

## SCIENTIFIC, EDUCATIONAL, AND CLINICAL-CARE CURRICULUM VITAE

**Prof. Antonio La Marca**

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### Biosketch

Prof. La Marca graduated in Medicine and Surgery and subsequently completed his residency in Obstetrics and Gynecology at the University of Siena with honors. At the same University, he then completed his PhD in Germ Cell Biology. During his training years, he spent a period of study at Tel Aviv University. He is a Professor at the University of Modena and Reggio Emilia and carries out clinical-care activities at the Obstetrics and Gynecology Clinic of the University Hospital of Modena.

He is the Director of the Residency School in Obstetrics and Gynecology at the University of Modena and Reggio Emilia. Since November 2023, he has been the Director of the Obstetrics and Gynecology Clinic at the University Hospital of Modena.

From 1998, the year of his first journal publication, to July 2024, Prof. La Marca authored more than 323 articles in indexed journals (Scopus), serving as first author in a significant share of them (35%). His H-index is 61. To date, his works have been cited approximately 15,000 times, thus demonstrating a substantial impact on the scientific community.

His teaching appointments extend beyond his home university, as Prof. La Marca lectures for Master's programs at the Universities of Florence, Urbino, Padua, and Barcelona. He has also served as a PhD Dissertation Opponent for the Universities of Gothenburg and Copenhagen.

Dr. La Marca's research interests have focused on the pathophysiology of the hypothalamus-pituitary-ovarian endocrine axis, germ cell biology, and ovarian aging. A major scientific impact was achieved through his research on antral ovarian follicles, ovarian reserve—a term used to define the remaining follicular pool in women's ovaries—and the underlying mechanisms of ovarian aging. His published works on ovarian reserve, and particularly on the Anti-Müllerian Hormone (AMH) produced by granulosa cells, are currently considered the benchmarks for researchers dedicated to this specific field. Research on ovarian reserve has also had a significant clinical impact, as demonstrated by the introduction of AMH measurement into routine clinical practice at the University Hospital of Modena as early as 2007, several years before the worldwide spread of the method. Currently, Prof. La Marca holds six national or international patent applications.

In the field of Obstetrics, his publications have primarily addressed the complex interaction between thyroid function, immunological indices, and miscarriage. His studies investigated maternal thyroid physiology during the first trimester of pregnancy and demonstrated that inflammatory status may be linked to the prognosis of threatened miscarriage.

His publications in the field of Gynecology are equally significant. Both *in vitro* and *in vivo* studies have helped elucidate new pathophysiological mechanisms underlying the pathogenesis of fibroids. Finally, noteworthy research has been conducted on surgical solutions for rare cases of vaginal or cervical atresia, along with valuable studies concerning ovarian pathology—ranging from evaluating the performance of diagnostic algorithms for predicting ovarian cancer risk to analyzing the outcomes of ovarian surgery or ovarian suspension following laparoscopy.

Prof. La Marca is involved as Principal Investigator (PI) in ministerial research programs awarded on a competitive basis and serves as PI for numerous Investigator-Initiated Studies (IISs). He participates or has participated in numerous national and international multicenter research projects, collaborating

with at least thirty different research groups. He has been invited to serve on international committees for evaluating research projects in European countries and for the academic advancement of university professors. Furthermore, he has been a member of the technical committee on human fertility at the Ministry of Health. His scientific expertise in this specific field is recognized by the international community, resulting in frequent invitations to advisory boards, meetings, and editorial activities.

Prof. La Marca is a member of the editorial board of the following journals: *Human Reproduction*, *Reproductive BioMedicine Online*, *Frontiers in Endocrinology*, and *Gynecological Endocrinology*. He also serves as the Editor-in-Chief of the journal *Minerva Obstetrics and Gynecology*.

Prof. La Marca actively fosters relations with the media to fulfill the University's "Third Mission." Over the years, this scientific outreach has led to hundreds of articles in local, national, and international newspapers, including prestigious outlets such as *The Independent*, *The Daily Mail*, *New Scientist*, *The Guardian*, *The Telegraph*, and *The Times*.

#### The latest published articles

"Extended ovarian stimulation": a prolonged ovarian exposure to gonadotrophins leads to an increase in the oocyte yield-evidence from the DuoStim experience.

La Marca A, Capuzzo M.J Assist Reprod Genet. 2026 Jun 10. doi: 10.1007/s10815-026-03922-1. Online ahead of print.PMID: 42271108 Review.

Concerns regarding the WHO guideline on infertility: implications for contemporary reproductive medicine.

La Marca A, Longo M.Hum Reprod. 2026 Jun 1;41(6):1008-1009. doi: 10.1093/humrep/deag062.PMID: 42049204

Blastocyst implantation assay: towards the development of a new in vitro model for studying woman-specific blastocyst implantation.

De Carlini S, Liuzzi F, Selmi C, La Marca A.Minerva Obstet Gynecol. 2026 Jun;78(3):225-232. doi: 10.23736/S2724-606X.26.05823-9. Epub 2026 Feb 25.PMID: 41736517

Hemodynamic-guided antihypertensive therapy reduces low-birth-weight incidence.

Lecis S, Guariglia G, Pedrini V, Bugiolacchi J, Melis B, Lisotti L, Ramovecchi L, Tramontano AL, Neri I, Cuoghi Costantini R, Facchinetti F, La Marca A, Monari F.Minerva Obstet Gynecol. 2026 Jun;78(3):198-204. doi: 10.23736/S2724-606X.26.05860-4. Epub 2026 Feb 10.PMID: 41665884

Impaired glucose tolerance in women with BRCA1 versus BRCA2 pathogenic or likely pathogenic variants: Results from a prospective cohort study.

Grandi G, Piombino C, Sighinolfi G, Barbieri E, Venturelli M, Melotti C, Lippi Bruni R, Grisendi V, Cuoghi Costantini R, Grippa M, Zattarin E, Tenedini E, Razzaboni E, Brigante G, D'Amico R, Nanni B, Menozzi R, Cortesi L, Dominici M, La Marca A, Toss A. *Fam Cancer*. 2026 May 14;25(2):55. doi: 10.1007/s10689-026-00570-3. PMID: 42132994

Association between risk-reducing salpingo-oophorectomy and bone health in women with hereditary breast and ovarian cancer syndrome.

De Vincentis S, Brigante G, Cuoghi Costantini R, Piombino C, Lippi Bruni R, Venturelli M, Barbieri E, Zattarin E, Tenedini E, Grippa M, Sighinolfi G, Caggia F, Fabbri PV, La Marca A, Cortesi L, Dominici M, Grandi G, Toss A. *Menopause*. 2026 May 12. doi: 10.1097/GME.0000000000002788. Online ahead of print. PMID: 42118531

Changing the narrative for poor-prognosis patients in IVF: unlocking success through a multicycle approach.

Vaiarelli A, Alviggi C, Garcia Velasco JA, Horton M, Humaidan P, La Marca A, Taggi M, Cimadomo D, Rienzi L, Ubaldi FM. *Reprod Biomed Online*. 2026 May;52(5):105465. doi: 10.1016/j.rbmo.2026.105465. Epub 2026 Jan 16. PMID: 41855603

Stillbirth in pregnancies with flat OGTT: Placental clues to occult maternal dysmetabolism.

Bertucci E, Danieli A, Ricciardiello F, Neri I, Monari F, Genazzani AD, Bulfamante G, La Marca A, Botticelli L, Facchinetti F, Avagliano L. *Int J Gynaecol Obstet*. 2026 May;173(2):1133-1138. doi: 10.1002/ijgo.70683. Epub 2025 Nov 21. PMID: 41268944 **Free PMC article**. No abstract available.

Perimenopausal hot flashes do not depend on crude circulating oestradiol levels: further evidences from women treated with oral GnRH antagonists combination therapy for symptomatic fibroids.

Grandi G, Barretta M, Iaccheri M, Versailles JBE, La Marca A. *Eur J Contracept Reprod Health Care*. 2026 Apr 17:1-5. doi: 10.1080/13625187.2026.2659158. Online ahead of print. PMID: 41993011

Conservative surgical management of unexpected focal placenta accreta using an ultrasonic device: a case series.

Bertucci E, Del Villano N, Benuzzi M, Selleri C, Imbrogno MG, La Marca A, Alboni C. *J Gynecol Obstet Hum Reprod*. 2026 Apr 16;55(7):103192. doi: 10.1016/j.jogoh.2026.103192. Online ahead of print. PMID: 41999884 **Free article**.

ESHRE guideline: ovarian stimulation for IVF/ICSI: an update in 2025†.

ESHRE Guideline Group on Ovarian Stimulation; Ata B, Bosch E, Broer S, Griesinger G, Grynberg M, Kolibianakis E, Kunicki M, La Marca A, Lainas G, Le Clef N, Massin N, Polyzos NP, Sunkara SK, Timeva T, Töyli M, Urbancsek J, Broekmans F. Hum Reprod. 2026 Apr 1;41(4):498-514. doi: 10.1093/humrep/deag018. PMID: 41732035 **Free PMC article.**

Timing of endometrial biopsy for chronic endometritis diagnosis: CD138<sup>+</sup> and CD56<sup>+</sup> cell variability throughout the menstrual cycle.

Selmi C, Lazzarin S, Monari F, Giulini S, Tarozzi G, Lecis S, Neri I, Botticelli L, Cuoghi Costantini R, Longo M, Campitiello MR, La Marca A. Eur J Contracept Reprod Health Care. 2026 Apr;31(2):149-157. doi: 10.1080/13625187.2025.2600576. Epub 2026 Jan 9. PMID: 41510890

Is the uterus from the "Normal UteRus asSEssment study" truly normal?

Battipaglia C, La Marca A. Fertil Steril. 2026 Apr;125(4):728-729. doi: 10.1016/j.fertnstert.2025.10.039. Epub 2025 Nov 10. PMID: 41224167 No abstract available.

Perinatal Outcomes in Pregnancies Immediately following Stillbirth: A Multicenter, Prospective, Observational Study.

Benuzzi M, Cuoghi Costantini R, Saddò A, Selleri C, Verra S, Melis B, Guariglia G, Avagliano L, Serena C, Mecacci F, Baggio B, Gabbrielli B, Fieni S, Kiener AJO, Pavan C, Salluce M, Cozzolino S, Locatelli A, Alongi S, Camponovo P, Lazzarin S, Neri I, Facchinetti F, La Marca A, Monari F. Am J Perinatol. 2026 Apr;43(5):587-594. doi: 10.1055/a-2661-4287. Epub 2025 Jul 22. PMID: 40695492

Ultrasound signs of adenomyosis in pregnancy and counselling related to infertility and obstetric outcomes.

Bertucci E, Ceffa S, Danieli A, Diamanti M, Sileo FG, Tramontano AL, Alboni C, La Marca A. Minerva Obstet Gynecol. 2026 Mar 20. doi: 10.23736/S2724-606X.25.05857-9. Online ahead of print. PMID: 41858207

The #Enzian Classification as a Predictor of Hormonal Therapy Response in Endometriosis-Associated Pain: A Retrospective Cohort Study in a Referral Center.

Gambigliani Zoccoli S, La Marca A, Di Gianvito M, Cuoghi Costantini R, Morini M, Bertucci E, Alboni C. Gynecol Obstet Invest. 2026 Mar 11:1-7. doi: 10.1159/000550102. Online ahead of print. PMID: 41811998

Relation between epidural analgesia and perinatal outcomes on Robson class 2a.

Lecis S, Bonfiglioli G, Cannistrà F, Verra S, Lisotti L, Ramovecchi L, Saddò A, Chiossi G, Cuoghi Costantini R, D'Amico R, Lazzarin S, Facchinetti F, Neri I, Donno L, Girardis M, La Marca A, Monari F. AJOG Glob Rep. 2025 Aug 6;6(1):100554. doi: 10.1016/j.xagr.2025.100554. eCollection 2026 Feb. PMID: 41674791

A unique case of prenatal diagnosis of vascular Ehlers-Danlos syndrome.

Bertucci E, Ceffa S, Giovanna S, Gnazzo M, Novelli A, La Marca A. *Int J Gynaecol Obstet*. 2026 Feb;172(2):1258-1260. doi: 10.1002/ijgo.70431. Epub 2025 Aug 7. PMID: 40879620

Is it possible to detect women at higher risk of intrapartum stillbirth? An area-based prospective cohort study.

Guariglia G, Salerno C, Melis B, Benuzzi M, Menichini D, Perrone E, Facchinetti F, La Marca A, Neri I, Monari F. *Minerva Obstet Gynecol*. 2026 Feb;78(1):4-11. doi: 10.23736/S2724-606X.24.05580-5. Epub 2024 Oct 8. PMID: 39377291