**Prof. DELL’AQUILA MARIA ELENA**

**CURRICULUM VITAE**

**PERSONAL DATA**

Name: Maria Elena Dell’Aquila, BSc, PhD

Date and Place of Birth: July 22, 1959; Foggia (Italy)

Citizenship: Italian

Marital Status: Married

**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 competition as Laboratory Technician at the same Institute in Bari.
* On 01/11/1993: she won a competition 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 Animal Production, University of Bari Aldo Moro, Italy.
* On 22/07/2012, she moved to the Department of Emergency and Organ Transplantation (DETO) – Section of Veterinary Clinics and Animal Productions, University of Bari Aldo Moro, Italy.
* On 01/11/14 she moved to the Department of Biosciences, Biotechnologies and Biopharmaceutics (DBBB), University of Bari Aldo Moro, Italy.

**TEACHING ACTIVITY**

(updated for the Academic Year 2017/18):

* 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;
* UNIVERSITY OF SANNIO
* “Reproductive Biotechnologies in large animal models” at the Master Degree Course in Genetic Sciences and Technologies;

**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.

**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

She is author of 60 full-length peer-reviewed papers published in international scientific journals.

**CITATION REPORTS**

**Web of Science (9 FEBBRAIO 2018):**

h-index 19; citations: 1209; without self cit: 1093; citing articles: 988; without self cit: 946;

**SCOPUS author details (9 FEBBRAIO 2018):**

h-index 21; citations: 1346;

**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 Nº7: “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 differenziation 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 and still underway.

**List of Pubblications (last 15 years)**

**FULL PAPERS (by March 2019)**

1. 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.](https://www.ncbi.nlm.nih.gov/pubmed/29491124) Reproduction. 2018 May;155(5):433-445. doi: 10.1530/REP-17-0456.
2. 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.](https://www.ncbi.nlm.nih.gov/pubmed/28929977) Zygote. 2017 Oct;25(5):612-630.
3. 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.
4. 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.
5. 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
6. 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
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. Accogli G,DOUET C, AMBRUOSI B, MARTINO NA, FILIOLI URANIO M*1*, DELEUZE S*6*, **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.
13. 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.
14. FABBRI R, VINCENTI 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.
15. **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.
16. 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.
17. CASSATELLA D, MARTINONA, VALENTINI L, GUARICCI AC, CARDONEMF, PIZZI F, **DELL’AQUILAME**, 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.
18. 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.
19. Lange-Consiglio A, Arrighi S, Fiandanese N, Pocar P, Aralla M, Bosi G, Borromeo 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.
20. 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.
21. CARDONE RA, GRECO MR, CAPULLI M, WEINMAN EJ, BUSCO G, BELLIZZI A, CASAVOLA V, ANTELMI 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.
22. 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.
23. 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.
24. 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.
25. FILIOLI URANIO M, VALENTINI L, LANGE CONSIGLIO A, CAIRA M, GUARICCI A.C, L'ABBATE A, CATACCHIO 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.
26. MARTINO NA, LANGE CONSIGLIO A, CREMONESI F, VALENTINI L, CAIRA M, GUARICCI AC, AMBRUOSI B, LACALANDRA GM, SCIORSCI RL, RESHKIN 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.
27. BUSCO G, CARDONE RA, GRECO MR, BELLIZZI A, COLELLA M, ANTELMI E, MANCINI MT, **DELL’AQUILA ME**, CASAVOLA V, PARADISO A, RESKHIN SJ. NHE1 promotes invadopodial ECM proteolysis through acidification of the peri-invadopodial space. FASEB J 2010; 24:3903-3915.
28. MINERVINI F, LACALANDRA GM, FILANNINO A, GARBETTA, NICASSIO M, **DELL’AQUILA ME**, VISCONTI A. Toxic effects induced by mycotoxin fumonisin on equine spermatozoa: assessment of viability, sperm chromatin structure stability, ROS production and motility. TOXICOLOGY IN VITRO 2010; 24(8): 2072-2078.
29. ROMAR R, DE SANTIS T, PAPILLIER P, PERREAU C, THELIE A, **DELL'AQUILA ME,** MERMILLOD P, DALBIES-TRAN R. Expression of maternal transcripts during bovine oocyte in vitro maturation is affected by donor age. REPRODUCTION IN DOMESTIC ANIMALS 2011, vol. 46, p. e23-e30.
30. LIU GE, HOU Y, ZHU B, CARDONE MF, JIANG L, CELLAMARE A, MITRA A, ALEXANDER LJ, COUTINHO LL, **DELL'AQUILA ME,** GASBARRE LC, LACALANDRA G, LI RW, MATUKUMALLI LK, NONNEMAN D, REGITANO LC, SMITH TP, SONG J, SONSTEGARD TS, VAN TASSELL CP, VENTURA M, EICHLER EE, MCDANELD TG, KEELE JW. Analysis of copy number variations among diverse cattle breeds. GENOME RESEARCH 2010;20:693-703.
31. MINERVINI F, LACALANDRA GM, FILANNINO A, NICASSIO M, VISCONTI A, **DELL'AQUILA ME.** Effects of in vitro exposure to natural levels of zearalenone and its derivatives on chromatin structure stability (SCSA) in equine spermatozoa. THERIOGENOLOGY 2010; 73:392-403.
32. MINERVINI F, LACALANDRA GM, FILANNINO A, GARBETTA A, NICASSIO M, **DELL'AQUILA ME,** VISCONTI A. Toxic effects induced by mycotoxin fumonisin B1 on equine spermatozoa: assessment of viability, sperm chromatin structure stability, ROS production and motility. TOXICOLOGY IN VITRO 2010, vol. Dec;24, p. 2072-2078.
33. GIANNOCCARO A, LACALANDRA GM, FILANNINO A, PIZZI F, NICASSIO M, **DELL'AQUILA ME,** MINERVINI F. Assessment of viability, chromatin structure stability, mitochondrial function and motility of stallion fresh sperm by using objective methodologies. JOURNAL OF CELL AND ANIMAL BIOLOGY 2010;4:34-41.
34. LANGE CONSIGLIO A, **DELL'AQUILA ME,** FIANDANESE N, AMBRUOSI B, CHO YS, BOSI G, ARRIGHI S, LACALANDRA GM, CREMONESI F (2009). Effects of leptin on in vitro maturation, fertilization and embryonic cleavage after ICSI and early developmental expression of leptin (Ob) and leptin receptor (ObR) proteins in the horse. REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY, vol. 7, p. 113-131.
35. IORGA AI, VALENTINI L, DE SANTIS T, AMBRUOSI B, ALBRIZIO M, GUARICCI AC, CAIRA M, **DELL'AQUILA ME**. Expression of the mu opioid receptor and effects of the opioid antagonist Naloxone on in vitro maturation of oocytes recovered from anestrous bitches. REPRODUCTION IN DOMESTIC ANIMALS 2009, vol. 44, p. 263-268.
36. MUGNIER S, **DELL'AQUILA ME,** PELAEZ J, DOUET C, AMBRUOSI B, DE SANTIS T, LACALANDRA GM, LEBOS C, SIZARET PY, DELALEU B, MONGET P, MERMILLOD P, MAGISTRINI M, MEYERS SA, GOUDET G. New Insights into the Mechanisms of Fertilization: Comparison of the Fertilization Steps, the Composition, and the Structure of the Zona Pellucida Between Horses and Pigs. BIOLOGY OF REPRODUCTION 2009, vol. 81, p. 856-870.
37. DE SANTIS T, CASAVOLA V, RESHKIN SJ, GUERRA L, AMBRUOSI B, FIANDANESE N, DALBIES-TRAN R, GOUDET G, **DELL'AQUILA ME.** The extracellular Calcium Sensing Receptor (CaSR) is expressed in the cumulus-oocyte complex in mammalians and modulates oocyte meiotic maturation. REPRODUCTION 2009, vol. 138, p. 439-452.
38. DESANTIS S, VENTRIGLIA G, ZIZZA S, DE SANTIS T, DI SUMMA A, DE METRIO G, **DELL'AQUILA ME.** Lectin-binding sites in isolated equine cumulus-oocyte complexes. Differential expression of glycosidic residues in complexes recovered with compact or expanded cumulus. THERIOGENOLOGY 2009, vol. 72, p. 300-309.
39. VALENTINI L, IORGA AI, DE SANTIS T, AMBRUOSI T, REYNAUD K, CHASTANT-MAILLARD S, GUARICCI AC, CAIRA M, **DELL'AQUILA ME.** Mitochondrial Distribution Patterns in Canine Oocytes as Related to the Reproductive Cycle Stage. ANIMAL REPRODUCTION SCIENCE 2010, vol. 117, p. 166-177.
40. MINERVINI F, **DELL'AQUILA ME.** (2008). Zearalenone and reproductive function in farm animals. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol. 9, p. 2570-2584.
41. AMBRUOSI B, LACALANDRA GM, IORGA AI, DE SANTIS T, MUGNIER S, MATARRESE R, GOUDET G, **DELL'AQUILA ME.** (2009). Cytoplasmic lipid droplets and mitochondrial distribution in equine oocytes: implications on oocyte maturation, fertilization and developmental competence after ICSI. THERIOGENOLOGY, vol. 15, p. 1093-1104.
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**CHAPTER IN A BOOK**

**1. DELL’AQUILA ME,** CHO YS, MARTINO NA, FILIOLI URANIO M, RUTIGLIANO L, HINRICHS K. OMICS for the identification of biomarkers for oocyte competence, with special reference to the mare as a prospective model for human reproductive medicine. Chapter 14: 257-282. In: Meiosis - Molecular Mechanisms and Cytogenetic Diversity. Editor Andrew Swan. Publisher: INTECHWEB.ORG: ISBN 978- 953-51-0118-5. (2012).

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**ABSTRACT ON PROCEEDINGS OF NATIONAL CONGRESSES**

1. MARTINO NA, D'ALESSANDRO MV, LACALANDRA GM, TOMAIUOLO M, MACCIOCCA M, VICENTI R, CHIARAVALLE E, MANGIACOTTI M AND **DELL'AQUILA ME.** Exposure to low-dose x-ray radiation before in vitro maturation affects oocyte bioenergetic/oxidative status in the sheep model. LXXII Convegno SISVET, XV Convegno AIPVet, II Convegno ANIV, X Convegno ARNA, V Convegno RNIV, I Convegno SICLIM-Vet, XVIII Convegno SICV, XVI Convegno SIRA. 20 – 22 Giugno 2018. Torino, Italia.
2. MARTINO NA, MARZANO G, CIANI E, D'ERCHIA AM, PICARDI E, PESOLE G AND **DELL'AQUILA ME.** Effects of cadmium supplementation during in vitro maturation on cumulus cell transcriptome. LXXII Convegno SISVET, XV Convegno AIPVet, II Convegno ANIV, X Convegno ARNA, V Convegno RNIV, I Convegno SICLIM-Vet, XVIII Convegno SICV, XVI Convegno SIRA. 20 – 22 Giugno 2018. Torino, Italia.
3. MASTROROCCO A, MARTINO NA, CAMILLO F, FANELLI D, CIANI E, AHLUWALIA A AND **DELL'AQUILA ME.** Encapsulation of ovine cumulus-oocyte complexes in tailored alginate microbeads – towards modeling of ovarian follicle organoids. LXXII Convegno SISVET, XV Convegno AIPVet, II Convegno ANIV, X Convegno ARNA, V Convegno RNIV, I Convegno SICLIM-Vet, XVIII Convegno SICV, XVI Convegno SIRA. 20 – 22 Giugno 2018. Torino, Italia.
4. MASTROROCCO A, MARZANO G, MARTINO NA, LACALANDRA GM, CIANI E, ROELEN B.A.J, MINERVINI F AND **DELL'AQUILA ME.** Beauvericin disturbs nuclear and cytoplasmic maturation of prebupertal sheep oocytes. LXXII Convegno SISVET, XV Convegno AIPVet, II Convegno ANIV, X Convegno ARNA, V Convegno RNIV, I Convegno SICLIM-Vet, XVIII Convegno SICV, XVI Convegno SIRA. 20 – 22 Giugno 2018. Torino, Italia.
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