Glycosylphosphatidylinositol-Anchored Protein Ly6e as the Receptor for Mouse Endogenous Retroviral Envelope Syncytin-A. Journal of Virology, 2017, 91, .	1.5	24
133	Immune Infertility. , 2017, , .		1
134	Antisperm Contraceptive Vaccine. , 2017, , 249-261.		3
135	Recombinant fetuin-B protein maintains high fertilization rate in cumulus cell-free mouse oocytes. Molecular Human Reproduction, 2017, 23, 25-33.	1.3	18
136	Oviduct: roles in fertilization and early embryo development. Journal of Endocrinology, 2017, 232, R1-R26.	1.2	175
137	Down-regulation of the liver-derived plasma protein fetuin-B mediates reversible female infertility. Molecular Human Reproduction, 2017, 23, 34-44.	1.3	22
138	The hallmarks of cell-cell fusion. Development (Cambridge), 2017, 144, 4481-4495.	1.2	148
139	Gamete compatibility genes in mammals: candidates, applications and a potential path forward. Royal Society Open Science, 2017, 4, 170577.	1.1	15
140	Structure of IZUMO1-JUNO Reveals Sperm-Oocyte Recognition during Mammalian Fertilization. Nihon Kessho Gakkaishi, 2017, 59, 108-113.	0.0	0
141	Maternally Contributed Folate Receptor 1 Is Expressed in Ovarian Follicles and Contributes to Preimplantation Development. Frontiers in Cell and Developmental Biology, 2017, 5, 89.	1.8	8
142	Male infertility-related molecules involved in sperm-oocyte fusion. Journal of Reproduction and Development, 2017, 63, 1-7.	0.5	10
143	Location and expression of Juno in mice oocytes during maturation. Jornal Brasileiro De Reproducao Assistida, 2017, 21, 321-326.	0.3	8
144	Review: Spermâ€“oocyte interactions and their implications for bull fertility, with emphasis on the ubiquitinâ€“proteasome system. Animal, 2018, 12, s121-s132.	1.3	21
145	Spermâ€“egg interaction and fertilization: past, present, and future. Biology of Reproduction, 2018, 99, 134-146.	1.2	50
146	Egg CD9 protein tides correlated with sperm oscillations tune the gamete fusion ability in mammal. Journal of Molecular Cell Biology, 2018, 10, 494-502.	1.5	14

#	Article	IF	Citations
147	Heat stress responses in spermatozoa: Mechanisms and consequences for cattle fertility. Theriogenology, 2018, 113, 102-112.	0.9	71
148	Chemical signaling for pollen tube guidance at a glance. Journal of Cell Science, 2018, 131, .	1.2	64
149	Folate action in nervous system development and disease. Developmental Neurobiology, 2018, 78, 391-402.	1.5	66
150	Solution structure of sperm lysin yields novel insights into molecular dynamics of rapid protein evolution. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1310-1315.	3.3	14
151	Presence of aggregates of smooth endoplasmic reticulum in MII oocytes affects oocyte competence: molecular-based evidence. Molecular Human Reproduction, 2018, 24, 310-317.	1.3	18
152	Homozygous Mutations in WEE2 Cause Fertilization Failure and Female Infertility. American Journal of Human Genetics, 2018, 102, 649-657.	2.6	129
154	Melatonin improves the fertilization capacity and developmental ability of bovine oocytes by regulating cytoplasmic maturation events. Journal of Pineal Research, 2018, 64, e12445.	3.4	86
155	BaP exposure causes oocyte meiotic arrest and fertilization failure to weaken female fertility. FASEB Journal, 2018, 32, 342-352.	0.2	56
156	Cellâ€“cell communications and molecular mechanisms in plant sexual reproduction. Journal of Plant Research, 2018, 131, 37-47.	1.2	8
157	Evaluation of protein phosphorylation in bull sperm during their maturation in the epididymis. Cell and Tissue Research, 2018, 371, 365-373.	1.5	7
158	Mutational analysis of IZUMO1R in women with fertilization failure and polyspermy after in vitro fertilization. Journal of Assisted Reproduction and Genetics, 2018, 35, 539-544.	1.2	19
159	Vectored gene delivery for lifetime animal contraception: Overview and hurdles to implementation. Theriogenology, 2018, 112, 63-74.	0.9	13
160	Capacitation in Plant and Animal Fertilization. Trends in Plant Science, 2018, 23, 129-139.	4.3	12
164	Sexual Reproduction: Preventing Re-fertilization in Fission Yeast. Current Biology, 2018, 28, R1300-R1303.	1.8	0
165	Pooled extracellular receptor-ligand interaction screening using CRISPR activation. Genome Biology, 2018, 19, 205.	3.8	44
166	Producing Gametes. , 0, , 4-23.		0
167	Gamete Structure: Egg, Comparative Vertebrate. , 2018, , 204-209.		3
169	Spermâ€“Oocyte Interaction. , 0, , 36-49.		0

#	Article	IF	Citations
170	Oocyte Activation. , 0, , 50-77.		0
171	The Zygote and Early Embryo. , 0, , 86-106.		0
172	Basic Cell Biology. , 0, , 107-118.		0
174	The Players. , 0, , 24-35.		0
175	Origin and Evolution of Biodiversity. , 2018, , .		10
176	The Ly6/uPAR protein Bouncer is necessary and sufficient for species-specific fertilization. Science, 2018, 361, 1029-1033.	6.0	81
177	Matchmaking molecule for egg and sperm. Science, 2018, 361, 974-975.	6.0	3
178	The Dynamics of Fertilization. , 0, , 78-85.		0
179	New Insights into the Molecular Events of Mammalian Fertilization. Trends in Biochemical Sciences, 2018, 43, 818-828.	3.7	25
180	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
181	Beware of memes in the interpretation of your results â€“ lessons from geneâ€disrupted mice in fertilization research. FEBS Letters, 2018, 592, 2673-2679.	1.3	8
182	Monitoring dimeric status of IZUMO1 during the acrosome reaction in living spermatozoon. Cell Cycle, 2018, 17, 1279-1285.	1.3	17
183	Fertilization and the Signaling of Egg Activation. , 2018, , 368-375.		0
184	Gamete-mediated mate choice: towards a more inclusive view of sexual selection. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180836.	1.2	46
185	Mechanisms Involved in Mammalian Gamete Interaction. , 2018, , 279-283.		1
186	The Zona Pellucida Facilitates Fertilization, Blocks Polyspermy and Protects Pre-Implantation Embryos. , 2018, , 294-299.		0
187	Megaloblastic Anemias. , 2018, , 514-545.e7.		3
188	Epi-nutrients in the oviductal environment: Folate levels and differential gene expression of its receptors and transporters in the bovine oviduct. Theriogenology, 2018, 119, 189-197.	0.9	1

#	Article	IF	Citations
189	Discovery of a Human Testis-specific Protein Complex TEX101-DPEP3 and Selection of Its Disrupting Antibodies. Molecular and Cellular Proteomics, 2018, 17, 2480-2495.	2.5	25
190	Gamete fusion triggers bipartite transcription factor assembly to block re-fertilization. Nature, 2018, 560, 397-400.	13.7	24
191	Universality and Diversity of a Fast, Electrical Block to Polyspermy During Fertilization in Animals. Diversity and Commonality in Animals, 2018, , 499-533.	0.7	6
192	Regulation of Sperm-Egg Fusion at the Plasma Membrane. Diversity and Commonality in Animals, 2018, , 549-568.	0.7	0
193	Fertilization and Protein Tyrosine Kinase Signaling: Are They Merging or Emerging?. Diversity and Commonality in Animals, 2018, , 569-589.	0.7	1
194	The Human Egg's Zona Pellucida. Current Topics in Developmental Biology, 2018, 130, 379-411.	1.0	53
195	The Mouse Egg's Zona Pellucida. Current Topics in Developmental Biology, 2018, 130, 331-356.	1.0	43
196	Assisted Reproduction. , 2019, , 779-822.e16.		5
197	Coenzyme Q10 ameliorates the quality of postovulatory aged oocytes by suppressing DNA damage and apoptosis. Free Radical Biology and Medicine, 2019, 143, 84-94.	1.3	60
198	GSTM3, but not IZUMO1, is a cryotolerance marker of boar sperm. Journal of Animal Science and Biotechnology, 2019, 10, 61.	2.1	30
199	The molecular mechanisms mediating mammalian fertilization. Development (Cambridge), 2019, 146, .	1.2	36
200	Reproductive toxicity of acute Cd exposure in mouse: Resulting in oocyte defects and decreased female fertility. Toxicology and Applied Pharmacology, 2019, 379, 114684.	1.3	58
201	Oocyte Activation Deficiency and Advances to Overcome. , 2019, , 429-445.		2
202	High-Content Imaging for Large-Scale Detection of Low-Affinity Extracellular Protein Interactions. SLAS Discovery, 2019, 24, 987-999.	1.4	12
203	GLIPR1L1 is an IZUMO-binding protein required for optimal fertilization in the mouse. BMC Biology, 2019, 17, 86.	1.7	20
204	Life cycle progression and sexual development of the apicomplexan parasite Cryptosporidium parvum. Nature Microbiology, 2019, 4, 2226-2236.	5.9	118
205	Sperm IZUMO1-Dependent Gamete Fusion Influences Male Fertility in Mice. International Journal of Molecular Sciences, 2019, 20, 4809.	1.8	6
206	Phosphatidylserine on viable sperm and phagocytic machinery in oocytes regulate mammalian fertilization. Nature Communications, 2019, 10, 4456.	5.8	43

#	Article	IF	Citations
207	LLG2/3 Are Co-receptors in BUPS/ANX-RALF Signaling to Regulate Arabidopsis Pollen Tube Integrity. Current Biology, 2019, 29, 3256-3265.e5.	1.8	87
208	Mouse TMCO5 is localized to the manchette microtubules involved in vesicle transfer in the elongating spermatids. PLoS ONE, 2019, 14, e0220917.	1.1	3
209	Exosomes. Annual Review of Biochemistry, 2019, 88, 487-514.	5.0	1,570
210	Roles for Golgi Glycans in Oogenesis and Spermatogenesis. Frontiers in Cell and Developmental Biology, 2019, 7, 98.	1.8	14
211	Expression Analysis of IZUMO1 Gene during Testicular Development of Datong Yak (Bos Grunniens). Animals, 2019, 9, 292.	1.0	3
212	How cells fuse. Journal of Cell Biology, 2019, 218, 1436-1451.	2.3	133
213	Detecting coevolution of positively selected in turtles sperm-egg fusion proteins. Mechanisms of Development, 2019, 156, 1-7.	1.7	6
214	Intrathecal Delivery of Folate Conjugated near-Infrared Quantum Dots for Targeted in Vivo Imaging of Gliomas in Mice Brains. ACS Applied Bio Materials, 2019, 2, 1432-1439.	2.3	10
215	Alternative splicing of the Izumo1 gene ensures triggering gamete fusion in mice. Scientific Reports, 2019, 9, 3151.	1.6	5
216	Mammalian spermatozoa and cumulus cells bind to a 3D model generated by recombinant zona pellucida protein-coated beads. Scientific Reports, 2019, 9, 17989.	1.6	7
217	The antagonism of folate receptor by dolutegravir. Aids, 2019, 33, 1967-1976.	1.0	31
218	Identification of the Receptor Used by the Ecotropic Mouse GLN Endogenous Retrovirus. Journal of Virology, 2019, 93, .	1.5	6
219	JUNO, the receptor of sperm IZUMO1, is expressed by the human oocyte and is essential for human fertilisation. Human Reproduction, 2019, 34, 118-126.	0.4	30
220	Detection of CD9 and CD81 tetraspanins in bovine and porcine oocytes and embryos. International Journal of Biological Macromolecules, 2019, 123, 931-938.	3.6	10
221	Approaches to identify extracellular receptorâ€“ligand interactions. Current Opinion in Structural Biology, 2019, 56, 28-36.	2.6	16
222	RNA-seq coupled to proteomic analysis reveals high sperm proteome variation between two closely related marine mussel species. Journal of Proteomics, 2019, 192, 169-187.	1.2	14
223	The domestic pig as a model for the study of mitochondrial inheritance. Cell and Tissue Research, 2020, 380, 263-271.	1.5	17
224	Compensatory endocytosis occurs after cortical granule exocytosis in mouse eggs. Journal of Cellular Physiology, 2020, 235, 4351-4360.	2.0	6

#	Article	IF	Citations
225	Species-specific mechanisms during fertilization. Current Topics in Developmental Biology, 2020, 140, 121-144.	1.0	7
226	Perfect dateâ€"the review of current research into molecular bases of mammalian fertilization. Journal of Assisted Reproduction and Genetics, 2020, 37, 243-256.	1.2	7
227	Roles of glycogen synthase kinase 3 alpha and calcineurin in regulating the ability of sperm to fertilize eggs. FASEB Journal, 2020, 34, 1247-1269.	0.2	9
228	Inhibition of lysine-specific histone demethylase 1A results in meiotic aberration during oocyte maturation inÂvitro in goats. Theriogenology, 2020, 143, 168-178.	0.9	16
229	Twice the fun, double the trouble: gamete interactions in flowering plants. Current Opinion in Plant Biology, 2020, 53, 106-116.	3.5	36
230	Addition of exogenous proteins detected in oviductal secretions to inÂvitro culture medium does not improve the efficiency of inÂvitro fertilization in pigs. Theriogenology, 2020, 157, 490-497.	0.9	4
231	Molecular mechanisms and evolution of fertilization proteins. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2021, 336, 652-665.	0.6	18
232	Characterizing Extracellular Vesicles and Their Diverse RNA Contents. Frontiers in Genetics, 2020, 11, 700.	1.1	150
233	Unveiling a novel function of CD9 in surface compartmentalization of oocytes. Development (Cambridge), 2020, 147, .	1.2	22
234	Rapid and sensitive large-scale screening of low affinity extracellular receptor protein interactions by using reaction induced inhibition of Gaussia luciferase. Scientific Reports, 2020, 10, 10522.	1.6	8
235	A Bibliometric analysis of folate receptor research. BMC Cancer, 2020, 20, 1109.	1.1	10
236	Partial Sperm beta1 Integrin Subunit Deletion Proves Its Involvement in Mouse Gamete Adhesion/Fusion. International Journal of Molecular Sciences, 2020, 21, 8494.	1.8	9
237	Zinc protection of fertilized eggs is an ancient feature of sexual reproduction in animals. PLoS Biology, 2020, 18, e3000811.	2.6	11
238	The enigmatic sperm proteins in mammalian fertilization: an overviewâ€. Biology of Reproduction, 2020, 103, 1171-1185.	1.2	10
239	Cortical Granule Distribution and Expression Pattern of Genes Regulating Cellular Component Size, Morphogenesis, and Potential to Differentiation are Related to Oocyte Developmental Competence and Maturational Capacity In Vivo and In Vitro. Genes, 2020, 11, 815.	1.0	10
240	Viruses in the reproductive tract: On their way to the germ line?. Virus Research, 2020, 286, 198101.	1.1	8
241	Proteomic comparison of non-sexed and sexed (X-bearing) cryopreserved bull semen. Animal Reproduction Science, 2020, 221, 106552.	0.5	10
242	Looking back and looking forward: contributions of electron microscopy to the structural cell biology of gametes and fertilization. Open Biology, 2020, 10, 200186.	1.5	4

#	Article	IF	Citations
243	Bridging the GAPs in plant reproduction: a comparison of plant and animal GPI-anchored proteins. Plant Reproduction, 2020, 33, 129-142.	1.3	15
244	From Sperm Motility to Sperm-Borne microRNA Signatures: New Approaches to Predict Male Fertility Potential. Frontiers in Cell and Developmental Biology, 2020, 8, 791.	1.8	41
245	Maternal control of gamete choice during fertilization. International Journal of Developmental Biology, 2020, 64, 175-180.	0.3	2
246	Sperm proteins SOF1, TMEM95, and SPACA6 are required for spermâˆ'oocyte fusion in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11493-11502.	3.3	111
247	Folate Receptor Î² (FRÎ²) Expression in Tissue-Resident and Tumor-Associated Macrophages Associates with and Depends on the Expression of PU.1. Cells, 2020, 9, 1445.	1.8	18
248	Cell Surface Receptor Identification Using Genome-Scale CRISPR/Cas9 Genetic Screens. Journal of Visualized Experiments, 2020, , .	0.2	4
249	DPAGT1â€Mediated Protein Nâ€Glycosylation Is Indispensable for Oocyte and Follicle Development in Mice. Advanced Science, 2020, 7, 2000531.	5.6	19
250	Exploiting the folate receptor Î± in oncology. Nature Reviews Clinical Oncology, 2020, 17, 349-359.	12.5	262
251	Sperm SPACA6 protein is required for mammalian Sperm-Egg Adhesion/Fusion. Scientific Reports, 2020, 10, 5335.	1.6	63
252	Porcine model for the study of sperm capacitation, fertilization and male fertility. Cell and Tissue Research, 2020, 380, 237-262.	1.5	35
253	JUNO protein coated beads: A potential tool to predict bovine sperm fertilizing ability. Theriogenology, 2020, 155, 168-175.	0.9	8
254	Virus and eukaryote fusogen superfamilies. Current Biology, 2020, 30, R750-R754.	1.8	36
255	Toward the understanding of biology of oocyte life cycle in Xenopus Laevis: No oocytes left behind. Reproductive Medicine and Biology, 2020, 19, 114-119.	1.0	8
256	Insights into the roles of sperm in animal cloning. Stem Cell Research and Therapy, 2020, 11, 65.	2.4	14
257	Adhesion molecules in gamete transport, fertilization, early embryonic development, and implantationâ€"role in establishing a pregnancy in cattle: A review. Molecular Reproduction and Development, 2020, 87, 206-222.	1.0	23
258	Melatonin ameliorates the fertilization capacity of oocytes exposed to 17Î±-ethynylestradiol. Reproductive Toxicology, 2020, 93, 61-67.	1.3	7
259	Mammalian egg coat modifications and the block to polyspermy. Molecular Reproduction and Development, 2020, 87, 326-340.	1.0	44
260	Preventing polyspermy in mammalian eggsâ€"Contributions of the membrane block and other mechanisms. Molecular Reproduction and Development, 2020, 87, 341-349.	1.0	28

#	Article	IF	Citations
261	Spermatozoa lacking Fertilization Influencing Membrane Protein (FIMP) fail to fuse with oocytes in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9393-9400.	3.3	74
262	CRISPR/Cas9-Mediated Genome Editing Reveals Oosp Family Genes are Dispensable for Female Fertility in Mice. Cells, 2020, 9, 821.	1.8	9
263	Sperm Proteomics Analysis of Diabetic Induced Male Rats as Influenced by Ficus carica Leaf Extract. Processes, 2020, 8, 395.	1.3	9
264	The role of extracellular vesicles in skeletal muscle and systematic adaptation to exercise. Journal of Physiology, 2021, 599, 845-861.	1.3	76
266	Detection of membrane receptors on per tumor cell by nonimmobilized cell capillary electrophoresis and a mathematic model. Talanta, 2021, 222, 121425.	2.9	3
267	Perspectives of Methotrexate-Based Radioagents for Application in Nuclear Medicine. Molecular Pharmaceutics, 2021, 18, 33-43.	2.3	3
268	Role of Exosomes in Biological Communication Systems. , 2021, , .		10
269	Molecular genetics of infertility: loss-of-function mutations in humans and corresponding knockout/mutated mice. Human Reproduction Update, 2021, 27, 154-189.	5.2	122
270	Chromatin remodeling of the male genome during spermiogenesis and embryo development. , 2021, , 47-67.		3
271	The combination treatment of cholesterolâ€loaded methylâ€²â€cyclodextrin and methylâ€²â€cyclodextrin significantly improves the fertilization capacity of vitrified bovine oocytes by protecting fertilization protein JUNO. Reproduction in Domestic Animals, 2021, 56, 519-530.	0.6	8
272	The role of extracellular vesicles throughout normal pregnancy and in relation to oral bacteria. Journal of Oral Biosciences, 2021, 63, 14-22.	0.8	3
273	Expression, structure and function analysis of the sperm-oocyte fusion genes Juno and Izumo1 in sheep (Ovis aries). Journal of Animal Science and Biotechnology, 2021, 12, 37.	2.1	4
274	Spermâ€“oocyte signaling: the role of IZUMO1R and CD9 in PTK2B activation and actin remodeling at the sperm binding site. Biology of Reproduction, 2021, 104, 1292-1301.	1.2	8
275	Extracellular Vesicles: Novel Opportunities to Understand and Detect Neoplastic Diseases. Veterinary Pathology, 2021, 58, 453-471.	0.8	13
276	2,4â€ÐCP compromises the fertilization capacity of mouse oocytes. Journal of Cellular Physiology, 2021, 236, 7605-7611.	2.0	4
278	Evolutionarily conserved sperm factors, DCST1 and DCST2, are required for gamete fusion. ELife, 2021, 10, .	2.8	51
279	Genetic factors as potential molecular markers of human oocyte and embryo quality. Journal of Assisted Reproduction and Genetics, 2021, 38, 993-1002.	1.2	47
281	Oolemma Receptors in Mammalian Molecular Fertilization: Function and New Methods of Study. Frontiers in Cell and Developmental Biology, 2021, 9, 662032.	1.8	1

#	Article	IF	Citations
282	Evolutionary, proteomic, and experimental investigations suggest the extracellular matrix of cumulus cells mediates fertilization outcomesâ€. Biology of Reproduction, 2021, 105, 1043-1055.	1.2	7
283	Selenofolate inhibits the proliferation of IGROV1 cancer cells independently from folate receptor alpha. Heliyon, 2021, 7, e07254.	1.4	4
284	Evaluation of multi-epitope recombinant protein as a candidate for a contraceptive vaccine. Journal of Reproductive Immunology, 2021, 145, 103325.	0.8	7
285	Advancements in folate receptor targeting for anti-cancer therapy: A small molecule-drug conjugate approach. Bioorganic Chemistry, 2021, 112, 104946.	2.0	33
287	Species-specific gamete recognition initiates fusion-driving trimer formation by conserved fusogen HAP2. Nature Communications, 2021, 12, 4380.	5.8	16
288	Physiological factors influencing female fertility in birds. Royal Society Open Science, 2021, 8, 202274.	1.1	13
289	Protein Identification of Spermatozoa and Seminal Plasma in Bottlenose Dolphin (Tursiops truncatus). Frontiers in Cell and Developmental Biology, 2021, 9, 673961.	1.8	4
290	Oviduct fluid during IVF moderately modulates polyspermy in inÂvitro-produced goat embryos during the non-breeding season. Theriogenology, 2021, 168, 59-65.	0.9	7
292	The Fertilization Enigma: How Sperm and Egg Fuse. Annual Review of Cell and Developmental Biology, 2021, 37, 391-414.	4.0	26
293	RanGTP and the actin cytoskeleton keep paternal and maternal chromosomes apart during fertilization. Journal of Cell Biology, 2021, 220, .	2.3	15
294	Folate Receptor-Mediated siRNA Delivery: Recent Developments and Future Directions for RNAi Therapeutics. Nucleic Acid Therapeutics, 2021, 31, 245-270.	2.0	30
296	The cell biology of fertilization: Gamete attachment and fusion. Journal of Cell Biology, 2021, 220, .	2.3	22
297	Preventing aneuploidy: The groom must wait until the bride is ready. Journal of Cell Biology, 2021, 220, .	2.3	0
298	Exosomal Proteins and miRNAs as Mediators of Amyotrophic Lateral Sclerosis. Frontiers in Cell and Developmental Biology, 2021, 9, 718803.	1.8	9
299	The conserved fertility factor SPACA4/Bouncer has divergent modes of action in vertebrate fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
301	Knockinâ€™ on Eggâ€™s Door: Maternal Control of Egg Activation That Influences Cortical Granule Exocytosis in Animal Species. Frontiers in Cell and Developmental Biology, 2021, 9, 704867.	1.8	13
302	Genetic incompatibility of the reproductive partners: an evolutionary perspective on infertility. Human Reproduction, 2021, 36, 3028-3035.	0.4	14
303	Extracellular vesicles and female reproduction. Journal of Assisted Reproduction and Genetics, 2021, 38, 549-557.	1.2	17

#	Article	IF	Citations
304	Specific lectin binding sites during inÂvitro capacitation and acrosome reaction in boar spermatozoa. Italian Journal of Animal Science, 2021, 20, 372-382.	0.8	2
305	Spermâ€Binding Assay Using an In Vitro 3D Model of the Mammalian Cumulusâ€Oocyte Complex. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2020, 86, e100.	1.1	2
306	The molecular underpinnings of fertility: Genetic approaches in Caenorhabditis elegans. Genetics & Genomics Next, 2021, 2, e10034.	0.8	7
307	Immunoglobulin-Like Domains Have an Evolutionarily Conserved Role During Gamete Fusion in C. elegans and Mouse. , 2018, , 163-179.		3
308	Characterization and Fine Structure of Exosomes. , 2021, , 27-75.		2
313	Reproductive Multitasking: The Female Gametophyte. Annual Review of Plant Biology, 2020, 71, 517-546.	8.6	47
314	The Female Response to Seminal Fluid. Physiological Reviews, 2020, 100, 1077-1117.	13.1	98
315	Direct recognition of hepatocyte-expressed MHC class I alloantigens is required for tolerance induction. JCI Insight, 2018, 3, .	2.3	11
316	Find and fuse: Unsolved mysteries in spermâ€“egg recognition. PLoS Biology, 2020, 18, e3000953.	2.6	38
317	Melamine Impairs Female Fertility via Suppressing Protein Level of Juno in Mouse Eggs. PLoS ONE, 2015, 10, e0144248.	1.1	10
318	Free cholesterol and cholesterol esters in bovine oocytes: Implications in survival and membrane raft organization after cryopreservation. PLoS ONE, 2017, 12, e0180451.	1.1	13
319	Do Gametes Woo? Evidence for Their Nonrandom Union at Fertilization. Genetics, 2017, 207, 369-387.	1.2	23
321	Evaluation of the proteomic profiles of ejaculated spermatozoa from Saanen bucks (Capra hircus). Animal Reproduction, 2019, 16, 902-913.	0.4	5
322	Unraveling the intricacies of mammalian fertilization. Asian Journal of Andrology, 2014, 16, 801.	0.8	9
323	Odyssey of the spermatozoon. Asian Journal of Andrology, 2015, 17, 522.	0.8	9
324	Advantages of using the CRISPR/Cas9 system of genome editing to investigate male reproductive mechanisms using mouse models. Asian Journal of Andrology, 2015, 17, 623.	0.8	11
325	TMEM95 is a sperm membrane protein essential for mammalian fertilization. ELife, 2020, 9, .	2.8	75
327	Glycocalyx Curving the Membrane: Forces Emerging from the Cell Exterior. Annual Review of Cell and Developmental Biology, 2021, 37, 257-283.	4.0	19

#	Article	IF	Citations
328	Same gene, opposite sexes: Sex-specific divergent expression of a gene required for vertebrate fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	0
329	Scientists find protein that unites sperm and egg. Nature, 0, , .	13.7	0
330	Fertilization Failure is Not Associated with Sperm Motility Following Human In vitro Fertilization. Obstetrics & Gynecology International Journal, 2014, 1, .	0.0	2
332	Sperm Functions Influenced by Immune Reactions. , 2017, , 77-93.		0
338	The Human Spermatozoa. , 0, , 65-73.		0
340	The Biology of Fertilization. , 0, , 75-92.		0
341	Fusion-phenomenon in normal histogenesis and in pathology: part 1. Genes and Cells, 2018, 13, 13-21.	0.2	0
342	Zona pellucida: structure, functions, properties (literature review). Russian Journal of Human Reproduction, 2019, 25, 104.	0.1	1
343	Human Contraceptives: Current Status, Sperm Antigen Inhibitors and an Insight into PCSK4. , 0, , .		0
346	Role of Integrins in Sperm Activation and Fertilization. International Journal of Molecular Sciences, 2021, 22, 11809.	1.8	10
347	Chapter 7 Gametogenesis, Spawning, and Fertilization in Bivalves and Other Protostomes. , 2020, , 113-165.		0
348	Recovery of Sea Star Egg Cell Surface Proteins Released at Fertilization. Methods in Molecular Biology, 2021, 2219, 151-161.	0.4	0
349	Â«ÂIt is a piece that fits into anotherÂÂ»: Sexual health education and the normalization of bodies in Western Switzerland. Genre, SexualitÃ© Et SociÃ©tÃ©, 2020, , .	0.2	0
350	Three pro-nuclei (3PN) incidence factors and clinical outcomes: a retrospective study from the fresh embryo transfer of in vitro fertilization with donor sperm (IVF-D). International Journal of Clinical and Experimental Medicine, 2015, 8, 13997-4003.	1.3	8
351	Extracellular vesicles in Inter-Kingdom communication in gastrointestinal cancer. American Journal of Cancer Research, 2021, 11, 1087-1103.	1.4	2
352	MAR1 links membrane adhesion to membrane merger during cell-cell fusion in Chlamydomonas. Developmental Cell, 2021, 56, 3380-3392.e9.	3.1	15
353	Cellular and Molecular Events after ICSI in Clinically Relevant Animal Models. , 2021, , 103-113.		0
354	Gamete Fusion Assay in Mice. Bio-protocol, 2021, 11, e4233.	0.2	0

#	Article	IF	Citations
356	Fusexins, HAP2/GCS1 and Evolution of Gamete Fusion. Frontiers in Cell and Developmental Biology, 2021, 9, 824024.	1.8	14
357	10. Cellules germinales, fÃ©condation et dÃ©terminisme du sexe. , 2017, , 409-445.		0
358	Diagnostic Semen Analysis. , 2022, , 1543-1548.		0
359	Sperm IZUMO1 Is Required for Binding Preceding Fusion With Oolemma in Mice and Rats. Frontiers in Cell and Developmental Biology, 2021, 9, 810118.	1.8	10
360	Emerging roles for folate receptor FOLR1 in signaling and cancer. Trends in Endocrinology and Metabolism, 2022, 33, 159-174.	3.1	49
361	The Importance of Gene Duplication and Domain Repeat Expansion for the Function and Evolution of Fertilization Proteins. Frontiers in Cell and Developmental Biology, 2022, 10, 827454.	1.8	8
362	Pioneer Role of Extracellular Vesicles as Modulators of Cancer Initiation in Progression, Drug Therapy, and Vaccine Prospects. Cells, 2022, 11, 490.	1.8	21
363	Transglutaminase 2 crosslinks zona pellucida glycoprotein 3 to prevent polyspermy. Cell Death and Differentiation, 2022, 29, 1466-1473.	5.0	4
364	Cell Fusion-Related Proteins and Signaling Pathways, and Their Roles in the Development and Progression of Cancer. Frontiers in Cell and Developmental Biology, 2021, 9, 809668.	1.8	15
366	Molecular tools for the genomic assessment of oocyteâ€™s reproductive competence. Journal of Assisted Reproduction and Genetics, 2022, , 1.	1.2	1
368	High Resolution Proteomic Analysis of Subcellular Fractionated Boar Spermatozoa Provides Comprehensive Insights Into Perinuclear Theca-Residing Proteins. Frontiers in Cell and Developmental Biology, 2022, 10, 836208.	1.8	16
369	Recurrent Co-Option and Recombination of Cytokine and Three Finger Proteins in Multiple Reproductive Tissues Throughout Salamander Evolution. Frontiers in Cell and Developmental Biology, 2022, 10, 828947.	1.8	1
371	Oocyte maturation abnormalities - A systematic review of the evidence and mechanisms in a rare but difficult to manage fertility pheneomina. TâˆšÂºrk Jinekoloji Ve Obstetrik Dernei Dergisi, 2022, 19, 60-80.	0.3	5
372	Involvement of cellular protrusions in gamete interactions. Seminars in Cell and Developmental Biology, 2022, , .	2.3	4
373	Production of Pigs From Porcine Embryos Generated in vitro. Frontiers in Animal Science, 2022, 3, .	0.8	10
374	Oocyte ERM and EWI Proteins Are Involved in Mouse Fertilization. Frontiers in Cell and Developmental Biology, 2022, 10, 863729.	1.8	3
375	Mysteries and unsolved problems of mammalian fertilization and related topics. Biology of Reproduction, 2022, 106, 644-675.	1.2	25
377	Neoexpression of JUNO in Oral Tumors Is Accompanied with the Complete Suppression of Four Other Genes and Suggests the Application of New Biomarker Tools. Journal of Personalized Medicine, 2022, 12, 494.	1.1	1

#	Article	IF	Citations
378	Microglia Polarization: A Novel Target of Exosome for Stroke Treatment. Frontiers in Cell and Developmental Biology, 2022, 10, 842320.	1.8	16
379	Sperm membrane proteins DCST1 and DCST2 are required for sperm-egg interaction in mice and fish. Communications Biology, 2022, 5, 332.	2.0	21
380	Paraâ€phenylenediamine deteriorates oocyte quality by impairing mitochondrial function. Environmental Toxicology, 2022, 37, 1803-1813.	2.1	4
381	Recurrent Duplication and Diversification of Acrosomal Fertilization Proteins in Abalone. Frontiers in Cell and Developmental Biology, 2022, 10, 795273.	1.8	3
382	The Role of Sperm Proteins IZUMO1 and TMEM95 in Mammalian Fertilization: A Systematic Review. International Journal of Molecular Sciences, 2022, 23, 3929.	1.8	4
384	Genetic diversity in the IZUMO1-JUNO protein-receptor pair involved in human reproduction. PLoS ONE, 2021, 16, e0260692.	1.1	3
385	Membrane Remodeling and Matrix Dispersal Intermediates During Mammalian Acrosomal Exocytosis. Frontiers in Cell and Developmental Biology, 2021, 9, 765673.	1.8	3
386	Evaluation of Global DNA Methylation and Gene Expression of Izumo1 and Izumo1r in Gonads after High- and Low-Dose Radiation in Neonatal Mice. Biology, 2021, 10, 1270.	1.3	0
387	In silico Docking Analysis for Blocking JUNOâ€IZUMO1 Interaction Identifies Two Small Molecules that Block in vitro Fertilization. Frontiers in Cell and Developmental Biology, 2022, 10, 824629.	1.8	4
388	The Sperm Olfactory Receptor OLFR601 is Dispensable for Mouse Fertilization. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	2
389	Live imaging-based assay for visualising species-specific interactions in gamete adhesion molecules. Scientific Reports, 2022, 12, .	1.6	4
391	Mechanisms of Spermâ€“Egg Interactions: What Ascidian Fertilization Research Has Taught Us. Cells, 2022, 11, 2096.	1.8	9
392	Role of extracellular vesicles in intercellular communication during reproduction. Reproduction in Domestic Animals, 2022, 57, 14-21.	0.6	7
393	Folate-based radiotracers for nuclear imaging and radionuclide therapy. Coordination Chemistry Reviews, 2022, 470, 214702.	9.5	9
394	Possible involvement of annexin A6 in preferential sperm penetration in the germinal disk region. Reproduction and Fertility, 2022, 3, 152-161.	0.6	0
395	C11orf94/Frey is a key regulator for male fertility by controlling Izumo1 complex assembly. Science Advances, 2022, 8, .	4.7	9
396	A shared, stochastic pathway mediates exosome protein budding along plasma and endosome membranes. Journal of Biological Chemistry, 2022, 298, 102394.	1.6	36
397	Uncovering an ancestral green mÃ©nage Ã trois: Contributions of Chlamydomonas to the discovery of a broadly conserved triad of plant fertilization proteins. Current Opinion in Plant Biology, 2022, 69, 102275.	3.5	2

#	Article	IF	Citations
399	Editorial: Fertilization in the spotlight: Dynamics and mechanisms of sperm-egg interaction. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	0
400	Implications of High-Density Cholesterol Metabolism for Oocyte Biology and Female Fertility. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	13
401	Multiple roles of neuronal extracellular vesicles in neurological disorders. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	1
402	Study on the expression patterns and function of <scp>JUNO</scp> and <scp>CD9</scp> in bovine oocytes during in vitro maturation. Reproduction in Domestic Animals, 0, , .	0.6	0
403	Human sperm TMEM95 binds eggs and facilitates membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
404	SPACA6 ectodomain structure reveals a conserved superfamily of gamete fusion-associated proteins. Communications Biology, 2022, 5, .	2.0	8
405	MAIA, Fc receptorâ€“like 3, supersedes JUNO as IZUMO1 receptor during human fertilization. Science Advances, 2022, 8, .	4.7	10
407	The vertebrate- and testis- specific transmembrane protein C11ORF94 plays a critical role in sperm-oocyte membrane binding. Molecular Biomedicine, 2022, 3, .	1.7	5
408	OXIDATIVE STRESS AND REPRODUCTIVE FUNCTION: Oxidative stress and in vitro ageing of the post-ovulatory oocyte: an update on recent advances in the field. Reproduction, 2022, 164, F109-F124.	1.1	8
409	Physiologie der Spermienreifung und Fertilisierung. Springer Reference Medizin, 2021, , 1-23.	0.0	0
410	Fertilization, but Not Post-Implantation Development, Can Occur in the Absence of Sperm and Oocyte Beta1 Integrin in Mice. International Journal of Molecular Sciences, 2022, 23, 13812.	1.8	0
411	A novel function for the sperm adhesion protein IZUMO1 in cellâ€“cell fusion. Journal of Cell Biology, 2023, 222, .	2.3	13
412	Biallelic mutations in IQCN, encoding a novel acroplaxome protein, lead to fertilization failure and male infertility with defects in the acrosome and shaping of the spermatid head in humans and mice. , 2023, 2, .		4
413	Eukaryotic fertilization and gamete fusion at a glance. Journal of Cell Science, 2022, 135, .	1.2	8
414	Protocatechuic Acid Delays Postovulatory Oocyte Ageing in Mouse. Molecular Nutrition and Food Research, 2023, 67, .	1.5	2
416	A comprehensive investigation of human endogenous retroviral syncytin proteins and their receptors in men with normozoospermia and impaired semen quality. Journal of Assisted Reproduction and Genetics, 2023, 40, 97-111.	1.2	5
417	Extracellular vesicles: Focus on periâ€implantation period of pregnancy in pigs. Molecular Reproduction and Development, 2023, 90, 634-645.	1.0	2
418	#ESHREjc report: failed fertilization: is genetic incompatibility the elephant in the room?. Human Reproduction, 0, , .	0.4	0

#	Article	IF	Citations
419	Improvement of Fertilization Capacity and Developmental Ability of Vitrified Bovine Oocytes by JUNO mRNA Microinjection and Cholesterol-Loaded Methyl-Î²-Cyclodextrin Treatment. International Journal of Molecular Sciences, 2023, 24, 590.	1.8	1
420	Mammalian fertilization: Does sperm IZUMO1 mediate fusion as well as adhesion?. Journal of Cell Biology, 2023, 222, .	2.3	2
421	Exosomes and ultrasound: The future of theranostic applications. Materials Today Bio, 2023, 19, 100556.	2.6	6
422	Identification of a novel amphioxus leucine-rich repeat receptor involved in phagocytosis reveals a role for Slit2-N-type LRR in bacterial elimination. Journal of Biological Chemistry, 2023, 299, 104689.	1.6	0
423	Mitochondrial activity and redox status in oocytes from old mice: The interplay between maternal and postovulatory aging. Theriogenology, 2023, 204, 18-30.	0.9	1
424	Where are all the egg genes?. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	0
425	Extracellular Vesicles in Cancer Drug Resistance: Implications on Melanoma Therapy. Cancers, 2023, 15, 1074.	1.7	2
426	Reproductive genomics of the mouse: implications for human fertility and infertility. Development (Cambridge), 2023, 150, .	1.2	1
427	Contribution of semen to early embryo development: fertilization and beyond. Human Reproduction Update, 2023, 29, 395-433.	5.2	12
429	Erectile dysfunction and exosome therapy. Frontiers in Endocrinology, 0, 14, .	1.5	1
430	Does smooth endoplasmic reticulum aggregation in oocytes impact the chromosome aneuploidy of the subsequent embryos? A propensity score matching study. Journal of Ovarian Research, 2023, 16, .	1.3	0
431	Treg cells require Izumo1R to regulate Î³Î´T cell-driven inflammation in the skin. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	4
432	Total fertilization failure after ICSI: insights into pathophysiology, diagnosis, and management through artificial oocyte activation. Human Reproduction Update, 2023, 29, 369-394.	5.2	4
433	The pair ceramide 1-phosphate/ceramide kinase regulates intracellular calcium and progesterone-induced human sperm acrosomal exocytosis. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	0
434	New insights into posttranslational modifications of proteins during bull sperm capacitation. Cell Communication and Signaling, 2023, 21, .	2.7	0
435	Germ Cellâ€“Specific Proteins AKAP4 and ASPX Facilitate Identification of Rare Spermatozoa in Non-Obstructive Azoospermia. Molecular and Cellular Proteomics, 2023, 22, 100556.	2.5	3
443	SpermienqualitÃt und Spermienfunktionstests. Springer Reference Medizin, 2023, , 179-194.	0.0	0
444	Physiologie der Spermienreifung und Fertilisierung. Springer Reference Medizin, 2023, , 61-83.	0.0	0

#	Article	IF	Citations
470	Editorial: Editorsâ€™ showcase 2022: insights in molecular and cellular reproduction. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	0
472	Cell Fusion and Syncytia Formation in Cancer. Results and Problems in Cell Differentiation, 2024, , 433-465.	0.2	0
473	Physiology of Sperm Maturation and Fertilization. , 2023, , 55-75.		0
474	Sperm Quality and Sperm Function Tests. , 2023, , 165-180.		0