

Curriculum Vitæ

Personal information

Name: Nicola Antonio MARTINO

E-mail: nicola.martino@uniba.it

Date of birth: 15 April 1984

Nationality: Italian

Scientific qualifications

- **Abilitation as Full Professor** for the sector 07/H5 (Veterinary Surgery and Obstetrics) obtained on 10/11/2020;
- **Abilitation as Associate Professor** for the sector 07/H5 (Veterinary Surgery and Obstetrics) obtained on 31/03/2017;
- **PhD** with the “Doctor Europæus” award on Reproductive Biology of Human and Domestic Animals obtained on 18/03/2013;
- Qualification for the profession of biologist awarded on 24/02/2015;
- Expert of OMIC platforms for the characterization of germ cells, embryos and cell systems of the reproductive system of domestic animals, as part of the ONEV project (Omica e Nanotecnologie applicate agli Esseri Viventi per la diagnosi delle malattie) obtained on 20/12/2014.

Citation Reports (7/10/2022)

- **Total number of publications** in peer-review journals: Scopus 38; Wos: 39; Scholar: 80
- **Total number of citations:** Scopus 580; Wos: 547 Scholar: 848
- **H index:** Scopus 15; Wos: 16 ; Scholar: 19
- Author of n° 36 published full papers; n° 11 abstract on international journal with referee; n° 17 proceedings of International Conferences and n° 33 proceedings of National Conferences.

Education and training

1) **Date:** December 2006

Title of qualification awarded: Bachelor’s Degree in Health and Pharmaceutical Biotechnology

Final grade: 105/110.

Organization: Faculty of Biotechnology Science, University of Bari Aldo Moro, Bari, Italy

Title of the thesis: “Evaluation of exposure to zearalenone mycotoxin in the horse. Toxic effects on spermatozoa as assessed by flow cytometry”.

Supervisor: Prof. Maria Elena Dell’Aquila

Correlator: Dr. Fiorenza Minervini (Institute of Sciences of Food Production (ISPA), National Research Council, CNR, Bari)

2) **Date:** December 2009

Title of qualification awarded: Master’s Degree in Medical Biotechnology and Molecular Medicine

Final grade: 108/110.

Organization: Faculty of Biotechnology Science, University of Bari Aldo Moro, Bari, Italy

Title of the thesis: “Effects of calcium and calcimimetic NPS R-467 on growth/proliferation of size-sieved stem cells from equine umbilical cord matrix. Possible involvement of the extracellular Calcium Sensing Receptor (CaSR)”.

Supervisor: Prof. Maria Elena Dell'Aquila

Correlators: Prof. Raffaele Luigi Sciorsci (Department of Animal Production, Faculty of Veterinary Medicine, Valenzano (Bari), Italy); Dott.ssa Anna Lange Consiglio (Reproduction Unit, Large Animal Hospital, Faculty of Veterinary Medicine Lodi, Milan, Italy)

3) **Date:** 23 June 2012 – 21 December 2012 (within the PhD course)

Organization: Ludwig-Maximilians University, Munich, Germany.

Scientific activities: Bovine and Pig in vitro oocyte maturation, fertilization and embryo culture; Somatic Cell Nuclear Transfer by using rabbit oocytes and fibroblasts or mesenchymal stem cells isolated from fetal and adult animal, embryo culture and epigenetic analysis.

4) **Date:** March 2013

Title of qualification awarded: PhD fellow in “Reproductive Biology of Human and Domestic Animals”

Organization: University of Bari Aldo Moro, Department of Animal Production, Bari, Italy

Title of the thesis: Proliferative, differentiative and reprogramming potency of fetal stem cells in farm animals. Effects of Calcium Sensing Receptor (CaSR) activation

Supervisor: Prof. Maria Elena Dell'Aquila (Department of Animal Production, Faculty of Biotechnological Sciences, Valenzano, Bari, Italy)

5) **Date:** January 2013 – December 2014

Institution: Experimental Zooprophyllactic Institute of Puglia and Basilicata

Occupation: postdoctoral fellow

Title of the project: “ONEV – Omica e Nanotecnologie applicate agli esseri viventi per la diagnosi delle malattie (OMICS and Nanotechnologies applied to living organisms for the diagnosis of diseases)” presentato nell’ambito del Programma Operativo Nazionale (PON) “Ricerca e Competitività” 2007-2013 – Regioni Convergenza – Sezione: PONa3_00134.

Organization: Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Foggia and the University of Bari Aldo Moro - Department of Emergency and Organ Transplantation

Work experiences

1) **Date:** November 2014 – November 2017 (Co.Co.Co contract)

Institution: Experimental Zooprophyllactic Institute of Puglia and Basilicata

Occupation: Principal Investigator

Title of the project: “OMICS biomarkers of xenobiotic- and radiation-induced ovarian failure in farm animals - Impact on animal production and translational research for human reproductive medicine”. - code WFR GR-2011-02351396 (Ministry of Health, Young Researchers Grant 2011/2012) in collaboration with the following partners: Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata (Dr. E. Chiaravalle), University of Bari – Department of Bioscience, Biotechnology and Biopharmaceutical (Dr. E. Ciani), University of Bologna (Dr. R. Fabbri).

2) **Date:** 21 November 2014 – 21 December 2014 (within the GR-2011-02351396 project)

Research experience in the equine embryo laboratory and the equine reproduction clinic in the Department of Physiology and Pharmacology, College of Veterinary Medicine and Biomedical Sciences, Texas A&M University, College Station, TX. During this period, research activities and experimental trials were performed on in vitro production of equine embryos under the supervision of Prof. Katrin Hinrichs and Dr. Young-Ho Choi. In particular, the scientific work has focused on recovery and in vitro maturation of oocytes horses, subsequent in vitro

fertilization using technology Piezo-ICSI and embryo culture of embryos produced, all aimed at producing equine blastocysts.

- 3) Date:** March 2015 – August 2015 (Co.Co.Co contract)
Institution: University of Bari, Dept of Biosciences, Biotechnologies and Biopharmaceutics
Occupation: postdoctoral fellow
Title of the project: supporting activities for quality analysis of germ cells, embryos and reproductive cell systems by using innovative instrumentation for 3D imaging analysis for the species (bovine, equine and ovine) included in the LABERPAR project (LABoratorio Regionale “Benessere, Efficienza Riproduttiva e Produttiva degli Animali da Reddito. Pre-requisiti di filiera per la qualità, tipicità e tracciabilità dei prodotti).
- 4) Date:** November 2015 – March 2016 (Co.Co.Co contract)
Institution: University of Bari, Dept of Biosciences, Biotechnologies and Biopharmaceutics
Occupation: postdoctoral fellow
Title of the project: supporting activities for in vitro production of animal embryos by Piezo-drill-ICSI and SCNT for the species (bovine, equine and ovine) included in the LABERPAR project.
- 5) Date:** December 2016 – June 2017 (Co.Co.Co contract)
Institution: University of Bari Aldo Moro, Dept. of Emergency and Organ Transplantation;
Occupation: postdoctoral fellow
Title of the project: supporting activities for “Isolation, in vitro proliferation and characterization of spermatogonial stem cells in fish species eligible for breeding” included in the “SELDOTT” project.
- 6) Date:** March 2018 – June 2018 (Co.Co.Co. contract)
Institution: University of Bari, Dept of Biosciences, Biotechnologies and Biopharmaceutics
Occupation: postdoctoral fellow
Title of the project: “Evaluation of the effects of phthalates on the developmental competence of equine embryos produced by piezo-drill ICSI”
- 7) Date:** July 2018 (Occasional contract of 60 hours)
Institution: University of Bari Aldo Moro, Department of Biology
Occupation: Professor for teaching activities on medical biotechnology
Title of the project: PLS (Piano Lauree Scientifiche)
- 8) Date:** September 2018 (Occasional contract of 24 hours)
Institution: University of Bari, Dept of Biosciences, Biotechnologies and Biopharmaceutics
Occupation: Professor for teaching activities
Title of the project: Summer School “Summer Training on Assisted Reproductive Technologies with Germ cells of Animal Models”
- 10) Date:** 28 December 2018 – 19 December 2021
Institution: Dept. of Veterinary Sciences, University of Torino
Occupation: Researcher (RTDb)
- 11) Date:** 20 December 2021 – to date
Institution: University of Bari, Dept of Biosciences, Biotechnologies and Biopharmaceutics
Occupation: Researcher (RTDb)

Research projects devised and managed

- **Date:** November 2014 – July 2018
Institution: Experimental Zooprohylactic Institute of Puglia and Basilicata
Principal Investigator of the research project entitled: “OMICS biomarkers of xenobiotic- and radiation-induced ovarian failure in farm animals - Impact on animal production and translational research for human reproductive medicine.” - code WFR GR-2011-02351396 (Ministry of Health, Young Researchers Grant 2011/2012).
- **Date:** March 2019 – December 2021
Institution: University of Torino
Ricerca locale 2019 (Ex 60%) - Titolo: Valutazione non invasiva della tossicità *in vitro* di interferenti endocrini sulla qualità embrionale in animali da reddito.
- **Date:** May 2020 – December 2021
Institution: University of Torino
Principal Investigator del progetto di ricerca fondazione CRT-2020: “Strategie di detossificazione *in vitro* di gameti ed embrioni bovini da interferenti endocrini”.
- **Date:** July 2020 – December 2021
Institution: University of Torino
Ricerca locale 2020 (ex 60% Linea A); ECCELLENZA1822_D224.
- **Date:** August 2021 – December 2021
Institution: University of Torino
Ricerca locale 2021 (ex 60% Linea A); RILO2021.
- **Date:** February 2022 – to date
Institution: University of Bari
Component of the research project entitled: “Studio della variabilità genetica alla base dell’infertilità”.
Bando competitivo di Ateneo: Horizon Europe Seeds

Teaching and scientific activities:

- **University of Bari Aldo Moro (curricular activities)**
 - Assistant Professor for teaching activities for the course of Biotechnology of Reproduction (SSD: VET 10), Università degli Studi di Bari Aldo Moro (DBBB), A.A. 2012 to 2018; 2022
 - Assistant Professor for laboratories activities for the course of Biotechnology of Reproduction (SSD: VET 10), Università degli Studi di Bari Aldo Moro (DBBB), A.A. 2010 to 2018; 2022
- **University of Bari Aldo Moro (Post-laurea)**
 - Contract Professor for teaching activities for the courses of “Biotecnologie riproduttive in animali in allevamento intensivo (SSD: VET/10 - 6 CFU)” - Scuola di Specializzazione in “Fisiopatologia della riproduzione degli animali domestici” Università degli Studi di Bari Aldo Moro, A.A. 2015 to 2018;
 - Professor for teaching and laboratory activities for the Summer School “START GAME - Summer Training on Assisted Reproductive Technologies with Germ cells of Animal ModElS” (SSD: VET/10), Università degli Studi di Bari (DBBB), A.A. 2018: 24h;
 - Professor for teaching activities for the “Piano Lauree Scientifiche (PLS)”, Institution: University of Bari Aldo Moro, Department of Biology, A.A. 2018: 60h;

- Assistant Professor for teaching activities for the course of “Fecondazione assistita e citogenomica del preimpianto” (SSD: VET/10) – Master in “Citogenomica clinica e laboratorio di citogenetica”, Università degli Studi di Bari, A.A. 2020/21: 10h;
- **University of Torino (curricular activities)**
 - Professor for teaching activities for the course of “SAF0233B: Technologies and biotechnologies in animal reproduction” (SSD:VET/10 - **3 CFU**) – Corso magistrale in Scienze Animali (in lingua Inglese), Univ. degli Studi di Torino, A.A.2019/20: 40h; A.A.2020/21: 30h.
 - Professor for teaching activities for the course of ” VET0028A: Patologia della Riproduzione” (SSD:VET/10- **1 CFU**) – Corso di laurea in Med. Veterinaria–Università di Torino, A.A. 2018/19: 44 hours (h); A.A. 2019/20: 39h; A.A. 2020/2021: 30h.
 - Professor for teaching activities for the course of ”VET0215A: Fisiopatologia della Riproduzione E Neonatologia Veterinaria (Argomenti di Sanità Animale)” (SSD:VET/10 - **1 CFU**) – Corso in Produzione e Gestione degli Animali in Allevamento e Selvatici – Università degli Studi di Torino, A.A. 2018/19: 24h; A.A. 2019/20: 31h; A.A. 2020/21: 28h.
 - Assistant Professor for teaching activities for the course of “Tecniche di riproduzione in vitro nei modelli animali” (SSD: VET/10) – Master in “Medicina della Riproduzione Umana”, Università degli Studi di Torino, A.A. 2018/19: 2h; A.A 2019/20: 2h; A.A. 2020/21: 2h.
- **University of Sannio (curricular activities)**
 - Professor for teaching activities for the course of “Modelli animali con laboratorio (SSD: VET/10 - **6 CFU**)” – Corso di laurea magistrale in Scienze e tecnologie genetiche – Università degli studi del Sannio, A.A. 2018/19: 48h.
- **Relator/Correlator** of 21 experimental degree theses in Reproductive Biotechnology.
- **Tutor** of students within the Erasmus Plus program of international mobility
- **Reception of students / guidance / tutoring activities (around 100 hours/year)**
- **Participation in the Exam Commissions (around 50 hours/year)**
- Invited speaker for teaching activities at the Szent István University of Budapest (Prof. S. Cseh);
- Supervisor of an Egyptian researcher on micromanipulation techniques (intracytoplasmic sperm injection) in animal models in the context of the research project entitled: “Promotion des systèmes camelins innovants et des filières locales pour une gestion durable des territoires saharienne” (PROCAMED) – from January to March 2014.
- Reviewer of international peer review journals: Human Reproduction, Molecular Biology Report, Systems Biology in Reproductive Medicine, Theriogenology, Environmental Science and Pollution Research, JEVs, GENE, Reproduction Fertility and Development, Animals.
- Qualification for the profession of biologist awarded on 24/02/2015
- Author of n° 36 published full papers; n° 11 abstract on international journal with referee; n° 17 proceedings of International Conferences and n° 33 proceedings of National Conferences.

Awards

- **Young Researchers Award** "Italian Society of Veterinary Sciences (SISVet)" - Call 2019, obtained on 05/08/2020

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

- Invasive and non-invasive biomarkers of oocyte meiotic and developmental competence
- In vitro fertilization (IVF), intracytoplasmic sperm injection (ICSI) and piezo-ICSI
- In vitro culture of pre-implantation embryos
- Conventional Morphology Assessment and Time-lapse monitoring of embryo development
- Cryopreservation (slow freezing or vitrification) of gametes, embryos and ovarian tissues
- Analysis of mitochondria bioenergy potential and oxidative stress in oocytes, embryos, ovarian tissues and primary cultures from fetal adnexa
- Gene expression analysis in cumulus cells, oocyte and embryos
- Effect of antioxidant molecules on in vitro production of embryos
- Omics applied to reproduction in farm animals
- Expression and functional role of receptors, such as Kisspeptin and extracellular calcium sensing receptor, in primary cultures from fetal adnexa and placenta
- Effects of environmental pollutants (mycotoxins, heavy metals and phthalates) on oocyte meiotic and developmental competence

Collaborations:

As evidenced by scientific publications, it's documented the partnerships with following scientific groups:

- Texas A & M Univ. (Prof. K. Hinrichs)
- Inst. National de la Recherche Agronomique, France - (Dr. G. Goudet)
- Univ. of S. Istvan of Budapest: Dept. and Clinic of Reproduction (Prof. S. Cseh)
- Univ. of Bologna and Sant'Orsola-Malpighi Hospital, DIMEC (Dr. R. Fabbri)
- Inst. of Sciences of Food Production, National Research Council (Dr. F. Minervini);
- Univ. of Bari: DIMEV (Prof. G.M. Lacalandra; Prof. R.L. Sciorsci); Department of Biosciences, Biotechnologies and Biopharmaceutics (DBBB; Prof. Dell'Aquila ME, Dr. E. Ciani, Prof. SJ. Reshkin SJ); Dept. of Genetics and Microbiology (Prof. Ventura M)
- University of Sassari, Dept. of Veterinary Medicine (Prof. L. Bogliolo)
- University of Torino (Prof. L. Vincenti; Prof. A. Ricci; Dr T. Nervo)
- University of Salento, Dept. of Mathematics and Physics E. de Giorgi, (Prof. G. Maruccio)
- University of Teramo, Faculty of Veterinary Medicine, (Prof. A. Carluccio, Prof. D. Robbe)
- Utrecht Univ. Dept. of Clinical Sciences, Faculty of Vet. Medicine, (Prof. BA Roelen)
- Univ. of Pisa and Research Centre E. Piaggio, (Dr. A. Ahluwalia)
- Univ. of Pisa, Dept. of Veterinary Sciences, (Prof. F. Camillo)

Invited speaker to national and international conferences

- 12-14 April 2022 Location: MOMO' fertiLIFE srl, Bisceglie, Bari
Congress: "Corso avanzato teorico pratico di procreazione medicalmente assistita" Oral presentation: "Non-invasive biomarkers of oocyte quality"
- 1-3 October 2020 Location: MOMO' fertiLIFE srl, Bisceglie, Bari
Congress: "Corso avanzato teorico pratico di procreazione medicalmente assistita" Oral presentation: "Effects of low-dose x-ray medical diagnostics on female gonads: insights from large animal oocytes and human ovaries as complementary models".
- 30 September – 1 October, 2019, Location: Bari, Congress: international meeting: "The pelvis as a Mother International Meeting on Precision Making in A.R.T.", Oral presentation:

“Effects of organic and inorganic pollutants on oocyte transcriptome and embryo morphokinetic parameters”

- 20 – 23 Novembre 2019; Location: MOMO' fertiLIFE srl, Bisceglie, Bari Congress: “Corso avanzato teorico pratico di procreazione medicalmente assistita” Oral presentation: “Utilità dell’esperienza animale e tecniche in 3D”

Workshops

- **Date:** 7-9 May 2014
Location: Las Palmas, Spain
Organization: Epiconcept: Epigenetics and Periconception Environment
Workshop: Epigenomic Toolbox: from Methods to Models
Poster presentation: Developmental potential of rabbit SCNT embryos derived from adult fibroblasts or mesenchymal stem cells and treated with Scriptaid
- **Date:** 21-23 June 2010
Location: Genova, Italy
Organization: Italian Institute of Technology (IIT)
Workshop: 11th Practical Intensive Workshop on 3D Confocal and Multiphoton Microscopy

Personal skills and competences

Mother tongue: Italian.

Other language: English.

Organisational skills and competences: good experience in project and team management.

Computer skills and competences: Good command of Windows and Apple operating systems (Win98, XP, Vista, Windows 7, Leopard), good command of Microsoft Office tools (Word, Excel and Power Point), good command of scientific specific tools (Nikon C1 software, Image J, Graphic software).

Driving licence: Italian licence (Category B).

Artistic skills and competences: photography, video editing.

Other skills and competences: electronics, informatics, life sciences, sports.

List of publications – Dr Nicola Antonio Martino

Full papers

1. Malledevarahalli Chandrappa S, Pascottini OB, Opsomer G, Meineri G, **Martino NA**, Banchi P, Vincenti L, Ricci A. Theriogenology. Circulating and endometrial cell oxidative stress in dairy cows diagnosed with metritis. 2022 Dec 30;198:217-223.
doi: 10.1016/j.theriogenology.2022.12.045.
2. Mastrorocco A, Cacopardo L, Temerario L, **Martino NA**, Tridente F, Rizzo A, Lacalandra GM, Robbe D, Carluccio A, Dell'Aquila ME. Investigating and Modelling an Engineered Millifluidic In Vitro Oocyte Maturation System Reproducing the Physiological Ovary Environment in the Sheep Model.Cells. 2022 Nov 15;11(22):3611.
doi: 10.3390/cells11223611.

3. Alkhawagah AR, Ricci A, Banchi P, **Martino NA**, Poletto ML, Donato GG, Nervo T, Vincenti L. *Animals (Basel)*. Effect of Epidermal Growth Factor (EGF) on Cryopreserved Piedmontese Bull Semen Characteristics. 2022 Nov 17;12(22):3179.
doi: 10.3390/ani12223179.
4. Reda Elkhawagah A, **Martino NA**, Moustafa Kandiel MM, Ghoneimy Mahmoud K, Ricci A, Vincenti L. Effects of cysteamine supplementation on cryopreserved buffalo bull semen quality parameters. *Theriogenology*. 2022 Oct 15;192:141-149.
doi: 10.1016/j.theriogenology.2022.08.022. Epub 2022 Aug 23.
5. Piras AR, Ariu F, Maltana A, Leoni GG, **Martino NA**, Mastrorocco A, Dell'Aquila ME, Bogliolo L. Protective effect of resveratrol against cadmium-induced toxicity on ovine oocyte in vitro maturation and fertilization. *J Anim Sci Biotechnol*. 2022 Jul 22;13(1):83.
doi: 10.1186/s40104-022-00731-1.
6. **Martino NA**, Vicenti R, Macciocca M, Seracchioli R, Marzano G, Mastrorocco A, Lacalandra GM, Tomaiuolo M, Marchesani G, Chiaravalle EA, Klinger FG, Marcozzi S, Fabbri R, Dell'Aquila ME. Effects of low-dose X-ray medical diagnostics on female gonads: insights from large animal oocytes and human ovaries as complementary models. *Plos ONE* 2021 24;16(6):e0253536. doi: 10.1371/journal.pone.0253536.
7. Dell'Aquila ME, Asif S, Temerario L, Mastrorocco A, Marzano G, **Martino NA**, Lacalandra GM, Roelen BA, Carluccio A, Robbe D, Minervini F. Ochratoxin A affects oocyte maturation and subsequent embryo developmental dynamics in the juvenile sheep model. *Mycotoxin Res*. 2020 Sep 29. doi: 10.1007/s12550-020-00410-y.
8. 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 Sep 11;15(9):e0238812. doi: 10.1371/journal.pone.0238812. eCollection 2020
9. Elkhawagah AR, **Martino NA**, Ricci A, Storti V, Rumbolo F, Lange-Consiglio A, Vincenti L. Effect of relaxin on cryopreserved beef bull semen characteristics. *Cryobiology*. 2020 10.1016/j.cryobiol.2020.06.006.
10. Elkhawagah AR, Nervo T, Poletto M, **Martino NA**, Gallo D, Bertero A, Vincenti L. Effect of relaxin on semen quality variables of cryopreserved stallion semen. *Anim Reprod Sci*. 2020 May;216:106351.
11. Lange-Consiglio A, Romele P, Magatti M, Silini A, Idda A, **Martino NA**, Cremonesi F, Parolini O. Priming with inflammatory cytokines is not a prerequisite to increase immune-suppressive effects and responsiveness of equine amniotic mesenchymal stromal cells. *Stem Cell Res Ther*. 2020 Mar 4;11(1):99.
12. 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 (Basel)*. 2020 May 14;10(5):E851.
13. Marzano G, Moscatelli N, Di Giacomo M, **Martino NA**, Lacalandra GM, Dell'Aquila ME, Maruccio G, Primiceri E, Chiriaco 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):22.

14. **Martino NA**, Marzano G, Mastrorocco A, Lacalandra GM, Vincenti L, Hinrichs K, Dell'Aquila ME. Use of time-lapse imaging to evaluate morphokinetics of invitro 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.
15. 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.
16. 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. *Molecular Reproduction and Development* 2019. doi: 10.1002/mrd.23156.
17. Fabbri R, Seracchioli R, Vicenti R, Paradisi R, Rossi S, De Meis L, Ciccarone M, Caprara G, **Martino NA**, Macciocca M. Successful achievement after heterotopic transplantations of long-term stored ovarian tissue in Hodgkin's lymphoma survivor. *Gynecological Endocrinology*. 2019;35(6):470-472. <https://doi.org/10.1080/09513590.2018.1549218>.
18. 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.
19. 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 Sep 20:1-19. doi: 10.1017/S096719941700048X.
20. **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.
21. **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.
22. 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

23. Accogli G, Desantis S, **Martino NA**, Dell'Aquila ME, Gemeiner P, Katrík J. Glycoconj J. A lectin-based cell microarray approach to analyze the mammalian granulosa cell surface glycosylation profile. *Glycoconj J*, 2016;33(5):717-24. doi: 10.1007/s10719-016-9666-22016.
24. Rutigliano L, Valentini L, **Martino NA**, Pizzi F, Zanghì A, Dell'Aquila ME, Minervini F. Ochratoxin A at low concentration inhibits in vitro growth of canine umbilical cord matrix mesenchymal stem cells through oxidative chromatin and DNA damage. *Reproductive Toxicology*. 2015;57:121-129 doi:10.1016/j.reprotox.2015.05.017
25. Somoskoi B, **Martino NA**, Cardone RA, Lacalandra GM, Dell'Aquila ME, Cseh S. Different chromatin and energy/redox responses of mouse morulae and blastocysts to slow freezing and vitrification. *Reprod Biol Endocrinol*. 2015;13:22. doi: 10.1186/s12958-015-0018-z.
26. **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 cultures isolated from bovine placental cotyledons of embryos/fetuses at the first trimester of pregnancy. *Theriogenology* 2015;83(6):978-987.e1. doi: 10.1016/j.theriogenology.2014.11.033.
27. Accogli G, Douet C, Ambruosi B, **Martino NA**, Filioli Uranio M, Deleuze S, 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. *Mol Reprod Dev*. 2014;81(12):1115-35. doi: 10.1002/mrd.22432.
28. **Martino NA**, Reshkin SJ, Ciani E, Dell'Aquila ME. Calcium-Sensing Receptor-Mediated Osteogenic and Early-Stage Neurogenic Differentiation in Umbilical Cord Matrix Mesenchymal Stem Cells from a Large Animal Model. *PLoS One*. 2014;9(11):e111533. doi: 10.1371/journal.pone.0111533.
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Il sottoscritto **Nicola Antonio Martino** nato a Conversano (Ba) il 15/04/1984, cittadinanza Italiana, Codice Fiscale MRTNLN84D15C975K, telefono 3383011661, consapevole delle responsabilità anche penali in caso di dichiarazioni mendaci, **ai sensi degli artt. 46 e 47 del DPR n 445/2000,**

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che le informazioni sopra riportate sono veritiere e che sono in regola con gli obblighi previsti dalle vigenti disposizioni in materia (D.L.L. 31 agosto 1945, n. 660; D.P.R. 3 maggio 2006, n. 252).

Il sottoscritto, inoltre, **ai sensi e per gli effetti del D. Lgs. 196/2003, AUTORIZZA il trattamento dei dati personali contenuti nella presente dichiarazione.**

DATA
10/1/2023



FIRMA _____