

Enrique Gomez

List of Publications by Year in descending order

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105
papers

2,160
citations

186265

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276875

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108
all docs

108
docs citations

108
times ranked

1992
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Invasive Identification of Sex in Cultured Bovine Embryos by UHPLC-MS/MS Metabolomics. <i>Metabolomics</i> , 2022, 18, .	3.0	1
2	Metabolites Secreted by Bovine Embryos In Vitro Predict Pregnancies That the Recipient Plasma Metabolome Cannot, and Vice Versa. <i>Metabolites</i> , 2021, 11, 162.	2.9	10
3	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
4	Metabolomic Profiling of <i>Bos taurus</i> Beef, Dairy, and Crossbred Cattle: A Between-Breeds Meta-Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 8732-8743.	5.2	10
5	Metabolomic identification of pregnancy-specific biomarkers in blood plasma of BOS TAURUS beef cattle after transfer of in vitro produced embryos. <i>Journal of Proteomics</i> , 2020, 225, 103883.	2.4	9
6	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
7	Blood Plasma Metabolomics Predicts Pregnancy in Holstein Cattle Transferred with Fresh and Vitrified/Warmed Embryos Produced in Vitro. <i>Journal of Proteome Research</i> , 2020, 19, 1169-1182.	3.7	9
8	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
9	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
10	Differential release of cell-signaling metabolites by male and female bovine embryos cultured in vitro. <i>Theriogenology</i> , 2018, 114, 180-184.	2.1	9
11	In vitro cultured bovine endometrial cells recognize embryonic sex. <i>Theriogenology</i> , 2018, 108, 176-184.	2.1	16
12	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
13	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
14	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. <i>Reproduction, Fertility and Development</i> , 2017, 29, 2127.	0.4	8
15	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
16	Expression and localization of ARTEMIN in the bovine uterus and embryos. <i>Theriogenology</i> , 2017, 90, 153-162.	2.1	8
17	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
18	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

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19	Non-invasive metabolomics for improved determination of embryonic sex markers in chemically defined culture medium. <i>Journal of Chromatography A</i> , 2016, 1474, 138-144.	3.7	13
20	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
21	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
22	Multiple-embryo transfer for studying very early maternal-embryo interactions in cattle. <i>Reproduction</i> , 2015, 150, R35-R43.	2.6	17
23	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
24	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
25	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
26	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
27	Hepatoma-derived growth factor: from the bovine uterus to the in vitro embryo culture. <i>Reproduction</i> , 2014, 148, 353-365.	2.6	27
28	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
29	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
30	Elements of functional genital asymmetry in the cow. <i>Reproduction, Fertility and Development</i> , 2014, 26, 493.	0.4	11
31	Cell Counts and Survival to Vitrification of Bovine <i>In Vitro</i> Produced Blastocysts Subjected to Sublethal High Hydrostatic Pressure. <i>Reproduction in Domestic Animals</i> , 2013, 48, 200-206.	1.4	10
32	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
33	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
34	Embryonic Sex Induces Differential Expression of Proteins in Bovine Uterine Fluid. <i>Journal of Proteome Research</i> , 2013, 12, 1199-1210.	3.7	38
35	83 IMPROVED SURVIVAL TO ONE-STEP REHYDRATION OF VITRIFIED - WARMED VERSUS FROZEN - THAWED IN VITRO-PRODUCED BOVINE BLASTOCYSTS. <i>Reproduction, Fertility and Development</i> , 2013, 25, 189.	0.4	1
36	63 QUALITY OF BOVINE EMBRYOS PRODUCED IN VITRO FROM IMMATURE OOCYTES TREATED WITH A SUBLETHAL HYDROSTATIC PRESSURE. <i>Reproduction, Fertility and Development</i> , 2013, 25, 179.	0.4	0

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37	111 FUNCTIONAL AND MOLECULAR GENITAL ASYMMETRY IN THE COW. <i>Reproduction, Fertility and Development</i> , 2013, 25, 203.	0.4	0
38	120 EXPRESSION OF TUMOR NECROSIS FACTOR (TNF) AND ITS RECEPTOR TNFR2 IN BOVINE ENDOMETRIUM AND EMBRYOS DURING THE EARLY DEVELOPMENT. <i>Reproduction, Fertility and Development</i> , 2013, 25, 207.	0.4	0
39	262 MEIOTIC SPINDLE CONFORMATION ASSESSMENT BY POLARIZED LIGHT MICROSCOPY IN SHEEP AND GOAT OOCYTES. <i>Reproduction, Fertility and Development</i> , 2013, 25, 279.	0.4	0
40	Proteome of the Early Embryoâ€œMaternal Dialogue in the Cattle Uterus. <i>Journal of Proteome Research</i> , 2012, 11, 751-766.	3.7	68
41	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
42	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
43	Cryopreservation of the Bovine Oocyte: Current Status and Perspectives. <i>Reproduction in Domestic Animals</i> , 2012, 47, 76-83.	1.4	27
44	Comparative study of PCR-sexing procedures using bovine embryos fertilized with sex-sorted spermatozoa. <i>Spanish Journal of Agricultural Research</i> , 2012, 10, 353.	0.6	14
45	79 A DIMORPHIC RESPONSE TO EARLY MALE AND FEMALE EMBRYOS IN THE BOVINE UTERUS. <i>Reproduction, Fertility and Development</i> , 2012, 24, 152.	0.4	0
46	In vitro development of bovine embryos cultured with activin A. <i>Theriogenology</i> , 2011, 75, 584-588.	2.1	24
47	Use of polarized light microscopy in porcine reproductive technologies. <i>Theriogenology</i> , 2011, 76, 669-677.	2.1	7
48	257 DETECTION OF MICROTUBULES BY POLARIZED LIGHT MICROSCOPY IN SHEEP AND GOAT OOCYTES. <i>Reproduction, Fertility and Development</i> , 2011, 23, 226.	0.4	1
49	Polarized Light Microscopy in Mammalian Oocytes. <i>Reproduction in Domestic Animals</i> , 2010, 45, 49-56.	1.4	16
50	Multiple paternal origins of domestic cattle revealed by Y-specific interspersed multilocus microsatellites. <i>Heredity</i> , 2010, 105, 511-519.	2.6	50
51	156 IN VITRO DEVELOPMENT OF BOVINE MORULAE PRODUCED AND/OR CULTURED WITH ACTIVIN. <i>Reproduction, Fertility and Development</i> , 2010, 22, 236.	0.4	1
52	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
53	Biological differences between in vitro produced bovine embryos and parthenotes. <i>Reproduction</i> , 2009, 137, 285-295.	2.6	58
54	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

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55	Constraints to Progress in Embryonic Stem Cells from Domestic Species. <i>Stem Cell Reviews and Reports</i> , 2009, 5, 6-9.	5.6	15
56	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
57	Tyrosine kinase A, C and fibroblast growth factor-2 receptors in bovine embryos cultured <i>in vitro</i> . <i>Theriogenology</i> , 2009, 71, 1005-1010.	2.1	10
58	Gene Expression in Early Expanded Parthenogenetic and <i>In Vitro</i> Fertilized Bovine Blastocysts. <i>Journal of Reproduction and Development</i> , 2009, 55, 607-614.	1.4	25
59	242 DETECTION OF MICROTUBULES BY POLARIZED LIGHT MICROSCOPY IN BOVINE OOCYTES. <i>Reproduction, Fertility and Development</i> , 2009, 21, 219.	0.4	1
60	264 TESTOSTERONE IN THE OOCYTE CULTURE DOES NOT ALTER SEX-RATIO OF <i>IN VITRO</i> PRODUCED BOVINE EMBRYOS. <i>Reproduction, Fertility and Development</i> , 2009, 21, 229.	0.4	0
61	Flow cytometric cell cycle analysis of cultured brown bear fibroblast cells. <i>Cell Biology International</i> , 2008, 32, 855-859.	3.0	10
62	Embryonic Stem Cells in Cattle. <i>Reproduction in Domestic Animals</i> , 2008, 43, 32-37.	1.4	22
63	Serum free embryo culture medium improves <i>in vitro</i> survival of bovine blastocysts to vitrification. <i>Theriogenology</i> , 2008, 69, 1013-1021.	2.1	63
64	Conventional pluripotency markers are unspecific for bovine embryonic-derived cell-lines. <i>Theriogenology</i> , 2008, 69, 1159-1164.	2.1	64
65	Cryopreservation of Brown Bear Skin Biopsies. <i>Cell Preservation Technology</i> , 2008, 6, 83-86.	0.6	9
66	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
67	<i>In vitro</i> maturation of porcine oocytes with retinoids improves embryonic development. <i>Reproduction, Fertility and Development</i> , 2008, 20, 483.	0.4	31
68	127 DEVELOPMENT AND QUALITY OF BOVINE MORULAE CULTURED IN SERUM-FREE MEDIUM WITH RETINOIC RECEPTOR SPECIFIC AGONISTS. <i>Reproduction, Fertility and Development</i> , 2008, 20, 144.	0.4	0
69	240 DEVELOPMENT, DIFFERENTIATION, AND Trk EXPRESSION IN PARTHENOGENETIC BOVINE BLASTOCYSTS. <i>Reproduction, Fertility and Development</i> , 2008, 20, 199.	0.4	0
70	Effects of human versus mouse leukemia inhibitory factor on the <i>in vitro</i> development of bovine embryos. <i>Theriogenology</i> , 2007, 67, 1092-1095.	2.1	32
71	Retinoid receptor-specific agonists regulate bovine <i>in vitro</i> early embryonic development, differentiation and expression of genes related to cell cycle arrest and apoptosis. <i>Theriogenology</i> , 2007, 68, 1118-1127.	2.1	13
72	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

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73	176 EFFECT OF LEUKEMIA INHIBITORY FACTOR FROM HUMAN AND MOUSE ORIGIN ON THE DEVELOPMENT OF BOVINE EMBRYOS PRODUCED IN VITRO. <i>Reproduction, Fertility and Development</i> , 2007, 19, 204.	0.4	0
74	178 IN VITRO CULTURE OF BOVINE EMBRYOS WITH NEUROTROPHINS. <i>Reproduction, Fertility and Development</i> , 2007, 19, 205.	0.4	0
75	113 RETINOIC ACID DOES NOT PROTECT AGAINST THE SELECTIVE DAMAGE TO THE BOVINE INNER CELL MASS INFLICTED BY VITRIFICATION. <i>Reproduction, Fertility and Development</i> , 2007, 19, 174.	0.4	0
76	Apoptosis-independent Poor Morphology of Bovine Embryos Produced by Multiple Ovulation. <i>Reproduction in Domestic Animals</i> , 2006, 41, 383-385.	1.4	5
77	Bovine Early Embryonic Development and Vitamin A. <i>Reproduction in Domestic Animals</i> , 2006, 41, 63-71.	1.4	44
78	Retinoids during the in vitro transition from bovine morula to blastocyst. <i>Human Reproduction</i> , 2006, 21, 2149-2157.	0.9	20
79	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
80	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
81	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
82	190 A PROCEDURE TO OBTAIN FIBROBLASTS FROM WILD ANIMALS. <i>Reproduction, Fertility and Development</i> , 2005, 17, 245.	0.4	3
83	Testing the usefulness of the molecular coancestry information to assess genetic relationships in livestock using a set of Spanish sheep breeds ¹ . <i>Journal of Animal Science</i> , 2005, 83, 737-744.	0.5	45
84	The Origins of Iberian Horses Assessed via Mitochondrial DNA. <i>Journal of Heredity</i> , 2005, 96, 663-669.	2.4	52
85	Oocytes recovered from cows treated with retinol become unviable as blastocysts produced in vitro. <i>Reproduction</i> , 2005, 129, 411-421.	2.6	28
86	Bovine oocyte vitrification before or after meiotic arrest: effects on ultrastructure and developmental ability. <i>Theriogenology</i> , 2005, 64, 317-333.	2.1	70
87	Conservaci3n de la oveja Xalda de Asturias. <i>Animal Genetic Resources Information</i> , 2004, 34, 41-49.	0.1	1
88	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
89	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
90	Genetic relationships and admixture among sheep breeds from Northern Spain assessed using microsatellites ¹ . <i>Journal of Animal Science</i> , 2004, 82, 2246-2252.	0.5	75

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91	249BOVINE GRANULOSA CELLS MRNA EXPRESSION OF PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR- α AND THE PROTO-ONCOGENE C-FOS. <i>Reproduction, Fertility and Development</i> , 2004, 16, 245.	0.4	1
92	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
93	Genetic analysis of calf survival at different preweaning ages in beef cattle. <i>Livestock Science</i> , 2003, 83, 13-20.	1.2	30
94	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
95	Use of two replacements of serum during bovine embryo culture in vitro. <i>Theriogenology</i> , 2003, 59, 889-899.	2.1	26
96	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
97	Macromolecular source as dependent on osmotic pressure and water source: effects on bovine in vitro embryo development and quality. <i>Reproduction, Nutrition, Development</i> , 2003, 43, 487-496.	1.9	8
98	Enhancement of developmental capacity of meiotically inhibited bovine oocytes by retinoic acid. <i>Human Reproduction</i> , 2002, 17, 2706-2714.	0.9	53
99	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
100	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	7
101	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
102	Effects of glucose and protein sources on bovine embryo development in vitro. <i>Animal Reproduction Science</i> , 2000, 58, 23-37.	1.5	23
103	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
104	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
105	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