

Enrique Gomez

List of Publications by Year in descending order

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105
papers

2,160
citations

186265

28
h-index

276875

41
g-index

108
all docs

108
docs citations

108
times ranked

1992
citing authors

#	ARTICLE	IF	CITATIONS
1	Using pedigree information to monitor genetic variability of endangered populations: the Xalda sheep breed of Asturias as an example. <i>Journal of Animal Breeding and Genetics</i> , 2003, 120, 95-105.	2.0	136
2	Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites1. <i>Journal of Animal Science</i> , 2004, 82, 2246-2252.	0.5	75
3	Bovine oocyte vitrification before or after meiotic arrest: effects on ultrastructure and developmental ability. <i>Theriogenology</i> , 2005, 64, 317-333.	2.1	70
4	Proteome of the Early Embryoâ€œMaternal Dialogue in the Cattle Uterus. <i>Journal of Proteome Research</i> , 2012, 11, 751-766.	3.7	68
5	Conventional pluripotency markers are unspecific for bovine embryonic-derived cell-lines. <i>Theriogenology</i> , 2008, 69, 1159-1164.	2.1	64
6	Serum free embryo culture medium improves in vitro survival of bovine blastocysts to vitrification. <i>Theriogenology</i> , 2008, 69, 1013-1021.	2.1	63
7	Biological differences between in vitro produced bovine embryos and parthenotes. <i>Reproduction</i> , 2009, 137, 285-295.	2.6	58
8	Enhancement of developmental capacity of meiotically inhibited bovine oocytes by retinoic acid. <i>Human Reproduction</i> , 2002, 17, 2706-2714.	0.9	53
9	The Origins of Iberian Horses Assessed via Mitochondrial DNA. <i>Journal of Heredity</i> , 2005, 96, 663-669.	2.4	52
10	Multiple paternal origins of domestic cattle revealed by Y-specific interspersed multilocus microsatellites. <i>Heredity</i> , 2010, 105, 511-519.	2.6	50
11	Identifying the most suitable endogenous control for determining gene expression in hearts from organ donors. <i>BMC Molecular Biology</i> , 2007, 8, 114.	3.0	49
12	Pregnancies and improved early embryonic development with bovine oocytes matured in vitro with 9-cis-retinoic acid. <i>Reproduction</i> , 2003, 125, 409-416.	2.6	48
13	Testing the usefulness of the molecular coancestry information to assess genetic relationships in livestock using a set of Spanish sheep breeds1. <i>Journal of Animal Science</i> , 2005, 83, 737-744.	0.5	45
14	Bovine Early Embryonic Development and Vitamin A. <i>Reproduction in Domestic Animals</i> , 2006, 41, 63-71.	1.4	44
15	In vitro and in vivo quality of bovine embryos in vitro produced with sex-sorted sperm. <i>Theriogenology</i> , 2012, 78, 1465-1475.	2.1	44
16	The coding sequence of the ASIP gene is identical in nine wild-type coloured cattle breeds. <i>Journal of Animal Breeding and Genetics</i> , 2005, 122, 357-360.	2.0	43
17	Prediction of pregnancy viability in bovine in vitro-produced embryos and recipient plasma with Fourier transform infrared spectroscopy. <i>Journal of Dairy Science</i> , 2014, 97, 5497-5507.	3.4	43
18	Embryonic Sex Induces Differential Expression of Proteins in Bovine Uterine Fluid. <i>Journal of Proteome Research</i> , 2013, 12, 1199-1210.	3.7	38

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19	Survival of vitrified in vitro produced bovine embryos after a one-step warming in-straw cryoprotectant dilution procedure. <i>Theriogenology</i> , 2015, 83, 881-890.	2.1	38
20	9-cis-retinoic acid during in vitro maturation improves development of the bovine oocyte and increases midkine but not IGF-I expression in cumulus-granulosa cells. <i>Molecular Reproduction and Development</i> , 2003, 66, 247-255.	2.0	34
21	Senescence and Apoptosis During in vitro Embryo Development in a Bovine Model. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 619902.	3.7	33
22	Effects of human versus mouse leukemia inhibitory factor on the in vitro development of bovine embryos. <i>Theriogenology</i> , 2007, 67, 1092-1095.	2.1	32
23	Efficient one-step direct transfer to recipients of thawed bovine embryos cultured in vitro and frozen in chemically defined medium. <i>Theriogenology</i> , 2020, 146, 39-47.	2.1	32
24	In vitro maturation of porcine oocytes with retinoids improves embryonic development. <i>Reproduction, Fertility and Development</i> , 2008, 20, 483.	0.4	31
25	Genetic analysis of calf survival at different preweaning ages in beef cattle. <i>Livestock Science</i> , 2003, 83, 13-20.	1.2	30
26	Efficient derivation of bovine embryonic stem cells needs more than active core pluripotency factors. <i>Molecular Reproduction and Development</i> , 2012, 79, 461-477.	2.0	30
27	Pregnancy rates and metabolic profiles in cattle treated with propylene glycol prior to embryo transfer. <i>Theriogenology</i> , 2004, 62, 664-676.	2.1	29
28	Vitrification of Bovine Blastocysts Produced <i>In Vitro</i> Inflicts Selective Damage to the Inner Cell Mass. <i>Reproduction in Domestic Animals</i> , 2009, 44, 194-199.	1.4	29
29	Retinoid-dependent mRNA expression and poly-(A) contents in bovine oocytes meiotically arrested and/or matured in vitro. <i>Molecular Reproduction and Development</i> , 2004, 69, 101-108.	2.0	28
30	Oocytes recovered from cows treated with retinol become unviable as blastocysts produced in vitro. <i>Reproduction</i> , 2005, 129, 411-421.	2.6	28
31	Metabolomic Prediction of Pregnancy Viability in Superovulated Cattle Embryos and Recipients with Fourier Transform Infrared Spectroscopy. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	28
32	Cryopreservation of the Bovine Oocyte: Current Status and Perspectives. <i>Reproduction in Domestic Animals</i> , 2012, 47, 76-83.	1.4	27
33	Hepatoma-derived growth factor: from the bovine uterus to the in vitro embryo culture. <i>Reproduction</i> , 2014, 148, 353-365.	2.6	27
34	Non-invasive assessment of embryonic sex in cattle by metabolic fingerprinting of in vitro culture medium. <i>Metabolomics</i> , 2014, 10, 443-451.	3.0	27
35	Use of two replacements of serum during bovine embryo culture in vitro. <i>Theriogenology</i> , 2003, 59, 889-899.	2.1	26
36	Gene Expression in Early Expanded Parthenogenetic and In Vitro Fertilized Bovine Blastocysts. <i>Journal of Reproduction and Development</i> , 2009, 55, 607-614.	1.4	25

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37	In vitro development of bovine embryos cultured with activin A. <i>Theriogenology</i> , 2011, 75, 584-588.	2.1	24
38	Effects of glucose and protein sources on bovine embryo development in vitro. <i>Animal Reproduction Science</i> , 2000, 58, 23-37.	1.5	23
39	Development and quality of bovine morulae cultured in serum-free medium with specific retinoid receptor agonists. <i>Reproduction, Fertility and Development</i> , 2008, 20, 884.	0.4	23
40	Expression and localization of interleukin 1 beta and interleukin 1 receptor (type I) in the bovine endometrium and embryo. <i>Journal of Reproductive Immunology</i> , 2015, 110, 1-13.	1.9	23
41	Embryonic Stem Cells in Cattle. <i>Reproduction in Domestic Animals</i> , 2008, 43, 32-37.	1.4	22
42	Low serum concentration in bovine embryo culture enhances early blastocyst rates on Day-6 with quality traits in the expanded blastocyst stage similar to BSA-cultured embryos. <i>Reproductive Biology</i> , 2017, 17, 162-171.	1.9	22
43	Effects of acetoacetate and d- β -hydroxybutyrate on bovine in vitro embryo development in serum-free medium. <i>Theriogenology</i> , 2002, 57, 1551-1562.	2.1	20
44	Retinoids during the in vitro transition from bovine morula to blastocyst. <i>Human Reproduction</i> , 2006, 21, 2149-2157.	0.9	20
45	Acetoacetate and β -d-hydroxybutyrate as energy substrates during early bovine embryo development in vitro. <i>Theriogenology</i> , 1997, 48, 63-74.	2.1	19
46	Protein in culture and endogenous lipid interact with embryonic stages in vitro to alter calf birthweight after embryo vitrification and warming. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1932.	0.4	19
47	Early embryonic and endometrial regulation of tumor necrosis factor and tumor necrosis factor receptor 2 in the cattle uterus. <i>Theriogenology</i> , 2015, 83, 1028-1037.	2.1	18
48	Changes in testosterone or temperature during the in vitro oocyte culture do not alter the sex ratio of bovine embryos. <i>Journal of Experimental Zoology</i> , 2009, 311A, 448-452.	1.2	17
49	Multiple-embryo transfer for studying very early maternal-embryo interactions in cattle. <i>Reproduction</i> , 2015, 150, R35-R43.	2.6	17
50	Polarized Light Microscopy in Mammalian Oocytes. <i>Reproduction in Domestic Animals</i> , 2010, 45, 49-56.	1.4	16
51	Hepatoma-derived growth factor: Protein quantification in uterine fluid, gene expression in endometrial-cell culture and effects on in vitro embryo development, pregnancy and birth. <i>Theriogenology</i> , 2017, 96, 118-125.	2.1	16
52	In vitro cultured bovine endometrial cells recognize embryonic sex. <i>Theriogenology</i> , 2018, 108, 176-184.	2.1	16
53	Constraints to Progress in Embryonic Stem Cells from Domestic Species. <i>Stem Cell Reviews and Reports</i> , 2009, 5, 6-9.	5.6	15
54	Short- and long-term outcomes of the absence of protein during bovine blastocyst formation in vitro. <i>Reproduction, Fertility and Development</i> , 2017, 29, 1064.	0.4	15

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55	Comparative study of PCR-sexing procedures using bovine embryos fertilized with sex-sorted spermatozoa. Spanish Journal of Agricultural Research, 2012, 10, 353.	0.6	14
56	Retinoid receptor-specific agonists regulate bovine in vitro early embryonic development, differentiation and expression of genes related to cell cycle arrest and apoptosis. Theriogenology, 2007, 68, 1118-1127.	2.1	13
57	Non-invasive metabolomics for improved determination of embryonic sex markers in chemically defined culture medium. Journal of Chromatography A, 2016, 1474, 138-144.	3.7	13
58	Elements of functional genital asymmetry in the cow. Reproduction, Fertility and Development, 2014, 26, 493.	0.4	11
59	Flow cytometric cell cycle analysis of cultured brown bear fibroblast cells. Cell Biology International, 2008, 32, 855-859.	3.0	10
60	Tyrosine kinase A, C and fibroblast growth factor-2 receptors in bovine embryos cultured in vitro. Theriogenology, 2009, 71, 1005-1010.	2.1	10
61	Cell Counts and Survival to Vitrification of Bovine <i>In Vitro</i> Produced Blastocysts Subjected to Sublethal High Hydrostatic Pressure. Reproduction in Domestic Animals, 2013, 48, 200-206.	1.4	10
62	Metabolomic Profiling of <i>Bos taurus</i> Beef, Dairy, and Crossbred Cattle: A Between-Breeds Meta-Analysis. Journal of Agricultural and Food Chemistry, 2020, 68, 8732-8743.	5.2	10
63	Metabolites Secreted by Bovine Embryos In Vitro Predict Pregnancies That the Recipient Plasma Metabolome Cannot, and Vice Versa. Metabolites, 2021, 11, 162.	2.9	10
64	Cryopreservation of Brown Bear Skin Biopsies. Cell Preservation Technology, 2008, 6, 83-86.	0.6	9
65	Differential release of cell-signaling metabolites by male and female bovine embryos cultured in vitro. Theriogenology, 2018, 114, 180-184.	2.1	9
66	Metabolomic identification of pregnancy-specific biomarkers in blood plasma of BOS TAURUS beef cattle after transfer of in vitro produced embryos. Journal of Proteomics, 2020, 225, 103883.	2.4	9
67	Blood Plasma Metabolomics Predicts Pregnancy in Holstein Cattle Transferred with Fresh and Vitrified/Warmed Embryos Produced in Vitro. Journal of Proteome Research, 2020, 19, 1169-1182.	3.7	9
68	Macromolecular source as dependent on osmotic pressure and water source: effects on bovine in vitro embryo development and quality. Reproduction, Nutrition, Development, 2003, 43, 487-496.	1.9	8
69	Localisation of stem cell factor, stanniocalcin-1, connective tissue growth factor and heparin-binding epidermal growth factor in the bovine uterus at the time of blastocyst formation. Reproduction, Fertility and Development, 2017, 29, 2127.	0.4	8
70	Expression and localization of ARTEMIN in the bovine uterus and embryos. Theriogenology, 2017, 90, 153-162.	2.1	8
71	Effects of Acetoacetate on in vitro Development of Bovine Embryos in Medium Containing Citrate and Myo-inositol. Reproduction in Domestic Animals, 2001, 36, 189-194.	1.4	7
72	Use of polarized light microscopy in porcine reproductive technologies. Theriogenology, 2011, 76, 669-677.	2.1	7

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73	Morphological and functional characterization of bovine oviductal epithelial cell monolayers cultured on polarizing membranes. <i>Reproduction, Nutrition, Development</i> , 1997, 37, 151-162.	1.9	6
74	PGF2 \pm levels in Day 8 blood plasma are increased by the presence of one or more embryos in the uterus. <i>Animal</i> , 2015, 9, 1355-1360.	3.3	6
75	The Metabolic Signature of In Vitro Produced Bovine Embryos Helps Predict Pregnancy and Birth after Embryo Transfer. <i>Metabolites</i> , 2021, 11, 484.	2.9	6
76	Effects of Acetoacetate on in vitro Development of Bovine Embryos in Medium Containing Citrate and Myo-inositol. <i>Reproduction in Domestic Animals</i> , 2001, 36, 189-194.	1.4	6
77	Apoptosis-independent Poor Morphology of Bovine Embryos Produced by Multiple Ovulation. <i>Reproduction in Domestic Animals</i> , 2006, 41, 383-385.	1.4	5
78	Assessment of Meiotic Spindle Configuration and Post-Warming Bovine Oocyte Viability Using Polarized Light Microscopy. <i>Reproduction in Domestic Animals</i> , 2013, 48, 470-476.	1.4	5
79	Nuclear magnetic resonance analysis of female and male pre-hatching embryo metabolites at the embryo-maternal interface. <i>Metabolomics</i> , 2020, 16, 47.	3.0	4
80	190 A PROCEDURE TO OBTAIN FIBROBLASTS FROM WILD ANIMALS. <i>Reproduction, Fertility and Development</i> , 2005, 17, 245.	0.4	3
81	Ultrastructure and Development of Vitrified/Warmed Bovine Oocytes Matured with 9-cis Retinoic Acid. <i>Cell Preservation Technology</i> , 2006, 4, 123-129.	0.6	3
82	Effects of epinephrine and lactate/pyruvate during the first 48 hours of culture on the freezability of IVF bovine blastocysts. <i>Theriogenology</i> , 1997, 47, 344.	2.1	2
83	Research with parthenogenetic stem cells will help decide whether a safer clinical use is possible. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 325-331.	2.7	2
84	Development of a novel 3D glass-ceramic scaffold for endometrial cell in vitro culture. <i>Ceramics International</i> , 2018, 44, 14920-14924.	4.8	2
85	351 POLARIZED LIGHT MICROSCOPY: DETECTION OF MICROTUBULES AND ITS EFFECTS ON THE VIABILITY OF IN VITRO-MATURED PORCINE OOCYTES. <i>Reproduction, Fertility and Development</i> , 2010, 22, 332.	0.4	2
86	Conservaci3n de la oveja Xalda de Asturias. <i>Animal Genetic Resources Information</i> , 2004, 34, 41-49.	0.1	1
87	249BOVINE GRANULOSA CELLS MRNA EXPRESSION OF PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR- $\hat{\pm}$ AND THE PROTO-ONCOGENE C-FOS. <i>Reproduction, Fertility and Development</i> , 2004, 16, 245.	0.4	1
88	Non-invasive prediction of embryonic sex in cattle by metabolomic analysis of in vitro culture medium with fourier transform infrared spectroscopy. <i>Fertility and Sterility</i> , 2013, 100, S483.	1.0	1
89	127 BINDING RETINOID RECEPTORS BY SPECIFIC AGONISTS AFFECTS THE BOVINE BLASTOCYST DEVELOPMENT IN VITRO. <i>Reproduction, Fertility and Development</i> , 2006, 18, 172.	0.4	1
90	242 DETECTION OF MICROTUBULES BY POLARIZED LIGHT MICROSCOPY IN BOVINE OOCYTES. <i>Reproduction, Fertility and Development</i> , 2009, 21, 219.	0.4	1

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91	156 IN VITRO DEVELOPMENT OF BOVINE MORULAE PRODUCED AND/OR CULTURED WITH ACTIVIN. Reproduction, Fertility and Development, 2010, 22, 236.	0.4	1
92	257 DETECTION OF MICROTUBULES BY POLARIZED LIGHT MICROSCOPY IN SHEEP AND GOAT OOCYTES. Reproduction, Fertility and Development, 2011, 23, 226.	0.4	1
93	83 IMPROVED SURVIVAL TO ONE-STEP REHYDRATION OF VITRIFIED - WARMED VERSUS FROZEN - THAWED IN VITRO-PRODUCED BOVINE BLASTOCYSTS. Reproduction, Fertility and Development, 2013, 25, 189.	0.4	1
94	Non-Invasive Identification of Sex in Cultured Bovine Embryos by UHPLC-MS/MS Metabolomics. Metabolomics, 2022, 18, .	3.0	1
95	176 EFFECT OF LEUKEMIA INHIBITORY FACTOR FROM HUMAN AND MOUSE ORIGIN ON THE DEVELOPMENT OF BOVINE EMBRYOS PRODUCED IN VITRO. Reproduction, Fertility and Development, 2007, 19, 204.	0.4	0
96	178 IN VITRO CULTURE OF BOVINE EMBRYOS WITH NEUROTROPHINS. Reproduction, Fertility and Development, 2007, 19, 205.	0.4	0
97	113 RETINOIC ACID DOES NOT PROTECT AGAINST THE SELECTIVE DAMAGE TO THE BOVINE INNER CELL MASS INFLICTED BY VITRIFICATION. Reproduction, Fertility and Development, 2007, 19, 174.	0.4	0
98	127 DEVELOPMENT AND QUALITY OF BOVINE MORULAE CULTURED IN SERUM-FREE MEDIUM WITH RETINOIC RECEPTOR SPECIFIC AGONISTS. Reproduction, Fertility and Development, 2008, 20, 144.	0.4	0
99	240 DEVELOPMENT, DIFFERENTIATION, AND Trk EXPRESSION IN PARTHENOGENETIC BOVINE BLASTOCYSTS. Reproduction, Fertility and Development, 2008, 20, 199.	0.4	0
100	264 TESTOSTERONE IN THE OOCYTE CULTURE DOES NOT ALTER SEX-RATIO OF IN VITRO PRODUCED BOVINE EMBRYOS. Reproduction, Fertility and Development, 2009, 21, 229.	0.4	0
101	79 A DIMORPHIC RESPONSE TO EARLY MALE AND FEMALE EMBRYOS IN THE BOVINE UTERUS. Reproduction, Fertility and Development, 2012, 24, 152.	0.4	0
102	63 QUALITY OF BOVINE EMBRYOS PRODUCED IN VITRO FROM IMMATURE OOCYTES TREATED WITH A SUBLETHAL HYDROSTATIC PRESSURE. Reproduction, Fertility and Development, 2013, 25, 179.	0.4	0
103	111 FUNCTIONAL AND MOLECULAR GENITAL ASYMMETRY IN THE COW. Reproduction, Fertility and Development, 2013, 25, 203.	0.4	0
104	120 EXPRESSION OF TUMOR NECROSIS FACTOR (TNF) AND ITS RECEPTOR TNFR2 IN BOVINE ENDOMETRIUM AND EMBRYOS DURING THE EARLY DEVELOPMENT. Reproduction, Fertility and Development, 2013, 25, 207.	0.4	0
105	262 MEIOTIC SPINDLE CONFORMATION ASSESSMENT BY POLARIZED LIGHT MICROSCOPY IN SHEEP AND GOAT OOCYTES. Reproduction, Fertility and Development, 2013, 25, 279.	0.4	0