

Luana Ricci, è professore di Fisiologia presso il Dipartimento di Scienze della Vita (Università degli Studi di Siena). Si è laureata in Scienze Biologiche presso l’Università di Siena ed ha compiuto l’intera carriera accademica presso la stessa Università come Ricercatore (1981), Professore Associato (1987) e Professore Ordinario in Fisiologia (2001). Insegna Fisiologia Generale e dei Sistemi nei corsi di laurea in Scienze Biologiche e in Scienze Ambientali e Naturali. Ha condotto ricerche presso Università e centri di ricerca stranieri: University of Texas (USA); University of Cambridge (UK); University of San Paolo (Brazil); University of Missouri (USA); Polish Academy of Sciences (Poland). E’ membro di Società Scientifiche nazionali e internazionali ed ha fatto parte del Consiglio direttivo della Società Italiana di Fisiologia, anche ricoprendo l’incarico di Segretario-tesoriere .

E’ membro del Consiglio Direttivo dell’Accademia dei Fisiocritici e co-editor della rivista scientifica online pubblicata della stessa accademia: The Journal of Siena Academy of Sciences (JSAS).

Uno dei temi scientifici di cui, si è maggiormente occupata negli ultimi dieci anni, ha riguardato gli effetti di sostanze chimiche ambientali (interferenti endocrini) sui processi funzionali della riproduzione umana. Su quest’ultimo tema è stata proponente e/o coordinatore di progetti finanziati a livello nazionale (progetti Prin: Ministero dell’Istruzione, dell’Università e della Ricerca) e internazionale (VI Framework Programme, Comunità Europea) ed è stata responsabile di un progetto di ricerca bilaterale tra il Ministero degli Esteri Italiano e il Ministero degli Esteri polacco (2016-2018).

Ha partecipato a numerosi congressi nazionali e internazionali anche come relatore, chairman o organizzatore. Ha pubblicato più di 100 lavori scientifici su riviste scientifiche internazionali ed ha contribuito alla pubblicazione di libri su testi specifici sia come autore di capitoli che come editore.

Elenco delle Pubblicazioni su riviste scientifiche internazionali, dal 2005 - ad oggi:

- **N.B.** Tutte le pubblicazioni di Luana Ricci Paulesu sono riportate con il solo nome da coniugata: **Paulesu L.**

Narciso L, Ietta F, Romagnoli R, **Paulesu L** Tait S. Effects of Bisphenol A on endogenous retroviral envelopes expression and trophoblast fusion in BeWo cells. *Reprod Toxicol*. 2019; 3;89:35-44.

Ietta F, Ferro EAV, Bevilacqua E, Benincasa L, Maioli E, **Paulesu L**. Role of the Macrophage Migration Inhibitory Factor (MIF) in the survival of first trimester human placenta under induced stress conditions. *Sci Rep*. 2018; 14;8(1):12150.

de Oliveira Cardoso MF, Morelli JB, Gomes AO, de Freitas Zanon C, Silva AE, **Paulesu L**, Ietta F, Mineo JR, Ferro EA, Oliani SM. Annexin A1 peptide is able to induce an anti-parasitic effect in human placental explants infected by Toxoplasma gondii. *Microp Pathog*. 2018;123:153-161.

Paulesu L, Rao CV, Ietta F, Pietropolli A, Ticconi C. hCG and Its Disruption by Environmental Contaminants during Human Pregnancy. *Int J Mol Sci*. 2018; 20;19(3). Review.

Blackburn DG, **Paulesu L**, Avanzati AM, Roth M. History of reptile placentology, part III: Giacomini's 1891 histological monograph on lizard placentation. *Placenta*. 2017; 60:93-99.

Verratti V, Ietta F, **Paulesu L**, Romagnoli R, Ceccarelli I, Doria C, Fanò Illic G, Di Giulio C, Aloisi AM. Physiological effects of high-altitude trekking on gonadal, thyroid hormones and macrophage migration inhibitory factor (MIF) responses in young lowlander women. *Physiol Rep.* 2017; 5(20) pii: e13400.

Ietta F, Maioli E, Daveri E, Gonzaga Oliveira J, da Silva RJ, Romagnoli R, Cresti L, Maria Avanzati A, **Paulesu L**, Barbosa BF, Gomes AO, Roberto Mineo J, Ferro EAV. Rottlerin-mediated inhibition of Toxoplasma gondii growth in BeWo trophoblast-like cells. *Sci Rep.* 2017; 28;7(1):1279.

Verratti V, **Paulesu L**, Pietrangelo T, Doria C, Di Giulio C, Aloisi AM. The influence of altitude hypoxia on uroflowmetry parameters in women. *Am J Physiol Renal Physiol.* 2016; 1;311(3):F562-6.

Costa AF, Gomes SZ, Lorenzon-Ojea AR, Martucci M, Faria MR, Pinto Ddos S Jr, Oliveira SF, Ietta F, **Paulesu L**, Bevilacqua E.

Macrophage migration inhibitory factor induces phosphorylation of Mdm2 mediated by phosphatidylinositol 3-kinase/Akt kinase: Role of this pathway in decidual cell survival. *Placenta.* 2016; 41:27-38.

Cameli M, Righini FM, Sparla S, Tacchini D, Dokollari A, Sassi CG, Di Tommaso C, Curci V, Censini S, Incampo E, Cassano F, Droandi G, Bernazzali S, Focardi M, Ietta F, Sartiani L, Romagnoli R, Marotta G, Mugelli A, **Paulesu L**, Sani G, Tanganeli P, Maccherini M, Mondillo S. First Evidence of Cardiac Stem Cells From the Left Ventricular Apical Tip in Patients With Left Ventricular Assist Device Implantation. *Transplant Proc.* 2016; 48(2):395-8.

Sieppi E, Vähäkangas K, Rautio A, Ietta F, **Paulesu L**, Myllynen P. The xenoestrogens, bisphenol A and para-nonylphenol, decrease the expression of the ABCG2 transporter protein in human term placental explant cultures. *Mol Cell Endocrinol.* 2016; 5;429:41-9.

Mannelli C, Ietta F, Avanzati AM, Skarzynski D, **Paulesu L**. Biological Tools to Study the Effects of Environmental Contaminants at the Feto-Maternal Interface. *Dose Response.* 2015; 12;13(4):1559325815611902.

Blackburn DG, Avanzati AM, **Paulesu L**. Classics revisited. History of reptile placentology: Studiati's early account of placentation in a viviparous lizard. *Placenta.* 2015; 36(11):1207-11.

Spagnoletti A, **Paulesu L**, Mannelli C, Ermini L, Romagnoli R, Cintorino M, Ietta F. Low concentrations of Bisphenol A and para-Nonylphenol affect extravillous pathway of human trophoblast cells. *Mol Cell Endocrinol.* 2015; 5;412:56-64.

Mannelli C, Szóstek AZ, Lukasik K, Carotenuto C, Ietta F, Romagnoli R, Ferretti C, **Paulesu L**, Wołczynski S, Skarzynski DJ. Bisphenol A modulates receptivity and secretory function of human decidual cells: an in vitro study. *Reproduction.* 2015; 150(2):115-25.

Corallo C, **Paulesu L**, Cutolo M, Ietta F, Carotenuto C, Mannelli C, Romagnoli R, Nuti R, Giordano N. Serum levels, tissue expression and cellular secretion of macrophage migration inhibitory factor in limited and diffuse systemic sclerosis. *Clin Exp Rheumatol.* 2015; 33(4 Suppl 91):S98-105.

Mannelli C, Ietta F, Carotenuto C, Romagnoli R, Szostek AZ, Wasniewski T, Skarzynski DJ, **Paulesu L**. Bisphenol A Alters β -hCG and MIF Release by Human Placenta: An In Vitro Study to Understand the Role of Endometrial Cells. *Mediators Inflamm.* 2014; 635364

Bevilacqua E, **Paulesu L**, Ferro EA, Ietta F, Faria MR, Lorenzon AR, Costa AF, Martucci M Review: putative roles for the macrophage migratory inhibitory factor at the maternal fetal interface. *Placenta*. 2014; 35 Suppl: S51-6.

Barbosa BF, **Paulesu L**, Ietta F, Bechi N, Romagnoli R, Gomes AO, Favoreto-Junior S, Silva DA, Mineo JR, Mineo TW, Ferro EA Susceptibility to Toxoplasma gondii proliferation in BeWo human trophoblast cells is dose-dependent of macrophage migration inhibitory factor (MIF), via ERK1/2 phosphorylation and prostaglandin E2 production *Placenta*. 2014; 35(3):152-62.

Cardaropoli S, Ietta F, Romagnoli R, Rolfo A, **Paulesu L**, Todros T. Lower Macrophage Migration Inhibitory Factor Concentrations in Maternal Serum Before Pre-Eclampsia Onset. *J Interferon Cytokine Res.* 2014; 34(7):537-42.

Ermini L, Bhattacharjee J, Spagnoletti A, Bechi N, Aldi S, Ferretti C, Bianchi L, Bini L, Rosati F, **Paulesu L**, Ietta F. Oxygen governs Gal β 1-3GalNAc epitope in human placenta. *Am J Physiol Cell Physiol.* 2013; 1;305(9):C931-40

Bechi N, Sorda G, Spagnoletti A, Bhattacharjee J, Vieira Ferro EA, de Freitas Barbosa B, Frosini M, Valoti M, Sgaragli G, **Paulesu L**, Ietta F. Toxicity assessment on trophoblast cells for some environment polluting chemicals and 17 β -estradiol. *Toxicol In Vitro* 2013; 27, 995-1000.

Jantra S, **Paulesu L** (corresponding author), Lo Valvo M, Lillo F, Ietta F, Avanzati AM, Romagnoli R, Bechi N, Brizzi R. Cytokine components and mucosal immunity in the oviduct of Xenopus laevis (Amphibia, pipidae). *General and Comparative Endocrinology* 2012; 33, 157-163.

de Oliveira Gomes A, de Oliveira Silva DA, Silva NM, de Freitas Barbosa B, Franco PS, Angeloni MB, Fermíno ML, Roque-Barreira MC, Bechi N, **Paulesu LR**, Dos Santos MC, Mineo JR, Ferro EA. Effect of Macrophage Migration Inhibitory Factor (MIF) in Human Placental Explants Infected with Toxoplasma gondii Depends on Gestational Age. *Am J Pathol.* 2011; 178 (6): 2792-801.

Pellegrini A, Bigiardi E, Bechi N, **Paulesu L** (corresponding author), Lehane MJ, Avanzati AM. Fine structure of the female reproductive system in a viviparous insect, Glossina morsitans morsitans (Diptera, Glossinidae). *Tissue Cell.* 2010; 43 (1):1-7.

Paulesu L, Bhattacharjee J, Bechi N, Romagnoli R, Jantra S, Ietta F. Pro-Inflammatory Cytokines in Animal and Human Gestation. *Curr Pharm Des.* 2010; 16 (32):3601-15. Review.

Marzoni D, Todros T, Cardaropoli S, Rolfo A, Lorenzi T, Ciarmela P, Romagnoli R, **Paulesu L**, Castellucci M. Activating protein-1 family of transcription factors in the human placenta complicated by preeclampsia with and without fetal growth restriction. *Placenta*. 2010; 31(10): 919-27.

Bhattacharjee J, Ietta F, Bechi N, Romagnoli R, **Paulesu L**. Localisation of ABCA1 in first trimester and term placental tissues--a reply. *Placenta*. 2010; 31(10):941.

Faria MR, Hoshida MS, Ferro EA, Ietta F, **Paulesu L**, Bevilacqua E. Spatiotemporal patterns of macrophage migration inhibitory factor (Mif) expression in the mouse placenta. *Reprod Biol Endocrinol*. 2010; 4;8:95.

Bhattacharjee J, Ietta F, Giacomello E, Bechi N, Romagnoli R, Fava A, **Paulesu L**. Expression and localization of ATP binding cassette transporter A1 (ABCA1) in first trimester and term human placenta. *Placenta*. 2010; 31(5):423-30.

Mørck TJ, Sorda G, Bechi N, Rasmussen BS, Nielsen JB, Ietta F, Rytting E, Mathiesen L, **Paulesu L**, Knudsen LE. Placental transport and in vitro effects of Bisphenol A. *Reprod Toxicol*. 2010; 30(1):131-7.

Bechi N, Ietta F, Romagnoli R, Jantra S, Cencini M, Galassi G, Serchi T, Corsi I, Focardi S, **Paulesu L**. Environmental levels of para-nonylphenol are able to affect cytokine secretion in human placenta. *Environ Health Perspect*. 2010; 118(3):427-31.

Ietta F, Bechi N, Romagnoli R, Bhattacharjee J, Realacci M, Di Vito M, Ferretti C, **Paulesu L**. 17{beta}-Estradiol modulates the macrophage migration inhibitory factor secretory pathway by regulating ABCA1 expression in human first-trimester placenta. *Am J Physiol Endocrinol Metab*. 2010; 298 (3):E411-8.

Paulesu L, Jantra S, Ietta F, Brizzi R, Bigliardi E. Interleukin-1 in reproductive strategies. *Evol Dev*. 2008; 10(6):778-88. Review.

Ferro EA, Mineo JR, Ietta F, Bechi N, Romagnoli R, Silva DA, Sorda G, Bevilacqua E, **Paulesu LR**. Macrophage migration inhibitory factor is up-regulated in human first-trimester placenta stimulated by soluble antigen of Toxoplasma gondii, resulting in increased monocyte adhesion on villous explants. *Am J Pathol*. 2008; 172(1):50-8.

Bremer S, Brittebo E, Dencker L, Knudsen LE, Mathisen L, Olovsson M, Pazos P, Pellizzer C, **Paulesu L**, Schaefer W, Schwarz M, Staud F, Stavreus-Evers A, Vähänkangas K. In vitro tests for detecting chemicals affecting the embryo implantation process. The report and recommendations of ECVAM workshop 62 – a strategic workshop of the EU ReProTect project. *Altern Lab Anim*. 2007; 35(4):421-39.

Todros T, Marzioni D, Lorenzi T, Piccoli E, Capparuccia L, Perugini V, Cardaropoli S, Romagnoli R, Gesuita R, Rolfo A, **Paulesu L**, Castellucci M. Evidence for a role of TGF-beta1 in the expression and regulation of alpha-SMA in fetal growth restricted placentae. *Placenta*. 2007; 28(11-12):1123-32.

Jantra S, Bigliardi E, Brizzi R, Ietta F, Bechi N, **Paulesu L**. Interleukin 1 in oviductal tissues of viviparous, oviparous, and ovuliparous species of amphibians. *Biol Reprod*. 2007; 76(6):1009-15.

Ietta F, Wu Y, Romagnoli R, Soleymanlou N, Orsini B, Zamudio S, **Paulesu L**, Caniggia I. Oxygen regulation of macrophage migration inhibitory factor in human placenta. *Am J Physiol Endocrinol Metab*. 2007; 292(1):E272-80.

Bechi N, Ietta F, Romagnoli R, Focardi S, Corsi I, Buffi C, **Paulesu L**. Estrogen-like response to p-nonylphenol in human first trimester placenta and BeWo choriocarcinoma cells. *Toxicol Sci.* 2006; 93(1):75-81.

Zicari A, Ticconi C, Ietta F, Belmonte A, Bechi N, Realacci M, Di Vito M, Arcuri F, Russo M, Piccione E, **Paulesu L**. Macrophage migration inhibitory factor-nitric oxide interaction in human fetal membranes at term pregnancy. *J Soc Gynecol Investig.* 2006; 13(4):263-70.

Paulesu L, Ietta F, Petraglia F. Feto-maternal biology and ethics of human society. *Reprod Biol Endocrinol.* 2005; 3:55.

Paulesu L, Bigliardi E, Paccagnini E, Ietta F, Cateni C, Guillaume CP, Heulin B. Cytokines in the oviparity/viviparity transition: evidence of the interleukin-1 system in a species with reproductive bimodality, the lizard Lacerta vivipara. *Evol Dev.* 2005; 7(4):282-8.

Todros T, Bontempo S, Piccoli E, Ietta F, Romagnoli R, Biolcati M, Castellucci M, **Paulesu L**. Increased levels of macrophage migration inhibitory factor (MIF) in preeclampsia. *Eur J Obstet Gynecol Reprod Biol.* 2005; 123(2):162-6.

Aloisi AM, Pari G, Ceccarelli I, Vecchi I, Ietta F, Lodi L, **Paulesu L**. Gender-related effects of chronic non-malignant pain and opioid therapy on plasma levels of macrophage migration inhibitory factor (MIF). *Pain.* 2005; 115(1-2):142-51.

Paulesu L, Romagnoli R, Bigliardi E. Materno-fetal immunotolerance: is Interleukin-1 a fundamental mediator in placental viviparity? *Dev Comp Immunol.* 2005; 29(5):409-15. Review.

Paulesu L, Cateni C, Romagnoli R, Ietta F, Dantzer V. Variation in macrophage-migration-inhibitory-factor immunoreactivity during porcine gestation. *Biol Reprod.* 2005; 72(4):949-53.