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Chair of Anatomy
Head of the Department of
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SHORT CV (2018)

Guido Macchiarelli - Curriculum Vitae **Maggio 2018**

Prof. Guido Macchiarelli, Medico Chirurgo, Specialista in Cardiologia

Indirizzo:

Dipartimento di Medicina Clinica, Sanità Pubblica, Scienze della Vita e dell'Ambiente,
Università degli Studi dell'Aquila.

Email: gmacchiarelli@univaq.it

Attuale posizione:

- Professore Ordinario di Anatomia Umana (Ragg.: H501; SSD BIO 16)
- Direttore del Dipartimento di Medicina Clinica, Sanità Pubblica, Scienze della Vita e dell'Ambiente (dal 2018)
- Presidente dell' "*International Committee of Symposia of Morphological Sciences*" (ICSMS)(dal 2016)

Carriera

- Laurea in Medicina e Chirurgia (con Lode) Università di Roma La Sapienza (1983)
- Specialista in Cardiologia (con Lode) Università di Roma La Sapienza (1987)
- Funzionario Tecnico Laboratorio di Microscopia Elettronica, Istituto di Anatomia Umana Normale, Università di Roma La Sapienza (1988-98)
- Professore a Contratto di Anatomia e Fisiologia Umana e di Anatomia Fisiologia del Sistema Nervoso, Scuola Regionale per Infermiere Professionale, Edoardo e Virginia Agnelli, della Croce Rossa Italiana, Roma (1989-1997)
- Professore a Contratto di Anatomia, ISEF dell'Aquila, Sede di Cagliari (1990-1994)
- Ricercatore Universitario n.c. di Anatomia Umana, Facoltà di Medicina e Chirurgia, Università di Roma La Sapienza (1998-2000).
- Professore di Prima Fascia di Anatomia Umana, Facoltà di Medicina e Chirurgia, Università dell'Aquila, Straordinario (2000-2003) e Ordinario (dal 2003 ad oggi)

Principali Incarichi Accademici all'Università dell'Aquila

- Membro eletto del "Senato Accademico" (2001-2004)
- Pro-Rettore Delegato per l'innovazione tecnologica, ICT, E-learning, ECDL (2004-2010)
- Pro-Rettore Delegato per La Contrattazione Sindacale ed i rapporti con il personale TA (dal 2010)
- Direttore del Centro di Microscopia Elettronica (2004-2010)
- Direttore del Centro Servizi di Microscopie (dal 2010-2016)
- Vice-Presidente del Consiglio di Corso di Laurea in Medicina e Ch. (2004-2007)
- Vice Preside della Facoltà di Medicina e Chirurgia (2007-2011)
- Pro-Rettore delegato per le Relazioni Sindacali e i problemi del Personale TA, Università dell'Aquila (2009-2013)
- Direttore del Dipartimento di Scienze della Salute (2011-2012)
- Membro del Presidio di Qualità di Ateneo (2013-15)
- Vice-Direttore del Dipartimenti di Medicina Clinica, Sanità Pubblica, Scienze della Vita e dell'Ambiente (2015-18)

FORMAZIONE

Formazione Scientifica

- Laboratorio di Microscopia Elettronica, Ist. di Anatomia Umana Normale, Università di Roma La Sapienza, Prof. Pietro M. Motta (1979-2000)

Formazione Clinica

- Istituto di Malattie dell'Apparato Cardiovascolare, Policlinico Umberto I, Università di Roma La Sapienza, Prof. Armando Dagianti (1981-1987).

Formazione Internazionale

- Visiting Assistant Professor of Anatomy, Medical College of Ohio, Toledo, USA, Prof. L.J.A. DiDio (1984-85)
- Visiting Investigator, Dept. of Anatomy, University of Okayama, Prof. T. Murakami (1988)
- Visiting Investigator, Dept. of Anatomy, University of Tottori, Yonago, Japan, Prof. K. Tanaka (1988)
- Visiting Investigator, Dept. of Anatomy, University Osaka, Osaka, Japan, Prof. K. H. Fujita (1989)
- Visiting Investigator, Dept. of Anatomy, University of Niigata, Niigata, Japan, Prof. T. Fujita (1989)
- Visiting Professor (1998) Lab. of Animal Reproduction, Faculty of Agriculture, Tohoku University, Sendai, Prof. E. Sato (1998)
- Alumnus of the US Government "International Visiting Leadership Program" (ILVP): Washington, Raleigh, Indianapolis, San Francisco (2009)

ATTIVITA' DIDATTICA

Principali incarichi Didattici presso l'Università dell'Aquila

- Anatomia Umana - CLM in Medicina e Chirurgia
- Epistemologia e Storia della Medicina (Modulo Bio16) - CLM in Medicina e Chirurgia e CLM in Odontoiatria e PD
- Anatomia - CLM in Biologia della Salute e Nutrizione
- Anatomia - CL in Infermieristica
- Anatomia - CL in Biotecnologie
- Anatomia - Scuole di Specializzazione in Anestesia e Rianimazione (già Vice-Direttore); Cardiologia; Chirurgia Generale; Chirurgia Toracica; Medicina d'Emergenza; Medicina dello Sport; Neurochirurgia; Ortognatodonzia; Ortopedia; Psichiatria.
- Membro del Collegio dei Docenti del Dottorato di Ricerca di Scienze della Salute

Principali incarichi didattici conferiti presso altre Istituzioni

In Italia:

- Anatomia, Neuroanatomia e Fisiologia - Scuola Infermieri della Croce Rossa italiana "Edoardo e Virginia Agnelli, Roma, (1989-1997)
- Anatomia Umana - Istituto Superiore di Educazione Fisica (ISEF L'Aquila) sede di Cagliari (1990-1994)
- Anatomia Umana - Facoltà di Medicina e Chirurgia, Università di Roma la Sapienza (1998-2000)
- Anatomia Clinica - Scuola di Specializzazione in Cardiologia, Università di Roma la Sapienza (1998-2001)
- Anatomia - CL in Tecniche di Radiologia Medica, per Immagini e Radioterapia Università di Roma "La Sapienza" polo di Rieti (dal 2000)

All'Estero:

- Assitant Professor of Electron Microscopy: Medical College of Ohio, Toledo, OH, USA (AA 1984-85)
- Professore a Contratto di Anatomia, Cl in Fisioterapisti Facoltà di Medicina, LUDES University, Lugano, Svizzera (AA 1997-98)
- Professore a Contratto di Anatomia, Facoltà di Medicina, Università Cattolica Nostra Signora del Buon Consiglio, Tirana, Albania, (AA 2007-08; 2012-18: nell'ambito dell'Accordo Quadro di scambi Accademici con UnivAQ)

ATTIVITÀ SCIENTIFICA

- Autor di più di 350 Pubblicazioni su argomenti di microscopia elettronica ed ottica, biologia della riproduzione, microcircolazione sanguigna, angiogenesi, lesione e rigenerazione endoteliale, matrice extracellulare, miocardiopatie cliniche e sperimentali, anatomia microscopica del fegato e vie biliari.
- Partecipazione a più di 100 Congressi e Simposi Nazionali ed Internazionali; spesso quale "Invited Speaker" or "Session Chairman".
- Organizzatore e Presidente di Congressi, Simposi, Corsi di perfezionamento Nazionali ed Internazionali su argomenti di Morfologia, Riproduzione, Angiogenesi, Bio- e nanotecnologie; Microscopia Elettronica ed a Forza Atomica.

Principali fondi di ricerca pubblici nazionali e internazionali assegnati: PRIN, Istituto Superiore Sanità, INTERLINK, TEMPUS

Indici bibliometrici (Aprile 2018):

- H-INDEKX: 22 (SCOPUS); 27 (Google Scholar)
- Numero di citazioni: 2587 (Google Scholar)
- Parametri soglia per *Commissario* SSD BIO 16.
Pubblicazioni nei 10 Anni: 38 (su 37 valore soglia)
H-Index nei 15 Anni: 18 (su 17 valore soglia)

Associazioni Scientifiche

- Membro della Società Italiana di Anatomia ed Istologia
- Membro del Collegio Italiano degli Anatomici
- Membro della Società Italiana di Scienze Microscopiche dove ha ricoperto l'incarico di Membro del Consiglio Direttivo(S.I.S.M.)
- Membro e Presidente dell' "International Committee of Symposia on Morphological Sciences".
- Membro dell' American Association of Anatomists;
- Membro della Società Italiana di Riproduzione
- Membro, Segretario Scientifico e Co-Fondatore dell' " International Malpighi Academy".

Collaborazioni a Riviste Scientifiche Internazionali

- "Associate Editor" of the Open Anatomy Journal (fino al 2014)
- "Associate Editor" of Open medicine Journal (dal 2015)
- Membro dell'Editorial Board di:
Journal of Reproduction and Development ; Archives of Histology and Cytology; Marcello Malpighi Symposium Series; Medical Investigation (Beograd); Reproductive Medicine and Biology; Journal of Morphological Sciences (Sao Paolo); Reproductive Biology and Endocrinology.
- Referee (peer reviewer) per:
Journal of Electron Microscopy; Journal of Microscopy; Microscopy Research and Techniques; Theriogenology; Reproduction; Reproduction in Domestic Animals; Journal of Histochemistry and Citochemistry; Human Reproduction Update; Prostate; PlosOne; Scientific Reports, Regulatory Toxicology and Toxicology.

Organizzazione di Congressi Internazionali

- 8th International Symposium on Morphological Sciences (Roma 1988)
- 1st, 2nd, 4th, 5th, Int. Malpighi Symposia (4 Simposi: Roma 1988, 1995,1999 and 2003)
- 15th Cong. of Int. Federation of Association of Anatomists (Roma 1999)
- 1st International Congress on Vascular Corrosion Casts - AVC 2004(Salzburg, Austria, 2004)
- 17th Int. Symposium on Morphological Sciences (Beograd 2005)
- 16th International Microscopy Conference, Chairman and Organizer Symposium "SEM in Biomedicine" (Sapporo, Japan, 2006)
- 2nd International Congress on Vascular Corrosion Casts - AVC 2007(Salzburg, Austria, 2007)
- 9th Multinational Congress on Microscopy, Chairman and Organizer of the Work Shop "Advanced Microscopy in Teaching" (Graz, Austria, 2009)
- XX International Symposium on Morphological Sciences (Timisoara, Romania, 2008)
- President of the XXI International Symposium on Morphological Sciences, (Messina, Italy, 2010)
- Symposium: "Recent advances in Biology of Reproduction" Niigata, Japan 2013.

Autore in Libri Scientifici e Didattici

1. Anastasi et al. Anatomia Umana Atlante. 3 Volumi, Edi Ermes, Milano 2015-16. ISBN 978-88-7051-393-6
2. Macchiarelli-Montagnani. Anatomia. Sorbona, Napoli, 2014. ISBN 978-88-7947-591-4
3. M. Castellucci e G. Macchiarelli; Volume 2, "Organi Interni" in "Sobotta" Atlante di Anatomia Umana; XXIII edizione, Elsevier, Milano (2012. ISBN 978-88-214-3265-1
4. "Structural Basis of the Ovarian Function" S.A. Nottola and G. Macchiarelli (eds). Wiley; Microscopy Research and Technique; 2006
5. Marcello Malpighi Series: Vol. 9. Morphodynamics of Cells and Tissues. A book in memory of Pietro M. Motta. by R. Heyn, F. Barberini, A. Caggiati, G. Familiari, G. Macchiarelli, Nottola S.A., Correr S. 2005. Il Sedicesimo, Firenze. It. J. of Anatomy and Embryology, vol. 110 (suppl. 1, n. 2), 2005.
6. Bareggi - Dell'Orbo - Ferri - Gaeta - Macchiarelli - Montagnani - Nottola Tazzi - Valenza - Verze' - Viglietti Panzica; (2004) Anatomia Umana, pag.: 600, tavole: 537 .Casa Ed. Idelson-Gnocchi; ISBN: 88-7947-377-8
7. Marcello Malpighi Series: Vol. 8. Molecular, Cellular and Developmental Biology of Reproduction: Basic and Clinical Aspects. P.M. Motta, S.A. Nottola and G. Macchiarelli (eds.) - Italian Journal of Anatomy and Embryology Vol. 106 (Supplement 2) n. 2, 2001. Il Sedicesimo, Firenze
6. Marcello Malpighi Series: Vol. 7. Advances in Microanatomy of Cells and Tissues: Biophysical and Biochemical Correlates. P.M. Motta, G. Macchiarelli and S.A. Nottola (eds.) – It. J. Of Anatomy and Embryology, Vol. 106 (Supplement 1) n. 2, 2001. Il Sedicesimo, Firenze.
8. Marcello Malpighi Series: Vol. 6. New Trends in Microanatomy of Reproduction. G. Macchiarelli, S.A. Nottola, S. Correr and P.M. Motta (eds.) – It. J. of Anatomy and Embryology, Vol. 103 (Supplement 1) n. 4, 1998. Il Sedicesimo, Firenze York, pag. 103-116, 1993

Recenti Letture Magistrali o "Invited Main Lectures" in Congressi Internazionali negli ultimi 10 anni.

1. OPENING LECTURE: "In vitro handling of human oocyte for fertility preservation. Morphological insights". XXV International Symposium of Morphological Sciences, Xi'an, China, July 26-30, 2017.
2. "The human oocyte ultrastructure in ART. Recent acquisitions". – 7th Yazd International Congress and Student Award in Reproductive Medicine with 2nd Congress of Reproductive Genetics and Congress of Reproductive Immunology, Yazd, Iran, April 28-30, 2017.

3. ULTRASTRUCTURAL MARKERS OF AGING IN HUMAN OOCYTE. International Congress on Reproduction. Yazd, Iran, 2015
4. HISTORICAL AND SCIENTIFIC COLLOCATION OF ANATOMY IN ITALY. International Meeting on "Topical Issues of Experimental and Clinical Morphology" Aqtobe, Kazakhstan, 2013
5. ULTRASTRUCTURE AND MORPHOFUNCTIONAL CHANGES OF CRYOPRESERVED HUMAN OOCYTE. XXI International Symposium on Morphological Sciences, Sao Paulo, Brasil, 2012.
6. THE EFFECT OF THYROID HORMONE AND GONADOTROPINS ON ANGIOGENESIS IN THE OVARY. Joint Meeting of anatomical Society, Bursa, Turkey, 2011
7. ULTRASTRUCTURE AND MORPHOFUNCTIONAL CHANGES OF CRYOPRESERVED HUMAN OOCYTE, 10th Multinational Congress in Microscopy, Urbino, 2011.
8. MORPHODYNAMICS OF MAMMALIAN OVARY MICROCIRCULATION. XX International Symposium of Morphological Sciences, 2008 Timisoara, Romania.
9. ANGIOGENESIS IN THE MAMMALIAN OVARY: MORPHOLOGICAL ASPECTS. 5th APICA Congress, 16-19 May 2008. Tehran, Iran

Principali Collaborazioni scientifiche attive

- Università di Roma La Sapienza, (Prof. S.A. Nottola: Ultrastructure of the Ovary)
- Istituto Superiore di Sanità, Roma (Italian National Health Institute: Dr. Giulia Scaravelli; Human Oocyte Cryopreservation)
- Università di Teramo, (Prof. M. Mattioli; B. Barboni; P. Berardinelli: Angiogenesis in the sheep and pig ovary)
- Università di Tor Vergata-Roma (Prof. B. Intrigila: Computational Modelling of endomyrial collagen)
- Catholic University of Louvain, Bruxelles, Belgium (Prof. J. Donnez: Ovarian grafting, ovarian cryopreservation and neovascularization)
- University of Tohoku, Sendai Japan (Prof. E. Sato, Prof. K. Tanemura: International Agreement sponsored by MIUR-Interlink – Biotechnology of Reproduction)
- University of Niigata; Japan (Prof. T. Ushiki: Graduate Student exchange program)
- University of Okayama, Japan (Prof. A. Ohtsuka: Graduate Student exchange program)
- University of Sao Paulo, Brazil (Prof. A. Miglino, postgraduate student exchange program)
- West Kazakhstan Marat Ospanov Medical University; PhD Exchange program and studies on Biology of Reproduction

Programmi di Ricerca e Accordi internazionali attivati presso l'Università dell'Aquila

- (Local Coordinator from 2011) Tempus project n. 158627; E-learning project in Caucasian Country; Partners: Azerbaijan, Georgia, Armenia, United Kingdom, France and Italy
- (Main Coordinator). Grant from Ministry of University N. INT01A3BAC Interlink 2001-2003 – Nuovi approcci metodologici nelle biotecnologie della riproduzione – For developing a Doctorate Curriculum on Biotech of Reproduction based on PhD student exchange and Distance Learning project between Universities of L'Aquila and Tohoku
- (Coordinator of DL project) Grant from Regione Abruzzo, CITEC Telespazio, Telecom, HERMES Project, Department of Experimental Medicine University of L'Aquila and Associazione RINDERTIMI-Avezzano, AQ) Action L.84/01 BALCANI INTERREG IIA "Cooperazione per la programmazione e la realizzazione di interventi sanitari, formative ed operativi, nella provincia albanese di Lezhe." – for developing a project of health professional updating based on people exchange, infrastructural support and distance learning.
- Coordinatore dell'accordo internazionale dell'Università dell'Aquila con la Tohoku University, Japan
- Coordinatore dell'accordo internazionale dell'Università dell'Aquila con la Okayama University, Japan
- Coordinatore dell'accordo internazionale dell'Università dell'Aquila con la Università Nostra Signora del Buon Consiglio, Tirana, Albania.
- Coordinatore dell'accordo internazionale dell'Università dell'Aquila con la Marat Hospital Medical School, University of Aqtobe, Khazakistan.

Premi scientifici

- "Daniel F. Kott Award For The Best New Instrumentation" (1997) per il programma "EndoCDscopy", A Multimedia Course For Endoscopic Surgeons by American Association of Gynecologic Endoscopists at the 26th Meeting 1997 Seattle; USA
- "Times Higher (THE) International Collaboration of the Year". (2012) per il progetto TEMPUS n. 158627 "Development of the e-learning and distance learning courses and assessment in Biomedical Sciences in the Southern Caucasus"
- "Anatomist Excellence Award" 2013 from the International Committee of Symposia of Morphological Sciences, Niigata, Japan, September 14, 2013.
- "Premio Cesare Serono 2016" per il miglior libro di Storia della Medicina dell'Accademia di Storia dell'Arte Sanitaria per il libro "Niccolò Stenone dalla medicina alla geologia" (Eds.: Ferdinando di Orio, Gianluca Ferrini e Guido Macchiarelli, Edizioni: Intinere, Roma, 2016).

Attività di divulgazione scientifica (III missione)

- Ha collaborato alla redazione del Programma televisivo Quark "Viaggio nel Corpo Umano" - RAI - di Piero Angela
- Ha collaborato al programma televisivo "Vivere Bene" - Canale 5 - RTI - di Fabrizio Trecca
- E' stato Organizzatore e Direttore Scientifico della Mostra di fotografia scientifica "Microstrutture e Arte" - tenutasi all'Aquila dal 20/12/2005 al 6/1/2006
- E' stato consulente della trasmissione televisiva Super Quark, diretta da Piero Angela, per la rubrica "Come siamo fatti dentro" 2013. Guido Macchiarelli

MAIN PUBLICATIONS (Full Papers, 1983-2018)
Database source: SCOPUS, Google Scholar, PubMed

- 119) Giusti I, Francesco MD, Ascenzo S, Palmerini MG, Macchiarelli G, Carta G, Dolo V.
Ovarian cancer-derived extracellular vesicles affect normal human fibroblast behavior.
Cancer Biol Ther. Mar 26:1-44. (2018)
PMID: 29580188
DOCUMENT TYPE: Article
SOURCE: PubMed, Google Scholar
- 118) Bernardi, S., Bianchi, S., Botticelli, G., Rastelli, E., Tomei, A.R., Palmerini, M.G., Continenza, M.A., Macchiarelli, G.
Scanning electron microscopy and microbiological approaches for the evaluation of salivary microorganisms behaviour on anatase titanium surfaces: In vitro study [Microscopie électronique à balayage et approches microbiologiques pour l'évaluation du comportement des microorganismes salivaires sur les surfaces de titane anatase: étude in vitro]
Morphologie, 102 (336), pp. 1-6. (2018)
DOCUMENT TYPE: Article
SOURCE: Scopus
- 117) Zeka, K., Ruparelia, K.C., Sansone, C., Macchiarelli, G., Continenza, M.A., Arroo, R.R.J.
New Hydrogels Enriched with Antioxidants from Saffron Crocus Can Find Applications in Wound Treatment and/or Beautification
Skin Pharmacology and Physiology, 31 (2), pp. 95-98. (2018)
DOCUMENT TYPE: Article
SOURCE: Scopus
- 116) Di Nisio, V., Rossi, G., Palmerini, M.G., Macchiarelli, G., Tiboni, G.M., Cecconi, S.
Increased rounds of gonadotropin stimulation have side effects on mouse fallopian tubes and oocytes
Reproduction, 155 (3), pp. 245-250. (2018)
DOCUMENT TYPE: Article
SOURCE: Scopus
- 115) Palmerini, M.G., Belli, M., Nottola, S.A., Miglietta, S., Bianchi, S., Bernardi, S., Antonouli, S., Cecconi, S., Familiari, G., Macchiarelli, G.
Mancozeb impairs the ultrastructure of mouse granulosa cells in a dose-dependent manner
Journal of Reproduction and Development, 64 (1), pp. 75-82. (2018)
DOCUMENT TYPE: Article
SOURCE: Scopus
- 114) Bernardi, S., Bianchi, S., Continenza, M.A., Macchiarelli, G.
Frequency and anatomical features of the mandibular lingual foramina: systematic review and meta-analysis
Surgical and Radiologic Anatomy, 39 (12), pp. 1349-1357. (2017)
DOCUMENT TYPE: Review
SOURCE: Scopus
- 113) Palmerini, M.G., Zhurabekova, G., Balmagambetova, A., Nottola, S.A., Miglietta, S., Belli, M., Bianchi, S., Cecconi, S., Di Nisio, V., Familiari, G., Macchiarelli, G.
The pesticide Lindane induces dose-dependent damage to granulosa cells in an in vitro culture
Reproductive Biology, 17 (4), pp. 349-356. (2017)
DOCUMENT TYPE: Article
SOURCE: Scopus
- 112) Khalili, M.A., Shahedi, A., Ashourzadeh, S., Nottola, S.A., Macchiarelli, G., Palmerini, M.G.
Vitrification of human immature oocytes before and after in vitro maturation: a review
Journal of Assisted Reproduction and Genetics, 34 (11), pp. 1413-1426. (2017)
DOCUMENT TYPE: Review
SOURCE: Scopus
- 111) Taherzadeh, S., Ali Khalili, M., Agha-Rahimi, A., Anbari, F., Ghazali, S., Macchiarelli, G.
Vitrification increased vacuolization of human spermatozoa: Application of MSOME technology
Journal of Reproduction and Infertility, 18 (2), pp. 225-230. (2017)
DOCUMENT TYPE: Article
SOURCE: Scopus
- 110) S Bernardi, MA Continenza, G Macchiarelli. Microscopic evaluation of the enamel surface after debonding procedures: An ex vivo study using scanning electron microscopy. *Microscopie* 29:7190 doi:10.4081/microscopie.2018.7190 (2018)
DOCUMENT TYPE: Article
SOURCE: Google Scholar
- 109) Palmerini, M.G., Nottola, S.A., Tunjung, W.A.S., Kadowaki, A., Bianchi, S., Cecconi, S., Sato, E., Macchiarelli, G.
EGF-FSH supplementation reduces apoptosis of pig granulosa cells in co-culture with cumulus-oocyte complexes

- (2016) *Biochemical and Biophysical Research Communications*, 481 (1-2), pp. 159-164.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 108) F di Orio, G Macchiarelli, F Zazzara. *La Medicina tra Barocco ed età dei Lumi*. Initinere. Roma: 2016
DOCUMENT TYPE: Book Chapter
SOURCE: Google Scholar
- 107) G Macchiarelli. *L'Anatomia del XVII secolo, dalla forma alla funzione*. Initinere, Roma: 1, 19-42. 2016
DOCUMENT TYPE: Book Chapter
SOURCE: Google Scholar
- 106) F Di Orio, G Ferrini, G Macchiarelli. *Niccolò Stenone dalla Medicina alla Geologia. Il percorso di un uomo di scienza e di fede nel Seicento*. Initinere, Roma : 1, 1-189. 2016
DOCUMENT TYPE: Book
SOURCE: Google Scholar
- 105) Nottola, S.A., Albani, E., Coticchio, G., Palmerini, M.G., Lorenzo, C., Scaravelli, G., Borini, A., Levi-Setti, P.E., Macchiarelli, G. Freeze/thaw stress induces organelle remodeling and membrane recycling in cryopreserved human mature oocytes (2016) *Journal of Assisted Reproduction and Genetics*, 33 (12), pp. 1559-1570.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 104) Iorio, R., Castellucci, A., Rossi, G., Cinque, B., Cifone, M.G., Macchiarelli, G., Cecconi, S. Mancozeb affects mitochondrial activity, redox status and ATP production in mouse granulosa cells (2015) *Toxicology in Vitro*, 30 (1), pp. 438-445. Cited 5 times.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 103) Coticchio, G., Dal Canto, M., Fadini, R., Renzini, M.M., Guglielmo, M.C., Miglietta, S., Palmerini, M.G., Macchiarelli, G., Nottola, S.A. Ultrastructure of human oocytes after in vitro maturation (2015) *Molecular Human Reproduction*, 22 (2), art. no. gav071, pp. 110-118. Cited 3 times.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 102) Bianchi, S., Macchiarelli, G., Micara, G., Linari, A., Boninsegna, C., Aragona, C., Rossi, G., Cecconi, S., Nottola, S.A. Ultrastructural markers of quality are impaired in human metaphase II aged oocytes: a comparison between reproductive and in vitro aging (2015) *Journal of Assisted Reproduction and Genetics*, 32 (9), pp. 1343-1358. Cited 6 times.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 101) Leoni, G.G., Palmerini, M.G., Satta, V., Succu, S., Pasciu, V., Zinellu, A., Carru, C., Macchiarelli, G., Nottola, S.A., Naitana, S., Berlinguer, F. Differences in the kinetic of the first meiotic division and in active mitochondrial distribution between prepubertal and adult oocytes mirror differences in their developmental competence in a sheep model (2015) *PLoS ONE*, 10 (4), art. no. 0124911, . Cited 3 times.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 100) Macchiarelli, G., Grazia Palmerini, M., Annarita Nottola, S. Scanning electron microscopy of blood vascular corrosion casts in mammals (2015) *Handbook of Vascular Biology Techniques*, pp. 153-171.
DOCUMENT TYPE: Book Chapter
SOURCE: Scopus
- 99) Placidi, G., Avola, D., Cinque, L., Macchiarelli, G., Petracca, A., Spezialetti, M. Adaptive sampling and non linear reconstruction for cardiac magnetic resonance imaging (2014) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 8641 LNCS, pp. 24-35.
DOCUMENT TYPE: Conference Paper
SOURCE: Scopus
- 98) Landro, D., De Gasperis, G., Macchiarelli, M.D.G. A collaborative distance learning portal integrating 3D virtual labs in biomedicine (2014) *Advances in Intelligent Systems and Computing*, 292, pp. 149-156.
DOCUMENT TYPE: Article
SOURCE: Scopus
- 97) Palmerini, M.G., Antinori, M., Maione, M., Cerusico, F., Versaci, C., Nottola, S.A., Macchiarelli, G., Khalili, M.A., Antinori, S. Ultrastructure of immature and mature human oocytes after cryotop vitrification (2014) *Journal of Reproduction and Development*, 60 (6), pp. 411-420. Cited 9 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920096201&partnerID=40&md5=a2c16120bc40b9187b811813902cd97e>
DOCUMENT TYPE: Article
SOURCE: Scopus

- 96) Iorio, R., Castellucci, A., Ventriglia, G., Teoli, F., Cellini, V., Macchiarelli, G., Cecconi, S.
Ovarian toxicity: From environmental exposure to chemotherapy
(2014) *Current Pharmaceutical Design*, 20 (34), pp. 5388-5397. Cited 9 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920260724&partnerID=40&md5=3cd7ad74a0ade715000143ffa6c6752f>
DOCUMENT TYPE: Article
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- 95) Bianchi, V., Macchiarelli, G., Borini, A., Lappi, M., Cecconi, S., Miglietta, S., Familiari, G., Nottola, S.A.
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