

Prof. MARIA ELENA DELL'AQUILA
CURRICULUM VITAE

Name: Maria Elena Dell'Aquila, Degree in Biological Sciences, PhD in Reproductive Biology in Humans and Animals
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Citizenship: Italian

CITATION REPORTS

SCOPUS (21 OCTOBER 2020):

h-index 24; citations: 1843 from 1464 documents

Web of Science (21 OCTOBER 2020):

h-index 23; citations: 1882 from 1475 citing articles

EDUCATION AND ACADEMIC POSITION:

- On 15/07/83: degree in Biological Sciences at University of Bari, Italy.
- 1986-88: Ph.D. in Reproductive Biology in Humans and Domestic Animals (Inst. Reproductive Biology & Obstetrics in Domestic Animals, University of Bari, Italy (Tutor Prof. Paolo Minoia).
- June-Sept 1986: she attended the Animal Research Station, Cambridge (UK), Head Prof. C. Polge, Prof. R.M. Moor as supervisor, to learn methods for in vitro oocyte maturation and fertilization in sheep and cows.
- June 1988: she attended the Institute of Animal Physiology and Genetic Research, Department of Molecular Embryology, Babraham (UK), Head Prof. R.M. Moor, for researches on in vitro production and micromanipulation of bovine embryos.
- 1989: Post-doc course in Reproductive Biology and Biotechnologies in domestic animals;
- On 01/01/1990: she won a position as Laboratory Technician at the same Institute in Bari.
- On 01/11/1993: she won a position as Official Research Technician at the same Institute, in Bari.
- On 16/06/2001: she won a competition as Confirmed Researcher in the VET/10 scientific area (Veterinary Obstetrics and Gynecology), Department Animal Production, Faculty Veterinary Medicine, University of Bari.
- On 01/11/2001: she moved to the Faculty of Biotechnological Sciences, University of Bari.
- On 01/11/2002: she acquired eligibility as Associate Professor in the VET/10 Scientific Area in a competition at University of Milan, Italy, and got the position at the Faculty of Biotechnological Sciences in Bari.
- On 01/10/05: she acquired eligibility as Full Professor in the VET/10 Scientific Area in a competition at the University of Sassari, Italy, and got the position at the same Faculty of Biotechnological Sciences in Bari.
- Since 01/11/08: She is confirmed Full Professor in the VET/10 Scientific Area at the Department of Biosciences, Biotechnologies and Biopharmaceutics (DBBB), University of Bari Aldo Moro, Italy.
- 01/01/2016 to 31/12/2019: she has been the Coordinator, for University of Bari (Dept. Biosciences and Dept. Biology), of the University Orientation Project funded by the Ministry of Education and Scientific Research (Piano Lauree Scientifiche, Biology and Biotechnology section) including 43 Italian Universities;
- Since 01/11/18 to date: she is Coordinator of the Biotechnology Degree and Master Degree Courses at the Department of Biosciences, Biotechnologies and Biopharmaceutics (DBBB), University of Bari Aldo Moro, Italy.

TEACHING ACTIVITY

(updated for the Academic Year 2020/21):

- UNIVERSITY OF BARI ALDO MORO
- "Reproductive Biotechnologies in Domestic Animals" at the Bachelor Degree Course in Agri-food Biotechnologies;
- "Reproductive Biotechnologies" at the Master Degree Course in Medical Biotechnologies and Molecular Medicine;
- "Reproductive Biotechnologies in Domestic Animals" at the Veterinary Specialization School in Physiopathology of Reproduction in Domestic Animals;

RESEARCH ACTIVITY

MAIN RESEARCH AREAS

- Physiology and pathology of gamete and embryo development in farm animals (horse, cow, sheep);
- Reproductive biotechnologies in farm animals for the purposes of animal production industry and as models for human reproductive medicine;
- Reproductive toxicology in farm animal models as alternatives to laboratory animals;
- Isolation and characterization of mesenchymal stem cells from fetal adnexa in farm animals.

SPECIFIC TOPICS

- Biomarkers of ovarian follicle development;
- Invasive and non-invasive biomarkers of oocyte meiotic and developmental competence;
- Oocyte fertilization by conventional in vitro fertilization (IVF) and intracytoplasmic sperm injection (ICSI) and by piezo-assisted ICSI;
- Methods for in vitro culture of pre-implantation embryos;
- Embryo quality evaluation by Conventional Morphology Assessment (CMA) and Time-lapse monitoring of embryo development morphokinetic parameters;
- Somatic cell nuclear transfer (SCNT);
- Cryopreservation (by slow freezing or vitrification) of oocytes, embryos and ovarian tissues;
- Analysis of mitochondria bioenergy potential and oxidative stress in oocytes, embryos, ovarian tissues and primary cultures from fetal adnexa;
- Expression and functional role of G protein- coupled receptors, such as mu opioid receptor (MOR) and extracellular calcium sensing receptor (CaSR) in gametes, embryos and primary cultures from fetal adnexa;
- Effects of environmental contaminants from food and antropogenic activities (mycotoxins, heavy metals and phthalates) on oocyte meiotic and developmental competence and sperm function;
- Isolation, in vitro proliferation and cytogenetic and molecular characterization of fetal adnexa derived mesenchymal stem cells (Wharton's jelly, amnion, amniotic fluid and placental cotyledons);
- Animal models for the identification of early biomarkers of ovarian cancer.

From 2001 to 2013 he has been a member of the PhD Committee of Reproductive Biology in Humans and Domestic Animals included in the PhD School in BioSciences and Methods for Health at University of Bari Aldo Moro, Italy.

Since 2018 she is a member of the PhD Committee of Functional and Applied Genomics and Proteomics at University of Bari Aldo Moro, Italy.

AWARDS:

- Member of the National Scientific Committee of Italian Society of Veterinary Sciences (SISVET) 2016-18
- Member of the Local Organizing Committee of the ICAR Congress Bologna 2020 (post-poned to 2021 due to COVID-19 pandemic emergency)

She is author of 70 full-length peer-reviewed papers published in international scientific journals.

REVIEWER ACTIVITY

- Biology of Reproduction (BOR),
- Molecular Reproduction and Development (MRD),
- Theriogenology,
- Reproductive Biology and Endocrinology (RBE),
- Reproduction in Domestic Animals (RDA),
- Human Reproduction (HR),
- Reproduction,
- Journal of Human Reproduction Science
- Equine Veterinary Journal
- Cell Biology and Toxicology (CBTO)
- Fertility and Sterility
- Animal Reproduction Science (ANIREP)
- Stem Cells

SCIENTIFIC SOCIETIES MEMBERSHIP

Società Italiana Scienze Veterinarie (SISVET),
Società Italiana di Riproduzione (SIR),
Società Italiana di Riproduzione Animale (SIRA),
Federazione delle Società Italiane di Riproduzione (FISSR),
Society for the Study of Reproduction (SSR),
European Society of Human Reproduction and Embryology (ESHRE),
International Embryo Transfer Society (IETS)

RESPONSIBILITY IN RECENTLY FUNDED RESEARCH PROJECTS

- (2003) National Coordinator of the Project **MIUR COFIN PRIN 2003** "Role of endogenous opioid peptides (EOP) as local co-regulators of oocyte maturation and embryogenesis in vitro in domestic animals";
- (2004) Responsible Scientist (Resp. Sci) **Progetto d'Ateneo** University of Bari, Italy, 2004 "Quantitative analysis, by Real Time RT-PCR and immunofluorescence with image analysis, of mu-opioid receptor expression in oocytes, uterus and intestine in the horse";
- (2007) Resp. Sci. **Progetto d'Ateneo** University of Bari, Italy, 2007 "Effects of opioids and polyamines as oxidative stress protectants in assisted reproductive technologies in animal models";
- (2008) Resp. Sci. **Progetto d'Ateneo** University of Bari, Italy, 2008 "Confocal imaging of oocyte lipids/mitochondria association in animal models. Possible marker of oocyte function";
- (2008) Resp. Sci. R.U. for the project by "**Fondazione Cassa di Risparmio di Puglia**" "Salvaguardia delle razze ovine autoctone allevate nella Regione Puglia"/ Safeguard of ovine autoctonous breeds reared in Apulia Region" (2008-2009);
- (2009) Resp. Sci. **Progetto d'Ateneo** University of Bari, Italy, 2009 "Isolation, propagation and characterization of stem cells from umbilical cord in animal models";
- (2009) Resp. Sci. R.U. Project **MIUR Cofin PRIN 2009 (Award by University of Bari, Italy)** "Effetti di composti fenolici ad attività antiossidante derivati da acque di vegetazione olearia su parametri bioenergetici e potenzialità di sviluppo di ovociti vitrificati. Tecnologie innovative per indagini sul modello ovino e applicazioni in medicina riproduttiva umana". / Effects of olive mill wastewater-derived phenolic compounds with antioxidant activity on bioenergy parameters and developmental potential of vitrified oocytes. Novel technologies for investigations in the sheep animal model and applications in human reproductive medicine;
- (2010) Resp. Sci. **Progetto d'Ateneo**, University of Bari, Italy 2010 "Effects of environmental pollutants (phthalates) on female fertility: development of non-invasive tests in animal models to assess bioenergetic status and oxidative stress in the cumulus-oocyte complex";
- (2010) Component of the Italian RU (Univ. Bari) of the **European project**: ENPI CBCMED Cross border cooperation in the Mediterranean PROCAMED "Promotion des systèmes camelins innovants et des filières locales pour une gestion durable des territoires saharienne. Financed in 2010-2013;
- (2011) Resp. Sci. of R.U. for the Project Regione Sardegna - Legge Regione Sardegna 7 Agosto 2007 N°7: "Promozione della Ricerca Scientifica e dell'Innovazione Tecnologica in Sardegna" Progetto (codice CRP-17602) "Strategie innovative diagnostico-terapeutiche per migliorare il potenziale di sviluppo dell'ovocita vitrificato: ricerca traslazionale sul modello animale ovino e applicazioni in medicina riproduttiva umana" Approved September 2011-2014;
- (2012) Resp. Sci. **Progetto d'Ateneo**, University of Bari, Italy 2012. "Effects of extracellular calcium on proliferation and differentiation potency of fetal adnexa-derived stem cells in animal models";
- (2012) Resp. Sci. R.U. in the National **PON MIUR** project "ONEV" (Omiche e Nanotecnologie applicate agli Esseri Viventi per la diagnosi di malattie/ Omics and Nanotechnologies in living beings for disease diagnosis) PON MIUR a3_00134 - Avviso n. 254/Ric. del 18 maggio 2011 (Approved Nov. 2012);
- (2014) Resp.Sci. R.U. in the regional project "LABERPAR" (Laboratorio Benessere ed Efficienza Riproduttiva e Produttiva degli Animali da Reddito/ Laboratory for animal welfare, productive and reproductive efficiency in farm animals) **Rete di Laboratori Pubblici di Ricerca Regione Puglia** Avviso Pubblico BUR Puglia n. 41 del 13 marzo 2008 (Approved Sept. 2011, revised and confirmed February 2013; financed 29/12/2014 and still underway;
- (2014) Component of R.U. for a National Project for **Young Researchers, Ministry of Health**, call 2011-12, (Principal Investigator Dr. N.A. Martino) Title: OMICS biomarkers of xenobiotic- and radiation-induced

ovarian failures in farm animals – Impact on animal production and translational research for human reproductive medicine. Approved January 2014; financed November 2014-July 2018.

- (2015) Co-tutor of a H2020 Marie Skodowska Curie COFUND PhD Program in collaboration with University of Teramo, Italy (PhD Student Dr. S. ASIF) Title: Effects of dietary exposure to ochratoxin A (OTA) mycotoxin below/around guidance values on embryo/fetal development and pregnancy success. Grant Agreement n. 713714. (Tutors Prof. D. Robbe; A. Carluccio). Approved 2016; financed July 2017-July 2020 (still underway).
- (2016) Co-tutor of an "Innovative PhDs of industrial characterization", UE - FSE- FSER, PON RI 2014-2020 Action I.1, XXXII cycle, within the PhD Program "Functional and Applied Genomics and Proteomics" - DOT1302781" - Grant n°2 (PhD Student Dr. A. Mastrorocco) University of Bari, Italy. Title: Development of bioprinting-based ovarian follicle organoids in livestock models and their use in a transparent bioreactor for ovarian toxicity tests: new strategies for risk assessment of chemicals on female fertility. (Tutor Prof. E. Ciani) Approved 2016; financed Nov 2016-Nov 2019.
- (2017) Co-tutor of an "Innovative PhDs of industrial characterization", UE - FSE- FSER, PON RI 2014-2020 (CCI 2014IT16M2OP005) Action I.1, XXXIII cycle, within the PhD Program in Physics, DOT1712250" - Grant n°2 (PhD Student Dr. G. Marzano) in collaboration with University of Salento, Italy, Title: Development of a Lab-on-chip (LOC) prototipe for non-invasive selection and analysis of viable and competent sperm cells. (Tutor Prof. G. Maruccio) Approved 2017; financed Mar 2018-Mar 2021 (still underway).
- (2020/21) Co-tutor of the Research grant: (Dr. A. Mastrorocco) Sviluppo di una tecnologia 3D millifluidica per la produzione in vitro di embrioni da soggetti prepuberi (3D-JIVET); Grant n° VERI00086 in the framework of the "Demetra" Project (Dipartimenti di Eccellenza 2018- 22; CUP code: C46C18000530001) funded by MIUR.

List of Publications (last 20 years)

FULL PAPERS (by 20 October 2020)

1. **DELL'AQUILA ME**, ASIF S, TEMERARIO L, MASTROROCCO A, MARZANO G, MARTINO NA, LACALANDRA GM, ROELEN BAJ, CARLUCCIO A, ROBBE D, MINERVINI F. Ochratoxin A affects oocyte maturation and subsequent embryo developmental dynamics in the juvenile sheep model. *Mycotoxin Research* 2020 <https://doi.org/10.1007/s12550-020-00410-y>.
2. MASTROROCCO A, CACOPARDO L, MARTINO NA, FANELLI D, CAMILLO F, CIANI E, ROELEN BAJ, AHLUWALIA A, **DELL'AQUILA ME**. One-step automated bioprinting-based method for cumulus-oocyte complex microencapsulation for 3D *in vitro* maturation. *PLoS ONE* 2020 15(9): e0238812. <https://doi.org/10.1371/journal.pone.0238812>.
3. MASTROROCCO A, CIANI E, NICASSIO L, ROELEN BAJ, MINERVINI F, **DELL'AQUILA ME**. Beauvericin alters the expression of genes coding for key proteins of the mitochondrial chain in ovine cumulus-oocyte complexes. *Mycotoxin Research* 2020 <https://doi.org/10.1007/s12550-020-00409-5>.
4. ZUPA R, MARTINO NA, MARZANO G, **DELL'AQUILA ME**, CORRIERO A. Meagre *Argyrosomus regius* (Asso, 1801) stem spermatogonia: histological characterization, immunostaining, *in vitro* proliferation and cryopreservation. *Animals* 2020, 10(5), 851; <https://doi.org/10.3390/ani10050851>.
5. MASTROROCCO A, MARTINO NA, MARZANO G, LACALANDRA GM, CIANI E, ROELEN BAJ, **DELL'AQUILA ME**, MINERVINI F. The mycotoxin beauvericin induces oocyte mitochondrial dysfunction and affects embryo development in the juvenile sheep. *Mol Reprod Dev.* 2019 Oct;86(10):1430-1443. doi: 10.1002/mrd.23256.
6. MARZANO G, MOSCATELLI N, DI GIACOMO M, MARTINO NA, LACALANDRA GM, **DELL'AQUILA ME**, MARUCCIO G, PRIMICERI E, CHIRIACÒ MS, ZARA V, FERRAMOSCA A. Centrifugation force and time alter CASA parameters and oxidative status of cryopreserved stallion sperm. *Biology (Basel)*. 2020 Jan 27;9(2). pii: E22. doi: 10.3390/biology9020022.
7. MARZANO G, CHIRIACÒ MS, PRIMICERI E, **DELL'AQUILA ME**, RAMALHO-SANTOS J, ZARA V, FERRAMOSCA A, MARUCCIO G. Sperm selection in assisted reproduction: A review of established methods and cutting-edge possibilities. *Biotechnol Adv.* 2019 Dec 11:107498. doi: 10.1016/j.biotechadv.2019.107498.
8. MARTINO NA, MARZANO G, MASTROROCCO A, LACALANDRA GM, VINCENTI L, HINRICHS K, **DELL'AQUILA ME**. Use of time-lapse imaging to evaluate morphokinetics of *in vitro* equine blastocyst development after oocyte holding for two days at 15°C versus room temperature before intracytoplasmic sperm injection. *Reprod Fertil Dev.* 2019 Nov 11. doi: 10.1071/RD19223.
9. MARZANO G, MASTROROCCO A, ZIANNI R, MANGIACOTTI M, CHIARAVALLE AE, LACALANDRA GM, MINERVINI F, CARDINALI A, MACCIOCCA M, VICENTI R, FABBRI R, HINRICHS K, **DELL'AQUILA ME**, MARTINO

- NA. Altered morphokinetics in equine embryos from oocytes exposed to DEHP during IVM. *Mol Reprod Dev*. 2019 Oct;86(10):1388-1404. doi: 10.1002/mrd.23156.
10. MUZZACHI S, GUERRA L, MARTINO NA, FAVIA M, PUNZI G, SILVESTRE F, GUARICCI AC, ROSCINO MT, PIERRI CL, **DELL'AQUILA ME**, CASAVOLA V, LACALANDRA GM, CIANI E. Effect of cariporide on ram sperm pH regulation and motility: possible role of NHE1. *Reproduction*. 2018 May;155(5):433-445. doi: 10.1530/REP-17-0456.
 11. DOUET C, PARODI O, MARTINO NA, LACALANDRA GM, NICASSIO M, REIGNER F, DELEUZE S, **DELL'AQUILA ME**, GOUDET G. Exposure to follicular fluid during oocyte maturation and oviductal fluid during post-maturation does not improve in vitro embryo production in the horse. *Zygote*. 2017 Oct;25(5):612-630.
 12. MARTINO NA, MARZANO G, MANGIACOTTI M, MIEDICO O, SARDANELLI AM, GNONI A, LACALANDRA GM, CHIARAVALLE AE, CIANI E, BOGLIOLO L, MINERVINI F, PIZZI F, **DELL'AQUILA ME**. Exposure to cadmium during in vitro maturation at environmental nanomolar levels impairs oocyte fertilization through oxidative damage: A large animal model study. *Reprod Toxicol*. 2017;69:132-145. doi:10.1016/j.reprotox.2017.02.005.
 13. MARTINO NA, ARIU F, BEBBERE D, URANIO MF, CHIRICO A, MARZANO G, SARDANELLI AM, CARDINALI A, MINERVINI F, BOGLIOLO L, **DELL'AQUILA ME**. Supplementation with nanomolar concentrations of verbascoside during in vitro maturation improves embryo development by protecting the oocyte against oxidative stress: a large animal model study. *Reprod Toxicol*. 2016;65:204-211. doi: 10.1016/j.reprotox.2016.08.004.
 14. FABBRI R, VICENTI R, MACCIOCCA M, MARTINO NA, **DELL'AQUILA ME**, PASQUINELLI G, MORSELLI- LABATE AM, SERACCHIOLI R, PARADISI R. Morphological, ultrastructural and functional imaging of frozen/thawed and vitrified/warmed human ovarian tissue retrieved from oncological patients. *Hum Reprod*. 2016 Jun 9. pii: dew134.; doi:10.1093/humrep/dew134
 15. ACCOGLI G, DESANTIS S, MARTINO NA, **DELL'AQUILA ME**, GEMEINER P, KATRLÍK J, GLYCOCONJ J. A lectin-based cell microarray approach to analyze the mammalian granulosa cell surface glycosylation profile. 2016 doi: 10.1007/s10719-016-9666-2
 16. RUTIGLIANO L, VALENTINI L, MARTINO NA, PIZZI F, ZANGHI' A, **DELL'AQUILA ME**, MINERVINI F. Ochratoxin A at low concentration inhibits in vitro growth of canine umbilical cord mesenchymal cells through oxidative chromatin and DNA damage. *REPRODUCTIVE TOXICOLOGY* 2015;57:121-129. pii: S0890-6238(15)00108-2. doi:10.1016/j.reprotox.2015.05.017.
 17. SOMOSKOI B, MARTINO NA, CARDONE RA, LACALANDRA GM, **DELL'AQUILA ME**, CSEH S. Different chromatin and energy/redox responses of mouse morula and blastocyst embryos to slow freezing and vitrification. *REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY* 2015, Mar 24; 13:22. Doi:10.1186/s12958-015-0018-z.
 18. MARTINO NA, RIZZO A, **DELL'AQUILA ME**, SCIORSCI RL. Effects of Kisspeptin-10 on in vitro proliferation and Kisspeptin receptor (Kiss-1R) expression in primary epithelial cell culture isolated from bovine placental cotyledons of fetuses at the first trimester of pregnancy. *THERIOGENOLOGY* 2014 Dec 3. pii: S0093-691X(14)00653-0. doi: 10.1016/j.theriogenology.2014.11.033. [Epub ahead of print] PMID: 25549944.
 19. MARTINO NA, RESHKIN SJ, CIANI E, **DELL'AQUILA ME**. Calcium-sensing receptor-mediated osteogenic and neurogenic differentiation in umbilical cord matrix mesenchymal stem cells from a large animal model. *PLoS ONE*, 2014 Nov 7;9(11):e111533. doi: 10.1371/journal.pone.0111533. eCollection 2014.
 20. MARTINO NA, **DELL'AQUILA ME**, FILIOLI URANIO M, RUTIGLIANO L, NICASSIO M, LACALANDRA GM, HINRICHS K. Effect of holding equine oocytes in meiosis inhibitor-free medium before in vitro maturation and of holding temperature on meiotic suppression and mitochondrial energy/redox potential. *REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY*, 2014 Oct 11;12(1):99. doi: 10.1186/1477-7827-12-99. PMID: 25306508.
 21. ACCOGLI G, DOUET C, AMBRUOSI B, MARTINO NA, FILIOLI URANIO M¹, DELEUZE S⁶, **DELL'AQUILA ME**, DESANTIS S, GOUDET G. Differential expression and localization of glycosidic residues in *in vitro* and *in vivo* matured cumulus-oocyte complexes in equine and porcine species. *MOLECULAR REPRODUCTION AND DEVELOPMENT*, 2014 Dec;81(12):1115-35. doi: 10.1002/mrd.22432. Epub 2014 Dec 15. PMID: 25511183.
 22. FILIOLI URANIO M, **DELL'AQUILA ME**, CAIRA M, GUARICCI AC, VENTURA M, CATACCHIO CR, MARTINO NA, VALENTINI L. FILIOLI URANIO M. Characterization and in vitro differentiation potency of early passage canine amnion- and umbilical cord-derived mesenchymal stem cells as related to gestational age. *MOLECULAR REPRODUCTION AND DEVELOPMENT* 2014 Jun;81(6):539-51. doi: 10.1002/mrd.22322. Epub 2014 Apr 18. PMID: 24659564.
 23. FABBRI R, VICENTI R, MARTINO NA, **DELL'AQUILA ME**, PASQUINELLI G, VENTUROLI S. Confocal laser microscopy scanning analysis of bioenergetic potential and oxidative stress in fresh and frozen-thawed human ovarian tissue from oncological patients. *FERTILITY AND STERILITY* 2014 Mar; 101 (3): 795-804. doi: 10.1016/j.fertnstert.2013.11.032. Epub 2014 Jan 11. pii:S0015-0282(13)03292-5. PMID: 24424364.
 24. **DELL'AQUILA ME**, BOGLIOLO L, RUSSO R, MARTINO NA, FILIOLI URANIO M, ARIU F, AMATI F, SARDANELLI AM, LINSALATA V, FERRUZZI MG, CARDINALI A, MINERVINI F. Pro-oxidant effects of Verbascoside, a bioactive

- compound from olive oil mill wastewater, on in vitro developmental potential of ovine prepubertal oocytes and bioenergetic/oxidative stress parameters of fresh and vitrified oocytes. Special Issue "Prooxidant mechanisms in toxicology" - BIOMED RESEARCH INTERNATIONAL 2014 - Toxicology section:878062. doi: 10.1155/2014/878062. Epub 2014 Feb 25. PMID: 24719893.
25. RUSSO R, MONACO D, RUBESSA M, EL BAHRAWY KA, EL-SAYED A, MARTINO NA, BENEULT B, CIANNARELLA F, **DELL'AQUILA ME**, LACALANDRA GM, FILIOLI URANIO M. Confocal fluorescence assessment of bioenergy/redox status of dromedary camel (*Camelus dromedarius*) oocytes before and after in vitro maturation. REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY 2014. Feb 18;12(1):16. doi: 10.1186/1477-7827-12-16. PMID: 24548378.
 26. CASSATELLA D, MARTINO NA, VALENTINI L, GUARICCI AC, CARDONE MF, PIZZI F, **DELL'AQUILA ME**, VENTURA M. Male infertility and copy number variants in the dog: a two-pronged approach using computer-aided sperm analysis and fluorescence *in situ* hybridization. BMC Genomics. 2013 Dec 27;14:921. doi: 10.1186/1471-2164-14-921. PMID: 24373333.
 27. MARTINO NA, **DELL'AQUILA ME**, CARDONE RA, SOMOSKOI B, LACALANDRA GM, CSEH S. Vitrification preserves chromatin integrity, bioenergy potential and oxidative parameters in mouse embryos. REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY 2013 Apr 3;11:27-37. doi: 10.1186/1477-7827-11-27. PMID: 23552480.
 28. LANGE-CONSIGLIO A, ARRIGHI S, FIANDANESE N, POCAR P, ARALLA M, BOSI G, BORROMEIO V, BERRINI A, MEUCCI A, **DELL'AQUILA ME**, CREMONESI F. Follicular fluid Leptin concentrations and expression of Leptin and Leptin Receptor in the equine ovary or in vitro matured oocyte with reference to pubertal development and breeds. REPRODUCTION, FERTILITY AND DEVELOPMENT 2013;25:837-846.
 29. MINERVINI F, GUASTAMACCHIA R, PIZZI F, **DELL'AQUILA ME**, BARILE VL. Assessment of different functional parameters of frozen-thawed buffalo spermatozoa by using cytofluorimetric determinations. REPRODUCTION IN DOMESTIC ANIMALS 2013;48:317-324.
 30. CARDONE RA, GRECO MR, CAPULLI M, WEINMAN EJ, BUSCO G, BELLIZZI A, CASAVOLA V, ANTELM E, AMBRUOSI B, **DELL'AQUILA ME**, PARADISO A, TETI A, RUCCI N, RESKHIN SJ. NHERF1 acts as a molecular switch to program metastatic behavior and organotropism via its PZD domain. Mol Biol Cell 2012; 23:2028-2040.
 31. MARTINO NA, LACALANDRA GM, FILIOLI URANIO M, AMBRUOSI B, CAIRA M, SILVESTRE F, PIZZI F, DESANTIS S, ACCOGLI G, **DELL'AQUILA ME**. Oocyte mitochondrial bioenergy potential and oxidative stress: within-/between-subject, in vivo versus in vitro maturation, and age-related variations in a sheep model. FERTILITY AND STERILITY 2012; 97:720-728.
 32. AMBRUOSI B, FILIOLI URANIO M, SARDANELLI AM, POCAR P, MARTINO NA, PATERNOSTER MS, AMATI F, **DELL'AQUILA ME**. In vitro acute exposure to DEHP affects oocyte meiotic maturation, energy and oxidative stress parameters in a large animal model. PLOS ONE 2011; 6(11):e.0027452.
 33. FILANNINO A, STOUT TAE, GADELLA BM, SOSTARIC E, PIZZI F, COLENBRANDER B, **DELL'AQUILA M.E.**, MINERVINI F. Dose-response effects of estrogenic mycotoxins (zearalenone, alpha- and beta-zearalenol) on motility, hyperactivation and the acrosome reaction of stallion sperm. REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY 2011; 9: 134-144.
 34. FILIOLI URANIO M, VALENTINI L, LANGE CONSIGLIO A, CAIRA M, GUARICCI A.C, L'ABBATE A, CATAACCHIO CR, VENTURA M, CREMONESI F, **DELL'AQUILA ME**. Isolation, proliferation cytogenetic and molecular characterization and in vitro differentiation potency of canine stem cells from foetal adnexa: a comparative study of amniotic fluid, amnion and umbilical cord matrix. MOLECULAR REPRODUCTION AND DEVELOPMENT 2011, vol. 78, p. 361-373.
 35. MARTINO NA, LANGE CONSIGLIO A, CREMONESI F, VALENTINI L, CAIRA M, GUARICCI AC, AMBRUOSI B, LACALANDRA GM, SCIORSCI RL, RESKHIN SJ, **DELL'AQUILA ME**. Functional expression of the extracellular Calcium Sensing Receptor (CaSR) in equine umbilical cord matrix size-sieved stem cells. PLOS ONE 2011;6(3):e17714.
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