

## INFORMAZIONI PERSONALI

**Fabrizio Signore,MD** fabrizio.signore@aslroma2.it

Sesso Male

Nazionalità Italian

## WORKING POSITION

Director of Obstetrics and Gynaecology Unit  
S. Eugenio Hospital Roma

## PROFESSIONAL EXPERIENCE

01/12/2016-30/9/2020

Director of Obstetrics and Gynaecology Unit  
Ospedale Misericordia Grosseto

01/12/1994-30/11/2016

Consultant of Obstetrics and Gynaecology  
Azienda Ospedaliera San Camillo Forlanini Roma

14/08/1992-31/08/1994

Consultant of Obstetrics and Gynaecology  
Ospedale Generale San Giovanni Calibita Fatebenefratelli, Isola Tiberina Roma

## EDUCATION and TRAINING

1982-1988

Graduated in Medicine and Surgery  
La Sapienza University Roma

1989-1993

Residency in Obstetrics and Gynecology  
La Sapienza University Roma

01/09/1992-31/08/1993

Scholarship Lega italiana per la lotta contro i  
tumori, at Istituto Regina Elena Roma



31/03/1993–23/04/1993	CNR and British Council Fellowship for Ovarian Cancer Screening with Colour Doppler Ultrasound King's college London
01/09/1993–31/01/1994	Fellowship University of Miami, Jackson Memorial Hospital. Department of Obstetrics and Gynaecology, Gynaecologic Oncology, MIAMI (USA)
15/10/2001–26/10/2001	Fellowship in gynecological endoscopy Mount Sinai Hospital New York
31/03/2003–18/04/2003	Fellowship in gynecologic oncology Memorial Sloan Kettering Cancer Center New York
08/05/2008–09/05/2008	Upgrade in gynecologic oncology Memorial Sloan Kettering Cancer Center New York
11/02/2010–12/02/2010	Training da Vinci SiHD San Camillo Forlanini, Roma
11/12/2012	Gynecological Surgery with Advanced Energy devices Department of Bioscienze Roma, ConsorzioTecnopolo di Castelporziano
17/04/2013–18/04/2013	Master Class Histerectomy/Miomectomy European Surgical Institute Johnson & Johnson Medical GmbH
27/11/2014–29/11/2014	The "Advanced Lparoscopic Gynecological Surgery:Hands-on Training Porcine Model"Course.Cardarelli Hospital ,Naples
Academic position	Professor of Obstetrics and Gynecology , University of Rome ,Campus Biomedico Residency School (2006-2016)  Professor of Obstetrics and Gynecology ,University of Siena ,Policlinico Le Scotte Residency School (2017-2021)



## SCIENTIFIC PUBLICATIONS

1. Assumma, M., Signore, F., Pacifico, L., Rossi, N., Osborn, J. F., Chiesa, C. "Serum procalcitonin concentrations in term delivering mothers and their healthy offspring: a longitudinal study". *Clin Chem.* 2000, 46 (10): 1583-1587.
2. Chiesa, C., Signore, F., Assumma, M., Buffone, E., Tramontozzi, P., Osborn, J. F., Pacifico, L. "Serial measurements of C-reactive protein and interleukin-6 in the immediate postnatal period: reference intervals and analysis of maternal and perinatal confounders". *Clin Chem.* 2001, 47 (6): 1016-1022.
3. Signore F., Pacifico L., Pellegrini, G., Donadio C., Mancuso G. et. al. "Serum procalcitonin concentrations in delivering mothers" *Obstr Gynaecol* 2002, 99 (4): S94-S95.
4. Signore F., Pellegrini G., Panero A., Donadio C., Assumma M. et. al. "Umbilical cord interleukin-6 levels are elevated in neonates with hypoxic-ischemic encephalopathy" *Obstr Gynaecol* 2002, 99 (4): pp. S95.
5. Chiesa, C., Pellegrini, G., Panero, A., De Luca, T., Assumma, M., Signore, F., Pacifico, L. "Umbilical cord interleukin-6 levels are elevated in term neonates with perinatal asphyxia". *Eur J Clin Invest.* 2003, 33(4): 352-358.
6. Chiesa, C., Pellegrini, G., Panero, A., Osborn, J. F., Signore, F., Assumma M, Pacifico L. "C-reactive protein, interleukin-6, and procalcitonin in the immediate postnatal period: influence of illness severity, risk status, antenatal and perinatal complications, and infection". *Clin Chem.* 2003, 49 (1): 60-68.
7. Putignani, L., Raffa, S., Pescosolido, R., Aimati, L., Signore, F., Torrì, M. R. and Grammatico, P. "Alteration of expression levels of the oxidative phosphorylation system (OXPHOS) in breast cancer cell mitochondria". *Breast Cancer Research and Treatment*, Epub Sep 29, 2007, Aug;110 (3): 439-452, 2008.
8. Hannuna K.Y., Putignani, L., Silvestri E., Pisa R., Angioli R and Signore F. "Incidental endometrial adenocarcinoma in early pregnancy: a case report and review of the literature", Manuscript Accepted December 2008. *International Journal of Gynecological Cancer*
9. Putignani, L., Russo, C., Mancinelli, L., Shehi, E., Angelici, C., Meroni, V., Signore, F., Adlerstein, D., and Menichella D. Development of two combined real-time quantitative OCEANII PCR assays to detect *Toxoplasma gondii* in amniotic fluids and sera. *Clinical Microbiology Infection* 14 (S7), S551, 2008.
10. Putignani, L., Raffa, S., Pescosolido, R., Signore, F., Menichella, D., Boldrini, R., Torrì M. R. and Grammatico P. Oxidative metabolism dysfunction and morphological damage in breast cancer cell mitochondria. *Journal of Clinical Oncology*, 2008 ASCO Annual Meeting Proceedings (Post-Meeting Edition). Vol 26, No 15S (May 20 Supplement), 22200, 2008.
11. Putignani, L., Raffa, S., Pescosolido, R., Signore, F., Menichella, D., Boldrini, R., Maria Rosaria Torrì and Grammatico, P. Development of phenotypic indexes for the description of morphological injury in breast cancer cell mitochondria. *Journal of Clinical Oncology*, 2009 ASCO Annual Meeting Proceedings (Post-Meeting Edition).
12. Ivanovic J, Nicastrì E, Anceschi MM, Ascenzi P, Signore F, Pisani G, Vallone C, Mattia E, Notari S, Tempestilli M, Pucillo LP, Narciso P. Transplacental transfer of antiretroviral drugs and newborn birth weight in HIV-infected pregnant women. Pregnancy and newborn clinical outcome group in HIV infection (PANCOH). *Curr HIV Res* 2009;7:620-5. PubMed PMID: 19929798.
13. Use of darunavir/ritonavir once daily in treatment-naïve pregnant woman: pharmacokinetics, compartmental exposure, efficacy and safety. Ivanovic J, R.A. Bellagamba, Nicastrì E, Signore F, Vallone C, Tempestilli M, Tommasi C, Mazzitelli L and Narciso P. *AIDS* 2010. Apr 24;24(7):1083-4. PubMed PMID: 20386380. PubMed PMID: 20386380
14. Putignani L, Carsetti R, Signore F, Manco M. Additional maternal and nonmaternal factors contribute to microbiota shaping in newborns. *Proc Natl Acad Sci U S A.* 2010 Oct 19;107(42):E159; Epub 2010 Sep 27. PubMed PMID: 20876088.
15. Cervelli M, Bellavia G, Fratini E, Amendola R, Polticelli F, Barba M, Federico R, Signore F, Gucciardo G, Grillo R, Woster PM, Casero RA Jr, Mariottini P. Spermine oxidase (SMO) activity in breast tumor tissues and biochemical analysis of the anticancer spermine analogues BENSpm and CPENSpm. *BMC Cancer.* 2010 Oct 14;10:555. PubMed PMID: 20946629.
16. Pietrantonì E, Signore F, Berardi G, Donadio F, Donadio C. [Role of beta-glucan in the treatment of recurrent candidiasis and HPV-correlated lesions and reparative process of epidermis]. *Minerva Ginecol.* 2010 Feb;62(1):1-5. PubMed PMID: 20186110.
17. Rigon G, Vallone C, Lucantoni V, Signore F. Maternal factors pre- and during delivery contribute to gut microbiota shaping in newborns. *Front Cell Infect Microbiol.* 2012;2:93. Published Online Epub 2012 Jul 5.
18. Nicastrì E, Ivanovic J, Signore F, Tempestilli M, Bellagamba R, Viscione M, Pisani G, Vallone C, Tommasi C, Gallo AL, De Nardo P, Pucillo PL, Narciso P. Antiretroviral Therapeutic Drug Monitoring in HIV-Infected Pregnant Women: Maternal Immunovirological Outcome at Delivery and During the 18 Month Follow-Up Period. *Curr HIV Res.* 2012 Oct 1;10(7):606-13.
19. G. Rigon, C. Vallone, A. Starita, M. F. M. Vismara, P. Ialongo, L. Putignani, F. Signore. "Diagnostic Accuracy



- of MRI in Primary Cervical Cancer. *Open Journal of Radiology*, 2012, 2, 14-21, doi:10.4236/ojrad.2012.21003, Published Online March 2012).
- 20C. Vallone, G. Rigon, V. Lucantoni, L. Putignani, and F. Signore. Pregnancy in HIV-positive patients: Effects on Vaginal Flora. *Infectious Diseases in Obstetrics and Gynecology*, 2012, doi:10.1155/2012/287849, Published Online May 2012.
- 21 Del Chierico F, Vernocchi P, Bonizzi L, Carsetti R, Castellazzi AM, Dallapiccola B, de Vos W, Guerzoni ME, Manco M, Marseglia GL, Muraca M, Roncada P, Salvatori G, Signore F, Urbani A, Putignani L. Early-life gut microbiota under physiological and pathological conditions: the central role of combined meta-omics-based approaches. *J Proteomics*. 2012 Aug 3;75(15):4580-7. Epub 2012. PMID: 22387117
21. Putignani L, Raffa S, Pescosolido R, Rizza T, Del Chierico F, Leone L, Aimati L, Signore F, Carrozzo R, Callea F, Torrisi MR, Grammatico P. Preliminary evidences on mitochondrial injury and impaired oxidative metabolism in breast cancer. *Mitochondrion*. 2012 May;12(3):363-9. Epub 2012 Feb 18.
22. Del Nonno F, Pisani G, Visca P, Signore F, Grillo LR, Baiocchini A, Garbuglia AR, Sepe S, Piacentini M, Falasca L. Role and predictive strength of transglutaminase type 2 expression in premalignant lesions of the cervix. *Mod Pathol*. 2011 Jun;24(6):855-65. Epub 2011 Mar 25. PubMed PMID: 21441900.
23. Short-term surviving sirenomelia neonate followed by a complex mesodermal malformation in a sibling. Rigon G, Vallone C, Silvestri E, Signore F. *BMJ Case Rep*. 2013 Jan 29;2013. doi:pil: bcr2012007941. 10.1136/bcr-2012-007941. PubMed PMID: 23365163.
24. Anomalous ovarian artery vascularization of a large uterine fibroid: successful embolisation. Riu P, Vallone C, Rigon G, Signore F. *BMJ Case Rep*. 2013 Jan 29; 2013. doi:pil: bcr2012008106. 10.1136/bcr-2012-008106. PubMed PMID: 23365172.
25. Terranova C, Petrella C, Improta G, Severini C, Signore F, Damiani P, Plotti F, Scarpi Relaxant effect of proton pump inhibitors on in vitro myometrium from pregnant women *Eur J Pharm Sci*. 2013 Nov 9;52C:125-131. doi: 10.1016/j.ejps.2014.10.007.
26. Docosahexaenoic acid supplementation during pregnancy: a potential tool to prevent membrane rupture and preterm labor Pietrantonio E, Del Chierico F, Rigon G, Vernocchi P, Salvatori G, Manco M, Signore F, Putignani L. *Int J Mol Sci*. 2014 May 7;15(5):8024-36. doi: 10.3390/ijms15058024. PMID:24810692
27. Farm animal serum proteomics and impact on human Health Francesco Di Girolamo, Alfonsina D'Amato, Isabella Lante, Fabrizio Signore, Marta Muraca and Lorenza Putignani *Int. J. Mol. Sci*. 2014, 15(9), 15396-15411.
28. Polyamines metabolism and breast cancer: state of the art and perspectives Cervelli M, Pietropaoli S, Signore F, Amendola R, Mariottini P. *Br Canc Res Treat*. 2014 Nov;148(2):233-48. doi: 10.1007/s10549-014-3156-7.
29. Fetal intra-abdominal cysts: accuracy and predictive value of prenatal ultrasound. Catania VD, Briganti V, Di Giacomo V, Miele V, Signore F, de Waure C, Calabro' GE, Calisti A. *J Matern Fetal Neonatal Med* 2015 Aug 10;1-9
30. Phylogenetic and metabolic Tracking of Gut Microbiota during Perinatal Development. Del Chierico F, Vernocchi P, Petrucca A, Paci P, Fuentes S, Pratico' G, Capuani G, Masotti A, reddel S, Russo A, vallone C, Salvatori G, Buffone E, Signore F, Rigon G, Dotta A, Miccheli A, de Vos WM, Dallapiccola B, Putignani L. *PLoS One* 2015 Sep 2;10(9)
31. The Italian Supreme Court has dismissed wrongful life claims. Montanari Vergallo G, Busardò FP, Signore F, Napoletano S, Marinelli E. *J Matern Fetal Neonatal Med*. 2016 Mar 3:1-5.
32. Influence of Maternal Obesity and Gestational Weight Gain on Maternal and Foetal Lipid Profile. Cinelli G, Fabrizi M, Ravà L, Ciofi Degli Atti M, Vernocchi P, Vallone C, Pietrantonio E, Lanciotti R, Signore F, Manco M. *Nutrients*. 2016 Jun 15;8(6).
33. The issue of delivery room infections in the Italian law. A brief comparative study with English and French jurisprudence. Zaami S, Montanari Vergallo G, Napoletano S, Signore F, Marinelli E. *J Matern Fetal Neonatal Med*. 2018 Jan;31(2):223-227. doi: 10.1080/14767058.2017.1281243. Epub 2017 Jan 31.
34. A novel approach in the treatment of neonatal gastroschisis: a review of the literature and a single-center experience. Briganti V, Luvero D, Gulia C, Piergentili R, Zaami S, Buffone EL, Vallone C, Angioli R, Giorlandino C, Signore F. *J Matern Fetal Neonatal Med*. 2018 May;31(9):1234-1240. doi:10.1080/14767058.2017.1311859. Epub 2017 Apr 16
35. Obstetric brachial plexus palsy: a population-based retrospective case-control study and medicolegal considerations. Zaami S, Busardò FP, Signore F, Felici N, Briganti V, Baglio G, Marinelli E, Fineschi V. *J Matern Fetal Neonatal Med*. 2018 Jun;31(11):1412-1417. doi: 10.1080/14767058.2017.1317737. Epub 2017 May 14
36. 2014-2017. How medically assisted reproduction changed in Italy. A short comparative synthesis with European countries. Malvasi A, Signore F, Napoletano S, Bruti V, Sestili C, Di Luca NM.



- Clin Ter. 2017 Jul-Aug;168(4):e248-e252. doi: 10.7417/T.2017.2014. Review (IF 0,6)
37. Role of Non-Coding RNAs in the Etiology of Bladder Cancer. Gulia C, Baldassarra S, Signore F, Rigon G, Pizzuti V, Gaffi M, Briganti V, Porrello A, Piergentili R. *Genes (Basel)*. 2017 Nov 22;8(11).
38. Vesicoureteral reflux in infants: what do we know about the gender prevalence by age? Capozza N, Gulia C, Heidari Bateni Z, Zangari A, Gigli S, Briganti V, Tursini S, Koh CJ, Gaffi M, Baldassarra S, Signore F, Porrello A, Piergentili R. *Eur Rev Med Pharmacol Sci*. 2017 Dec;21(23):5321-5
39. Medical advancements: emergency contraception (EC). Medico-legal implications of EC on adolescents. Signore F, Napoletano S, Bruti V, di Luca NM. *Clin Ter*. 2018 Jan-Feb;169(1):e. doi: 10.7417/T.2018.2051.
40. Association between Maternal and Foetal Erythrocyte Fatty Acid Profiles and Birth Weight. Cinelli G, Fabrizi M, Rava' L, Signore F, et al. *Nutrients* 2018 mar 23;10(4)
41. Non Coding RNAs and Endometrial Cancer. Vallone C, Rigon G, Gulia C, Baffa A, Votino R, Morosetti G, Zaami S, Briganti V, Catania F, Gaffi M, Nucciotti R, Costantini FM, Piergentili R, Putignani L and Signore F. *Genes* 2018 Mar 29 (9)
42. Androgen insensitivity syndrome. Gulia C, Baldassarra S, Zangari A, Briganti V, Gigli S, Gaffi M, Signore F, et al. *Eur Rev Med Pharmaceutical Sc*. 2018 Jun, 22 (12):3873-3877
43. A Maldi TOF MS Approach for mammalian, Human and formula Milks profiling. Di Francesco L, Di Girolamo F, Mennini M, Masotti A, Salvatori G, Rigon G, Signore F et al. *Nutrients* 2018, Sep 5 ;10 (9)
44. Association of Bright liver With the PNPLA3I148M Gene variant in 1-Year -Old Toddlers. Bedogni G, De Matteis G, Fabrizi M, Alisi A, Crudele A, Pizzolante F, Signore F et al. *J Clin Endocrinol Metab* 2019 Jun 1;104 (6) 2163-2170
45. Maternal Intake of n-3 Polyunsaturated Fatty Acids During Pregnancy Is Associated With Differential Methylation Profiles in Cord Blood White Cells. Bianchi M, Alisi A, Fabrizi M, Vallone C, Ravà L, Giannico R, Vernocchi P, Signore F, Manco M. *Front Genet*. 2019 Oct 25;10:1050.
46. Medicolegal Issues in Power Morcellation: Cautionary Rules for Gynecologists to Avoid Unfavorable Outcomes. Zaami S, Zupi E, Lazzeri L, Stark M, Malvasi A, Signore F, Marinelli E. *J Minim Invasive Gynecol*. 2020 Mar-Apr;27(3):583-592.
47. The way to move beyond the numbers: the lesson learnt from the Italian Obstetric Surveillance System. Donati S, Maraschini A, Dell'Oro S, Lega I, D'Aloja P; Regional Maternal Mortality Working Group. *Ann Ist Super Sanita*. 2019 Oct-Dec;55(4):363-370. doi: 10.4415/ANN\_19\_04\_10.
48. The Role of Number of Copies, Structure, Behavior and Copy Number Variations (CNV) of the Y Chromosome in Male Infertility. Signore F, Gulia C, Votino R, De Leo V, Zaami S, Putignani L, Gigli S, Santini E, Bertacca L, Porrello A, Piergentili R. *Genes (Basel)*. 2019 Dec 29;11(1):40.
49. Emergency Contraception: are the rights to conscience and to reproductive freedom irreconcilable? Signore F, Baffa A, Votino R. *Clin Ter*. 2020 May-Jun;171(3):e237-e239.
50. Emergency contraception: unresolved clinical, ethical and legal quandaries still linger. Zaami S, Signore F, Baffa A, Votino R, Marinelli E, Del Rio A. *Panminerva Med*. 2021 Mar;63(1):75-85.
51. Y RNA: An Overview of Their Role as Potential Biomarkers and Molecular Targets in Human Cancers. Gulia C, Signore F, Gaffi M, Gigli S, Votino R, Nucciotti R, Bertacca L, Zaami S, Baffa A, Santini E, Porrello A, Piergentili R. *Cancers (Basel)*. 2020 May 14;12(5):1238.
52. Episiotomy: a medicolegal vicious cycle. Zaami S, Zupi E, Lazzeri L, Centini G, Stark M, Malvasi A, Signore F, Marinelli E. *Panminerva Med*. 2020 May 14.
53. The Interplay between CD27dull and CD27bright B Cells Ensures the Flexibility, Stability, and Resilience of Human B Cell Memory. Grimsholm O, Piano Mortari E, Davydov AN, Shugay M, Obratsova AS, Bocci C, Marasco E, Marcellini V, Aranburu A, Farroni C, Silvestris DA, Cristofolletti C, Giorda E, Scarsella M, Cascioli S, Barresi S, Lougaris V, Plebani A, Cancrini C, Finocchi A, Moschese V, Valentini D, Vallone C, Signore F, de Vincentiis G, Zaffina S, Russo G, Gallo A, Locatelli F, Tozzi AE, Tartaglia M, Chudakov DM, Carsetti R. *Cell Rep*. 2020 Mar 3;30(9):2963-2977.
54. Ethical, Legal and Social Issues (ELSI) Associated with Non-Invasive Prenatal Testing: Reflections on the Evolution of Prenatal Diagnosis and Procreative Choices. Zaami S, Orrico A, Signore F, Cavaliere AF, Mazzi M, Marinelli E. *Genes (Basel)*. 2021 Jan 30;12(2):204.
55. Non-Coding RNAs as Prognostic Markers for Endometrial Cancer. Piergentili R, Zaami S, Cavaliere AF, Signore F, Scambia G, Mattei A, Marinelli E, Gulia C, Perelli F. *Int J Mol Sci*. 2021 Mar 19;22(6):3151.
56. Chances and Challenges of New Genetic Screening Technologies (NIPT) in Prenatal Medicine from a Clinical Perspective: A Narrative Review. Bedei I, Wolter A, Weber A, Signore F, Axt-Fliedner R. *Genes (Basel)*. 2021 Mar 29;12(4):501.
57. Surrogacy and "Procreative Tourism". What Does the Future Hold from the Ethical and Legal Perspectives? Piersanti V, Consalvo F, Signore F, Del Rio A, Zaami S. *Medicina (Kaunas)*. 2021 Jan 8;57(1):47
58. Genetic Profiling of Idiopathic Antenatal Intracranial Haemorrhage: What We Know? Anna Franca



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59. CRISPR-Cas and Its Wide-Ranging Applications: From Human Genome Editing to Environmental Implications, Technical Limitations, Hazards and Bioethical Issues Roberto Piergentili , Alessandro Del Rio ,\*, Fabrizio Signore , Federica Umari Ronchi , Enrico Marinelli and Simona Zaami . *Cells* 2021, 10
60. Towards Personalized Medicine: Non-Coding RNAs and Endometrial Cancer. Cavaliere AF, Perelli F, Zaami S, Piergentili R, Mattei A, Vizzielli G, Scambia G, Straface G, Restaino S, Signore F. *Healthcare (Basel)*. 2021 Jul 30;9(8):965.
61. Fertility Sparing Treatments in Endometrial Cancer Patients: The Potential Role of the New Molecular Classification. Cavaliere AF, Perelli F, Zaami S, D'Indinosante M, Turrini I, Giusti M, Gullo G, Vizzielli G, Mattei A, Scambia G, Vidiri A, Signore F. *Int J Mol Sci*. 2021 Nov 12;22(22):12248.
62. Ovotoxicity of smoking and impact on AMH levels: a pilot study. Sansone M, Zaami S, Cetta L, Costanzi F, Signore F. *Eur Rev Med Pharmacol Sci*. 2021 Aug;25(16):5255-5260.
63. Massive foeto-maternal transfusion: how long are foetal blood cells detectable in the maternal circulation? Signore F, Marchi L, Conti N, Orlandini C, Vidiri A, Brugnolo F, Bambi F, Zaami S, Scambia G, Cavaliere AF. *Blood Transfus*. 2021 May 21.
64. Flu and Tdap Maternal Immunization Hesitancy in Times of COVID-19: An Italian Survey on Multiethnic Sample. Cavaliere AF, Zaami S, Pallottini M, Perelli F, Vidiri A, Marinelli E, Straface G, Signore F, Scambia G, Marchi L. *Vaccines (Basel)*. 2021 Sep 29;9(10):1107.

Roma 31,1,2022

