

Claudia Massarotti, MD



Born 30-Dec-1988, Pavia, Italy
Residence: Genova, Italy

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Education

2014-2019: Specialist in Gynecology and Obstetrics, magna cum laude. University of Genoa, Italy

2014, February: Registration to the Italian Medical Board

2007-2013: Medical school, magna cum laude. University of Pavia, Italy

Science communicator

2019: ESHRE young ambassador

2020-2024: Founder and lead of the ESHRE Journal Club (#ESHREjc) project. Publication of monthly peer-reviewed reports of the discussions on Human Reproduction, in a dedicated section called "Peer perspectives".

Skills: group leadership, social media, writing for science dissemination

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Current position

- **Reproductive Medicine Physician**, IRCCS Ospedale Policlinico San Martino, Genova, Italy (2020-ongoing)
- **Assistant Professor** and Clinical Researcher University of Genova, Genova, Italy (2020- ongoing). National scientific qualification as **associate professor** (ASN 2024)
- **Senior Deputy** of the ESHRE SIG Fertility Preservation

Clinical experience and skills

- **Specific expertise in Reproductive Medicine:** proficiency in evaluation and counselling of the infertile couple, including ART treatments when indicated
- **Fertility preservation counselling for both females and males,** and application of fertility preservation treatments, when indicated
- **Fertility and pregnancy in patients with chronic diseases,** with a specific focus on Multiple Sclerosis patients
- **Iatrogenic menopause management,** including hormone replacement therapies, when appropriate. Since 2021, responsible of the "Iatrogenic Menopause Outpatient Clinic" in Genova
- **General Obstetrics,** from pre-conceptual counselling to labour and delivery, and Obstetrics and Gynecology continuity shifts

Research activity

- **Research topics:** long term models of care for fertility preservation, reproductive and gynecological follow up after gonadotoxic therapies, reproductive issues in patients with chronic diseases.
- **Publications:** 93 indexed peer-reviewed publications
- **SCOPUS H-index:** 18, n. of citations 1171
- Statistics: SPSS (proficient), R (beginner-intermediate)
- Authors of invited oral presentations and selected communications at national and international events
- Associate editor of Reproduction and Fertility (RAF) and ad-hoc peer reviewer for numerous indexed journals

Teaching activity

- Assistant professor with teaching responsibility at the University of Genova (Medical School, Midwifery School, Nursing school)
- Mentorship activity and clinical tutoring. Research tutoring for medical and midwifery students and ObGyn residents

Public affairs

- Collaboration with the Italian Health Ministry on the theme of fertility preservation (project PreferIta, 2024-ongoing)
- Student representative in the Academic Senate and Faculty Council, University of Pavia (2011-2013)
- Part of the medical education and internationalization team, University of Pavia (2010-2013)

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Research groups and clinical trials (updated April 2025):

- Organizing member of the European network “European Ovary Workshop (EOW)” as part of OVAREN (2024-ongoing)
- Principal Investigator for the funded project “ENDO-BRAIN: cognitive function during ovarian suppression with aromatase inhibitors for breast cancer”, in collaboration with neurologists and ophthalmologists of the University of Genova (2024-ongoing)
- Member of the PreferITA Group, with the goal of uniforming the informed consents for fertility preservation techniques in Italy (2023-ongoing)
- Co-investigator of the project “Gonadotoxicity of targeted therapies in young breast cancer patients and impact of carrying a germline BRCA mutation”, MyFirstAIRC grant 2020, ID 24698 (PI Prof. Matteo Lambertini) 2021 – ongoing
- Co-investigator. San Martino Hospital Current research: “Beyond fertility preservation: gynecological and reproductive follow up after gonadotoxic therapies” (PI Dr. Paola Anserini) 2018 - 2021
- Co-investigator. San Martino Hospital Current research: “Reproductive issues in patients with Multiple Sclerosis: disease modifying therapies and ovarian and testicular function parameters; time to pregnancy in couples with one parted affected by the disease” (PI dr Paola Anserini) 2018 - 2021
- Team member of “The PREgnancy and FERtility (PREFER) study”, an Italian multicenter prospective cohort study on fertility preservation and pregnancy issues in young breast cancer patients (coordinated by San Martino Hospital). 2013 - ongoing
- Member of COSTaction IS 1405 B.I.R.T.H. Winner of a Short-Term Scientific Mission grant (6-12 Nov 2017) at Karolinska University, Stockholm, Sweden. 2017
- Clinical trial SHUMANN (sponsored by Bayer). Co-investigator for the Genova site (PI prof. A. Cagnacci). 2021
- Clinical trial AKREND0 (sponsored by Bayer). Co-investigator for the Genova site (PI prof. V. Remorgida). 2018-2019
- Clinical trial Liberty 1 (sponsored by Myovant Sciences GmbH). Co-investigator and study coordinator for the Genova site (PI prof. V. Remorgida). 2018
- Student member of the European project Medine2 (<http://medine2.com/>). 2012

List of PEER-REVIEWED INDEXED PUBLICATIONS (updated on 20 April 2025)

Asinaro G, Massarotti C, Musante V, Fiamberti M, Marchese B, Lambertini M, Del Mastro L, Londero AP, Cagnacci A. Vaginal oxygen plus hyaluronic acid on lower urinary tract symptoms in breast cancer survivors. *Climacteric*. 2025 Apr;28(2):169-174. doi: 10.1080/13697137.2025.2455182. Epub 2025 Feb 4. PMID: 39903582.

Carosso AR, Conforti A, Cimadomo D, Spadoni V, Zacà C, Massarotti C, Vaiarelli A, Venturella R, Vitagliano A, Busnelli A, Cozzolino M, Borini A; Italian Society of Fertility, Sterility, Reproductive Medicine (SIFES-MR). The relevance of female overweight in infertility treatment: a position statement of the Italian Society of Fertility and Sterility and Reproductive Medicine (SIFES-MR). *J Assist Reprod Genet*. 2025 Feb 4. doi: 10.1007/s10815-024-03379-0. Epub ahead of print. PMID: 39903407.

Serdarogullari M, Ammar OF, Mincheva M, Massarotti C, Ali ZE, Makieva S, Uraji J, Fraire-Zamora JJ, Sharma K, Sfontouris I, Macklon N, Verpoest W, Perrotta M, Liperis G. Add-ons in medically assisted reproduction: from evidence to clinical practice. *Hum Reprod*. 2025 Feb 1;40(2):398-404. doi: 10.1093/humrep/deae287. PMID: 39729574.

Asinaro G, Stigliani S, Chiappe E, Lambertini M, Massarotti C. Contraception Use in Cancer Survivors, Clinical Practice and Patients' Preferences. *Open Access J Contracept*. 2024 Dec 11;15:135-143. doi: 10.2147/OAJC.S431366. PMID: 39678079; PMCID: PMC11646390.

Stigliani S, Ravera S, Maccarini E, Rizzo C, Massarotti C, Anserini P, Bozzo M, Amaroli A, Scaruffi P. The power of 810 nm near-infrared photobiomodulation therapy for human asthenozoospermia. *Sci Rep*. 2024 Nov 5;14(1):26819. doi: 10.1038/s41598-024-77823-7. PMID: 39501019; PMCID: PMC11538380.

Asinaro G, Massarotti C, Xholli A, Londero AP, Lambertini M, Anserini P, Del Mastro L, Cagnacci A. Menopausal symptoms in breast cancer survivors on adjuvant endocrine therapy compared with those of menopausal women. *Maturitas*. 2025

Jan;191:108143. doi: 10.1016/j.maturitas.2024.108143. Epub 2024 Oct 30. PMID: 39500126.

Turan V, Bedoschi G, Lee DY, Barbosa CP, de Oliveira R, Sacinti KG, Sonmezer M, Lambertini M, Massarotti C, Schaub A, Wang E, Gayete-Lafuente S, Dunlop C, Anderson RA, Bang H, Oktay KH. Trends and Regional Differences for Fertility Preservation Procedures in Women With Breast Cancer. *Clin Breast Cancer*. 2025 Feb;25(2):108-116.e1. doi: 10.1016/j.clbc.2024.09.011. Epub 2024 Sep 23. PMID: 39428290; PMCID: PMC11877997.

Ali ZE, Massarotti C, Liperis G, Mincheva M, Ammar OF, Uraji J, La Marca A, Mathur R, O'Neill HC, Moura-Ramos M, Fraire-Zamora JJ. Role, benefits, and risks of AMH testing for non-ART related indications. *Hum Reprod*. 2024 Dec 1;39(12):2873-2877. doi: 10.1093/humrep/deae234. PMID: 39361869.

Stigliani S, Amaro A, Reggiani F, Maccarini E, Massarotti C, Lambertini M, Anserini P, Scaruffi P. The storage time of cryopreserved human spermatozoa does not affect pathways involved in fertility. *Basic Clin Androl*. 2024 Sep 17;34(1):15. doi: 10.1186/s12610-024-00231-4. PMID: 39285325; PMCID: PMC11406918.

Makieva S, Fraire-Zamora JJ, Ammar OF, Liperis G, Sanchez F, Kramme CC, Vuong LN, Gilchrist RB, Bortoletto P, Massarotti C. Road to in vitro maturation (IVM), from basic science to an informed clinical practice. *Hum Reprod*. 2024 Nov 1;39(11):2638-2643. doi: 10.1093/humrep/deae182. PMID: 39111779.

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Massarotti C, Cimadomo D, Spadoni V, Conforti A, Zacà C, Carosso AR, Vaiarelli A, Venturella R, Vitagliano A, Busnelli A, Cozzolino M, Borini A. Female fertility preservation for family planning: a position statement of the

Italian Society of Fertility and Sterility and Reproductive Medicine (SIFES-MR).

J Assist Reprod Genet. 2024 Sep;41(9):2521-2535. doi:

10.1007/s10815-024-03197-4. Epub 2024 Jul 20. PMID: 39030346; PMCID:

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Reprod. 2024 Jul 1;39(7):1582-1586. doi: 10.1093/humrep/deae082. PMID: 38670545.

Stigliani S, Amaro A, Reggiani F, Maccarini E, Massarotti C, Lambertini M, Anserini P, Scaruffi P. A Pilot Analysis of Whole Transcriptome of Human Cryopreserved Sperm. *Int J Mol Sci*. 2024 Apr 8;25(7):4131. doi:

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Massarotti C, Ammar OF, Liperis G, Mincheva M, Fraire-Zamora JJ, Sharma K, Rosario R, Winship AL, Lambertini M, Makieva S. Chemoprotection of the ovary: a leading role or a complementary strategy in fertility preservation? *Hum Reprod*.

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to treatment. *Hum Reprod*. 2024 May 2;39(5):1155-1159. doi:

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Hang H, Pistilli B, Fasse L, Tredan O, Gillanders E, Joly F, Cottu P, Mouret-Reynier MA, Tarpin C, Arnaud A, Everhard S, Martin AL, Di Meglio A, Vaz-Luis I. Investigating sexual health after breast cancer by longitudinal assessment of patient-reported outcomes. *ESMO Open*. 2024 Feb;9(2):102236. doi: 10.1016/j.esmoop.2024.102236. Epub 2024 Feb 12. PMID: 38350335; PMCID: PMC10937197.

Gazzo I, Bovis F, Colia D, Sozzi F, Costa M, Anserini P, Massarotti C. Algorithm vs. clinical experience: controlled ovarian stimulations with follitropin-delta and individualised doses of follitropin-alpha/beta. *Reprod Fertil*. 2024 Feb 1;5(1):e230045. doi: 10.1530/RAF-23-0045. Epub ahead of print. PMID: 38330591; PMCID: PMC10959055.

Massarotti C, Stigliani S, Gazzo I, Lambertini M, Anserini P. Re: Safety and efficacy concerns of long-acting GnRH agonist trigger for ovulation induction in oncological patients undergoing oocyte cryopreservation: a call for caution and further investigation. *ESMO Open*. 2023 Oct;8(5):101826. doi: 10.1016/j.esmoop.2023.101826. Epub 2023 Sep 16. PMID: 37717388; PMCID: PMC10514091.

Massarotti C, Makieva S, Stigliani S. Editorial: Challenges in fertilization and implantation success. *Front Cell Dev Biol*. 2023 Aug 30;11:1268635. doi: 10.3389/fcell.2023.1268635. PMID: 37711856; PMCID: PMC10499378.

Stigliani S, Massarotti C, Coco S, Mantica G, Piol N, Spina B, Maccarini E, Colombo M, Anserini P, Scaruffi P. Does SARS-CoV-2 Affect the Prostate? A Molecular Analysis from a Case Series of COVID-19 Patients. *World J Mens Health*. 2023 Oct;41(4):969-973. doi: 10.5534/wjmh.220272. Epub 2023 Jul 18. PMID: 37635334; PMCID: PMC10523117.

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Mincheva M, Fraire-Zamora JJ, Liperis G, Ammar OF, Duffin K, Kanbar M, Mitchell RT, Moura-Ramos M, Massarotti C. Going back to the start: do cancer and haematological disorders affect germ cells in prepubertal boys? *Hum Reprod*. 2023 Sep 5;38(9):1856-1860. doi: 10.1093/humrep/dead128. PMID: 37328443.

Scaruffi P, Bovis F, Massarotti C, Maccarini E, Stigliani S, DE Leo C, Gazzo I, Sozzi F, Anserini P. Collecting semen samples at home for fertility assessment: time for a new standard? *Minerva Obstet Gynecol*. 2023 Dec;75(6):535-543. doi: 10.23736/S2724-606X.23.05165-5. Epub 2023 May 4. PMID: 37140587.

Ali Z, Fraire-Zamora JJ, Serdarogullari M, Massarotti C, Busby M, Uraji J. Mother's PCOS: a blueprint for children's health? *Hum Reprod*. 2023 Jul 5;38(7):1426-1428. doi: 10.1093/humrep/dead078. PMID: 37087106.

Fraire-Zamora JJ, Sharma K, Ammar OF, Massarotti C, Ali ZE, Telfer EE, Williams S, Ata B, Liperis G. Mind the gap: deciphering the role of anti-Müllerian hormone in follicular development-from animal studies toward clinical application. *Hum Reprod*. 2023 Jun 1;38(6):1231-1234. doi: 10.1093/humrep/dead075. PMID: 37075310.

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