Fulvio Gandolfi

List of Publications by Year
in descending order

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136	4,528	87723	118652
papers	citations	38 h-index	62 g-index

146	146	146	3860
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The maternal legacy to the embryo: cytoplasmic components and their effects on early development. Theriogenology, 2001, 55, 1255-1276.	0.9	182
2	Quantification of Housekeeping Transcript Levels During the Development of Bovine Preimplantation Embryos1. Biology of Reproduction, 2002, 67, 1465-1472.	1.2	182
3	Efficiency of equilibrium cooling and vitrification procedures for the cryopreservation of ovarian tissue: comparative analysis between human and animal models. Fertility and Sterility, 2006, 85, 1150-1156.	0.5	177
4	Molecular Cloning, Genetic Mapping, and Developmental Expression of Bovine POU5F11. Biology of Reproduction, 1999, 60, 1093-1103.	1.2	169
5	Association between human oocyte developmental competence and expression levels of some cumulus genes. Reproduction, 2007, 134, 645-650.	1.1	164
6	Role of Adenosine Triphosphate, Active Mitochondria, and Microtubules in the Acquisition of Developmental Competence of Parthenogenetically Activated Pig Oocytes1. Biology of Reproduction, 2005, 72, 1218-1223.	1.2	149
7	Role of Intracellular Cyclic Adenosine 3â€²,5â€²-Monophosphate Concentration and Oocyte-Cumulus Cells Communications on the Acquisition of the Developmental Competence During In Vitro Maturation of Bovine Oocyte1. Biology of Reproduction, 2004, 70, 465-472.	1.2	132
8	Brief demethylation step allows the conversion of adult human skin fibroblasts into insulin-secreting cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8948-8953.	3.3	119
9	Changes in poly(A) tail length of maternal transcripts during in vitro maturation of bovine oocytes and their relation with developmental competence. Molecular Reproduction and Development, 1999, 52, 427-433.	1.0	105
10	Effect of different levels of intracellular cAMP on the in vitro maturation of cattle oocytes and their subsequent development following in vitro fertilization. Molecular Reproduction and Development, 1999, 54, 86-91.	1.0	103
11	Comparative analysis of calf and cow oocytes during in vitro maturation. Molecular Reproduction and Development, 1998, 49, 168-175.	1.0	100
12	Porcine embryonic stem cells: Facts, challenges and hopes. Theriogenology, 2007, 68, S206-S213.	0.9	96
13	The impact of endocrine disruptors on oocyte competence. Reproduction, 2003, 125, 313-325.	1.1	94
14	Glucose transporter expression is developmentally regulated in in vitro derived bovine preimplantation embryos. Molecular Reproduction and Development, 2001, 60, 370-376.	1.0	93
15	Evolution of mRNA polyadenylation between oocyte maturation and first embryonic cleavage in cattle and its relation with developmental competence. Molecular Reproduction and Development, 2002, 63, 510-517.	1.0	86
16	Cytoplasmic remodelling and the acquisition of developmental competence in pig oocytes. Animal Reproduction Science, 2007, 98, 23-38.	0.5	67
17	In vitro development of human oocytes after parthenogenetic activation or intracytoplasmic sperm injection. Fertility and Sterility, 2007, 87, 77-82.	0.5	66
18	Endogenous opioid peptides in uterine fluid. Fertility and Sterility, 1986, 46, 247-251.	0.5	63

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19	Effects of pre-mating nutrition on mRNA levels of developmentally relevant genes in sheep oocytes and granulosa cells. Reproduction, 2008, 136, 303-312.	1.1	63
20	Derivation and characterization of pluripotent cell lines from pig embryos of different origins. Theriogenology, 2007, 67, 54-63.	0.9	59
21	Culture Conditions and Signalling Networks Promoting the Establishment of Cell Lines from Parthenogenetic and Biparental Pig Embryos. Stem Cell Reviews and Reports, 2010, 6, 484-495.	5.6	59
22	Parthenogenetic Activation: Biology and Applications in the ART Laboratory. Placenta, 2008, 29, 121-125.	0.7	58
23	Functions of proteins secreted by oviduct epithelial cells. Microscopy Research and Technique, 1995, 32, 1-12.	1.2	55
24	The Role of Resveratrol in Mammalian Reproduction. Molecules, 2020, 25, 4554.	1.7	54
25	In vitro reproductive toxicity of polychlorinated biphenyls: Effects on oocyte maturation and developmental competence in cattle. Molecular Reproduction and Development, 2001, 58, 411-416.	1.0	52
26	The influence of cAMP before or during bovine oocyte maturation on embryonic developmental competence. Theriogenology, 2001, 55, 1733-1743.	0.9	50
27	Parthenotes as a source of embryonic stem cells. Cell Proliferation, 2008, 41, 20-30.	2.4	50
28	Autocrine, paracrine and environmental factors influencing embryonic development from zygote to blastocyst. Theriogenology, 1994, 41, 95-100.	0.9	49
29	The in vitro developmental competence of bovine oocytes can be related to the morphology of the ovary. Theriogenology, 1997, 48, 1153-1160.	0.9	48
30	Large animal models for cardiac stem cell therapies. Theriogenology, 2011, 75, 1416-1425.	0.9	48
31	Sperm-mediated transgenesis. Theriogenology, 2000, 53, 127-137.	0.9	47
32	Effects of Endocrine Disrupters on the Oocytes and Embryos of Farm Animals. Reproduction in Domestic Animals, 2005, 40, 291-299.	0.6	43
33	Los mecanismos celulares y moleculares que regulan la calidad del ovocito y su influencia en el rendimiento reproductivo del ganado. OIE Revue Scientifique Et Technique, 2005, 24, 413-423.	0.5	43
34	Recent Progress in Embryonic Stem Cell Research and Its Application in Domestic Species. Reproduction in Domestic Animals, 2008, 43, 193-199.	0.6	42
35	Characterization of the Constitutive Pig Ovary Heat Shock Chaperone Machinery and Its Response to Acute Thermal Stress or to Seasonal Variations1. Biology of Reproduction, 2012, 87, 119.	1.2	42
36	Morphological and Molecular Changes of Human Granulosa Cells Exposed to 5-Azacytidine and Addressed Toward Muscular Differentiation. Stem Cell Reviews and Reports, 2014, 10, 633-642.	5.6	41

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37	Cellular and molecular mechanisms mediating the effect of polychlorinated biphenyls on oocyte in vitro maturation. Reproductive Toxicology, 2006, 22, 242-249.	1.3	40
38	Temporal and spatial control of gene expression in early embryos of farm animals. Reproduction, Fertility and Development, 2007, 19, 35.	0.1	40
39	Cell Lines Derived from Human Parthenogenetic Embryos Can Display Aberrant Centriole Distribution and Altered Expression Levels of Mitotic Spindle Check-point Transcripts. Stem Cell Reviews and Reports, 2009, 5, 340-352.	5.6	40
40	Cellular and molecular mechanisms mediating the effects of polychlorinated biphenyls on oocyte developmental competence in cattle. Molecular Reproduction and Development, 2001, 60, 535-541.	1.0	39
41	No shortcuts to pig embryonic stem cells. Theriogenology, 2010, 74, 544-550.	0.9	39
42	Reprogramming of Pig Dermal Fibroblast into Insulin Secreting Cells by a Brief Exposure to 5-aza-cytidine. Stem Cell Reviews and Reports, 2014, 10, 31-43.	5.6	39
43	Evolution of pig intestinal stem cells from birth to weaning. Animal, 2019, 13, 2830-2839.	1.3	39
44	Recent advances in sperm cell mediated gene transfer. Molecular Reproduction and Development, 1993, 36, 255-257.	1.0	38
45	In vitro culture of sheep oocytes matured and fertilized in vitro. Theriogenology, 1988, 29, 883-891.	0.9	36
46	Expression pattern of the maternal factor zygote arrest 1 (Zar1) in bovine tissues, oocytes, and embryos. Molecular Reproduction and Development, 2004, 69, 375-380.	1.0	35
47	Why is it so Difficult to Derive Pluripotent Stem Cells in Domestic Ungulates?. Reproduction in Domestic Animals, 2012, 47, 11-17.	0.6	35
48	Beneficial effect of directional freezing on in vitro viability of cryopreserved sheep whole ovaries and ovarian cortical slices. Human Reproduction, 2014, 29, 114-124.	0.4	34
49	A Detailed Study of Rainbow Trout (Onchorhynchus mykiss) Intestine Revealed That Digestive and Absorptive Functions Are Not Linearly Distributed along Its Length. Animals, 2020, 10, 745.	1.0	34
50	Changes in ovarian, follicular, and oocyte morphology immediately after the onset of puberty are not accompanied by an increase in oocyte developmental competence in the pig. Theriogenology, 2004, 62, 1003-1011.	0.9	33
51	Bovine Somatotropin Administration to Dairy Goats in Late Lactation: Effects on Mammary Gland Function, Composition and Morphology. Journal of Dairy Science, 2002, 85, 1093-1102.	1.4	32
52	Epigenetic Erasing and Pancreatic Differentiation of Dermal Fibroblasts into Insulin-Producing Cells are Boosted by the Use of Low-Stiffness Substrate. Stem Cell Reviews and Reports, 2018, 14, 398-411.	5.6	32
53	Chronic mastitis is associated with altered ovarian follicle development in dairy cattle. Journal of Dairy Science, 2012, 95, 1885-1893.	1.4	31
54	Activin ?A subunit is expressed in bovine oviduct. Molecular Reproduction and Development, 1995, 40, 286-291.	1.0	30

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55	Toxic Effects of In Vitro Exposure to p-tert-Octylphenol on Bovine Oocyte Maturation and Developmental Competence1. Biology of Reproduction, 2003, 69, 462-468.	1.2	30
56	Current Advances in 3D Tissue and Organ Reconstruction. International Journal of Molecular Sciences, 2021, 22, 830.	1.8	30
57	Development, embryonic genome activity and mitochondrial characteristics of bovineâ€“pig inter-family nuclear transfer embryos. Reproduction, 2010, 140, 273-285.	1.1	29
58	5-azacytidine affects TET2 and histone transcription and reshapes morphology of human skin fibroblasts. Scientific Reports, 2016, 6, 37017.	1.6	29
59	Effect of Cell-to-Cell Contact on In Vitro Deoxyribonucleic Acid Synthesis and Apoptosis Responses of Bovine Granulosa Cells to Insulin-Like Growth Factor-I and Epidermal Growth Factor1. Biology of Reproduction, 2000, 63, 1580-1585.	1.2	28
60	Pluripotency Network in Porcine Embryos and Derived Cell Lines. Reproduction in Domestic Animals, 2012, 47, 86-91.	0.6	27
61	Centrosome Amplification and Chromosomal Instability in Human and Animal Parthenogenetic Cell Lines. Stem Cell Reviews and Reports, 2012, 8, 1076-1087.	5.6	25
62	Whole-ovary decellularization generates an effective 3D bioscaffold for ovarian bioengineering. Journal of Assisted Reproduction and Genetics, 2020, 37, 1329-1339.	1.2	25
63	Failure to produce transgenic offspring by intra-tubal insemination of gilts with DNA-treated sperm. Reproduction, Fertility and Development, 1996, 8, 1055.	0.1	24
64	Early embryonic signals: embryo-maternal interactions before implantation. Animal Reproduction Science, 1992, 28, 269-276.	0.5	23
65	Spermatozoa, DNA binding and transgenic animals. , 1998, 7, 147-155.		22
66	Impact of endocrine disrupters on ovarian function and embryonic development. Domestic Animal Endocrinology, 2002, 23, 189-201.	0.8	22
67	Parthenogenesis as an Approach to Pluripotency: Advantages and Limitations Involved. Stem Cell Reviews and Reports, 2008, 4, 127-135.	5.6	21
68	Similarity of an oviduct-specific glycoprotein between different species. Reproduction, Fertility and Development, 1993, 5, 433.	0.1	20
69	Cumulus-Oocyte Communications in the Horse: Role of the Breeding Season and of the Maturation Medium. Reproduction in Domestic Animals, 2004, 39, 70-75.	0.6	20
70	Epigenetic conversion of adult dog skin fibroblasts into insulin-secreting cells. Veterinary Journal, 2016, 211, 52-56.	0.6	20
71	In vitro production of cattle-water buffalo (Bos taurus - Bubalus bubalis) hybrid embryos. Zygote, 2002, 10, 155-162.	0.5	19
72	Direct comparative analysis of conventional and directional freezing for the cryopreservation of whole ovaries. Fertility and Sterility, 2013, 100, 1122-1131.	0.5	19

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73	RFD Award Lecture 2009.In vitro maturation of farm animal oocytes: a useful tool for investigating the mechanisms leading to full-term development. Reproduction, Fertility and Development, 2010, 22, 495.	0.1	18
74	Parthenogenesis in non-rodent species: developmental competence and differentiation plasticity. Theriogenology, 2012, 77, 766-772.	0.9	18
75	Use of a PTFE Micro-Bioreactor to Promote 3D Cell Rearrangement and Maintain High Plasticity in Epigenetically Erased Fibroblasts. Stem Cell Reviews and Reports, 2019, 15, 82-92.	5.6	17
76	Implications of miRNA expression pattern in bovine oocytes and follicular fluids for developmental competence. Theriogenology, 2020, 145, 77-85.	0.9	17
77	Creation of a Bioengineered Ovary: Isolation of Female Germline Stem Cells for the Repopulation of a Decellularized Ovarian Bioscaffold. Methods in Molecular Biology, 2021, 2273, 139-149.	0.4	16
78	Aroclor-1254 affects mRNA polyadenylation, translational activation, cell morphology, and DNA integrity of rat primary prostate cells. Endocrine-Related Cancer, 2007, 14, 257-266.	1.6	15
79	New Stable Cell Lines Derived from the Proximal and Distal Intestine of Rainbow Trout (Oncorhynchus mykiss) Retain Several Properties Observed In Vivo. Cells, 2021, 10, 1555.	1.8	15
80	Ovarian Decellularized Bioscaffolds Provide an Optimal Microenvironment for Cell Growth and Differentiation In Vitro. Cells, 2021, 10, 2126.	1.8	15
81	Impact of Aging on the Ovarian Extracellular Matrix and Derived 3D Scaffolds. Nanomaterials, 2022, 12, 345.	1.9	15
82	Expression and intracytoplasmic distribution of staufen and calreticulin in maturing human oocytes. Journal of Assisted Reproduction and Genetics, 2015, 32, 645-652.	1.2	11
83	The quest for an effective and safe personalized cell therapy using epigenetic tools. Clinical Epigenetics, 2016, 8, 119.	1.8	11
84	ROLE OF THE OVIDUCT DURING EARLY EMBRYOGENESIS. Reproduction in Domestic Animals, 1993, 28, 189-192.	0.6	10
85	Phenotype switching through epigenetic conversion. Reproduction, Fertility and Development, 2015, 27, 776.	0.1	10
86	Profiling bovine blastocyst microRNAs using deep sequencing. Reproduction, Fertility and Development, 2017, 29, 1545.	0.1	9
87	Developmental Potential of Human Oocytes After Slow Freezing or Vitrification: A Randomized In Vitro Study Based on Parthenogenesis. Reproductive Sciences, 2008, 15, 1027-1033.	1.1	8
88	Use of a Super-hydrophobic Microbioreactor to Generate and Boost Pancreatic Mini-organoids. Methods in Molecular Biology, 2017, 1576, 291-299.	0.4	8
89	The 3D Pattern of the Rainbow Trout (Oncorhynchus mykiss) Enterocytes and Intestinal Stem Cells. International Journal of Molecular Sciences, 2020, 21, 9192.	1.8	8
90	A 3D approach to reproduction. Theriogenology, 2020, 150, 2-7.	0.9	8

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91	â€œBiomechanical Signaling in Oocytes and Parthenogenetic Cellsâ€. Frontiers in Cell and Developmental Biology, 2021, 9, 646945.	1.8	8
92	Parthenogenetic Cell Lines: An Unstable Equilibrium Between Pluripotency and Malignant Transformation. Current Pharmaceutical Biotechnology, 2011, 12, 206-212.	0.9	7
93	Epigenetic Conversion as a Safe and Simple Method to Obtain Insulin-secreting Cells from Adult Skin Fibroblasts. Journal of Visualized Experiments, 2016, , .	0.2	7
94	Simple and Quick Method to Obtain a Decellularized, Functional Liver Bioscaffold. Methods in Molecular Biology, 2017, 1577, 283-292.	0.4	7
95	All roads lead to Rome: the many ways to pluripotency. Journal of Assisted Reproduction and Genetics, 2020, 37, 1029-1036.	1.2	7
96	Bioengineering the ovary to preserve and reestablish female fertility. Animal Reproduction, 2019, 16, 45-51.	0.4	7
97	Correlations between chemical parameters, mitogenic activity and embryotrophic activity of bovine oviduct-conditioned medium. Theriogenology, 1997, 48, 659-673.	0.9	6
98	Our first 40 years. Theriogenology, 2014, 81, 1-2.	0.9	6
99	Extended ex vivo culture of fresh and cryopreserved whole sheep ovaries. Reproduction, Fertility and Development, 2016, 28, 1893.	0.1	6
100	Methylation mechanisms and biomechanical effectors controlling cell fate. Reproduction, Fertility and Development, 2018, 30, 64.	0.1	6
101	Procedure for rapid oocyte selection based on quantitative analysis of cumulus cell gene expression. Journal of Assisted Reproduction and Genetics, 2010, 27, 429-434.	1.2	5
102	Stem Cells in the Reproductive System. American Journal of Reproductive Immunology, 2012, 67, 445-462.	1.2	5
103	Erase and Rewind: Epigenetic Conversion of Cell Fate. Stem Cell Reviews and Reports, 2016, 12, 163-170.	5.6	5
104	Safety and Efficacy of Epigenetically Converted Human Fibroblasts Into Insulin-Secreting Cells: A Preclinical Study. Advances in Experimental Medicine and Biology, 2018, 1079, 151-162.	0.8	5
105	Freezing and Freeze-Drying: The Future Perspective of Organ and Cell Preservation. Pancreatic Islet Biology, 2014, , 167-184.	0.1	5
106	A Two-Step Strategy that Combines Epigenetic Modification and Biomechanical Cues to Generate Mammalian Pluripotent Cells. Journal of Visualized Experiments, 2020, , .	0.2	5
107	Superovulation of dairy and beef cows using porcine FSH with defined LH content. Theriogenology, 1983, 20, 675-682.	0.9	4
108	Isolation, Characterization and Differentiation Potential of Cardiac Progenitor Cells in Adult Pigs. Stem Cell Reviews and Reports, 2012, 8, 706-719.	5.6	4

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109	Intercellular bridges are essential for human parthenogenetic cell survival. Mechanisms of Development, 2015, 136, 30-39.	1.7	4
110	A Two-Step Protocol to Erase Human Skin Fibroblasts and Convert Them into Trophoblast-like Cells. Methods in Molecular Biology, 2021, 2273, 151-158.	0.4	4
111	In Vitro development of preimplantation embryos from domestic species. Toxicology in Vitro, 1995, 9, 607-613.	1.1	3
112	Microdensitometric assay of enzymatic activities in parthenogenetically activated and in vitro fertilized bovine oocytes. Acta Histochemica, 2002, 104, 193-198.	0.9	3
113	Rho Signaling-Directed YAP/TAZ Regulation Encourages 3D Spheroid Colony Formation and Boosts Plasticity of Parthenogenetic Stem Cells. Advances in Experimental Medicine and Biology, 2019, 1237, 49-60.	0.8	3
114	Generation of Trophoblast-Like Cells From Hypomethylated Porcine Adult Dermal Fibroblasts. Frontiers in Veterinary Science, 2021, 8, 706106.	0.9	3
115	New tools for cell reprogramming and conversion: Possible applications to livestock. Animal Reproduction, 2019, 16, 475-484.	0.4	3
116	Telocytes: Active Players in the Rainbow Trout (Oncorhynchus mykiss) Intestinal Stem-Cell Niche. Animals, 2022, 12, 74.	1.0	3
117	On-line publication of supplementary material. Theriogenology, 2009, 72, 1.	0.9	2
118	Preparation of Biological Scaffolds and Primary Intestinal Epithelial Cells to Efficiently 3D Model the Fish Intestinal Mucosa. Methods in Molecular Biology, 2021, 2273, 263-278.	0.4	2
119	Use of Virus-Mimicking Nanoparticles to Investigate Early Infection Events in Upper Airway 3D Models. Methods in Molecular Biology, 2021, 2273, 131-138.	0.4	2
120	Tracheal In Vitro Reconstruction Using a Decellularized Bio-Scaffold in Combination with a Rotating Bioreactor. Methods in Molecular Biology, 2021, , 157-165.	0.4	2
121	Editor's announcement. Theriogenology, 2006, 66, 1.	0.9	1
122	Newborn pig ovarian tissue xenografted into Severe Combined Immunodeficient (SCID) mice acquires limited responsiveness to gonadotropins. Theriogenology, 2010, 74, 557-562.	0.9	1
123	Parthenogenesis in mammals: pros and cons in pluripotent cell derivation. Open Life Sciences, 2011, 6, 770-775.	0.6	1
124	Immune Intervention for Type 1 Diabetes, 2012â€“2013. Diabetes Technology and Therapeutics, 2014, 16, S-85-S-91.	2.4	1
125	In search of the transcriptional blueprints of a competent oocyte. Animal Reproduction, 2017, 14, 34-47.	0.4	1
126	Mountain high and valley deep: epigenetic controls of pluripotency and cell fate. Animal Reproduction, 2017, 14, 61-68.	0.4	1

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127	278 GENE EXPRESSION PROFILE OF OVINE OOCYTES AND CUMULUS CELLS WITH REFERENCE TO PREMATING NUTRITION. Reproduction, Fertility and Development, 2007, 19, 254.	0.1	1
128	Adding a dimension to cell fate. Animal Reproduction, 2019, 16, 18-23.	0.4	1
129	Foreword. Theriogenology, 2010, 74, 491.	0.9	0
130	Foreword. Theriogenology, 2012, 78, 1732.	0.9	0
131	Pluripotency in Domestic Animal Embryos. SpringerBriefs in Stem Cells, 2013, , 21-27.	0.1	0
132	Parthenogenesis and parthenogenetic stem cells. , 0, , 250-260.		0
133	Foreword. Theriogenology, 2016, 85, 1.	0.9	0
134	Stem Cells and Cell Conversion in Livestock. , 2018, , 215-233.		0
135	Early Embryo Development in Large Animals. SpringerBriefs in Stem Cells, 2013, , 1-19.	0.1	0
136	Farewell. Theriogenology, 2021, 176, A1.	0.9	0