

Ermanno Greco

PERSONAL INFORMATION

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| name and surname | Ermanno Greco |
| e-mail address | ergreco1@virgilio.it |
| date of birth | 25/10/1956 |

EDUCATION AND TRAINING

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| 1982 | degree in Medicine, Sapienza University ,Rome |
| 2014 | National Scientific Qualification of Associate Professor in Obstetrics and Gynecology |
| | National Scientific Qualification of Associate Professor in Endocrinology |
| 2019 | National Scientific Qualification of Full Professor in Obstetrics and Gynecology |

POSITION AND WORK EXPERIENCE

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| HELD POSITION | Scientific Director of the Center of Reproductive Medicine, European Hospital |
| 01/10/1996-16/10/2016 | Director of the Center of Reproductive Medicine, European Hospital in Rome. |

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| 2006-2007 | Duties of Professor on contract, technical and practical course of "medically assisted procreation" at the postgraduate school in Endocrinology, metabolic diseases, specializing in andrology, University of Pisa. |
| 2000-2005 | Duties of Professor on contract, technical and practical course of "neuroendocrinology" at the postgraduate school in Endocrinology, metabolic diseases, specializing in Andrology, University of Pisa. |
| 01/10/1991-03/10/1994 | Technical Executive (VII level) University of Rome Tor Vergata - Chair of Endocrinology, Dir. R. Lauro. |
| 28/08/1986-01/10/1991 | Technical Executive (VII level) Sapienza University of Rome - Chair of Andrology. |
| 1988-1990 | Professor on contract, supplementary course of "Andrologic Diagnostics Techniques" at the postgraduate school in Obstetrics and Gynecology, II University of Rome. |
| 1987-1990 | Scientific activity, certified by the Head of the Andrology Department, at the center of marital infertility of the Obstetrics and Gynecology Clinic, II University of Rome. |
| 1986-1989 | Teaching and research activity, certified by the head of the Department Prof. C. Casciani, at the Chair of Obstetrics and Gynecology II University of Rome. Teaching and research activity, certified by the Head of the Department, Prof. C. De Marco, at the chair of Andrology, Sapienza University. |
| 1987-1988 | Professor on contract, supplementary course of "physiopathology of the reproduction" at the postgraduate school in Obstetrics and Gynecology, II University of Rome. |
| 1988 | Winner of the CNR strategic plan "molecular mechanisms of the biological reproductive process, objective promotion and protection of health". |
| 1986-1987 | Member of court for the technical officer contest at the Andrology Chair, School of Medicine and Surgery, La Sapienza University of Rome |
| 1986 | Nominated Technical Executive, VIII position, functional, technical scientific and social care. |
| 1983-1986 | Foreign scientific and research activity, certified by the Italian Consulate, at the Impotence Studies and Research Centre(CERI) in Paris. |
| 1985 | Winner of the public contest for titles and exams to 1 technician graduate position (VII functional qualification) at the Institute of V 1988 Winner of the CNR strategic plan "molecular mechanisms of the biological reproductive process, objective promotion and protection of health". |
| 07/05/1985-28/08/1986 | Technical Graduate Sapienza University of Rome - Chair of Andrology |

Teaching Activity as tutor for the Ph.D. in neuropsychoneuroendocrinology for the reproduction and sexuality, Tor Vergata University, XXI course, bringing dr. Alessandro Colasante to the graduation thesis.

Teaching Activity as tutor for the Ph.D. in neuropsychoneuroendocrinology for the reproduction and sexuality, Tor Vergata University, XVIII course, bringing dr. Elisa Vellani to the graduation thesis.

Teaching Activity as tutor for the Ph.D. in molecular and cellular biotechnology, University of Teramo, Department of biotechnology, bringing dr. Mario Terribile to the graduation thesis, academic year 2009/2010.

SCIENTIFIC PUBLICATION

143 Scientific publications ; 5020 Citations ; h-Index 42

Scarselli F, Cursio E, Muzzi S, Casciani V, Ruberti A, Gatti S, Greco P, Varricchio MT, Minasi MG, Greco E. How 1 h of abstinence improves sperm quality and increases embryo euploidy rate after PGT-A: a study on 106 sibling biopsied blastocysts. J Assist Reprod Genet. 2019 Jul 19

Mantovani G, Isidori AM, Moretti C, Di Dato C, Greco E, Ciolli P, Bonomi M, Petrone L, Fumarola A, Campagna G, Vannucchi G, Di Sante S, Pozza C, Faggiano A, Lenzi A, Giannetta E. Selenium supplementation in the management of thyroid autoimmunity during pregnancy: results of the "SERENA study", a randomized, double-blind, placebo-controlled trial. Endocrine. 2019 May 25.

Greco E, Greco A, Minasi Reassuring data concerning follow-up data of children born after preimplantation genetic diagnosis. Fertil Steril. 2019 Jun;111(6):1111-1112

Colasante A, Minasi MG, Scarselli F, Casciani V, Zazzaro V, Ruberti A, Greco P, Varricchio MT, Greco E. The aging male: Relationship between male age, sperm quality and sperm DNA damage in an unselected population of 3124 men attending the fertility centre for the first time.

Arch Ital Urol Androl. 2019 Jan 18;90(4):254-259

Gnessi L, Scarselli F, Minasi MG, Mariani S, Lubrano C, Basciani S, Greco PF, Watanabe M, Franco G, Farcomeni A, Greco E. Testicular histopathology, semen analysis and FSH, predictive value of sperm retrieval: supportive counseling in case of reoperation after testicular sperm extraction (TESE). BMC Urol. 2018 Jul 4;18(1):63

Scarselli F, Casciani V, Cursio E, Muzzi S, Colasante A, Gatti S, Greco MC, Greco P, Minasi MG, Greco E. Influence of human sperm origin, testicular or ejaculated, on embryo morphokinetic development Andrologia. 2018 Oct;50(8):e13061.

- Spinella F, Fiorentino F, Biricik A, Bono S, Ruberti A, Cotroneo E, Baldi M, Cursio E, Minasi MG, Greco E. Extent of chromosomal mosaicism influences the clinical outcome of in vitro fertilization treatments. *Fertil Steril*. 2017;28.
- Litwicka K, Mencacci C, Arrivi C, Varricchio MT, Caragia A, Minasi MG, Greco E. HCG administration after endogenous LH rise negatively influences pregnancy rate in modified natural cycle for frozen-thawed euploid blastocyst transfer: a pilot study. *J Assist Reprod Genet*. 2017;17.
- La Marca A, Minasi MG, Sighinolfi G, Greco P, Argento C, Grisendi V, Fiorentino F, Greco E. Female age, serum antimüllerian hormone level, and number of oocytes affect the rate and number of euploid blastocysts in in vitro fertilization/intracytoplasmic sperm injection cycles. *Fertil Steril*. 2017;108(5):777-783.e2.
- Minasi MG, Fiorentino F, Ruberti A, Biricik A, Cursio E, Cotroneo E, Varricchio MT, Surdo M, Spinella F, Greco E. Genetic diseases and aneuploidies can be detected with a single blastocyst biopsy: a successful clinical approach. *Hum Reprod*. 2017;32(8):1770-1777.
- Rienzi L, Bariani F, Dalla Zorza M, Albani E, Benini F, Chamayou S, Minasi MG, Parmegiani L, Restelli L, Vizziello G, Costa AN; Collaborators: Morreale G, Dusini S, Ragolia C, Greco E, Maccarini AM, Reschini M, Savoia MV. Italian Society of Embryology, Reproduction and Research (SIERR), Italy. Comprehensive protocol of traceability during IVF: the result of a multicentre failure mode and effect analysis. *Hum Reprod*. 2017;32(8):1612-1620.
- Scarselli F, Lobascio AM, Terribile M, Casciani V, Greco P, Franco G, Minasi MG, Greco E. Analysis of MYO-Inositol effect on spermatozoa motility, in hyper viscous ejaculates and in patients with grades II and III varicocele. *Arch Ital Urol Androl*. 2016;30;88(4):279-283.
- Minasi MG, Colasante A, Riccio T, Ruberti A, Casciani V, Scarselli F, Spinella F, Fiorentino F, Varricchio MT, Greco E. Correlation between aneuploidy, standard morphology evaluation and morphokinetic development in 1730 biopsied blastocysts: a consecutive case series study. *Hum Reprod*. 2016;31(10):2245-54.
- Greco E, Litwicka K, Arrivi C, Varricchio MT, Caragia A, Greco A, Minasi MG, Fiorentino F. The endometrial preparation for frozen-thawed euploid blastocyst transfer: a prospective randomized trial comparing clinical results from natural modified cycle and exogenous hormone stimulation with GnRH agonist. *J Assist Reprod Genet*. 2016;33(7):873-84.
- Franco G, Scarselli F, Casciani V, De Nunzio C, Dente D, Leonardo C, Greco PF, Greco A, Minasi MG, Greco E. A novel stepwise micro-TESE approach in non obstructive azoospermia. *BMC Urol*. 2016;12;16(1):20.
- Greco E, Minasi MG, Fiorentino F. Healthy Babies after Intrauterine Transfer of Mosaic Aneuploid Blastocysts. *N Engl J Med*. 2015 Nov 19;373(21):2089-90. doi:10.1056/NEJMc1500421. PubMed PMID: 26581010.
- Bono S, Biricik A, Spizzichino L, Nuccitelli A, Minasi MG, Greco E, Spinella F, Fiorentino F. Validation of a semiconductor next-generation sequencing-based protocol for preimplantation genetic diagnosis of reciprocal translocations. *Prenat Diagn*. 2015 Oct;35(10):938-44. doi: 10.1002/pd.4665. Epub 2015 Sep 7. PubMed PMID: 26243475.
- Fiorentino F, Bono S, Biricik A, Nuccitelli A, Cotroneo E, Cottone G, Kokocinski F, Michel CE, Minasi MG, Greco E. Reply: Which blastocysts should be considered for genetic screening? *Hum Reprod*. 2015 Jul;30(7):1744-5. doi:10.1093/humrep/dev106. Epub 2015 May 13. PubMed PMID: 25976660.
- Greco E, Biricik A, Cotarello RP, Iammarone E, Rubino P, Tesarik J, Fiorentino F, Minasi MG. Successful implantation and live birth of a healthy boy after triple biopsy and double vitrification of oocyte-embryo-blastocyst. *Springerplus*. 2015 Jan 14;4:22. doi: 10.1186/s40064-015-0788-y. eCollection 2015. PubMed PMID:25625041; PubMed Central PMCID: PMC4300308.
- Lobascio AM, De Felici M, Anibaldi M, Greco P, Minasi MG, Greco E. Involvement of seminal leukocytes, reactive oxygen species, and sperm mitochondrial membrane potential in the DNA damage of the human

spermatozoa. *Andrology*. 2015 Mar;3(2):265-70. doi: 10.1111/andr.302. Epub 2015 Jan 19. PubMed PMID: 25598385.

Minasi MG, Fabozzi G, Casciani V, Lobascio AM, Colasante A, Scarselli F, Greco E. Improved blastocyst formation with reduced culture volume: comparison of three different culture conditions on 1128 sibling human zygotes. *J Assist Reprod Genet*. 2015 Feb;32(2):215-20. doi: 10.1007/s10815-014-0399-5. Epub 2014 Dec 10. PubMed PMID: 25491125; PubMed Central PMCID: PMC4354175.

Litwicka K, Arrivi C, Varricchio MT, Mencacci C, Greco E. In women with thyroid autoimmunity, does low-dose prednisolone administration, compared with adjuvant therapy, improve in vitro fertilization clinical results? *J Obstet Gynaecol Res*. 2015 May;41(5):722-8. doi: 10.1111/jog.12615. Epub 2014 Nov 25. PubMed PMID: 25420923.

Fiorentino F, Bono S, Biricik A, Nuccitelli A, Cotroneo E, Cottone G, Kokocinski F, Michel CE, Minasi MG, Greco E. Application of next-generation sequencing technology for comprehensive aneuploidy screening of blastocysts in clinical preimplantation genetic screening cycles. *Hum Reprod*. 2014 Dec;29(12):2802-13. doi: 10.1093/humrep/deu277. Epub 2014 Oct 21. PubMed PMID: 25336713.

Greco E, Bono S, Ruberti A, Lobascio AM, Greco P, Biricik A, Spizzichino L, Greco A, Tesarik J, Minasi MG, Fiorentino F. Comparative genomic hybridization selection of blastocysts for repeated implantation failure treatment: a pilot study. *Biomed Res Int*. 2014;2014:457913. doi: 10.1155/2014/457913. Epub 2014 Mar 23. PubMed PMID: 24779011; PubMed Central PMCID: PMC3980987.

Litwicka K, Greco E. Cesarean scar pregnancy: a review of management options. *Curr Opin Obstet Gynecol*. 2013 Dec;25(6):456-61. doi: 10.1097/GCO.000000000000023. Review. PubMed PMID: 24185003.

Greco E, Litwicka K, Arrivi C, Varricchio MT, Zavaglia D, Mencacci C, Minasi MG. Accumulation of oocytes from a few modified natural cycles to improve IVF results: a pilot study. *J Assist Reprod Genet*. 2013 Nov;30(11):1465-70. PubMed PMID: 24077861; PubMed Central PMCID: PMC3879935.

Greco E, Scarselli F, Fabozzi G, Colasante A, Zavaglia D, Alviggi E, Litwicka K, Varricchio MT, Minasi MG, Tesarik J. Sperm vacuoles negatively affect outcomes in intracytoplasmic morphologically selected sperm injection in terms of pregnancy, implantation, and live-birth rates. *Fertil Steril*. 2013 Aug;100(2):379-85. doi: 10.1016/j.fertnstert.2013.04.033. Epub 2013 May 23. PubMed PMID: 23706334.

Casciani V, Minasi MG, Fabozzi G, Scarselli F, Colasante A, Lobascio AM, Greco E. Traditional intracytoplasmic sperm injection provides equivalent outcomes compared with human zona pellucida-bound selected sperm injection. *Zygote*. 2014 Nov;22(4):565-70. doi: 10.1017/S0967199413000191. Epub 2013 May 9. PubMed PMID: 23659189.

Greco E, Scarselli F, Minasi MG, Casciani V, Zavaglia D, Dente D, Tesarik J, Franco G. Birth of 16 healthy children after ICSI in cases of nonmosaic Klinefelter syndrome. *Hum Reprod*. 2013 May;28(5):1155-60. doi: 10.1093/humrep/det046. Epub 2013 Mar 14. PubMed PMID: 23493114.

Vellani E, Colasante A, Mamazza L, Minasi MG, Greco E, Bevilacqua A. Association of state and trait anxiety to semen quality of in vitro fertilization patients: a controlled study. *Fertil Steril*. 2013 May;99(6):1565-72. doi: 10.1016/j.fertnstert.2013.01.098. Epub 2013 Feb 13. PubMed PMID: 23414918.

Minasi MG, Fabozzi G, Casciani V, Ferrero S, Litwicka K, Greco E. Efficiency of slush nitrogen vitrification of human oocytes vitrified with or without cumulus cells in relation to survival rate and meiotic spindle competence. *Fertil Steril*. 2012 May;97(5):1220-5. doi: 10.1016/j.fertnstert.2012.02.022. Epub 2012 Mar 7. PubMed PMID: 22401811.

Litwicka K, Greco E. Cesarean scar pregnancy: a review of management options. *Curr Opin Obstet Gynecol*. 2011 Dec;23(6):415-21. doi: 10.1097/GCO.0b013e32834cef0c. Review. PubMed PMID: 22011956.

Litwicka K, Greco E, Prefumo F, Fratelli N, Scarselli F, Ferrero S, Iammarrone E, Frusca T. Successful management of a triplet heterotopic caesarean scar pregnancy after in vitro fertilization-embryo transfer. *Fertil Steril*. 2011 Jan;95(1):291.e1-3. doi: 10.1016/j.fertnstert.2010.05.025. Epub 2010 Jun 20. PubMed PMID: 20646693.

Tocci A, Lucchini C, Minasi MG, Greco E. Unilateral ovarian endometriotic cysts do not impair follicles development, oocyte and embryo quality: report on eight controlled ovarian hyperstimulations and ICSI cycles. *Hum Reprod.* 2010 Jan;25(1):288-9; author reply 289. doi: 10.1093/humrep/dep402. Epub 2009 Nov 21. PubMed PMID: 19933522.

Tocci A, Ferrero S, Iacobelli M, Greco E. Negligible serum anti-müllerian hormone: pregnancy and birth after a 1-month course of an oral contraceptive, ovarian hyperstimulation, and intracytoplasmic sperm injection. *Fertil Steril.* 2009 Jul;92(1):395.e9-395.e12. doi: 10.1016/j.fertnstert.2009.03.044. Epub 2009 May 1. PubMed PMID: 19410249.

Nagy ZP, Jones-Colon S, Roos P, Botros L, Greco E, Dasig J, Behr B. Metabolomic assessment of oocyte viability. *Reprod Biomed Online.* 2009 Feb;18(2):219-25. PubMed PMID: 19192342.

Greco E, Litwicka K, Ferrero S, Sapienza F, Minasi MG, Iacobelli M, Zavaglia D, Nagy ZP. Co-transfer of embryos derived from cryopreserved and fresh natural cycle oocytes: a pilot study. *Reprod Biomed Online.* 2008 Oct;17(4):530-6. PubMed PMID: 18854108.

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Rienzi L, Ubaldi FM, Iacobelli M, Minasi MG, Romano S, Ferrero S, Sapienza F, Baroni E, Litwicka K, Greco E. Significance of metaphase II human oocyte morphology on ICSI outcome. *Fertil Steril.* 2008 Nov;90(5):1692-700. doi: 10.1016/j.fertnstert.2007.09.024. Epub 2008 Feb 4. PubMed PMID: 18249393.

Greco E, Iacobelli M, Rienzi L, Fabris GF, Tesorio N, Tesarik J. Birth of a healthy boy after fertilization of cryopreserved oocytes with cryopreserved testicular spermatozoa from a man with nonmosaic Klinefelter syndrome. *Fertil Steril.* 2008 Apr;89(4):991.e5-7. Epub 2007 Nov 5. PubMed PMID: 17980871.

Ciriminna R, Papale ML, Artini PG, Costa M, De Santis L, Gandini L, Parmegiani L, Ragni G, Revelli A, Rienzi L, Italian Society of Embryology, Reproduction and Research, Barbaro R, Cela V, Cino I, Colia D, D'Ambrogio G, Diotallevi L, Dusi M, Filicori M, Genazzani AR, Giuffrida G, Lombardo F, Paffoni A, Racca C, Greco E. Impact of Italian legislation regulating assisted reproduction techniques on ICSI outcomes in severe male factor infertility: a multicentric survey. *Hum Reprod.* 2007 Sep;22(9):2481-7. Epub 2007 Jun 23. PubMed PMID: 17586834.

Ubaldi F, Rienzi L, Baroni E, Ferrero S, Iacobelli M, Minasi MG, Sapienza F, Romano S, Colasante A, Litwicka K, Greco E. Hopes and facts about mild ovarian stimulation. *Reprod Biomed Online.* 2007 Jun;14(6):675-81. PubMed PMID: 17579976.

Greco E, Litwicka K, Ferrero S, Baroni E, Sapienza F, Rienzi L, Romano S, Minasi MG, Tesarik J. GnRH antagonists in ovarian stimulation for ICSI with oocyte restriction: a matched, controlled study. *Reprod Biomed Online.* 2007 May;14(5):572-8. PubMed PMID: 17509196.

Nagy ZP, Rienzi LF, Ubaldi FM, Greco E, Massey JB, Kort HI. Effect of reduced oocyte aging on the outcome of rescue intracytoplasmic sperm injection. *Fertil Steril.* 2006 Apr;85(4):901-6. PubMed PMID: 16580372.

Greco E, Ubaldi F, Rienzi L, Iacobelli M, Ferrero S, Minasi G, Romano S, Litwicka C, Tesarik J. Limiting the number of injected oocytes to three impairs ICSI outcomes in patients with nonobstructive azoospermia. *Hum Reprod.* 2006 Jun;21(6):1521-4. Epub 2006 Feb 3. PubMed PMID: 16459348.

Greco E, Polonio-Balbi P, Ferrero S, Baroni E, Ubaldi F, Rienzi L, Tesarik J. Use of a fully automated injector for self-administration of follitropin alfa in an IVF/ICSI programme. *Reprod Biomed Online.* 2005 Oct;11(4):415-20. PubMed PMID: 16274597.

Rienzi L, Ubaldi F, Iacobelli M, Minasi MG, Romano S, Ferrero S, Sapienza F, Baroni E, Tesarik J, Greco E. Developmental potential of fully intact and partially damaged cryopreserved embryos after laser-assisted removal of necrotic blastomeres and post-thaw culture selection. *Fertil Steril.* 2005 Oct;84(4):888-94. PubMed PMID: 16213840.

Rienzi L, Ubaldi F, Iacobelli M, Romano S, Minasi MG, Ferrero S, Sapienza F, Baroni E, Greco E. Significance of morphological attributes of the early embryo. *Reprod Biomed Online*. 2005 May;10(5):669-81. Review. PubMed PMID: 15949228.

Greco E, Romano S, Iacobelli M, Ferrero S, Baroni E, Minasi MG, Ubaldi F, Rienzi L, Tesarik J. ICSI in cases of sperm DNA damage: beneficial effect of oral antioxidant treatment. *Hum Reprod*. 2005 Sep;20(9):2590-4. Epub 2005 Jun 2. PubMed PMID: 15932912.

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Ubaldi FM, Rienzi L, Ferrero S, Baroni E, Sapienza F, Cobellis L, Greco E. Management of poor responders in IVF. *Reprod Biomed Online*. 2005 Feb;10(2):235-46. Review. PubMed PMID: 15823231.

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Ragni G, Allegra A, Anserini P, Causio F, Ferraretti AP, Greco E, Palermo R, Somigliana E. The 2004 Italian legislation regulating assisted reproduction technology: a multicentre survey on the results of IVF cycles. *Hum Reprod*. 2005 Aug;20(8):2224-8. Epub 2005 Apr 7. PubMed PMID: 15817586.

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Iacobelli M, Greco E, Rienzi L, Ubaldi F, Podini D, Nuccitelli A, Tesarik J, Baldi M, Fiorentino F. Birth of a healthy female after preimplantation genetic diagnosis for Charcot-Marie-Tooth type X. *Reprod Biomed Online*. 2003 Nov;7(5):558-62. PubMed PMID: 14680548.

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