

Alireza Fazeli

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117
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h-index

52
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134
ext. papers

3,491
ext. citations

3.4
avg, IF

5.16
L-index

#	Paper	IF	Citations
117	Characterization of Toll-like receptors in the female reproductive tract in humans. <i>Human Reproduction</i> , 2005 , 20, 1372-8	5.7	200
116	Sperm-oviduct interaction: induction of capacitation and preferential binding of uncapacitated spermatozoa to oviductal epithelial cells in porcine species. <i>Biology of Reproduction</i> , 1999 , 60, 879-86	3.9	161
115	Sperm-induced modification of the oviductal gene expression profile after natural insemination in mice. <i>Biology of Reproduction</i> , 2004 , 71, 60-5	3.9	133
114	Modulation of the oviductal environment by gametes. <i>Journal of Proteome Research</i> , 2007 , 6, 4656-66	5.6	123
113	Gametes alter the oviductal secretory proteome. <i>Molecular and Cellular Proteomics</i> , 2005 , 4, 1785-96	7.6	123
112	In vitro post-meiotic germ cell development from human embryonic stem cells. <i>Human Reproduction</i> , 2009 , 24, 3150-9	5.7	109
111	The oviduct as a complex mediator of mammalian sperm function and selection. <i>Molecular Reproduction and Development</i> , 2010 , 77, 934-43	2.6	100
110	Menstrual cycle-dependent changes of Toll-like receptors in endometrium. <i>Human Reproduction</i> , 2007 , 22, 586-93	5.7	98
109	The battle of the sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. <i>BMC Genomics</i> , 2014 , 15, 293	4.5	88
108	Acrosome-intact boar spermatozoa initiate binding to the homologous zona pellucida in vitro. <i>Biology of Reproduction</i> , 1997 , 56, 430-8	3.9	86
107	Carbohydrate mediation of boar sperm binding to oviductal epithelial cells in vitro. <i>Reproduction</i> , 2001 , 122, 305-15	3.8	81
106	Progesterone-induced acrosome reaction in stallion spermatozoa is mediated by a plasma membrane progesterone receptor. <i>Biology of Reproduction</i> , 1998 , 59, 733-42	3.9	79
105	Effects of HSPA8, an evolutionarily conserved oviductal protein, on boar and bull spermatozoa. <i>Reproduction</i> , 2009 , 137, 191-203	3.8	71
104	Toll-like receptors in female reproductive tract and their menstrual cycle dependent expression. <i>Journal of Reproductive Immunology</i> , 2008 , 77, 7-13	4.2	66
103	Early developing pig embryos mediate their own environment in the maternal tract. <i>PLoS ONE</i> , 2012 , 7, e33625	3.7	62
102	Zeta Potential of Extracellular Vesicles: Toward Understanding the Attributes that Determine Colloidal Stability. <i>ACS Omega</i> , 2020 , 5, 16701-16710	3.9	60
101	A review of current proteomics technologies with a survey on their widespread use in reproductive biology investigations. <i>Theriogenology</i> , 2012 , 77, 738-765.e52	2.8	59

100	Do sperm possess a molecular passport? Mechanistic insights into sperm selection in the female reproductive tract. <i>Molecular Human Reproduction</i> , 2015 , 21, 491-501	4.4	57
99	Global profiling of surface plasma membrane proteome of oviductal epithelial cells. <i>Journal of Proteome Research</i> , 2006 , 5, 3029-37	5.6	54
98	Sperm selection in the female mammalian reproductive tract. Focus on the oviduct: Hypotheses, mechanisms, and new opportunities. <i>Theriogenology</i> , 2016 , 85, 105-12	2.8	53
97	Sperm Storage in the Female Reproductive Tract. <i>Annual Review of Animal Biosciences</i> , 2016 , 4, 291-310	13.7	51
96	Oviductal cell proteome alterations during the reproductive cycle in pigs. <i>Journal of Proteome Research</i> , 2008 , 7, 2825-33	5.6	49
95	Development of a sperm zona pellucida binding assay for bull semen. <i>Veterinary Record</i> , 1993 , 132, 14-6	0.9	49
94	In vitro maintenance of boar sperm viability by a soluble fraction obtained from oviductal apical plasma membrane preparations. <i>Reproduction</i> , 2003 , 125, 509-517	3.8	46
93	Effects of oviductal proteins, including heat shock 70 kDa protein 8, on survival of ram spermatozoa over 48 h in vitro. <i>Reproduction, Fertility and Development</i> , 2009 , 21, 408-18	1.8	44
92	Communication of prostate cancer cells with bone cells via extracellular vesicle RNA; a potential mechanism of metastasis. <i>Oncogene</i> , 2019 , 38, 1751-1763	9.2	37
91	Expression and function of Toll-like receptors in human endometrial epithelial cell lines. <i>Journal of Reproductive Immunology</i> , 2010 , 84, 41-51	4.2	35
90	Maternal communication with gametes and embryos. <i>Theriogenology</i> , 2008 , 70, 1182-7	2.8	35
89	Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. <i>Reproduction</i> , 2014 , 147, 719-32	3.8	34
88	An overview of boundary implementation in lattice Boltzmann method for computational heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 78, 1-12	5.8	33
87	Progesterone in mare follicular fluid induces the acrosome reaction in stallion spermatozoa and enhances in vitro binding to the zona pellucida. <i>Journal of Developmental and Physical Disabilities</i> , 1998 , 21, 57-66		33
86	A probabilistic model for the extraction of expression levels from oligonucleotide arrays. <i>Biochemical Society Transactions</i> , 2003 , 31, 1510-2	5.1	28
85	Relation between stallion sperm binding to homologous hemizonae and fertility. <i>Theriogenology</i> , 1995 , 44, 751-60	2.8	28
84	Altered patterns of differentiation in karyotypically abnormal human embryonic stem cells. <i>International Journal of Developmental Biology</i> , 2011 , 55, 175-80	1.9	27
83	Development of a sperm Hemizona binding assay for boar semen. <i>Theriogenology</i> , 1995 , 44, 17-27	2.8	26

82	Activation of Toll-like receptor 5 decreases the attachment of human trophoblast cells to endometrial cells in vitro. <i>Human Reproduction</i> , 2010 , 25, 2217-28	5.7	25
81	Relationship between sperm-zona pellucida binding assays and the 56-day nonreturn rate of cattle inseminated with frozen-thawed bull semen. <i>Theriogenology</i> , 1997 , 48, 853-63	2.8	24
80	The oviducal protein, heat-shock 70-kDa protein 8, improves the long-term survival of ram spermatozoa during storage at 17°C in a commercial extender. <i>Reproduction, Fertility and Development</i> , 2012 , 24, 543-9	1.8	23
79	Heat shock protein A8 stabilizes the bull sperm plasma membrane during cryopreservation: Effects of breed, protein concentration, and mode of use. <i>Theriogenology</i> , 2015 , 84, 693-701	2.8	21
78	Relationship between genome and epigenome--challenges and requirements for future research. <i>BMC Genomics</i> , 2014 , 15, 487	4.5	21
77	Maternal communication with gametes and embryos: a complex interactome. <i>Briefings in Functional Genomics & Proteomics</i> , 2008 , 7, 111-8		21
76	Individually cultured bovine embryos produce extracellular vesicles that have the potential to be used as non-invasive embryo quality markers. <i>Theriogenology</i> , 2020 , 149, 104-116	2.8	20
75	Hormonal regulation of Galphai2 and mPRalpha in immortalized human oviducal cell line OE-E6/E7. <i>Molecular Human Reproduction</i> , 2007 , 13, 845-51	4.4	20
74	Proteome analysis of Sulfolobus solfataricus P2 propanol metabolism. <i>Journal of Proteome Research</i> , 2007 , 6, 1430-9	5.6	19
73	Specific trophoblast transcripts transferred by extracellular vesicles affect gene expression in endometrial epithelial cells and may have a role in embryo-maternal crosstalk. <i>Cell Communication and Signaling</i> , 2019 , 17, 146	7.5	19
72	Activation of Toll-like receptor 3 reduces actin polymerization and adhesion molecule expression in endometrial cells, a potential mechanism for viral-induced implantation failure. <i>Human Reproduction</i> , 2015 , 30, 893-905	5.7	18
71	Translational and transcriptional analysis of Sulfolobus solfataricus P2 to provide insights into alcohol and ketone utilisation. <i>Proteomics</i> , 2007 , 7, 424-35	4.8	17
70	Validation of an experimental strategy for studying surface-exposed proteins involved in porcine sperm-oviduct contact interactions. <i>Reproduction, Fertility and Development</i> , 2005 , 17, 683-92	1.8	16
69	Efficient isolation, biophysical characterisation and molecular composition of extracellular vesicles secreted by primary and immortalised cells of reproductive origin. <i>Theriogenology</i> , 2019 , 135, 121-137	2.8	15
68	Embryonic developmental plasticity in the long-snouted seahorse (<i>Hippocampus reidi</i> , Ginsburg 1933) in relation to parental preconception diet. <i>Reproduction, Fertility and Development</i> , 2016 , 28, 1020-1028	1.8	15
67	The addition of heat shock protein HSPA8 to cryoprotective media improves the survival of brown bear (<i>Ursus arctos</i>) spermatozoa during chilling and after cryopreservation. <i>Theriogenology</i> , 2013 , 79, 541-50	2.8	15
66	The Effect of Estradiol and Progesterone on Toll Like Receptor Gene Expression in A Human Fallopian Tube Epithelial Cell Line. <i>Cell Journal</i> , 2016 , 17, 678-91	2.4	15
65	Proteome and transcriptional analysis of ethanol-grown Sulfolobus solfataricus P2 reveals ADH2, a potential alcohol dehydrogenase. <i>Journal of Proteome Research</i> , 2007 , 6, 3985-94	5.6	13

64	Local activation of uterine Toll-like receptor 2 and 2/6 decreases embryo implantation and affects uterine receptivity in mice. <i>Biology of Reproduction</i> , 2014 , 90, 87	3.9	12
63	Using computational modeling to investigate sperm navigation and behavior in the female reproductive tract. <i>Theriogenology</i> , 2012 , 77, 703-16	2.8	12
62	Modeling the interaction of gametes and embryos with the maternal genital tract: from in vivo to in silico. <i>Theriogenology</i> , 2010 , 73, 828-37	2.8	12
61	Influence of thawing method on motility, plasma membrane integrity and morphology of frozen-thawed stallion spermatozoa. <i>Theriogenology</i> , 1997 , 48, 531-6	2.8	12
60	Localization and variable expression of G alpha(i2) in human endometrium and Fallopian tubes. <i>Human Reproduction</i> , 2007 , 22, 1224-30	5.7	12
59	Effects of cryo-injury on progesterone receptor(s) of canine spermatozoa and its response to progesterone. <i>Theriogenology</i> , 2005 , 64, 844-54	2.8	12
58	Cross talk during the periconception period. <i>Theriogenology</i> , 2016 , 86, 438-42	2.8	12
57	Effects of complement component 3 derivatives on pig oocyte maturation, fertilization and early embryo development in vitro. <i>Reproduction in Domestic Animals</i> , 2011 , 46, 1017-21	1.6	11
56	Human trophoblast cells modulate endometrial cells nuclear factor B response to flagellin in vitro. <i>PLoS ONE</i> , 2013 , 8, e39441	3.7	11
55	Interleukin-1 receptor antagonist mediates toll-like receptor 3-induced inhibition of trophoblast adhesion to endometrial cells in vitro. <i>Human Reproduction</i> , 2016 , 31, 2098-107	5.7	10
54	An introduction to epigenetics as the link between genotype and environment: a personal view. <i>Reproduction in Domestic Animals</i> , 2014 , 49 Suppl 3, 2-10	1.6	10
53	Antioxidant combinations are no more beneficial than individual components in combating ram sperm oxidative stress during storage at 5°C. <i>Animal Reproduction Science</i> , 2011 , 129, 180-7	2.1	10
52	Oviduct as a sensor of embryo quality: deciphering the extracellular vesicle (EV)-mediated embryo-maternal dialogue. <i>Journal of Molecular Medicine</i> , 2021 , 99, 685-697	5.5	10
51	Temporal dynamics of ram sperm binding and survival during 48-h coculture with oviducal epithelial cells. <i>Reproduction, Fertility and Development</i> , 2008 , 20, 835-45	1.8	9
50	Bovine Follicular Fluid and Extracellular Vesicles Derived from Follicular Fluid Alter the Bovine Oviducal Epithelial Cells Transcriptome. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	9
49	Trophoblast derived extracellular vesicles specifically alter the transcriptome of endometrial cells and may constitute a critical component of embryo-maternal communication. <i>Reproductive Biology and Endocrinology</i> , 2021 , 19, 115	5	9
48	Characterisation of an in vitro system to study maternal communication with spermatozoa. <i>Reproduction, Fertility and Development</i> , 2012 , 24, 988-98	1.8	8
47	Effect of a pre-freezing treatment with cholesterol-loaded cyclodextrins on boar sperm longevity, capacitation dynamics, ability to adhere to porcine oviducal epithelial cells in vitro and DNA fragmentation dynamics. <i>Reproduction, Fertility and Development</i> , 2013 , 25, 935-46	1.8	8

46	Nuclear proteome dynamics in differentiating embryonic carcinoma (NTERA-2) cells. <i>Journal of Proteome Research</i> , 2010 , 9, 3412-26	5.6	8
45	Cellular, Extracellular and Extracellular Vesicular miRNA Profiles of Pre-Ovulatory Follicles Indicate Signaling Disturbances in Polycystic Ovaries. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
44	Understanding the dynamics of Toll-like Receptor 5 response to flagellin and its regulation by estradiol. <i>Scientific Reports</i> , 2017 , 7, 40981	4.9	7
43	Effects of spermatozoa-oviductal cell cocubation time and oviductal cell age on spermatozoa-oviduct interactions. <i>Reproduction, Fertility and Development</i> , 2014 , 26, 358-65	1.8	7
42	Proteomics analysis of epithelial cells reprogrammed in cell-free extract. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 1401-12	7.6	7
41	Proteomics of the periconception milieu. <i>Proteomics</i> , 2015 , 15, 649-55	4.8	6
40	Long-Term Effects of the Periconception Period on Embryo Epigenetic Profile and Phenotype: The Role of Stress and How This Effect Is Mediated. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1014, 117-135	3.6	6
39	Exploring the application of high-throughput genomics technologies in the field of maternal-embryo communication. <i>Theriogenology</i> , 2012 , 77, 717-37	2.8	6
38	Maternal communication with gametes and embryo: a personal opinion. <i>Reproduction in Domestic Animals</i> , 2011 , 46 Suppl 2, 75-8	1.6	6
37	Paternal effects in a wild-type zebrafish implicate a role of sperm-derived small RNAs. <i>Molecular Ecology</i> , 2020 , 29, 2722-2735	5.7	5
36	Computational modelling of maternal interactions with spermatozoa: potentials and prospects. <i>Reproduction, Fertility and Development</i> , 2011 , 23, 976-89	1.8	5
35	Constructing complex 3D biological environments from medical imaging using high performance computing. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012 , 9, 643-54	3	5
34	Time-critical influences of gestational diet in a seahorse model of male pregnancy. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	5
33	Modelling sperm behaviour in a 3D environment 2011 ,		4
32	Extracellular vesicle research in reproductive science- Paving the way for clinical achievements.. <i>Biology of Reproduction</i> , 2022 ,	3.9	4
31	Multicomponent Biomarker Approach Improves the Accuracy of Diagnostic Biomarkers for Psoriasis Vulgaris. <i>Acta Dermato-Venereologica</i> , 2019 , 99, 1258-1265	2.2	4
30	Identification of an optimal method for extracting RNA from human skin biopsy, using domestic pig as a model system. <i>Scientific Reports</i> , 2019 , 9, 20111	4.9	4
29	Tribbles role in reproduction. <i>Biochemical Society Transactions</i> , 2015 , 43, 1116-21	5.1	3

28	Epigenetics and periconception environment: an introduction. <i>Reproduction, Fertility and Development</i> , 2015 , 27, iii-v	1.8	3
27	Inhibition of Boar Sperm Binding to Homologous Zona Pellucida by Antibodies against ZP3 and ZP3 Glycoproteins. <i>Reproduction in Domestic Animals</i> , 1998 , 33, 21-25	1.6	3
26	Bovine Follicular Fluid Derived Extracellular Vesicles Modulate the Viability, Capacitation and Acrosome Reaction of Bull Spermatozoa. <i>Biology</i> , 2021 , 10,	4.9	3
25	Spermatozoa induce transcriptomic alterations in bovine oviductal epithelial cells prior to initial contact. <i>Journal of Cell Communication and Signaling</i> , 2020 , 14, 439-451	5.2	3
24	Sex hormones alter the response of Toll-like receptor 3 to its specific ligand in fallopian tube epithelial cells. <i>Clinical and Experimental Reproductive Medicine</i> , 2018 , 45, 154-162	2.2	3
23	Variable localization of Toll-like receptors in human fallopian tube epithelial cells. <i>Clinical and Experimental Reproductive Medicine</i> , 2018 , 45, 1-9	2.2	3
22	Isolation of Extracellular Vesicles (EVs) Using Benchtop Size Exclusion Chromatography (SEC) Columns. <i>Methods in Molecular Biology</i> , 2021 , 2273, 201-206	1.4	3
21	The role of extracellular vesicles in endometrial receptivity and their potential in reproductive therapeutics and diagnosis. <i>Reproductive Biology</i> , 2022 , 22, 100645	2.3	3
20	Special edition dedicated to European COST action FA0702 maternal interaction with gametes and embryos, GEMINI. Foreword. <i>Theriogenology</i> , 2012 , 77, 701-2	2.8	2
19	British Andrology Society Workshop: sperm interactions with epithelia and their products. <i>Human Fertility</i> , 2000 , 3, 166-171	1.9	2
18	Potential innate immunity-related markers of endometrial receptivity and recurrent implantation failure (RIF). <i>Reproductive Biology</i> , 2021 , 21, 100569	2.3	2
17	Premature birth stunts early growth and is a possible driver of stress-induced maternal effects in the guppy <i>Poecilia reticulata</i> . <i>Journal of Fish Biology</i> , 2020 , 96, 506-515	1.9	2
16	Battle of the Sexes: How the Selection of Spermatozoa in the Female Reproductive Tract Manipulates the Sex Ratio of Offspring 2017 , 251-267		1
15	Introduction: A Brief Guide to the Periconception Environment. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1014, 1-14	3.6	1
14	THE HEMIZONA ASSAY: EVALUATION OF SPERM ZONA PELLUCIDA INTERACTION. <i>Reproduction in Domestic Animals</i> , 1995 , 31, 113-118	1.6	1
13	Characteristics of gastric precancerous conditions and <i>Helicobacter pylori</i> infection among dyspeptic patients in north-eastern Iran: is endoscopic biopsy and histopathological assessment necessary?. <i>BMC Cancer</i> , 2021 , 21, 1143	4.8	1
12	Measurement of the Size and Concentration and Zeta Potential of Extracellular Vesicles Using Nanoparticle Tracking Analyzer. <i>Methods in Molecular Biology</i> , 2021 , 2273, 207-218	1.4	1
11	Use of Virus-Mimicking Nanoparticles to Investigate Early Infection Events in Upper Airway 3D Models. <i>Methods in Molecular Biology</i> , 2021 , 2273, 131-138	1.4	0

10 Sperm Transport and Selection in Mammals **2018**, 269-275

9 Experimental models in animal reproduction: theoretical and practical approaches. Preface. *Theriogenology*, **2010**, 73, 711-2 2.8

8 Use of sperm binding to homologous hemizona pellucida to predict stallion fertility. *Equine Veterinary Journal*, **2010**, 25, 57-59 2.4

7 Repeated transvaginal ultrasound-guided follicle aspiration in the mare. *Equine Veterinary Journal*, **2010**, 25, 75-78 2.4

6 INHIBITION OF PORCINE SPERM BINDING TO HOMOLOGOUS ZONA PELLUCIDA USING HEMIZONA ASSAY and ANTIBODIES AGAINST ZONA PELLUCIDA PROTEINS. *Reproduction in Domestic Animals*, **1995**, 31, 233-234 1.6

5 Sex Hormones Enhance TLR3 Response to Its Specific Ligand in Human Fallopian Tube Epithelial Cells.. *Biology of Reproduction*, **2008**, 78, 197-197 3.9

4 The Virtual Oviduct: An Essential Tool for the Application of Computational Biology Approaches to Investigation of Maternal Interaction with Gametes and Embryo.. *Biology of Reproduction*, **2009**, 81, 299-299 3.9

3 Isolation of Extracellular Vesicles (EVs) Using Size-Exclusion High-Performance Liquid Chromatography (SE-HPLC). *Methods in Molecular Biology*, **2021**, 2273, 189-200 1.4

2 Sperm Transport and Selection in Mammals **2018**,

1 Sperm transport and male pregnancy in seahorses: An unusual model for reproductive science. *Animal Reproduction Science*, **2021**, 106854 2.1