

Guido Macchiarelli - Curriculum Vitae
Ottobre 2010

Prof. Guido Macchiarelli, nato a Roma, Italia, il 31 Maggio 1959

Indirizzo:

Dipartimento di Scienze della Salute,
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Attuale posizione	<p>Professore Ordinario di Prima Fascia di Anatomia Umana, Facoltà di Medicina e Chirurgia, Università dell'Aquila</p> <p>Direttore del Centro di Microscopie, Università dell'Aquila</p>
Carriera	<ul style="list-style-type: none"> • Laurea in Medicina e Ch. (con Lode) Univ. di Roma La Sapienza (1983) • Specialista in Cardiologia (con Lode) Univ. di Roma La Sapienza (1987) • Tecnico Laureato/Funzionario Tecnico Lab. di Microscopia Elettronica, Ist. di Anatomia Umana Normale, Univ. di Roma La Sapienza (1988-98) • Ricercatore Universitario n.c. di Anatomia Umana, Facoltà di Medicina e Chirurgia, Univ. di Roma La Sapienza (1998-2000). • Professore di Anatomia Umana, Facoltà di Medicina e Chirurgia, Università dell'Aquila, Straordinario (2000-2003) e Ordinario (dal 2003)
Principali Incarichi Accademici all'Università dell'Aquila	<ul style="list-style-type: none"> • Membro eletto del "Senato Accademico" (2001-2004) • Pro-Rettore Delegato per ICT, E-learning, ECDL (2004-2009) • Direttore del Centro di Microscopia Elettronica (2004-2010) • Vice-Presidente del Consiglio di Corso di Laurea in Medicina e Ch. (2004-07) • Direttore del Centro di Microscopie (dal 2010) • Vice Preside della Facoltà di Medicina e Chirurgia (dal 2007) • Pro-Rettore Delegato per i Rapporti con i Sindacati ed il Personale (dal 2010)
Incarichi Didattici all'Università dell'Aquila	<ul style="list-style-type: none"> • CLM in Medicina e Chirurgia Coordinatore II anno I Semestre Docente e Coordinatore dei C.I. di Anatomia Umana 1 e 2 Docente del C.I. di Epistemologia e Storia della Medicina
Facoltà di Medicina e Chirurgia	<ul style="list-style-type: none"> • CL Infermieristica Docente e Coordinatore del C.I. Anatomia e Istologia
AA. 2010-11	<ul style="list-style-type: none"> • CL Ostetricia Docente del C.I. di Anatomia • Scuole di Specializzazione: Docente nel settore S/D BIO 16 nelle Scuole di: Anestesia e rianimazione (Vice Direttore), Chirurgia Generale, Malattie dell'Apparato Cardiovascolare, Medicina dell'emergenza/urgenza, Medicina dello Sport (Vice Direttore), Ortognatodonzia Patologia Clinica, Psichiatria.

Principali Incarichi Didattici di Professore a Contratto	<p>Italia:</p> <ul style="list-style-type: none"> • Professore a Contratto di Anatomia e Fisiologia Umana e di Anatomia e Fisiologia del Sistema nervoso Scuola per Infermieri professionali della Croce Rossa Italiana, Edoardo e Virginia Agnelli (1989-1997) • Professore a Contratto di Anatomia Umana, Istituto di Grado Universitario I.S.E.F. di L'Aquila, Sede di Cagliari (1990-1994) • Professore a Contratto di Anatomia; CL Tecnico Sanitario di Radiologia Biomedico, Università La Sapienza, Roma, (dal 2000) <p>Estero:</p> <ul style="list-style-type: none"> • Assistant Professor "Techniques in Electron Microscopy" Medical College of Ohio, Toledo, USA (1984-85) • Professore a Contratto di Anatomia, Università LUDES, Lugano Svizzera (1996) • Professore a Contratto di Anatomia Umana, Università Nostra Signora del Buon Consiglio, Tirana, Albania (2008-09)
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Formazione in Italia	<ul style="list-style-type: none"> • Formazione scientifica e didattica: Laboratorio di Microscopia Elettronica, Ist. di Anatomia Umana Normale, Università di Roma La Sapienza, Direttore Prof. Pietro M. Motta (1979-2000) • Formazione clinica: Istituto di Malattie dell'Apparato Cardiovascolare, Policlinico Umberto I, Università di Roma La Sapienza, Direttore Prof. Armando Dagianti (1982-1987)
Formazione Internazionale	<ul style="list-style-type: none"> • Visiting Assistant Professor of Anatomy, Medical College of Ohio, Toledo, USA, Prof. L.J.A. DiDio (1984-85) • Visiting Investigator, Dept. of Anatomy, Univ. of Okayama, Prof. T. Murakami (1988) • Visiting Investigator, Dept. of Anatomy, Univ. of Tottori, Yonago, Japan, Prof. K. Tanaka (1988) • Visiting Investigator, Dept. of Anatomy, Univ. Osaka, Osaka, Japan, Prof. K. H. Fujita (1989) • Visiting Investigator, Dept. of Anatomy, Univ. of Niigata, Niigata, Japan, Prof. T. Fujita (1989) • Visiting Professor (1998) Lab. of Animal Reproduction, Fac. of Agriculture, Tohoku Univ., Sendai, Prof. E. Sato (1998)

Attività scientifica	<ul style="list-style-type: none"> • Più di 250 Pubblicazioni su argomenti di microscopia elettronica ed ottica, microcircolo, angiogenesi, lesione e rigenerazione endoteliale, matrice extracellulare, miocardiopatie cliniche e sperimentali, biologia della riproduzione, anatomia microscopica del fegato e vie biliari. • Più di 100 Congressi e Simposi Nazionali ed Internazionali; spesso quale "Invited Speaker" or "Session Chairman". • Organizzatore di numerosi Congressi, Simposi, Corsi di perfezionamento Nazionali ed Internazionali su argomenti di Morfologia, Riproduzione, Angiogenesi, Bio e nanotecnologie; Microscopia Elettronica ed a Forza Atomica. • Assegnatario di numerosi fondi Nazionali ed Internazionali nell'ambito di progetti PRIN, FIRB, ex 60%, Tempus, MIUR,, CNR, Istituto Superiore Sanità.
Associazioni Scientifiche	<ul style="list-style-type: none"> • Membro della Società Italiana di Anatomia ed Istologia • Membro del Collegio Italiano degli Anatomici • Membro del Consiglio direttivo delle Società Italiana di Scienze Microscopiche (S.I.S.M.) (2008-09) • Membro e Segretario Generale 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' " Int. Malpighi Academy"
Collaborazioni a Riviste Scientifiche Internazionali	<ul style="list-style-type: none"> • Associate Editor of the Open Anatomy Journal • 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; Brazilian Journal of Morphological Sciences; Biomedicine International. • Referee (peer reviewer) per: Journal of Electron Microscopy; Journal of Microscopy; Microscopy Research and Techniques; Reproductive Biology and Endocrinology; Theriogenology; Reproduction; Reproduction in Domestic Animals; Journal of Histochemistry and Citochemistry; Human Reproduction Update, Anatomical Science International; Prostate.
Organizzazione di Congressi Internazionali	<ul style="list-style-type: none"> • 8th International Symposium on Morphological Sciences (Rome 1988) • 1st, International Malpighi Symposium (Rome 1988) • 2nd, International Malpighi Symposium (Rome, 1995) • 4th, International Malpighi Symposium (Rome, 1999) • 5th, International Malpighi Symposium (Rome 2003) • 15th Cong. of Int. Federation of Association of Anatomists IFAA (Roma 1999) • 1st International Congress on Vascular Corrosion Casts - AVC 2004(Salzburg, Austria, 2004) • 17th Int. Symp.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) • President of the XXI International Symposium on Morphological Sciences, (Taormina - Messina, Italy, 2010)

Autore (Editor) di Libri Scientifici	<ol style="list-style-type: none"> 1. "Structural Basis of the Ovarian Function" S.A. Nottola and G. Macchiarelli (eds).Wiley; Microscopy Research and Technique; 2006 2. Marcello Malpighi Series: Vol. 9. Morphodynamics of Cells and Tissues. A book in memory of Pietro M. Motta. R. Heyn, F. Barberini, A. Caggiati, G. Familiari, G. Macchiarelli, S.A. In press, 2005. Il Sedicesimo, Firenze 3. Bareggi - Dell'Orbo - Ferri - Gaeta - Macchiarelli - Montagnani - Nottola Tazzi - Valenza - Verze' - Viglietti Panzica; (2004) Anatomia Umana, pag.: 600, tavole: 537 . Casa Editrice Idelson-Gnocchi; ISBN: 88-7947-377-8 4. 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 5. 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.) - Italian Journal of Anatomy and Embryology, Vol. 106 (Supplement 1) n. 2, 2001. Il Sedicesimo, Firenze. 6. Marcello Malpighi Series: Vol. 6. New Trends in Microanatomy of Reproduction. G.Macchiarelli, S.A. Nottola, S. Correr and P.M. Motta (eds.) - Italian Journal of Anatomy and Embryology, Vol. 103 (Supplement 1) n. 4, 1998. Il Sedicesimo, Firenze York), pag. 103-116, 1993
Recenti "Invited Plenary Lectures" in Congressi Internazionali	<ol style="list-style-type: none"> 1. "ADVANCED MICROSCOPY IN TEACHING" (9th MCM Graz, Austria, 2009) 2. ANGIOGENESIS IN THE MAMMALIAN OVARY: MORPHOLOGICAL ASPECTS. 5th APICA Congress, 16-19 May 2008. Tehran, Iran 3. APPLICATION OF SEM OF VASCULAR CORROSION CASTING TO THE STUDY OF ANGIOGENESIS IN THE MAMMALIAN OVARY: A REVIEW. 2nd AVC 2007, Salzburg, Austria 2007 4. OVARIAN FOLLICLE VASCULARIZATION IN MAMMALS WITH SPECIAL REGARD TO DOMESTIC ANIMALS. Microscopy & Microanalysis 2007, Ft. Lauderdale, FL, USA. 5. THE CONTRIBUTE OF SCANNING ELECTRON MICROSCOPY TO THE STUDY OF ANGIOGENESIS AND VASCULAR REMODELING IN THE MAMMALIAN OVARY. 16th International Microscopy Conference; Sapporo, Japan; September 2006 6. IN VITRO CULTURE OF OVARIAN FOLLICLES: A Model for the Study of Regulative Mechanisms of Folliculogenesis and Oogenesis. International Symposium on Recent Advances in Animal Sciences; Sendai, Japan; November, 2005 7. MORPHODYNAMICS OF MAMMALIAN OVARY MICROVASCULATURE. A Review by SEM of Vascular Corrosion Casts. 6. International Microscopy Conference; Davos, Switzerland; August 2005. 8. ULTRASTRUCTURAL ASPECTS OF IN VITRO GROWN OVARIAN FOLLICLES. 17th International Symposium on Morphological Sciences; Belgrade, Serbia-Montenegro; June, 2005 9. OVARIAN VASCULARIZATION IN MAMMALS AS SEEN BY SCANNING ELECTRON MICROSCOPY. 98th Congress of Japanese Society of Animal Reproduction; Shizuoka, Japan; September, 2005 10. SCANNING ELECTRON MICROSCOPY OF OVARIAN FOLLICLE DEVELOPMENT AND OOCYTE MATURATION. 16th International Congress of the International Federation of Associations of Anatomists; Kyoto, Japan; August, 2004 11. FOLLICULAR ANGIOGENESIS AND CAPILLARY REGRESSION DURING OVARIAN CYCLE. A Review by SEM of Vascular Corrosion Casts. 5th International Malpighi Symposium; Rome, Italy; September, 2003 12. EXPRESSION OF ANGIOGENESIS DURING OVARIAN FOLLICULOGENESIS. Advances in Vascular Casting 2003; Salzburg, Austria; July, 2003

Accordi Internazionali attivati presso l'Università dell'Aquila	<ul style="list-style-type: none"> • Tohoku University, Sendai, Japan • University of Okayama, Okayama, Japan
Collaborazioni scientifiche attive	<ul style="list-style-type: none"> • 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, (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: (International Agreement sponsored by MIUR-Interlink – Biotechnology of Reproduction) • University of Niigata; Japan (Prof. I Ushiki: Graduate Student exchange program) • University of Okayama, Japan (Prof. A. Ohtsuka: Graduate Student exchange program) • University of Toyama; Japan (Prof. O. Ohtani: Three-dimensional ultrastructure of extracellular matrix in the heart) • University of Tokyo; Japan (Prof. S. Makabe: Electron microscopy of early human development) • University of Ottawa; Canada (Prof. J. Jang: Scanning electron microscopy of vascular corrosion casts in ovary) • University of Maringá, Paraná, Brazil, Prof. I. Prado: Scanning Electron Microscopy of Collagen) • University of Sao Paulo, Brazil (Prof. A. Miglino, postgraduate student exchange program)

Guido Macchiarelli

Main Full Papers

Source: *PubMed - ISI - October 2010*

- 1 CECCONI S, ROSSI G, SANTILLI A, PALMERINI MG, DISTEFANO L, HOSHINO Y, SATO E, MACCHIARELLI G. (2010). Akt expression in mouse oocytes matured in vivo and in vitro. *REPRODUCTIVE BIOMEDICINE ONLINE*, vol. 20; p. 35-41, ISSN: 1472-6491, doi: 10.1016/j.rbmo.2009.10.011
- 2 COTICCHIO G, BORINI A, DISTRATIS V, MAIONE M, SCARAVELLI G, BIANCHI V, MACCHIARELLI G., NOTTOLA SA (2010). Qualitative and morphometric analysis of the ultrastructure of human oocytes cryopreserved by two alternative slow cooling protocols. *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*, vol. 27; p. 131-140, ISSN: 1058-0468
- 3 MACCHIARELLI G., NOTTOLA SA, PALMERINI MG, BIANCHI S, MAIONE M, LORENZO G, STIFANO G, DI MARCO E, CORRER S (2010). Morphological expression of angiogenesis in the mammalian ovary as seen by SEM of corrosion casts. *ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY*, vol. 115; p. 109-114, ISSN: 1122-6714
- 4 PALUMBO P, MELCHIORRE E, LA TORRE C, MICONI G, CINQUE B, MARCHESANI G, ZOCCALI, VG, MAIONE M, MACCHIARELLI G., VITALE AR, LEOCATI P, CIFONE MG, GIULIANI M (2010). Effects of phosphatidylcholine and sodium deoxycholate on human primary adipocytes and fresh human adipose tissue. *INTERNATIONAL JOURNAL OF IMMUNOPATHOLOGY AND PHARMACOLOGY*, vol. 23; p. 431-489, ISSN: 0394-6320
- 5 PLACIDI G, CIFONE MG, CINQUE B, FRANCHI D, GIULIANI M, LA TORRE C, MACCHIARELLI G., MAGLIONE M, MAURIZI A, MICONI G, SOTGIU A (2010). Numerical Methods for the Semi-automatic Analysis of Multimodal Wound Healing Images. *LECTURE NOTES IN COMPUTER SCIENCE*, vol. 6026; p. 151-162, ISSN: 0302-9743, doi: 10.1007/978-3-642-12712-0_14
- 6 MARTELLI A, PALMERINI MG, RUSSO V, RINALDI C, BERNABÒ N, DI GIACINTO O, BERARDINELLI P, NOTTOLA SA, MACCHIARELLI G., BARBONI B (2009). Blood vessel remodeling in pig ovarian follicles during the periovulatory period: an immunohistochemistry and SEM-corrosion casting study. *REPRODUCTIVE BIOLOGY AND ENDOCRINOLOGY*, vol. 7:72, ISSN: 1477-7827, doi: 10.1186/1477-7827-7-72.
- 7 MARTELLI A, RUSSO V, PALMERINI MG, MAURO A, RINALDI C, DI GIACINTO O, NARDINOCCHI D, TURRIANI M, MACCHIARELLI G., BERARDINELLI P, MATTIOLI M (2009). Three-dimensional microvasculature remodeling study of pig periovulatory follicles using vascular corrosion casts. *VETERINARY RESEARCH COMMUNICATIONS*, vol. 33 suppl 1; p. 97-100, ISSN: 0165-7380, doi: 10.1007/s11259-009-9258-8
- 8 NOTTOLA SA, G COTICCHIO G, SCIAJNO R, GAMBARDELLA A, MAIONE M, SCARAVELLI G, BIANCHI S, MACCHIARELLI G., BORINI A (2009). Ultrastructural markers of quality in human mature oocytes vitrified using cryoleaf and cryoloop. *REPRODUCTIVE BIOMEDICINE ONLINE*, vol. 19 suppl 2; p. 17-27, ISSN: 1472-6491
- 9 JIANG JY, MIYABAYASHI K, NOTTOLA SA, UMEZU M, CECCONI S, MACCHIARELLI G. (2008). Thyroxine treatment stimulated ovarian follicular angiogenesis in immature hypothyroid rats. *HISTOLOGY AND HISTOPATHOLOGY*, vol. 23; p. 1387-1398, ISSN: 0213-3911
- 10 NOTTOLA SA, CAMBONI A, VAN LANGENDONCKT A, DEMYLLE D, MACCHIARELLI G., DOLMANS M, MARTINEZ-MADRID B, CORRER S, DONNEZ J (2008). CRYOPRESERVATION AND XENOTRANSPLANTATION OF HUMAN OVARIAN TISSUE: AN ULTRASTRUCTURAL STUDY. *FERTILITY AND STERILITY*, vol. 90; p. 23-32, ISSN: 0015-0282, doi: 10.1016/j.fertnstert.2007.05.069
- 11 NOTTOLA SA, COTICCHIO G, DE SANTIS L, MACCHIARELLI G., MAIONE M, BIANCHI S, IACCARINO M, FLAMIGNI C AND BORINI A (2008). Ultrastructure of human mature oocytes after slow cooling cryopreservation with ethylene glycol. *REPRODUCTIVE BIOMEDICINE ONLINE*, vol. 17; p. 368-377, ISSN: 1472-6491
- 12 CECCONI S, PARO R, ROSSI G, MACCHIARELLI G. (2007). The Effects of the Endocrine Disruptors Dithiocarbamates on the Mammalian Ovary with Particular Regard to Mancozeb. *CURRENT PHARMACEUTICAL DESIGN*, vol. 13; p. 2989-3004, ISSN: 1381-6128.
- 13 INTRIGILA B, MELATTI I, TOFANI A, MACCHIARELLI G. (2007). Computational models of myocardial endomysial collagen arrangement. *COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE*, vol. 86; p. 232-244, ISSN: 0169-2607, doi: 10.1016/j.cmpb.2007.03.004.
- 14 NOTTOLA S.A, MACCHIARELLI G., COTICCHIO G, BIANCHI S, CECCONI S, DE SANTIS L, SCARAVELLI G, FLAMIGNI C, A. BORINI A (2007). Ultrastructure of human mature oocytes after slow cooling cryopreservation using different sucrose concentrations. *HUMAN REPRODUCTION*, vol. 22; p. 1123-1133, ISSN: 0268-1161, doi: 10.1093/humrep/del463
- 15 MACCHIARELLI G., JIANG J-Y, NOTTOLA SA, AND SATO E (2006). Morphological patterns of angiogenesis in ovarian follicle capillary networks. A scanning electron microscopy study of corrosion cast. *MICROSCOPY RESEARCH AND TECHNIQUE*, vol. 69; p. 459-468, ISSN: 1059-910X, doi: 10.1002/jemt.20305
- 16 NOTTOLA S.A., HEYN R., CAMBONI A., MACCHIARELLI G. (2006). Ultrastructural characteristics of human granulosa cells in a coculture system for in vitro fertilization. *MICROSCOPY RESEARCH AND TECHNIQUE*, vol. 69; p. 508-516, ISSN: 1059-910X, doi: 10.1002/jemt.20309

- 17 NOTTOLA SA, MACCHIARELLI G. (2006). Structural Bases of Ovarian Function: An Introduction. Editorial. MICROSCOPY RESEARCH AND TECHNIQUE, vol. 69; p. 384-385, ISSN: 1059-910X, doi: 10.1002/jemt.20297
- 18 ROSSI G, BUCCIONE R, BALDASSARRE M, MACCHIARELLI G., PALMERINI MG, CECCONI S (2006). Mancozeb exposure in vivo impairs mouse oocyte fertilizability. REPRODUCTIVE TOXICOLOGY, vol. 21; p. 216-219, ISSN: 0890-6238, doi: 10.1016/j.reprotox.2005.08.004
- 19 ROSSI G, MACCHIARELLI G., PALMERINI MG, CANIPARI R, CECCONI S (2006). Meiotic spindle configuration is differentially influenced by FSH and epidermal growth factor during in vitro maturation of mouse oocytes. HUMAN REPRODUCTION, vol. 21; p. 1765-1770, ISSN: 0268-1161, doi: 10.1093/humrep/del074
- 20 ROSSI G, PALMERINI MG, MACCHIARELLI G., BUCCIONE R, CECCONI S (2006). Mancozeb adversely affects meiotic spindle organization and fertilization in mouse oocytes. REPRODUCTIVE TOXICOLOGY, vol. 22; p. 51-55, ISSN: 0890-6238, doi: 10.1016/j.reprotox.2005.11.005
- 21 CECCONI S, ROSSI G, BIANCHI S, STALLONE T, MACCHIARELLI G., NOTTOLA S. (2005). In vitro culture of mammalian early ovarian follicles. Morphofunctional correlates and future perspectives. ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY, vol. 110 (2 Suppl 1); p. 189-194, ISSN: 1122-6714
- 22 DURANTE CM, CAMBONI A, BIANCHI S, MACCHIARELLI G. (2005). Short-term patency of 1 mm diameter PTFE prosthesis: an angiographic, Doppler-flowmetric and morphological experimental study. ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY, vol. 110(2 Suppl 1); p. 117-125, ISSN: 1122-6714
- 23 NOTTOLA SA, MAKABE S, STALLONE T, FAMILIARI G, CORRER S, MACCHIARELLI G. (2005). Surface morphology of the zona pellucida surrounding human blastocysts obtained after in vitro fertilization. ARCHIVES OF HISTOLOGY AND CYTOLOGY, vol. 68 (2); p. 133-141, ISSN: 0914-9465, doi: 10.1679/aohc.68.133
- 24 PRADO IM, DI DIO LJ, MIRANDA-NETO MH, MOLINARI SL, MACCHIARELLI G. (2005). Three-dimensional distribution of the collagen fibers in the submucosa of the swine terminal ileum. ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY, vol. 110 (2 Suppl 1); p. 77-86, ISSN: 1122-6714
- 25 VIZZA E, CORRER S, BARBERINI F, HEYN R, BIANCHI S, MACCHIARELLI G. (2005). 3-d ultrastructural distribution of collagen in human placental villi at term in relation to vascular tree. THE JOURNAL OF REPRODUCTION AND DEVELOPMENT, vol. 51(4); p. 433-442, ISSN: 0916-8818, doi: 10.1262/jrd.17022
- 26 CECCONI S, CICCARELLI C, BARBERI M, MACCHIARELLI G., CANIPARI R. (2004). Granulosa cell-oocyte interactions. EUROPEAN JOURNAL OF OBSTETRICS, GYNECOLOGY, AND REPRODUCTIVE BIOLOGY, vol. 115 Suppl 1; p. S19-S22, ISSN: 0301-2115, doi: 10.1016/j.ejogrb.2004.01.010
- 27 CECCONI S, ROSSI G, COTICCHIO G, MACCHIARELLI G., BORINI A, CANIPARI R (2004). Influence of thyroid hormone on mouse preantral follicle development in vitro. FERTILITY AND STERILITY, vol. 81Suppl 1; p. 919-924, ISSN: 0015-0282, doi: 10.1016/j.fertnstert.2003.11.014
- 28 COTICCHIO G, ROSSI G, BORINI A, GRONDAHL C, MACCHIARELLI G., FLAMIGNI C, FLEMING S, CECCONI S. (2004). Mouse oocyte meiotic resumption and polar body extrusion in vitro are differentially influenced by FSH, epidermal growth factor and meiosis-activating sterol. HUMAN REPRODUCTION, vol. 19; p. 2913-2918, ISSN: 0268-1161, doi: 10.1093/humrep/deh514
- 29 BARBERINI F, FAMILIARI G, MACCHIARELLI G. (2003). Commemoration of Professor Pietro M. Motta (1942-2002). ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY, vol. 108; p. V-X, ISSN: 1122-6714
- 30 FIORI E, MACCHIARELLI G., SCHILLACI A, LAMAZZA A, BURZA A, PAPARELLI C, CAVALLARO A, CANGEMI V. (2003). Hepatocyte ultrastructural aspects after preoperative biliary drainage in pancreatic cancer patients with cholestatic jaundice. ANTICANCER RESEARCH, vol. 23; p. 4859-4863, ISSN: 0250-7005
- 31 JIANG JY, MACCHIARELLI G., TSANG BK, SATO E (2003). Capillary angiogenesis and degeneration in bovine ovarian antral follicles. REPRODUCTION, vol. 125; p. 211-223, ISSN: 1470-1626
- 32 MOTTA P.M., NOTTOLA S.A., FAMILIARI G., MAKABE S., STALLONE T., MACCHIARELLI G. (2003). Morphodynamics of the follicular-luteal complex during early ovarian development and reproductive life. INTERNATIONAL REVIEW OF CYTOLOGY, vol. 223; p. 177-288, ISSN: 0074-7696
- 33 PRADO IM, DI DIO LJ, MIRANDA-NETO MH, MOLINARI SL, STALLONE T, MACCHIARELLI G., MOTTA PM (2003). Distribution of collagen fibers in the aggregated lymphoid follicles of swine terminal ileum. ANNALS OF ANATOMY, vol. 185; p. 73-80, ISSN: 0940-9602
- 34 JANG J.Y., MACCHIARELLI G., MIYABAYASHI K., SATO E. (2002). Follicular microvasculature in the porcine ovary. CELL AND TISSUE RESEARCH, vol. 310; p. 93-101, ISSN: 0302-766X, doi: 10.1007/s00441-002-0565-4
- 35 MACCHIARELLI G., OHTANI O., NOTTOLA S.A., STALLONE T., CAMBONI I., PRADO I.M., MOTTA P.M. (2002). A micro-anatomical model of the distribution of myocardial endomysial collagen. HISTOLOGY AND HISTOPATHOLOGY, vol. 17; p. 699-706, ISSN: 0213-3911

- 36 MACCHIARELLI G., OHTANI O (2001). Endomysium in the left ventricle. *HEART*, vol. 86; p. 416, ISSN: 1355-6037
- 37 NOTTOLA SA, MAKABE S, STALLONE T, FAMILIARI G, MACCHIARELLI G., MOTTA PM (2001). In vitro fertilized human eggs. An electron microscopic study. *ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY*, vol. 106(2 Suppl 2):; p. 75-83, ISSN: 1122-6714
- 38 MACCHIARELLI G. (2000). The microvasculature of the ovary. A review by SEM of vascular corrosion casts. *THE JOURNAL OF REPRODUCTION AND DEVELOPMENT*, vol. 46; p. 207-255, ISSN: 0916-8818, doi: 10.1262/jrd.46.207
- 39 NOTTOLA SA, MAKABE S, STALLONE T, MACCHIARELLI G., CORRER S, MOTTA PM (2000). Ultrastructure and distribution of interstitial glandular cells and associated elements in human fetal ovaries. *ARCHIVES OF HISTOLOGY AND CYTOLOGY*, vol. 63; p. 345-55, ISSN: 0914-9465, doi: 10.1679/aohc.63.345
- 40 BARBERINI F, CARONE VS, CAGGIATI A, MACCHIARELLI G., CORRER S (1999). An unusual peritoneal fossa:anatomic report and clinical implications. *SURGICAL AND RADIOLOGIC ANATOMY*, vol. 21; p. 287-91, ISSN: 0930-1038
- 41 MOTTA PM, NOTTOLA SA, FAMILIARI G, MACCHIARELLI G., CORRER S, MAKABE S (1999). Structure and function of the human oocyte-cumulus-corona cell complex before and after ovulation. *PROTOPLASMA*, vol. 206; p. 270-77, ISSN: 0033-183X
- 42 CAGGIATI A, MACCHIARELLI G., FAMILIARI G (1998). Topographical Structural Variations of the Human Long Saphenous Vein and its Age-Related Remodelling as Revealed by Correlated Light and Scanning Electron Microscopy. *PHLEBOLOGY*, vol. 13; p. 156-62, ISSN: 0268-3555
- 43 FAMILIARI G, VERLENGIA C, NOTTOLA SA, TRIPODI A, HYTTEL P, MACCHIARELLI G., MOTTA PM (1998). Ultrastructural features of bovine cumulus-corona cells surrounding oocytes, zygotes and early embryos. *REPRODUCTION FERTILITY AND DEVELOPMENT*, vol. 10; p. 315-26, ISSN: 1031-3613
- 44 MACCHIARELLI G., NOTTOLA SA, FAMILIARI G, CAGGIATI A (1998). Aging of human long saphenous vein. A light and scanning electron microscopy study. *CARDIOVASCULAR IMAGIN*, vol. 10; p. 5-8, ISSN: 1120-0421
- 45 MACCHIARELLI G., NOTTOLA SA, PICUCCI K, STALLONE T, MOTTA PM (1998). The microvasculature of the corpus luteum in pregnant rabbit. A scanning electron microscopy study of corrosion casts. *ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY*, vol. 103(4 Suppl 1); p. 191-202, ISSN: 1122-6714
- 46 MACCHIARELLI G., TRITAPEPE L, PICUCCI K, SPOSATO B, PASTORE A, MARTUSCELLI E (1998). The ultrastructural aspects of myocardial stunning after CO poisoning. *CARDIOVASCULAR IMAGIN*, vol. 10; p. 95-9, ISSN: 1120-0421
- 47 MOTTA PM, MAKABE S, NOTTOLA SA, MACCHIARELLI G., FAMILIARI G, CORRER S (1998). Morphodynamic events of human oocytes during folliculogenesis and in the extraovarian microfollicular unit. *ASSISTED REPRODUCTION REVIEWS*, vol. 8; p. 205-16, ISSN: 1051-2446
- 48 NOTTOLA SA, MACCHIARELLI G., FAMILIARI G, STALLONE T, SATHANANTHAN AH, MOTTA PM (1998). Egg-sperm interactions in humans: ultrastructural aspects. *Ital J Anat Embryol. ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY*, vol. 103(4 Suppl 1); p. 85-101, ISSN: 1122-6714
- 49 TRITAPEPE L, MACCHIARELLI G., ROCCO M, SCOPINARO F, SCHILLACI O, MARTUSCELLI E, MOTTA PM (1998). Functional and ultrastructural evidence of myocardial stunning after acute carbon monoxide poisoning. *CRITICAL CARE MEDICINE*, vol. 26; p. 797-801, ISSN: 0090-3493
- 50 MOTTA PM, MACCHIARELLI G., NOTTOLA SA, CORRER S (1997). Histology of the exocrine pancreas. *MICROSCOPY RESEARCH AND TECHNIQUE*, vol. 37; p. 384-98, ISSN: 1059-910X, doi: 10.1002/(SICI)1097-0029(19970601)37:5/63.O.CO;2-E
- 51 NOTTOLA SA, MACCHIARELLI G., MOTTA PM (1997). The angioarchitecture of estrous, pseudopregnant and pregnant rabbit ovary as seen by scanning electron microscopy of vascular corrosion casts. *CELL AND TISSUE RESEARCH*, vol. 288; p. 353-63, ISSN: 0302-766X
- 52 MANGIERI E, MACCHIARELLI G., CIAVOLELLA M, BARILLA F, AVELLA A, MARTINOTTI A, DELL'ITALIA LJ, SCIBILIA G, MOTTA P, CAMPA PP (1996). Slow coronary flow:clinical and histopathological features in patients with otherwise normal epicardial coronary arteries. *CATHETERIZATION AND CARDIOVASCULAR DIAGNOSIS*; p. 375-81, ISSN: 0098-6569, doi: 10.1002/(SICI)1097-0304(199604)37:43.O.CO;2-8
- 53 MACCHIARELLI G., NOTTOLA SA, VIZZA E, CORRER S, MOTTA PM (1995). Changes of ovarian microvasculature in hCG stimulated rabbits. A scanning electron microscopic study of corrosion casts. *ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY*, vol. 100 Suppl 1; p. 469-77, ISSN: 1122-6714
- 54 MOTTA PM, NOTTOLA SA, FAMILIARI G, MACCHIARELLI G., VIZZA E, CORRER S (1995). Ultrastructure of human reproduction from folliculogenesis to early embryo development. A review. *ITALIAN JOURNAL OF ANATOMY AND EMBRYOLOGY*, vol. 100; p. 9-72, ISSN: 1122-6714

- 55 MACCHIARELLI G., CHIAVARELLI R, MACCHIARELLI AG, CHIAVARELLI M, NIGRI G, FABI F, DEL BASSO P, MOTTA PM, MARINO B (1994). In-vitro effects of cardioplegic solutions on human saphenous vein endothelium--a scanning electron microscopy study. *THORACIC AND CARDIOVASCULAR SURGEON*, vol. 42; p. 264-70, ISSN: 0171-6425
- 56 MACCHIARELLI G., DIDIO LJ, ALLEN DJ, STOLF NG, PEGO-FERNANDES P, MOTTA PM (1994). Scanning electron microscopy study of endocardial regeneration in bovine pericardial patch-grafts implanted in the canine heart. *CARDIOSCIENCE*, vol. 5; p. 43-9, ISSN: 1015-5007
- 57 MACCHIARELLI G., NOTTOLA SA, MOTTA PM (1994). Insegnamento multimediale in Anatomia. Elaborazione di un software didattico sperimentale. *RIVISTA MEDICA ITALIANA*, vol. 13(1); p. 208-216
- 58 MOTTA PM, VIZZA E, CORRER S, MACCHIARELLI G., FAMILIARI G, MUGLIA U (1994). An ultrastructural study of the fibromuscular capsule of the corpus luteum in mice. *ACTA ANATOMICA*, vol. 149; p. 247-54, ISSN: 0001-5180
- 59 FAMILIARI G, FAMILIARI A, MACCHIARELLI G., DIDIO LJA, MOTTA PM (1993). The use of sonic frequencies as a clearing agent of specimens to be observed with scanning electron microscopy. *SCANNING MICROSCOPY*, vol. 7; p. 107-14, ISSN: 0891-7035
- 60 MACCHIARELLI G., NOTTOLA SA, VIZZA E, FAMILIARI G, KIKUTA A, MURAKAMI T, MOTTA PM (1993). Microvasculature of growing and atretic follicles in the rabbit ovary: a SEM study of corrosion casts. *ARCHIVES OF HISTOLOGY AND CYTOLOGY*, vol. 56; p. 1-12., ISSN: 0914-9465
- 61 CAGGIATI A, MACCHIARELLI G., NOTTOLA SA, VIZZA E, FAMILIARI G (1992). Scanning electron microscopy of the rabbit gallbladder mucosal microvasculature. *JOURNAL OF ANATOMY*, vol. 180; p. 275-80, ISSN: 0021-8782
- 62 FAMILIARI G, NOTTOLA SA, MACCHIARELLI G., FAMILIARI A, MOTTA PM (1992). A technique for exposure of the glycoproteic matrix (zona pellucida and mucus) for scanning electron microscopy. *MICROSCOPY RESEARCH AND TECHNIQUE*, vol. 23; p. 225-9, ISSN: 1059-910X, doi: 10.1002/jemt.1070230305
- 63 FAMILIARI G, NOTTOLA SA, MACCHIARELLI G., MICARA G, ARAGONA C, MOTTA PM (1992). Human zona pellucida during in vitro fertilizationan ultrastructural study using saponin, ruthenium red, and osmium-thiocarbohydrazide. *MOLECULAR REPRODUCTION AND DEVELOPMENT*, vol. 32; p. 51-61, ISSN: 1040-452X
- 64 MACCHIARELLI G., NIGRI G, MARTINOTTI A, DIDIO LJ (1992). Subcellular structure of the atrial myocardium of children in cases of atrial septal defect. *JOURNAL OF SUBMICROSCOPIC CYTOLOGY AND PATHOLOGY*, vol. 24; p. 395-400, ISSN: 1122-9497
- 65 MACCHIARELLI G., VIZZA E, NOTTOLA SA, FAMILIARI G, MOTTA PM (1992). Cellular and microvascular changes of the ovarian follicle during folliculogenesis: a scanning electron microscopic study. *ARCHIVES OF HISTOLOGY AND CYTOLOGY*, vol. 55 Suppl; p. 191-204, ISSN: 0914-9465
- 66 MUGLIA U, VIZZA E, MACCHIARELLI G., GERMANÀ G, MOTTA PM (1992). The three-dimensional architecture of the myosalpinx in mammals: an anatomical model for a functional hypothesis. *ARCHIVES OF HISTOLOGY AND CYTOLOGY*, vol. 55 Suppl; p. 171-81, ISSN: 0914-9465
- 67 SQUADRITO F, MACCHIARELLI G., SANTORO G, ARCORACI V, TRIMARCHI GR, STURNIOLO R, NOTTOLA SA, MOTTA PM, CAPUTI AP (1992). Effects of captopril on the development of rat doxorubicin nephropathy. *HISTOLOGY AND HISTOPATHOLOGY*, vol. 7; p. 223-9, ISSN: 0213-3911
- 68 MACCHIARELLI G., FAMILIARI G, CAGGIATI A, MAGLIOCCA FM, RICCARDELLI F, MIANI A, MOTTA PM (1991). Arterial repair after microvascular anastomosis. Scanning and transmission electron microscopy study. *ACTA ANATOMICA*, vol. 140; p. 8-16, ISSN: 0001-5180
- 69 MACCHIARELLI G., NOTTOLA SA, VIZZA E, KIKUTA A, MURAKAMI T, MOTTA PM (1991). Ovarian microvasculature in normal and hCG stimulated rabbits. A study of vascular corrosion casts with particular regard to the interstitium. *JOURNAL OF SUBMICROSCOPIC CYTOLOGY AND PATHOLOGY*, vol. 23; p. 391-5, ISSN: 1122-9497
- 70 MARTINOTTI A, MACCHIARELLI G., FINN DW, CORRER S, MOTTA PM (1991). Scanning electron microscopy of stellate cells of mammalian adrenal cortex as revealed by NaOH maceration. *JOURNAL OF ANATOMY*, vol. 179; p. 33-8., ISSN: 0021-8782
- 71 VIZZA E, MUGLIA U, MACCHIARELLI G., BASCHIERI L, PASETTO N, MOTTA PM (1991). Three-dimensional architecture of the human myosalpinx isthmus. Scanning electron microscopy after NaOH digestion and ultrasonic microdissection. *CELL AND TISSUE RESEARCH*, vol. 266; p. 219-21, ISSN: 0302-766X
- 72 CHIAVARELLI R, MACCHIARELLI G., FAMILIARI G, CHIAVARELLI M, MACCHIARELLI A, DEL BASSO P, MARINO B, MOTTA PM (1989). Ultrastructural changes of coronary artery endothelium induced by cardioplegic solutions. *THORACIC AND CARDIOVASCULAR SURGEON*, vol. 37; p. 151-7, ISSN: 0171-6425
- 73 MAGGIONI A, CAGGIATI A, MACCHIARELLI G. (1989). Scanning electron microscopy of microvessels and perivascular cells in different organs after KOH digestion. *PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH*, vol. 295; p. 469-74, ISSN: 0361-7742

- 74 MAKABE S, MACCHIARELLI G., MOTTA PM (1989). Human fetal liver cells as seen by scanning electron microscopy. PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH, vol. 295; p. 277-80, ISSN: 0361-7742
- 75 MACCHIARELLI G., MOTTA PM (1986). The three-dimensional microstructure of the liver. A review by scanning electron microscopy. SCANNING ELECTRON MICROSCOPY, vol. 1986;(Pt 3); p. 1019-38, ISSN: 0586-5581
- 76 MACCHIARELLI G., MOTTA PM (1986). The three-dimensional microstructure of the liver. A review by scanning electron microscopy. SCANNING ELECTRON MICROSCOPY, vol. 1986(Pt 3); p. 1019-38, ISSN: 0586-5581
- 77 MACCHIARELLI G., CHIAVARELLI R, MACCHIARELLI A, CHIAVARELLI M, TOSCANO M, CARPI A, MARINO B (1983). Effects of cardioplegic solutions on coronary and myocardial ultrastructure. Preliminary note [Italian]. GIORNALE ITALIANO DI CARDIOLOGIA, vol. 13; p. 106-12, ISSN: 0046-5968