

PERSONAL INFORMATION

Riccardo Talevi



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 University of Naples Federico II
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 riccardo.talevi@unina.it

Sex Male | Date of birth 18/09/1957 | Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	X Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2014 - Today

Adjunct professor

Master's degree in "Clinical Embryology" of the University of Manipal Karnataka India

- Research
- Teaching courses in Assisted reproduction techniques

Sector: Academia

2014-2016

Scientific coordinator

IVF unit Public Hospital S.Maria delle Grazie Pozzuoli Naples Italy.

- Research
- Assisted reproduction techniques of first and second level

Sector: Public Hospital

Scientific director

2010

"Centro Interdipartimentale di Servizio per la Microscopia Elettronica" of University of Naples Federico II.

- Research

Sector: Academia

Scientific coordinator

2006-2010

IVF unit Public Hospital Moscati Avellino Italy

- Research
- Assisted reproduction techniques of first and second level

Sector: Public Hospital

Scientific coordinator

2005-07

IVF unit Public Hospital S.Maria delle Grazie Pozzuoli Naples Italy.

- Research
- Assisted reproduction techniques of first and second level

Sector: Public Hospital

Visiting researcher

2005

at Children's Hospital of Orange County Ca USA.

- Research
- Isolation of inner cell mass and generation of stem cells

Sector: Academia

2004-Today

Confirmed Associate professor of Biology of Reproduction

at the Department of Biology University of Naples 'Federico II'

- Research
- Teaching courses in Biology of reproduction and Assisted reproduction In vitro techniques
- Institutional responsibilities

Sector: Academia

- 2002-Today** **Director of post graduate course**
 “Biology and Biotechnology of Assisted reproduction “
 Teaching courses and laboratory activities
 Sector: Academia
- 2001** **Associate professor of Cytology and Histology**
 at the University of Naples 'Federico II'
 • Research
 • Teaching courses in Cell Biology , Embryology
 • Institutional responsibilities
 Sector: Academia
- 1991** **Researcher**
 University of Naples Dept. Evolutionary and Comparative Biology -
 • Research
 • Teaching courses in Experimental Embryology
 • Institutional responsibilities
 Sector: Academia
- 1990-1991** **Research consultant**
 Industria Farmaceutica Sero “Electrical and morphological characteristics of the plasma membrane of human oocytes and embryos”
 • Research
- 1987** **Visiting Associate professor**
 at the Dept- of Anatomy and Cell Biology School of Medicine Emory University Atlanta Georgia USA
 • Research
 • Teaching courses in Experimental Embryology
 Institutional responsibilities
- 1986** **Visiting researcher**
 at the Marine Biological Laboratory Woods Hole Massachusetts USA
 • Research on biology of reproduction of marine invertebrate
- 1985** **Visiting researcher**
 at the Marine Biological Association in Plymouth U.K
 • Research on fertilization current in marine invertebrate
 • courses in Experimental Embryology
- 1984** **Invited researcher**
 at the Zoological Department University of California Davis USA
 • Research on ion current at fertilization in anphibia and marine invertebrate

EDUCATION AND TRAINING

- 1987** **Ph.D. in Evolutionary and Reproductive Biology**
 University of Napoli, Napoli – Italy
Thesis: “ Morphological and electrophysiological variations of the plasma membrane of the egg of *Discoglossus pictus* (Anurus) during activation and fertilization processes.”

1981 **Laurea (Master) Degree in Biological Science**
 University of Napoli, Napoli - Italy
Thesis: " Ascidian oocyte "Ciona intestinalis": cytoplasmic and mitochondrial movements during fertilization "

1975 **Classical High School Degree**
 Liceo Galileo Galilei Napoli – Italy
 Majors: Biology,
Thesis: ""

PERSONAL SKILLS

Mother tongue(s) Italian
 Other language(s) English (C1 level)

Job-related skills

Experimental skills in the clinical setting

- Human gamete handling and preparation for assisted reproduction
- Human embryo culture, transfer and cryopreservation
- In vitro fertilization of Human oocyte
- Micromanipulation techniques for Human reproduction
- Cryopreservation of Human gamete
- Cryopreservation of Human ovarian tissue
- Collection of spermatozoa from testicular and epididymal biopsy
- Embryo biopsy for preimplantation genetic testing
- Cell bioreactor characterization for ex -vivo culture of ovarian tissue

Academic skills

- Project and Local Coordinator of International and National Research Projects
- Supervisor of Doctoral, Graduate and Undergraduate Theses in Reproductive biology and Assisted reproduction

Digital skills

Programmer: C++, Wring
 User: MS Word®, MS Excel®, MS Powerpoint®, Adobe Photoshop, Multimedia communication software (e.g., Zoom®, Google Meet®, Skype®, MS Teams®)

Other skills

Scuba diving, Biker , Fisherman, Football

ADDITIONAL INFORMATION

Awards

Italian federation of Scientific society for reproduction (vice – president 2010 ; President 2011-2012)
 European Society of Human reproduction (Italian National Representative 2019-2022)

Publications

Author or co-author of more than 100 publications in peer-reviewed international scientific journals, books, and congress proceedings.

Selected publications:

1: Di Emidio G, Tatone C, Barbato V, Genovese V, Placidi M, **Talevi R**, Gualtieri R; Italian Society of Embryology, Reproduction, Research (SIERR). Protective effects of a SIRT1 inhibitor on primordial follicle activation and growth induced by cyclophosphamide: insights from a bovine in vitro folliculogenesis system. J Assist Reprod Genet. 2022 Apr;39(4):933-943.

2: Gualtieri R, Kalthur G, Barbato V, Di Nardo M, Adiga SK, **Talevi R**.

Mitochondrial Dysfunction and Oxidative Stress Caused by Cryopreservation in Reproductive Cells. *Antioxidants* (Basel). 2021 Feb 24;10(3):337.

3: Gualtieri R, Kalthur G, Barbato V, Longobardi S, Di Rella F, Adiga SK, **Talevi R**. Sperm Oxidative Stress during In Vitro Manipulation and Its Effects on Sperm Function and Embryo Development. *Antioxidants* (Basel). 2021 Jun 25;10(7):1025.

4: Adiga SK, Tholeti P, Uppangala S, Kalthur G, Gualtieri R, **Talevi R**. Fertility preservation during the COVID-19 pandemic: mitigating the viral contamination risk to reproductive cells in cryostorage. *Reprod Biomed Online*. 2020 Dec;41(6):991-997.

5: Daddangadi A, Uppangala S, Kalthur G, **Talevi R**, Adiga SK. Germinal stage vitrification is superior to MII stage vitrification in prepubertal mouse oocytes. *Cryobiology*. 2020 Apr;93:49-55.

6: D'Souza, Uppangala S, Fernandes G, Salian SR, Kumar P, **Talevi R**, Kalthur G, Adiga SK. Reduced ovarian response to controlled ovarian stimulation is associated with increased oxidative stress in the follicular environment. *Reprod Biol*. 2020 Sep;20(3):402-407.

7: **Talevi R**, Sudhakaran S, Barbato V, Merolla A, Braun S, Di Nardo M, Costanzo V, Ferraro R, Iannantuoni N, Catapano G, Gualtieri R. Is oxygen availability a limiting factor for in vitro folliculogenesis? *PLoS One*. 2018 Feb9;13(2):

8: Barbato V, Gualtieri R, Capriglione T, Pallotta MM, Braun S, Di Nardo M, Costanzo V, Ferraro R, Catapano G, **Talevi R**. Slush nitrogen vitrification of human ovarian tissue does not alter gene expression and improves follicle health and progression in long-term in vitro culture. *Fertil Steril*. 2018 Dec;110(7):1356-1366.

9: **Talevi R**, Barbato V, Fiorentino I, Braun S, De Stefano C, Ferraro R, Sudhakaran S, Gualtieri R. Successful slush nitrogen vitrification of human ovarian tissue. *Fertil Steril*. 2016 Jun;105(6):1523-1531.

10: **Talevi R**, Barbato V, De Iorio S, Mollo V, Capriglione T, Ricchiari L, Samo A, Gualtieri R. Is there a role for endocannabinoids in sperm-oviduct interaction? *Reproduction*. 2010 Aug;140(2):247-57.

11: **Talevi R**, Gualtieri R. Molecules involved in sperm-oviduct adhesion and release. *Theriogenology*. 2010 Apr 1;73(6):796-801.

12: Gualtieri R, Mollo V, Barbato V, Fiorentino I, Iaccarino M, **Talevi R**. Ultrastructure and intracellular calcium response during activation in vitrified and slow-frozen human oocytes. *Hum Reprod*. 2011 Sep;26(9):2452-60

13: **Talevi R**, Barbato V, Mollo V, Fiorentino I, De Stefano C, Guarino FM, Gualtieri R. Replacement of sodium with choline in slow-cooling media improves human ovarian tissue cryopreservation. *Reprod Biomed Online*. 2013 Oct;27(4):381-9.

14: Gualtieri R, Iaccarino M, Mollo V, Prisco M, Iaccarino S, **Talevi R**. Slow cooling of human oocytes: ultrastructural injuries and apoptotic status. *Fertil Steril*. 2009 Apr;91(4):1023-34.

15: **Talevi R**, Barbato V, Fiorentino I, Braun S, Longobardi S, Gualtieri R. Protective effects of in vitro treatment with zinc, d-aspartate and coenzyme q10 on human sperm motility, lipid peroxidation and DNA fragmentation. *Reprod Biol*

Endocrinol. 2013 Aug 16;11:81.

16: Gualtieri R, Mollo V, Braun S, Barbato V, Fiorentino I, **Talevi R.** Bovine oviductal monolayers cultured under three-dimension conditions secrete factors able to release spermatozoa adhering to the tubal reservoir in vitro. Theriogenology. 2013 Feb;79(3):429-35.

17: Gualtieri R, Mollo V, Duma G, **Talevi R.** Redox control of surface protein sulphhydryls in bovine spermatozoa reversibly modulates sperm adhesion to the oviductal epithelium and capacitation. Reproduction. 2009 Jul;138(1):33-43.

18: Gualtieri R, Mollo V, Barbato V, **Talevi R.** Ability of sulfated glycoconjugates and disulfide-reductants to release bovine epididymal sperm bound to the oviductal epithelium in vitro. Theriogenology. 2010 May;73(8):1037-43.

19: Talevi R, Zagami M, Castaldo M, Gualtieri R. Redox regulation of sperm surface thiols modulates adhesion to the fallopian tube epithelium. Biol Reprod. 2007 Apr;76(4):728-35.

20:Talevi R, Gualtieri R, Tartaglione G, Fortunato A. Heterogeneity of the zona pellucida carbohydrate distribution in human oocytes failing to fertilize in vitro. Hum Reprod. 1997 Dec;12(12):2773-80.

More than 120 presentations at national and international scientific conferences and institutions

Presentations

Relevant Projects

- *Principal Investigator of the Research Unit Program 'Effecst of nanoparticles designed for " safe delivery" on viability and functionality of several biological systems"(2010)*
- *2004 COFIN Principal Investigator of the Research Unit Program 'Pharmacological modulators of human sperm motility and capacitation: effects on motility, capacitation, fertilization and embryo development in an animal model.'*
- COFIN Principal Investigator of the Research Unit Program 'Metal environmental pollution and reproductive health effects on the physiology and fertilization competence of human sperm (2003)
- COFIN Principal Investigator of the Research Unit Program 'Bovine as experimental model for the identification and characterization of surface proteins in the 2-map of human spermatozoa' (2002)
- Principal Investigator of the Research Unit Program Grant from CNR Biotechnology and Molecular biology n.95.02944.CT14 (1995-97)

Conferences

Invited speaker at many national and international scientific conferences and Universities.

President and Organizer of: international and national scientific congresses; international and national seminars and workshop in the field of Reproductive biology and assisted reproduction.

Invited speaker at many national and international courses from undergraduate to graduate level.

Membership in Scientific Societies

Italian Society of Reproduction ,Embryology and Research , SIERR (President, 1999-2003, vice - president 2014 -2025), Italian federation of Scientific society for reproduction (vice – president 2010 ; President 2011-2012) European Society of Human reproduction (Italian National Representative 2019-2022)

Editorial Activity

Editor of Zygote Journal Cambridge (2019-2022)

Associate Editor Current trends in Clinical Embryology (2014-2019)

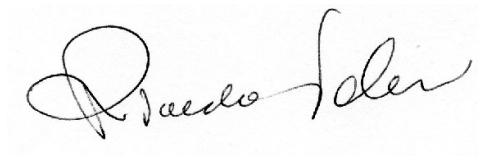
Reviewer for many peer-reviewed scientific journals in the field of: gamete selection, gamete

physiology, oocyte and ovarian tissue cryopreservation, assisted reproduction technologies, in vitro folliculogenesis

Research Interests

- Sperm interaction and selection inside the female reproductive tract.
- Assisted reproduction technology (ART) and fertility preservation.
- Basic mechanisms of gamete maturation, and selection,
- Effects of cryopreservation on the biological structure of oocyte and ovarian tissue.
- In vitro folliculogenesis .
- Development and optimization of bioreactors for dynamic culture of ovarian tissue

Napoli, November 10 2022

A handwritten signature in black ink, reading "Riccardo Talevi". The signature is written in a cursive style with a large, stylized initial 'R'.

Signature: Riccardo Talevi