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**Ordinario di Anatomia Umana**  
**Dipartimento di**  
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**Guido Macchiarelli - Curriculum Vitae**  
**2019**

**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.  
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**Incarichi attualmente ricoperti:**

- Professore Ordinario di Anatomia Umana (H501/ 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 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 (2010-2013)
- Direttore del Centro di Microscopia Elettronica (2004-2010)
- Direttore del Centro Servizi di Microscopie (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)
- Vicedirettore del Dipartimento di Medicina Clinica, Sanità Pubblica, Scienze della Vita e dell'Ambiente (2015-2018)

**FORMAZIONE**

**Formazione Scientifica**

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

**Formazione Clinica**

- Istituto di Malattie dell'Apparato Cardiovascolare, Policlinico Umberto I, Direttore Prof. Armando Dagianti, Università di Roma La Sapienza, (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 - 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 Ostetricia
- 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; Ortopodiatria; Ortopedia; Psichiatria.
- Membro e Vice-Coordinatore del Collegio dei Docenti del Dottorato di Ricerca in Imaging Molecolare ed Ultrastrutturale.

### 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 (2000-2016)

#### All'Estero:

- Assistant 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, storia della medicina.
- Partecipazione a più di 100 Congressi e Simposi Nazionali ed Internazionali; spesso quale "Invited Speaker" o "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.
- Enti Pubblici finanziatori dei più rilevanti fondi di ricerca assegnati:  
In Italia: MIUR PRIN, MIUR INTERLINK, UNIROMA1 ex 60%; UNIVAQ RIA, Istituto Superiore Sanità,  
Internazionali: JSPS (Japan), TEMPUS (EU, in associazione con: UK; France, Azerbaijan, Georgia, Armenia; Slovenia, Ucraina.)

## 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" dove ha anche ricoperto l'incarico di *Secretary General*
- Membro Onorario della *Asociación Argentina de Anatomía Clínica*
- 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)
- "Associate Editor" of Animal Science Journal (dal 2018)
- Membro dell'Editorial Board di:  
Archives of Histology and Cytology (Japan); Medical Investigation (Serbia); Reproductive Medicine and Biology (Japan); Animal Science Journal (Japan); Journal of Morphological Sciences (Brazil); Reproductive Biology and Endocrinology (USA), Medicine Journal of West Kazakhstan (KZ), Acta Morphologica (Macedonia), Archives of Anatomy (Portugal); Journal of Reproduction and Development (Japan, fino al 2015); Marcello Malpighi Symposium Series.
- 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 Cytochemistry; Human Reproduction Update; Prostate; PlosOne; Scientific Reports, Regulatory Toxicology and Toxicology, Animal Science Journal, Fertility and Sterility, Microscopie, Reproductive Biology and Endocrinology, Anatomical Science International; World Scientific Publishing.

## 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/Editor 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, Kazakistan, 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, 10<sup>th</sup> 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**

- Università di Roma La Sapienza (Prof. S.A. Nottola: Ultrastructure of the Ovary)
- University of California San Francisco (USFC, Prof. P. Rinaudo: ultrastructure of mouse embryos)
- Università degli Studi di Sassari (Prof. S. Naitana: ultrastructure of sheep and lamb oocytes)
- Istituto Superiore di Sanità, Roma (Italian National Health Institute: Dr. Giulia Scaravelli; Human Oocyte Cryopreservation)
- Università di Teramo, (Proff. M. Mattioli; B. Barboni; P. Berardinelli: Angiogenesis in the sheep and pig ovary)
- Università of Tor Vergata-Roma (Porf. B. Intrigila: Computational Modelling of endomysial 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. Ohsuka: Graduate Student exchange program)
- University of Sao Paulo, Brazil (Prof. A. Miglino, postgraduate student exchange program)
- West Kazakistan 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-learnig 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, *peer reviewed*, 1983-2018)  
Database source: Scopus, WoS, PubMed, Google Scholar,

- 125) Bernardi S, Mummolo S, Varvara G, Marchetti E, Continenza MA, Marzo G, Macchiarelli G.  
Bio-morphological evaluation of periodontal ligament fibroblasts on mineralized dentin graft: an in vitro study.  
J Biol Regul Homeost Agents. Feb 6;33(1). (2019)  
PubMed PMID: 30729763.  
DOCUMENT TYPE: Article in press  
Source: Scopus
- 124) Bernardi, S., Bianchi, S., Fantozzi, G., Leuter, C., Continenza, M.A., Macchiarelli, G.  
Morphometric study on single-root premolars in a European population sample: An update on lengths and diameters  
European Journal of Anatomy, 23 (1), pp. 17-25. (2019)  
DOCUMENT TYPE: Article  
Source: Scopus
- 123) Taghizabet, N., Khalili, M.A., Anbari, F., Agha-Rahimi, A., Nottola, S.A., Macchiarelli, G., Palmerini, M.G.  
Human cumulus cell sensitivity to vitrification, an ultrastructural study  
Zygote, 26 (3), pp. 224-231. (2018)  
DOI: 10.1017/S0967199418000138  
DOCUMENT TYPE: Article  
Source: Scopus
- 122) Di Nisio, V., Rossi, G., Iorio, R., Pellegrini, C., Macchiarelli, G., Tiboni, G.M., Petricca, S., Cecconi, S.  
VEGFR2 expression is differently modulated by parity and nulliparity in mouse ovary  
BioMed Research International, 2018, art. no. 6319414. (2018)  
DOI: 10.1155/2018/6319414  
DOCUMENT TYPE: Article  
Source: Scopus
- 121) Bernardi, S., Bianchi, S., Continenza, M.A., Pinchi, V., Macchiarelli, G. Morphological study of the labial grooves' pattern in an Italian population (2018) Australian Journal of Forensic Sciences,  
DOI: 10.1080/00450618.2018.1541192  
DOCUMENT TYPE: Article in Press  
Source: Scopus
- 120) Zhurabekova, G., Balmagambetova, A., Bianchi, S., Belli, M., Bekmukhambetov, Y., Macchiarelli, G.  
The toxicity of lindane in the female reproductive system: A review on the aral sea  
EuroMediterranean Biomedical Journal, 13 (24), pp. 104-108. (2018)  
DOCUMENT TYPE: Review  
Source: Scopus
- 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: Scopus
- 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. In: In itinere. Roma: 2016  
DOCUMENT TYPE: Book Chapter  
SOURCE: Google Scholar
- 107) G Macchiarelli. L'Anatomia del XVII secolo, dalla forma alla funzione. In: In itinere, 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. In: In itinere, Roma: 1, 1-189. 2016  
DOCUMENT TYPE: Book  
SOURCE: Google Scholar
- 105) Nottola, S.A., Albani, E., Cotichio, 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.  
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