

*Paola Vigano'*

## **CURRICULUM VITAE**

BORN

July 19, 1965, Mariano Comense (Como, Italy)

E-MAIL AND PHONE

[paola.vigano@policlinico.mi.it](mailto:paola.vigano@policlinico.mi.it); +393333065844

EDUCATIONAL QUALIFICATIONS

1984-1989	Degree in Biology, University of Milano, School of Biology
1997-2000	Residency in Experimental Endocrinology, University of Milano, School of Pharmacy (Prof. Luciano Martini)
2001-2003	PhD in Prenatal Medicine, University of Siena, School of Medicine (Prof. Felice Petraglia)

PRESENT POSITION

Scientific Director: Infertility Center, Fondazione IRCCS Ca' Granda, Ospedale Maggiore Policlinico Milano, Italy.

PROFESSIONAL EXPERIENCE

1989-91	Intern. Centre for Reproductive Medicine, Department of Obstetrics and Gynecology, Gynecologic Endocrinology Laboratory, San Raffaele Scientific Institute, University Vita-Salute, Milano (Prof. Mario Vignali)
1992-1993	Research fellow. Department of Obstetrics and Gynecology, Gynecologic Endocrinology Laboratory, San Raffaele Scientific Institute, University Vita-Salute, Milano
1994-1995	Research fellow. Scientific Auxologic Institute, Molecular Biology Laboratory, Milano
1995-2006	Research scientist assistant. Head Reproductive Sciences Lab, Department of Obstetrics and Gynecology, University of Milano, Milano
2006-2008	Consultant for Research activity, Scientific Auxologic Institute, Molecular Biology Laboratory, Milano
2008- 2010	Director of Endocrinology and IVF Laboratory of Sant'Anna Hospital, Como, Italy
2010-2020	Director IVF Laboratory, Department of Obstetrics and Gynecology, San Raffaele Scientific Institute, Milano (Director: Prof. Massimo Candiani)
2010-2020	Group Leader <i>Reproductive Sciences Lab</i> , San Raffaele Scientific Institute, Milano, Italy

2021-2022	Scientific Coordinator, Infertility Center, Fondazione Ca' Granda Ospedale Maggiore Policlinico, Milano
2022-present	IVF Lab Director, Fondazione Ca' Granda Ospedale Maggiore Policlinico, Milano

#### SCIENTIFIC EXCELLENCE

Present SCOPUS H-INDEX **54**

2020-current	Editorial member REPRODUCTIVE SCIENCES journal
2019-current	Academic Editor PLoS ONE
2019	Guest Editor of the INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES for the Special issue 'Molecular Research of Endometrial Pathophysiology'
2017- current	Executive Board WORLD ENDOMETRIOSIS SOCIETY
2017-current	President Italian Society for Human Reproduction (S.I.R.U.)
2018-current	Editorial member SCIENTIFIC REPORTS
2015-2019	Associate Editor HUMAN REPRODUCTION
2015-current	Recognized as the 5 <sup>th</sup> world leaders in endometriosis by EXPERSCAPE, US - <a href="http://expertscape.com/ex/endometriosis">http://expertscape.com/ex/endometriosis</a>
2011- 2014	Associate Editor HUMAN REPRODUCTION UPDATE
2014-current	Member of 'FETOSCOPY'
2008-2010	Member 'Task Force Basic Scientist in Reproductive Medicine' of the European Society for Human Reproduction and Embryology (ESHRE)
2006-2009	Deputy Coordinator of the 'Special Interest Group (SIG) in ENDOMETRIUM AND ENDOMETRIOSIS' of the European Society for Human Reproduction and Embryology (ESHRE)
2007-2010	President 'Center for Research in Obstetrics and Gynecology' (CROG), Milano

#### TEACHING AND ACADEMIC ACTIVITIES

2018-2021	Biotechnology students' lesson programme, Biotechnology of Assisted Reproduction, Vita-Salute University, Milano.
2016-2017	Master in Biology and Biotechnology of Reproduction, lesson programme, Milano Bicocca, Milano.

2017	Master in Pathophysiology of Reproduction, lesson programme, University of Palermo, Palermo.
2010-2015	Medical Students' lesson programme, Obstetrics and Gynecology Unit, Vita-Salute University, Milano Title: " <i>Human gamete development and embryo physiology</i> ".
2010	Medical Students' lesson programme, Obstetrics and Gynecology Unit, Vita-Salute University, Milano, Title: " <i>Pathogenesis of endometriosis</i> ".
2002-2006	Elective courses, School of Medicine, University of Milano, Title: " <i>Immunology and Pregnancy</i> ".
1998-2006	Residency lesson programme, Dept. Obstetrics and Gynecology, University of Milano, Title: " <i>Pathogenesis of endometriosis</i> ".
1997-1999	Residency lesson programme, Dept. Obstetrics and Gynecology., University of Milano, Title: " <i>Autoimmunity and pregnancy</i> ".
1994-current	Tutor for students and residents in medical school.

#### PEER-REVIEWER

*Revision of scientific articles related to epidemiology – genetics – pathogenesis - molecular basis of endometriosis, physiology of endometrium, pathogenesis of leiomyomas and embryology for the following journals:*

Human Reproduction  
Molecular Human Reproduction  
European Journal Endocrinology  
Human Reproduction Update  
Fertility & Sterility  
European Journal of Obstetrics and Gynecology and Reproductive Biology  
American Journal of Pathology  
Journal of Reproductive Immunology  
British Journal of Obstetrics and Gynecology  
Gynecological Endocrinology  
International Journal Obstetrics and Gynecology  
The American Journal of Obstetrics & Gynecology  
Reproductive Biomedicine Online  
Plos One  
Cellular & Molecular Biology Letters  
Molecular and Cellular Endocrinology  
Reproductive Biology and Endocrinology  
J Assisted Reproduction and Genetics  
Gynecology and Obstetric Investigation  
Reproductive Sciences  
Archives in Gynecology and Obstetrics  
Cell Transplantation  
Cell & Tissue Research  
Scientific Reports  
Nat Rev Dis Primers

*Referee for scientific programs and projects*

- Austrian Science Fund, Austria

- Wellbeing of Women Research, London, UK
- INSERM Institut national de la santé et de la recherche médicale, France
- National Science Center, Krakow, Poland
- Alessandro Liberati Programme for young investigators, Regione Emilia Romagna
- Genome BC, Canada
- Biomedicine & F.I.R.S.T. Program Israel Science Foundation, Israel

## RESEARCH INTERESTS

### *ENDOMETRIOSIS*

#### Basic science

Pathogenesis of endometriosis; role of genetics. Development and improvement of animal models of the disease.

#### Translational research:

Identifications of disease marker. Development of preventive measures.

### *REPRODUCTIVE MEDICINE*

#### Basic science:

Follicular development and granulosa cell physiology. Molecular characterization of factors affecting the ovulatory process.

The maternal-fetal interface. Endometrial ‘omics’.

#### Translational research:

Improvements of gamete/embryo selection and embryo culture conditions.

Use of extracellular vesicle cargo as markers of embryo implantation and diagnosis of endometrial diseases.

## RESEARCH TRAINING AND SPECIALITIES

### Cell Cultures:

Cellular dispersion and experimental cultures of human eutopic and ectopic endometrium, granulosa, skin, trophoblast, endothelium. Culture and expansion of cell lines.

### Assisted reproductive techniques:

Selection of oocytes and spermatozoa for IUI, IVF-ET, Intracytoplasmic sperm injection. Embryo culture procedures. Cryopreservation of gametes and embryos. Preimplantation genetic testing.

### Molecular Biology Techniques:

Extraction of nucleic acids from different tissues and cells. Polymerase Chain Reaction, Western blot, sequence analysis. Agarose and polyacrylamide gel, autoradiography. Gene expression analysis by gene microarrays.

### Immunological Techniques:

<sup>51</sup>Cr cytotoxicity and binding assays. Flow cytometric analysis. Isolation of lymphoid populations by Ficoll and Panning.

### Radioimmunoassays, ELISA, Immunofluorescence

### Animal models

Endometriosis and leiomyomas in mice

## HONORS AND AWARDS

- |           |                                                                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2014      | SOCIETY FOR GYNECOLOGIC INVESTIGATION award for the abstract " <i>Iron overload in the peritoneal cavity leads to up-regulation of MMP-3 and VEGF transcripts in ectopic endometrium of mice with endometriosis</i> " Florence, March 19- 23. |
| 2014-2012 | Scientific Director Giorgio Pardi Foundation for the Event 'Ama Nutri Cresci'                                                                                                                                                                 |
| 2012-2016 | World Endometriosis Society Ambassador                                                                                                                                                                                                        |
| 2006      | Consultant for the ITALIAN SENATE INVESTIGATION on endometriosis as a "Social disease"                                                                                                                                                        |
| 2002      | Journal prize from the Editorial Office of FERTILITY & STERILITY for the paper: " <i>Endometriosis: novel etiopathogenetic concepts and clinical perspective</i> "                                                                            |
| 1999      | Outstanding contribution from HUMAN REPRODUCTION JOURNAL for the paper " <i>Endometrial ability to implant in ectopic sites can be prevented by Interleukin-12 in a murine model of endometriosis</i> "                                       |
| 1996      | SOCIETY FOR GYNECOLOGIC INVESTIGATION President's presenter award for the abstract " <i>Endometrial secretory factors possess the ability to regulate NK-mediated lysis of human endometrium</i> " Philadelphia, March 20- 24.                |

## GRANTS (last 5 years)

### *Past*

#### **1. Bayer Grants4Targets (PI)**

01/09/2014 – 31/08/2015

Functional validation of GWA-identified loci using Next Generation Sequencing analysis for endometriosis.

#### **2. Merck-Serono Grant for Fertility Innovation (PI)**

18-06-2015 – 17/06/2018

Exosomes/Microvesicles Release as a Non-Invasive Method to Assess Embryo Activity

#### **3. Italian Ministry of Health 2013 (Co-PI)**

01-02-2016 – 31/12/2019

Vitamin D Supplementation on Assisted Reproduction Technology (ART) outcomes: a randomized clinical controlled trial and an investigation of the involved biological mechanisms

#### **4. OSR Pilot & Seed Grant (coPI)**

01-02-2016 – 31/01/2018

Identification of 'mummy' spermatozoa targeting protective epididymal proteins: an approach to ameliorate results of intracytoplasmic sperm injection (ICSI)

#### **5. INAIL bando Bric (PI)**

01/09/2017-31/08/2020

Exposure to risk factors for reproductive health in relation to endocrine disruptors present in professional environments.

*Ongoing*

**6. ESHRE grant 2016 (PI)**

01-09-2017 – 01/09/2020

Uterine fluid exosomes as a 'liquid biopsy' contributing to the prediction of pregnancy in assisted reproduction technology

**7. Theramex Grant (PI)**

31/07/2019-31/07/2022

Study of the embryo-exported extracellular vesicles as 'natural cell biopsy'

**INVITED PRESENTATIONS**

1. 8<sup>th</sup> International Conference on HLA-G, Paris, July 8-10, 2019. Presentation title: 'Exploiting the value of preimplantation embryo-derived HLA-G in aiding IVF care'.
2. 5<sup>th</sup> Congress of the Society of endometriosis and uterine disorders (SEUD). Montreal, Canada, May 16-18, 2019. Presentation title: 'Inside the endometrial cell subway: the endometriosis route'.
3. 80. XXXIX Sabato dell'andrologia. Colloqui in PMA tra ginecologi, biologi e andrologi. Paderno Dugnano, February 16, 2019. Chairman session: 'Il Laboratorio del futuro: intelligenza artificiale in IVF'.
4. Pacific Coast Reproductive Society 67th Annual Meeting. Indian Wells, April 3-6, 2019. Presentation title: 'Endometriosis & Implantation debate'.
5. 4th European Congress on Endometriosis, Vienna, November 22-24, 2018. Presentation title: 'Development of fibrosis in endometriotic lesions through tissue injury and repair'.
6. Meet the GFI winner session. Annual Meeting of the European Society of Human Reproduction & Embryology (ESHRE), Barcellona, July 1-4, 2018. Presentation title: 'Look who is talking: extracellular vesicles at the fetal-maternal interface'
7. The 7th Asian Conference on Endometriosis. Taiwan, September 12-15, 2018. Presentation title: 'A fibrotic condition in which endometrial stroma and epithelium can be identified'.
8. ESHRE Campus 'How does endometriosis cause pain'. Copenhagen, September 27-28, 2018.: Presentation title 'The role of the pelvic inflammatory environment in generating pain in endometriosis'.
9. II Convegno di Medicina della Riproduzione. La coppia infertile oggi: dalla Medicina territoriale al Centro di Procreazione Medicalmente Assistita (P.M.A) Lecce, June 28-29, 2018. Presentation title: ' Dialogo embrione-endometrio: che lingua parlano?'
10. 39th Belgium Society for Reproductive Medicine. Bruxelles, March 23, 2018. Scientific Meeting. Presentation title 'High progesterone levels: consequences in the IVF lab?'
11. Convegno 'Endometriomi: fisiologia, diagnosi, prospettive di trattamento ed impatto sulla fertilità' Genova, 23 giugno 2017. Presentation title 'Patogenesi degli endometriomi e impatto sulla funzione riproduttiva: aspetti biologi e molecolari'.

12. IX ASEBIR Congress (Spanish Association for the Study of Biology and Human Reproduction), Madrid, Spain, 16-17 November 2017, Presentation title: "Improving the safety and efficacy of the human reproduction laboratory"
13. Meeting on Endometrium from physiology to pathologies. Bologna, February 23-25, 2017. Presentation title: "Stromal-epithelial interactions, mechanisms of migration and invasion".
14. Annual conference in reproductive medicine Recurrent implantation failure: A journey into deep understanding, International conference by Excemed, April 21-22, 2017, Milan, Italy. Chairman and concluding remarks.
15. Corso Pratico Avanzato Medicina della Riproduzione. Milano, Giugno 9, 2017. Presentation title: "Freeze-all cycles in medicina della riproduzione: quali prospettive?"
16. International Obstetrics & Gynecology Summit The Red House Forum, Shanghai, June 2-4, 2017. Presentation title: "Impact of endometriomas on ovarian function: cellular and molecular evidence".
17. 13th World Congress on Endometriosis. Vancouver, May 17-20. Chairman session "Pathogenesis and Aetiology".
18. National Reproductive Endocrinology and Infertility Congress (TSRM 2016). Belek, Antalya, Turkey, 17-20 November 2016. Presentation title: "The embryonic-maternal cross-talk via extracellular vesicles: potential clinical implication".
19. Seminar itinerary Queen's Medical Research Institute, Edimburgh 14 November 2016. Presentation title: "The embryonic-maternal cross-talk via extracellular vesicles: potential clinical implication".
20. Scuola permanente di formazione su Terapie ormonali in ginecologia e ostetricia 'Dall'ecografia al management delle patologie benigne ginecologiche' Siena 13-15 October 2016. Presentation title: "Infiammazione e proliferazione cellulare".
21. Convegno Endometriosi: sintomi e conseguenze. Roveredo in Piano, PD, 5 Marzo 2016. Relazione dal titolo: "Progetto: studio della componente genetica dell'endometriosi".
22. Congresso Internazionale: Management moderno dei miomi uterini. Genova, 8-9 aprile 2016. Moderatore sessione: Overview.
23. Expo Event 2015 Benessere riproduttivo ed alimentazione: informare, prevenire, trattare. Milano, 17 October 2015. Presentation title: "Carenze vitaminiche e infertilità".
24. Convegno New insights into gonadotrophins signalling: a challenge for embryologists. Alghero, 22-23 October 2015. Presentation title: "Exosome/microvesicles release as a non-invasive method to assess embryo activity".
25. 90° Congresso Nazionale SIGO. Milano, 18-21 October 2015. Presentation title: "Possiamo prevenire e curare l'endometriosi con la vitamina D?".
26. Italian Society of Obstetrics and Gynecology Naples, September 26-27, 2014. La formazione delle corrette competenze in Medicina della Riproduzione. Provoker III Session: Il biologo



27. Undicesimo corso teorico-pratico di procreazione medico-assistita. September 19-20 2014. Presentation title: "La Coltura a blastocisti: quando e come".
28. Italian Society of Reproduction. Milano, June 19-20, 2014 Summit Nazionale. Sterilità di coppia nella pratica ambulatoriale e clinica. Presentation title: "Patogenesi."
29. Italian Society of Gynecologic Endoscopy 9° National Congress. SEGI, Milano, May 22-24, 2014. Presentation title: "Criopreservazione preventiva. Fertilità eterna?"
30. University for EXPO 2015. Meeting on "Il Ciclo della vita. La nutrizione nei mille giorni dello sviluppo". June 21, 2014, Presentation title: "Nutrizione e salute della donna: la nutrizione nelle donne affette da endometriosi."
31. SGI Endometrial Satellite, Florence, March 26, 2014. Presentation title: "Modeling the signaling pathways of endometrium: from growth to migration"
32. Gyndolomiti Congress. San Cassiano, February 2-7 2014. Presentation title: "Diet and endometriosis".
33. 1st European Congress on Endometriosis. Siena, November 29-December 1, 2012. Presentation title: "Pathogenesis of endometrioma"
34. Gynecological Club of Great Britain and Ireland Biannual overseas meeting. Milan, March 8, 2012. Presentation title: "Woman at the window: an introduction to the Reproductive Sciences Lab"
35. ESHRE Campus symposium "Reproductive medicine across Europe". Beograd, February 24-25, 2012. Presentation title: "Endometriosis".
36. 6° Congress on Endometriosis Brunico. Brunico, April 13-14, 2012. Presentation title: "Influenza dell'endometriosi sui parametri PMA"
37. X Congresso Nazionale Società Italiana di Ginecologia dell'Infanzia e dell'adolescenza. Reggio Emilia, November 11-12, 2011. Presentation title: "Patogenesi dell'endometriosi: il modello della paziente adolescente"
38. Meeting on "Conservazione della fertilità. Nuove strategie terapeutiche. Rome, November, 17-18, 2011. Presentation title: "Immunologia dell'endometriosi"
39. ESHRE Special Interest Group in Endometrium and Endometriosis, ESHRE Campus symposium, Endometriosis and IVF. Rome, October 28-29, 2011. Presentation title: "Pathogenesis of endometriosis and potential inference for implantation failure".
40. 87° Congresso della Società Italiana di Ostetricia e Ginecologia, Palermo, September 25-28, 2011. Presentation title: "Endometriosi: l'enigma della patogenesi".
41. Tecnobios Procreazione Symposium 2011, Desenzano, September 14-15, 2011. Presentation title: "Endometriosi, endometrioma e riproduzione. Il biologo della riproduzione"
42. Meeting "Natural cycle IVF", Rome, November 12, 2010. Presentation title: "Endometrial receptivity in natural cycle IVF".
43. Annual Meeting of the European Society of Human Reproduction & Embryology (ESHRE), Rome, June 27-30, 2010. Precongress Course on "Endometriosis: how new techniques may help", Presentation title: "Research on serum markers of the disease: is it worthwhile?"

44. XI National Congress of Infertility, Contraception and Hormone Replacement Therapy. Bulgaria, Plovdiv, May 13-16, 2010. Presentation title "Aspects of endometrial biology during embryo implantation".
45. Meeting "Endometriosis 2010: from bench to patient", Milano, March 18-20, 2010. Presentation title: "Primary and secondary prevention: are they possible?".
46. Meeting "Endometriosis 2010: from bench to patient", Milano, March 18-20, 2010. Presentation title: "Deep infiltrating endometriosis: pathogenesis".
47. Annual Meeting of the European Society of Human Reproduction & Embryology (ESHRE), Amsterdam, June 28-July 4, 2009 Main Programme, Presentation title: "New insights in the pathophysiology of endometriosis".
48. Annual Congress of Gynecologic Endoscopy. Bologna, June 10-13, 2009. Presentation title: "Pathogenesis".
49. 4th International Congress on Endometriosis, Rome, Milano, May 28-30, 2009. Presentation title: "Biochemical markers".
50. Course on "Endometriosis and chronic pelvic pain", Rho (MI), June 5, 2009. Presentation title: "Definition and pathogenesis".
51. 1° CIRMAR Meeting entitled "From laboratory to clinics: markers in infertility and ovarian defects" Milano, February 25, 2009. Presentation title "Markers to use in endometriosis".
52. Italian National Congress of Infertility, Catania, December 11-13 2008. Presentation title: Molecular and biochemical modifications in the endometrium and implantation defects in endometriosis".
53. National Course on "Endometriosis and pelvic pain: from research to therapy", Grosseto, October 17, 2008. Presentation title: "Role of inflammation in 'endometriosis".
54. International Conference on "Highlights on endometriosis", Palermo, June 12-14, 2008. Presentation title: "Defective immunosurveillance and endometriosis".
55. Congress of the Italian Society of Obstetrics and Gynecology, Napoli, October 13-16, 2007. Presentation title: "Oncogenesis and endometriosis".
56. Precongress course on "Endometriosis and cancer" Annual Meeting of the European Society of Human Reproduction & Embryology (ESHRE), Berlin, July 1st, 2007. Presentation title: "Biological plausibility for a malignant transformation of endometriosis".
57. 6th German Endometriosis Congress. Villach, September 28-October 1, 2005. Presentation title: "Immune dysfunction and inflammation in endometriosis".
58. 10e Journees Liegeoises de gynecologie-obstetrique. Liege, March 16-18, 2005. Presentation title: "New concepts in the physiopathology of endometriosis"
59. Precongress course on "Endometriosis: pathogenesis and modern management" Annual Meeting of the European Society of Human Reproduction & Embryology (ESHRE), Berlin, June 27, 2004. Presentation title: "New etiopathogenic concepts".

60. Postgraduate course Centre for Reproductive Medicine, Bruxelles, January 22, 2004. Presentation title: "Novelties in pathophysiology and therapy of endometriosis"
61. Serson Symposia International Conference on "From Genetics to Implantation and Early Fetal Development in Infertile Couples", Milano, October 24-25, 2003. Presentation title : "Maternal-embryo cross-talk".
62. Workshop on: "Endometriosis", Ancona, November 22-23, 2002. Presentation title: "The pathogenesis of endometriosis"
63. Workshop on "Infertility: diagnosis and therapy", Hurghada, May 2-5, 2002. Presentation title: "Male infertility: diagnosis and therapy".
64. Gynecologic laparoscopic courses, Milano, October, 3-5, 2001. Presentation title: "Anatomy and biology of the Fallopian tube"
65. 5° International Congress on Endometriosis, S. Margherita Ligure, October 24-25, 2003. Presentation title: "Immunology of endometriosis".
66. Journee Scientifique "Infertilit  et endometriose". Paris, June 13, 2003. Presentation title: "Perspectives-Nouveaux th rapeutiques et physiologiques".
67. Workshop on "Preventive Gynecologic Oncology", Milano, November 29-30, 2002. Presentation title: "Molecular biology"
68. 4° International Congress on Endometriosis, S. Margherita Ligure, October, 5-6, 2001. Presentation title: "Immunology of endometriosis".
69. First Montecarlo Conference on updates in Gynecology, Montecarlo, March, 8-11, 2000. Presentation title: "The window of implantation: embryo modulation"
70. First Montecarlo Conference on updates in Gynecology, Montecarlo, March, 8-11, 2000. Presentation title: "*Immunological signals and molecular pathways involved in endometriosis*"
71. National Congress of the Italian Society of Fertility and Sterility, Milano, February 12-14, 1999. Presentation title: "*Molecular mechanisms of embryo implantation*"
72. Gynecologic laparoscopic courses, Milano, May 25-27, 1998. Presentation title: "*Biologic aspects of endometriosis*"
73. 6th World Congress on Endometriosis, Quebec City, Canada, June 29-July 4, 1998. Presentation title: "*Cell adhesion molecules*"
74. Reproductive medicine meetings, Milano, February 20-21, 1998. Presentation title: "*Molecular biology of implantation of the embryo*"
75. Conference on "Dysfunction of the menstrual cycle", Orvieto, 18 April, 1997. Presentation title: "*Menstrual cycle and aetiopathogenesis of endometriosis*"
76. 5th World Congress on Endometriosis, Yokohama, Japan, October 21-24, 1996. Presentation title: "*Expression of ICAM-1 in eutopic and ectopic endometrial cells.*"
77. Workshop on: "Autoimmunity and reproduction", Milano, Niguarda, May, 1995. Presentation title: "*The immune system in endometriosis*"
78. One day workshop on: "Diagnosis and therapy of infertility", Lodi, 7 May 1994. Presentation title: "*Evaluation criteria of seminal fluid*"

79. One day workshop on “Male infertility”, Sondalo, 3-6 June 1990. Presentation title:  
“*Seminal fluid analysis*”

#### SCIENCE OUTREACH ACTIVITIES

- 2009 organization and registration of the TV report entitled ‘*Endometriosis*’ for *Superquark* scientific show of the Italian National Public Broadcasting Company
- 2012-2014 *Giorgio Pardi Foundation Scientific Director* for the Think Tank ‘Ama Nutri Cresci’ (<http://amanutricresci.com>)

#### ENGLISH LANGUAGE

Comprehension				Speaking				Writing	
Listening		Reading		Oral interaction		Oral production			
C1	Advanced	C2	Advanced	B2	Intermediate	B2	Intermediate	C2	Advanced

#### MEMBERSHIPS

European Society of Human Reproduction and Embryology  
World Endometriosis Society  
Società Italiana di Riproduzione Umana  
Associazione Italiana Endometriosi  
Associazione Dolore pelvico cronico e endometriosi

#### APPOINTMENTS IN MEETING ORGANIZATION COMMITTEES

- 2018 2<sup>nd</sup> Seminario Nazionale Rischio Clinico e Tutele della salute delle coppie nella PMA, December 15, 2018, Paderno Dugnano (MI), Italy
- 2018 2<sup>nd</sup> National SIRU Congress, November 15-17, Catania, Italy
- 2017 1<sup>st</sup> National SIRU Congress, December 14-16, Roma, Italy
- 2017 Annual conference in reproductive medicine Recurrent implantation failure: A journey into deep understanding, International conference by Excemed, April 21-22, 2017, Milano, Italy
- 2010 Endometriosis from bench to patient. International Congress, March 18-20, 2010 Milano, Italy

#### MENTORSHIP

Somigliana Edgardo	Fellow	<i>Presently</i> Associate Professor UNIMI
Gentilini Davide	Fellow	Researcher UNIPV
Sanchez Ana	Post-Doc	Clinical Scientist OSR
Pagliardini Luca	Fellow	Clinical Scientist OSR

Corti Laura	Fellow	Clinical Scientist OSR
Giacomini Elisa	Post-doc	Lab technician OSR
Makieva Sofia	Post-doc	Marie Curie Fellowship

PUBLICATIONS:

<b>Papers in peer-reviewed journals:</b>	<b>265</b>
Letters in peer-reviewed journals:	6
Papers in national journals:	9
Chapters in international books:	5
Chapters in national books:	5
Abstracts in proceedings of international conferences:	>300
Abstracts in proceedings of national conferences:	24

## VIGANO' PAOLA

### PUBLICATIONS

#### Articles/letters in international peer-reviewed journals

##### 2021

1. Somigliana E, Esposito G, **Viganò P**, Franchi M, Corrao G, Parazzini F. Effects of the early phase of the COVID-19 pandemic on natural and ART-mediated birth rates in Lombardy Region, Northern Italy. *Reprod Biomed Online*. 2021;43(4):765-767. doi:10.1016/j.rbmo.2021.07.017
2. Giacomini E, Minetto S, Li Piani L, Pagliardini L, Somigliana E, **Viganò P**. Genetics and Inflammation in Endometriosis: Improving Knowledge for Development of New Pharmacological Strategies. *Int J Mol Sci*. 2021;22(16):9033. doi:10.3390/ijms22169033
3. Paffoni A, Reschini M, Pisaturo V, Guarneri C, Palini S, **Viganò P**. Should rescue ICSI be re-evaluated considering the deferred transfer of cryopreserved embryos in in-vitro fertilization cycles? A systematic review and meta-analysis. *Reprod Biol Endocrinol*. 2021;19(1):121. doi:10.1186/s12958-021-00784-3
4. Pozzi E, Boeri L, Candela L, Capogrosso P, Cazzaniga W, Fallara G, Cignoli D, Belladelli F, Cornelius J, Abbate C, Papaleo E, **Viganò P**, Minhas S, Mattei A, Montorsi F, Salonia A. Infertile couples still undergo assisted reproductive treatments without initial andrological evaluation in the real-life setting: A failure to adhere to guidelines? *Andrology*. 2021 Nov;9(6):1843-1852. doi: 10.1111/andr.13071. Epub 2021 Sep 22. PMID: 34169669.
5. Candela L, Boeri L, Capogrosso P, Cazzaniga W, Pozzi E, Belladelli F, Baudo A, Ravizzoli A, Ventimiglia E, **Viganò P**, Alfano M, Abbate C, Cornelius J, Mattei A, Montorsi F, Salonia A. Correlation among isolated teratozoospermia, sperm DNA fragmentation and markers of systemic inflammation in primary infertile men. *PLoS One*. 2021 Jun 7;16(6):e0251608. doi: 10.1371/journal.pone.0251608. PMID: 34097690; PMCID: PMC8184012.
6. Giacomini E, Scotti GM, Vanni VS, Lazarevic D, Makieva S, Privitera L, Signorelli S, Cantone L, Bollati V, Murdica V, Tonon G, Papaleo E, Candiani M, **Viganò P**. Global transcriptomic changes occur in uterine fluid-derived extracellular vesicles during the endometrial window for embryo implantation. *Hum Reprod*. 2021 Jul 19;36(8):2249-2274. doi: 10.1093/humrep/deab123. PMID: 34190319; PMCID: PMC8289330.
7. Racca A, Vanni VS, Somigliana E, Reschini M, **Viganò P**, Santos-Ribeiro S, Drakopoulos P, Tournaye H, Verheyen G, Papaleo E, Candiani M, Blockeel C. Is a freeze-all policy the optimal solution to circumvent the effect of late follicular elevated progesterone? A multicentric matched-control retrospective study analysing cumulative live birth rate in 942 non-elective freeze-all cycles. *Hum Reprod*. 2021 Aug 18;36(9):2463-2472. doi: 10.1093/humrep/deab160. PMID: 34223890.

##### 2020

8. Fallara G, Cazzaniga W, Boeri L, Capogrosso P, Candela L, Pozzi E, Belladelli F, Schifano N, Ventimiglia E, Abbate C, Papaleo E, **Viganò P**, Montorsi F, Salonia A. Male factor infertility trends throughout the last 10 years: Report from a tertiary-referral academic andrology centre. *Andrology*. 2020 Nov 24. doi: 10.1111/andr.12947.
9. Boeri L, Belladelli F, Capogrosso P, Cazzaniga W, Candela L, Pozzi E, Valsecchi L, Papaleo E, **Viganò P**, Abbate C, Pederzoli F, Alfano M, Montorsi F, Salonia A. Normal sperm parameters per se do not reliably account for fertility: A case-control study in the real-life setting. *Andrologia*. 2020 Oct 30:e13861. doi: 10.1111/and.13861.
10. Salmeri N, Villanacci R, Ottolina J, Bartiromo L, Cavoretto P, Dolci C, Lembo R, Schimberni M, Valsecchi L, **Viganò P**, Candiani M. Maternal Arsenic Exposure and Gestational Diabetes: A Systematic Review and Meta-Analysis. *Nutrients*. 2020 Oct 11;12(10):3094. doi: 10.3390/nu12103094.
11. Ventimiglia E, Capogrosso P, Boeri L, Cazzaniga W, Matloob R, Pozzi E, Chierigo F, Abbate C, **Viganò P**, Montorsi F, Salonia A. Leukocytospermia is not an informative predictor of positive semen culture in infertile men: results from a validation study of available guidelines. *Hum Reprod Open*. 2020 Sep 22;2020(3):hoaa039. doi: 10.1093/hropen/hoaa039.
12. Boeri L, Capogrosso P, Cazzaniga W, Ventimiglia E, Pozzi E, Belladelli F, Schifano N, Candela L, Alfano M, Pederzoli F, Abbate C, Montanari E, Valsecchi L, Papaleo E, **Viganò P**, Rovere-Querini P, Montorsi F, Salonia A. Infertile Men Have Higher Prostate-specific Antigen Values than Fertile Individuals of Comparable Age. *Eur Urol*. 2020 Aug 17:S0302-2838(20)30615-1. doi:10.1016/j.eururo.2020.08.001. Epub ahead of print. PMID: 32814638.
13. Alteri A, Pisaturo V, Somigliana E, **Vigano P**. Cryopreservation in reproductive medicine during the COVID-19 pandemic: rethinking policies and European safety regulations. *Hum Reprod*. 2020 Aug 3;deaa210. doi: 10.1093/humrep/deaa210.
14. Alteri A, Guarneri C, Corti L, Restelli L, Reschini M, Giardina P, Papaleo E, Somigliana E, **Viganò P**, Paffoni A. ALADDIN study: does assisted hatching of vitrified/warmed blastocysts improve live birth rate? Protocol for a multicentric randomised controlled trial. *BMJ Open*. 2020 Jul 19;10(7):e031544. doi: 10.1136/bmjopen-2019-031544.
15. Ottolina J, Ferrari S, Bartiromo L, Bonavina G, Salmeri N, Schimberni M, Makieva S, Tandoi I, Papaleo E, **Viganò P**, Candiani M. Ovarian responsiveness in ART after CO2 fiber laser vaporization for endometrioma treatment: preliminary data. *Minerva Endocrinol*. 2020 Jul 7. doi: 10.23736/S0391-1977.20.03256-3.
16. Ottolina J, Schimberni M, Makieva S, Bartiromo L, Fazio T, Bernardinelli L, Viganò P, Candiani M, Gentilini D. Early-life factors, in-utero exposures and endometriosis risk: a meta-analysis. *Reprod Biomed Online*. 2020 Aug;41(2):279-289. doi: 10.1016/j.rbmo.2020.04.005.
17. Cavoretto PI, Giorgione V, Sotiriadis A, **Viganò P**, Papaleo E, Galdini A, Gaeta G, Candiani M. IVF/ICSI treatment and the risk of iatrogenic preterm birth in singleton pregnancies: systematic review and meta-analysis of cohort studies. *J Matern Fetal Neonatal Med*. 2020 Jun 4:1-10. doi:10.1080/14767058.2020.1771690.
18. Murdica V, Giacomini E, Makieva S, Zarovni N, Candiani M, Salonia A, Vago R, **Viganò P**. In vitro cultured human endometrial cells release extracellular vesicles that can be uptaken by spermatozoa. *Sci Rep*. 2020 Jun 1;10(1):8856. doi: 10.1038/s41598-020-65517-9. PMID: 32483153; PMCID: PMC7264351.

19. Pagliardini L, **Viganò P**, Alteri A, Corti L, Somigliana E, Papaleo E. Shooting STAR: reinterpreting the data from the 'Single Embryo TrAnsfeR of Euploid Embryo' randomized clinical trial. *Reprod Biomed Online*. 2020 Apr;40(4):475-478. doi: 10.1016/j.rbmo.2020.01.015.
20. Giacomini E, Makieva S, Murdica V, Vago R, **Viganò P**. Extracellular vesicles as a potential diagnostic tool in assisted reproduction. *Curr Opin Obstet Gynecol*. 2020 Jun;32(3):179-184. doi: 10.1097/GCO.0000000000000621.
21. Romano A, Xanthouleas S, Giacomini E, Delvoux B, Allea E, **Vigano P**. Endometrial cell culture contamination and authenticity: a source of bias in in vitro research? *Hum Reprod*. 2020 Feb 29;35(2):364-376. doi: 10.1093/humrep/dez266.
22. Somigliana E, Busnelli A, **Vigano P**, Vegetti W, Goisis A, Vercellini P. Is early initiation of infertility treatment justified in women over the age of 35 years? *Reprod Biomed Online*. 2020 Mar;40(3):393-398. doi:10.1016/j.rbmo.2019.12.006.
23. Reschini M, Somigliana E, Busnelli A, Benaglia L, **Viganò P**, Vercellini P. Peripheral Estrogens in Women with Endometriosis Undergoing IVF. *Reprod Sci*. 2020 Feb;27(2):662-667. doi: 10.1007/s43032-019-00070-z. 32046400.
24. **Viganò P**, Alteri A, Busnelli A, Vanni VS, Somigliana E. Frozen IVF Cycles to Circumvent the Hormonal Storm on Endometrium. *Trends Endocrinol Metab*. 2020 Apr;31(4):296-307. doi: 10.1016/j.tem.2020.01.009.
25. Sanchez AM, Pagliardini L, Cermisoni GC, Privitera L, Makieva S, Alteri A, Corti L, Rabellotti E, Candiani M, **Viganò P**. Does Endometriosis Influence the Embryo Quality and/or Development? Insights from a Large Retrospective Matched Cohort Study. *Diagnostics (Basel)*. 2020 Feb 3;10(2):83. doi: 10.3390/diagnostics10020083.
26. Alteri A, Corti L, Cermisoni GC, Papaleo E, **Viganò P**, Noventa M. Busting the myth of extended blastocyst culture until Day 7: Protocol for systematic review and meta-analysis. *Medicine (Baltimore)*. 2020 Jan;99(5):e18909. doi:10.1097/MD.00000000000018909.
27. Caporossi L, Alteri A, Campo G, Paci E, Tranfo G, Capanna S, Papaleo E, Pigni D, **Viganò P**, Papaleo B. Cross Sectional Study on Exposure to BPA and Phthalates and Semen Parameters in Men Attending a Fertility Center. *Int J Environ Res Public Health*. 2020 Jan 13;17(2):489. doi: 10.3390/ijerph17020489.
28. Amato V, Papaleo E, Pasciuta R, **Viganò P**, Ferrarese R, Clementi N, Sanchez AM, Quaranta L, Burioni R, Ambrosi A, Salonia A, Clementi M, Candiani M, Mancini N. Differential Composition of Vaginal Microbiome, but Not of Seminal Microbiome, Is Associated With Successful Intrauterine Insemination in Couples With Idiopathic Infertility: A Prospective Observational Study. *Open Forum Infect Dis*. 2019 Dec 10;7(1):ofz525. doi: 10.1093/ofid/ofz525.
29. Cavoretto PI, Farina A, Gaeta G, Sigismondi C, Spinillo S, Casiero D, Pozzoni M, **Vigano P**, Papaleo E, Candiani M. Uterine artery Doppler in singleton pregnancies conceived after in-vitro fertilization or intracytoplasmic sperm injection with fresh vs frozen blastocyst transfer: longitudinal cohort study. *Ultrasound Obstet Gynecol*. 2020 Oct;56(4):603-610. doi: 10.1002/uog.21969.
30. **Viganò P**, Ottolina J, Bartiromo L, Bonavina G, Schimberni M, Villanacci R, Candiani M. Cellular Components Contributing to Fibrosis in Endometriosis: A Literature Review. *J Minim Invasive Gynecol*. 2020 Feb;27(2):287-295. doi: 10.1016/j.jmig.2019.11.011. Epub 2019 Nov 27. PMID: 31785417.



2019

31. Boeri L, Ventimiglia E, Capogrosso P, Pecoraro A, Pederzoli F, Cazzaniga W, Pozzi E, Alfano M, **Viganò P**, Montanari E, Montorsi F, Salonia A. The duration of infertility affects semen parameters in primary infertile men: results of a single-centre, cross-sectional study. *BJU Int.* 2019 May;123(5):891-898. doi:10.1111/bju.14613.
32. Vercellini P, **Viganò P**, Barbara G, Buggio L, Somigliana E; 'Luigi Mangiagalli' Endometriosis Study Group. Elagolix for endometriosis: all that glitters is not gold. *Hum Reprod.* 2019 Feb 1;34(2):193-199. doi: 10.1093/humrep/dey368. PMID: 30551159.
33. Boeri L, Capogrosso P, Ventimiglia E, Pederzoli F, Frego N, Cazzaniga W, Chierigo F, Alfano M, Piemonti L, **Viganò P**, Pontillo M, Montanari E, Montorsi F, Salonia A. Undiagnosed prediabetes is highly prevalent in primary infertile men - results from a cross-sectional study. *BJU Int.* 2019 Jun;123(6):1070-1077. doi: 10.1111/bju.14558.
34. Venturini M, Bergamini A, Perani L, Sanchez AM, Rossi EG, Colarieti A, Petrone M, De Cobelli F, Del Maschio A, **Viganò P**, Mangili G, Candiani M, Tacchetti C, Esposito A. Contrast-enhanced ultrasound for ovary assessment in a murine model: preliminary findings on the protective role of a gonadotropin-releasing hormone analogue from chemotherapy-induced ovarian damage. *Eur Radiol Exp.* 2018 Dec 19;2(1):44. doi: 10.1186/s41747-018-0076-z.
35. Somigliana E, **Viganò P**, Benaglia L, Busnelli A, Paffoni A, Vercellini P. Ovarian stimulation and endometriosis progression or recurrence: a systematic review. *Reprod Biomed Online.* 2019 Feb;38(2):185-194. doi:10.1016/j.rbmo.2018.11.021.
36. Noventa M, Vitagliano A, Andrisani A, Blaganje M, **Viganò P**, Papaleo E, Scioscia M, Cavallin F, Ambrosini G, Cozzolino M. Testosterone therapy for women with poor ovarian response undergoing IVF: a meta-analysis of randomized controlled trials. *J Assist Reprod Genet.* 2019 Apr;36(4):673-683. doi:10.1007/s10815-018-1383-2
37. Alio L, Angioni S, Arena S, Bartiromo L, Bergamini V, Berlanda N, Bonanni V, Bonin C, Buggio L, Candiani M, Centini G, D'Alterio MN, De Stefano F, Di Cello A, Exacoustos C, Fedele L, Frattaruolo MP, Geraci E, Lavarini E, Lazzeri L, Luisi S, Maiorana A, Makieva S, Maneschi F, Martire F, Massarotti C, Mattei A, Muzii L, Ottolina J, Pagliardini L, Perandini A, Perelli F, Pino I, Porpora MG, Remorgida V, Scagnelli G, Seracchioli R, Solima E, Somigliana E, Sorrenti G, Ticino A, Venturella R, **Viganò P**, Vignali M, Zullo F, Zupi E. Endometriosis: seeking optimal management in women approaching menopause. *Climacteric.* 2019 Aug;22(4):329-338. doi: 10.1080/13697137.2018.1549213.
38. Alteri A, Corti L, Sanchez AM, Rabellotti E, Papaleo E, **Viganò P**. Assessment of pre-implantation genetic testing for embryo aneuploidies: A SWOT analysis. *Clin Genet.* 2019 Apr;95(4):479-487. doi: 10.1111/cge.13510.
39. Somigliana E, Busnelli A, Paffoni A, **Vigano P**, Riccaboni A, Rubio C, Capalbo A. Cost-effectiveness of preimplantation genetic testing for aneuploidies. *Fertil Steril.* 2019 Jun;111(6):1169-1176. doi: 10.1016/j.fertnstert.2019.01.025.
40. Giacomini E, Alleva E, Fornelli G, Quartucci A, Privitera L, Vanni VS, **Viganò P**. Embryonic extracellular vesicles as informers to the immune cells at the maternal-fetal interface. *Clin Exp Immunol.* 2019 Apr 22. doi: 10.1111/cei.13304.

41. Murdica V, Giacomini E, Alteri A, Bartolacci A, Cermisoni GC, Zarovni N, Papaleo E, Montorsi F, Salonia A, **Viganò P**, Vago R. Seminal plasma of men with severe asthenozoospermia contain exosomes that affect spermatozoa motility and capacitation. *Fertil Steril.* 2019 May;111(5):897-908.e2. doi:10.1016/j.fertnstert.2019.01.030.
42. ETIC Endometriosis Treatment Italian Club .When more is not better: 10 'don'ts' in endometriosis management. An ETIC (\*) position statement. *Hum Reprod Open.* 2019 Jun 12;2019(3):hoz009. doi: 10.1093/hropen/hoz009. eCollection 2019.
43. Vanni VS, De Lorenzo R, Privitera L, Canti V, **Viganò P**, Rovere-Querini P. Safety of fertility treatments in women with systemic autoimmune diseases (SADs). *Expert Opin Drug Saf.* 2019 Sep;18(9):841-852. doi: 10.1080/14740338.2019.1636964.
44. Cipollini M, Luisi S, Piomboni P, Luddi A, Landi D, Melaiu O, Figlioli G, Garritano S, Cappelli V, **Viganò P**, Gemignani F, Petraglia F, Landi S. Functional polymorphism within NUP210 encoding for nucleoporin GP210 is associated with the risk of endometriosis. *Fertil Steril.* 2019 Aug;112(2):343-352.e1. doi: 10.1016/j.fertnstert.2019.04.011.

## 2018

45. Makieva S, Giacomini E, Ottolina J, Sanchez AM, Papaleo E, **Viganò P**. Inside the Endometrial Cell Signaling Subway: Mind the Gap(s). *Int J Mol Sci.* 2018 Aug 21;19(9).
46. Cermisoni GC, Alteri A, Corti L, Rabellotti E, Papaleo E, **Viganò P**, Sanchez AM. Vitamin D and Endometrium: A Systematic Review of a Neglected Area of Research. *Int J Mol Sci.* 2018 Aug 8;19(8).
47. Cazzaniga W, Capogrosso P, Ventimiglia E, Pederzoli F, Boeri L, Frego N, Abbate C, Alfano M, **Viganò P**, Montorsi F, Salonia A. High Blood Pressure Is a Highly Prevalent but Unrecognised Condition in Primary Infertile Men: Results of a Cross-sectional Study. *Eur Urol Focus.* 2018 Aug 3. pii: S2405-4569(18)30214.
48. Zondervan KT, Becker CM, Koga K, Missmer SA, Taylor RN, **Viganò P**. Endometriosis. *Nat Rev Dis Primers.* 2018 Jul 19;4(1):9. doi: 10.1038/s41572-018-0008-5.
49. Bartolacci A, Pagliardini L, Makieva S, Salonia A, Papaleo E, **Viganò P**. Abnormal sperm concentration and motility as well as advanced paternal age compromise early embryonic development but not pregnancy outcomes: a retrospective study of 1266 ICSI cycles. *J Assist Reprod Genet.* 2018 Oct;35(10):1897-1903. doi: 10.1007/s10815-018-1256-8.
50. Gentilini D, Somigliana E, Pagliardini L, Rabellotti E, Garagnani P, Bernardinelli L, Papaleo E, Candiani M, Di Blasio AM, **Viganò P**. Multifactorial analysis of the stochastic epigenetic variability in cord blood confirmed an impact of common behavioral and environmental factors but not of in vitro conception. *Clin Epigenetics.* 2018 Jun 8;10:77. doi: 10.1186/s13148-018-0510-3.
51. Somigliana E, Vanni VS, Busnelli A, Reschini M, Papaleo E, **Viganò P**. Excessive fetal growth in frozen embryo transfer: false alarm or clinical concern? *Hum Reprod Update.* 2018 Jul 1;24(4):516-517. doi: 10.1093/humupd/dmy010.
52. Alfano M, Ferrarese R, Locatelli I, Ventimiglia E, Ippolito S, Gallina P, Cesana D, Canducci F, Pagliardini L, **Viganò P**, Clementi M, Nebuloni M, Montorsi F, Salonia A. Testicular microbiome in azoospermic men-first evidence of the impact of an

altered microenvironment. *Hum Reprod.* 2018 Jul 1;33(7):1212-1217. doi: 10.1093/humrep/dey116.

53. Vercellini P, **Viganò P**, Frattaruolo MP, Borghi A, Somigliana E. Bowel surgery as a fertility-enhancing procedure in patients with colorectal endometriosis: methodological, pathogenic and ethical issues. *Hum Reprod.* 2018 Jul 1;33(7):1205-1211. doi: 10.1093/humrep/dey104.
54. Vanni VS, Alleve E, Papaleo E, Candiani M, Somigliana E, Viganò P. Assessing the clinical significance of elevated progesterone during controlled ovarian stimulation: the unanswered question about embryo quality. *Hum Reprod.* 2018 Ju 1;33(6):1191-1192. doi: 10.1093/humrep/dey097.

## 2017

55. Somigliana E, **Vigano P**, Busnelli A, Paffoni A, Vegetti W, Vercellini P. Repeated implantation failure at the crossroad between statistics, clinics and over-diagnosis. *Reprod Biomed Online.* 2017 Oct 12. pii: S1472-6483(17)30567-9.
56. Sarais V, Cermisoni GC, Schimberni M, Alteri A, Papaleo E, Somigliana E, **Vigano' P**. Human Chorionic Gonadotrophin as a Possible Mediator of Leiomyoma Growth during Pregnancy: Molecular Mechanisms. *Int J Mol Sci.* 2017 Sep 20;18(9).
57. **Viganò P**, Chiaffarino F, Bonzi V, Salonia A, Ricci E, Papaleo E, Mauri PA, Parazzini F. Sleep disturbances and semen quality in an Italian cross sectional study. *Basic Clin Androl.* 2017 Aug 21;27:16.
58. Giacomini E, Vago R, Sanchez AM, Podini P, Zarovni N, Murdica V, Rizzo R, Bortolotti D, Candiani M, **Viganò P**. Secretome of in vitro cultured human embryos contains extracellular vesicles that are uptaken by the maternal side. *Sci Rep.* 2017 Jul 12;7(1):5210.
59. Sanchez AM, Vanni VS, Bartiromo L, Papaleo E, Zilberberg E, Candiani M, Orvieto R, **Viganò P**. Is the oocyte quality affected by endometriosis? A review of the literature. *J Ovarian Res.* 2017 Jul 12;10(1):43.
60. **Viganò P**, Ottolina J, Sarais V, Rebonato G, Somigliana E, Candiani M. Coagulation Status in Women With Endometriosis. *Reprod Sci.* 2017 Jan 1:1933719117718273.
61. Ricci E, **Viganò P**, Cipriani S, Somigliana E, Chiaffarino F, Bulfoni A, Parazzini F. Coffee and caffeine intake and male infertility: a systematic review. *Nutr J.* 2017 Jun 24;16(1):37. doi: 10.1186/s12937-017-0257-2.
62. Vanni VS, Somigliana E, Reschini M, Pagliardini L, Marotta E, Faulisi S, Paffoni A, **Vigano' P**, Vegetti W, Candiani M, Papaleo E. Top quality blastocyst formation rates in relation to progesterone levels on the day of oocyte maturation in GnRH antagonist IVF/ICSI cycles. *PLoS One.* 2017 May 17;12(5):e0176482.
63. Paffoni A, Ferrari S, Mangiarini A, Noli S, Bulfoni A, **Vigano P**, Parazzini F, Somigliana E. Concordance of vitamin D peripheral levels in infertile couples' partners. *Gynecol Endocrinol.* 2017 Aug;33(8):649-652.
64. Cavoletto P, Giorgione V, Cipriani S, **Viganò P**, Candiani M, Inversetti A, Ricci E, Parazzini F. Nuchal translucency measurement, free  $\beta$ -hCG and PAPP-A concentrations in IVF/ICSI pregnancies: systematic review and meta-analysis. *Prenat Diagn.* 2017 Jun;37(6):540-555.

65. Ventimiglia E, Ippolito S, Capogrosso P, Pederzoli F, Cazzaniga W, Boeri L, Cavarretta I, Alfano M, **Viganò P**, Montorsi F, Salonia A. Primary, secondary and compensated hypogonadism: a novel risk stratification for infertile men. *Andrology*. 2017 May;5(3):505-510.
66. Vanni VS, **Viganò P**, Papaleo E, Mangili G, Candiani M, Giorgione V. Advances in improving fertility in women through stem cell-based clinical platforms. *Expert Opin Biol Ther*. 2017 May;17(5):585-593.
67. Navas P, Paffoni A, Intra G, González-Utor A, Clavero A, Gonzalvo MC, Díaz R, Peña R, Restelli L, Somigliana E, Papaleo E, Castilla JA, **Viganò P**. Obstetric and neo-natal outcomes of ICSI cycles using pentoxifylline to identify viable spermatozoa in patients with immotile spermatozoa. *Reprod Biomed Online*. 2017 Apr;34(4):414-421.
68. Ottolina J, De Stefano F, **Viganò P**, Ciriaco P, Zannini P, Candiani M. Thoracic Endometriosis Syndrome: Association With Pelvic Endometriosis and Fertility Status. *J Minim Invasive Gynecol*. 2017 Mar - Apr;24(3):461-465.
69. Leone Roberti Maggiore U, Ferrero S, Candiani M, Somigliana E, **Viganò P**, Vercellini P. Bladder Endometriosis: A Systematic Review of Pathogenesis, Diagnosis, Treatment, Impact on Fertility, and Risk of Malignant Transformation. *Eur Urol*. 2017 May;71(5):790-807.
70. Ricci E, Al Beitawi S, Cipriani S, Candiani M, Chiaffarino F, **Viganò P**, Noli S, Parazzini F. Semen quality and alcohol intake: a systematic review and meta-analysis. *Reprod Biomed Online*. 2017 Jan;34(1):38-47.
71. Somigliana E, **Vigano P**, Benaglia L, Busnelli A, Berlanda N, Vercellini P. Management of Endometriosis in the Infertile Patient. *Semin Reprod Med*. 2017 Jan;35(1):31-37.
72. Papaleo E, Pagliardini L, Vanni VS, Delprato D, Rubino P, Candiani M, **Viganò P**. A direct healthcare cost analysis of the cryopreserved versus fresh transfer policy at the blastocyst stage. *Reprod Biomed Online*. 2017 Jan;34(1):19-26

## 2016

73. Ricci E, **Viganò P**, Cipriani S, Chiaffarino F, Bianchi S, Rebonato G, Parazzini F. Physical activity and endometriosis risk in women with infertility or pain: Systematic review and meta-analysis. *Medicine (Baltimore)*. 2016 Oct;95(40):e4957.
74. Papaleo E, Pagliardini L, Vanni VS, Delprato D, Rubino P, Candiani M, **Viganò P**. A direct healthcare cost analysis of the cryopreserved versus fresh transfer policy at the blastocyst stage. *Reprod Biomed Online*. 2017 Jan;34(1):19-26.
75. Benaglia L, Candotti G, Papaleo E, Pagliardini L, Leonardi M, Reschini M, Quaranta L, Munaretto M, **Viganò P**, Candiani M, Vercellini P, Somigliana E. Pregnancy outcome in women with endometriosis achieving pregnancy with IVF. *Hum Reprod*. 2016 Dec;31(12):2730-2736.
76. Vanni VS, **Viganò P**, Quaranta L, Pagliardini L, Giardina P, Molgora M, Munaretto M, Candiani M, Papaleo E. Are extremely high progesterone levels still an issue in IVF? *J Endocrinol Invest*. 2017 Jan;40(1):69-75.
77. Intra G, Alteri A, Corti L, Rabbellotti E, Papaleo E, Restelli L, Biondo S. Garancini MP, Candiani M, **Viganò P**. Application of failure mode and effect analysis in an

- assisted reproduction technology laboratory. *Reprod Biomed Online*. 2016 Aug;33(2):132-9.
78. Vercellini P, Buggio L, **Viganò P**, Somigliana E. Peer review in medical journals: Beyond quality of reports towards transparency and public scrutiny of the process. *Eur J Intern Med*. 2016 Jun;31:15-9.
  79. Leonardi M, Papaleo E, Reschini M, Pagliardini L, Benaglia L, Candotti G, **Viganò P**, Quaranta L, Munaretto M, Candiani M, Vercellini P, Somigliana E. Risk of miscarriage in women with endometriosis: insights from in vitro fertilization cycles. *Fertil Steril*. 2016 Aug;106(2):386-392.e3.
  80. Somigliana E, Paffoni A, Busnelli A, Filippi F, Pagliardini L, **Vigano P**, Vercellini P. Age-related infertility and unexplained infertility: an intricate clinical dilemma. *Hum Reprod*. 2016 Jul;31(7):1390-6.
  81. Sarais V, Pagliardini L, Rebonato G, Papaleo E, Candiani M, **Viganò P**. A Comprehensive Analysis of Body Mass Index Effect on in Vitro Fertilization Outcomes. *Nutrients*. 2016 Feb 23;8(3):109.
  82. Sanchez AM, Cioffi R, **Viganò P**, Candiani M, Verde R, Piscitelli F, Di Marzo V, Garavaglia E, Panina-Bordignon P. Elevated Systemic Levels of Endocannabinoids and Related Mediators Across the Menstrual Cycle in Women With Endometriosis. *Reprod Sci*. 2016 Aug;23(8):1071-9.
  83. Cavoretto P, Dallagiovanna C, **Viganò P**, Somigliana E, Persico N, Papaleo E, Faulisi S, Candiani M. First trimester combined screening test in pregnancies derived from blastocyst transfer. *Eur J Obstet Gynecol Reprod Biol*. 2016 Mar;198:50-5.
  84. Somigliana E, Paffoni A, Lattuada D, Colciaghi B, Filippi F, La Vecchia I, Tirelli A, Baffero GM, Persico N, **Viganò P**, Bolis G, Fedele L. Serum Levels of 25-Hydroxyvitamin D and Time to Natural Pregnancy. *Gynecol Obstet Invest*. 2016;81(5):468-71.
  85. Alabiso G, Alio L, Arena S, Barbasetti di Prun A, Bergamini V, Berlanda N, Busacca M, Candiani M, Centini G, Di Cello A, Exacoustos C, Fedele L, Fuggetta E, Gabbi L, Geraci E, Imperiale L, Lavarini E, Incandela D, Lazzeri L, Luisi S, Maiorana A, Maneschi F, Mannini L, Mattei A, Muzii L, Pagliardini L, Perandini A, Perelli F, Pinzauti S, Porpora MG, Remorgida V, Leone Roberti Maggiore U, Seracchioli R, Solima E, Somigliana E, Tosti C, Venturella R, Vercellini P, **Viganò P**, Vignali M, Zannoni L, Zullo F, Zupi E; Endometriosis Treatment Italian Club. Adenomyosis: What the Patient Needs. *J Minim Invasive Gynecol*. 2016 May-Jun;23(4):476-88.
  86. Vercellini P, **Viganò P**, Frattaruolo MP, Somigliana E. Proliferation of gynaecological scientific societies and their financial transparency: an Italian survey. *BMJ Open*. 2016 Jan 13;6(1):e008370.
  87. Terenziani M, Meazza C, Massimino M, **Viganò P**, Gandola L, Mangili G, Raspagliesi F, Biasoni D, Podda M, Veneroni L, Filippi F, Ricci-petitoni G, Somigliana E. Female fertility preserving practices at a pediatric unit: a challenge of multiprofessional and multidisciplinary cooperation. *Tumori*. 2016 Mar-Apr;102(2):174-7.
  88. Rubino P, **Viganò P**, Luddi A, Piomboni P. The ICSI procedure from past to future: a systematic review of the more controversial aspects. *Hum Reprod Update*. 2016 Mar-Apr;22(2):194-227.
  89. Berlanda N, Somigliana E, **Viganò P**, Vercellini P. Safety of medical treatments for endometriosis. *Expert Opin Drug Saf*. 2016 Jan;15(1):21-30.

90. Leone Roberti Maggiore U, Ferrero S, Mangili G, Bergamini A, Inversetti A, Giorgione V, **Viganò P**, Candiani M. A systematic review on endometriosis during pregnancy: diagnosis, misdiagnosis, complications and outcomes. *Hum Reprod Update*. 2016 Jan-Feb;22(1):70-103. doi: 10.1093/humupd/dmv045.
91. Sanchez AM, Somigliana E, Vercellini P, Pagliardini L, Candiani M, **Vigano P**. Endometriosis as a detrimental condition for granulosa cell steroidogenesis and development: From molecular alterations to clinical impact. *J Steroid Biochem Mol Biol*. 2016 Jan;155(Pt A):35-46.

## 2015

92. **Vigano P**, Corti L, Berlanda N. Beyond infertility: obstetrical and postpartum complications associated with endometriosis and adenomyosis. *Fertil Steril*. 2015 Oct;104(4):802-12.
93. Somigliana E, Benaglia L, Paffoni A, Busnelli A, **Vigano P**, Vercellini P. Risks of conservative management in women with ovarian endometriomas undergoing IVF. *Hum Reprod Update*. 2015 Jul-Aug;21(4):486-99. doi: 10.1093/humupd/dmv012. 25750209.
94. Sanchez AM, **Viganò P**, Somigliana E, Cioffi R, Panina-Bordignon P, Candiani M. The Endometriotic Tissue Lining the Internal Surface of Endometrioma: Hormonal, Genetic, Epigenetic Status, and Gene Expression Profile. *Reprod Sci*. 2015 Apr;22(4):391-401.
95. Garavaglia E, Pagliardini L, Tandoi I, Sigismondi C, **Viganò P**, Ferrari S, Candiani M. External Validation of the Endometriosis Fertility Index (EFI) for Predicting Spontaneous Pregnancy after Surgery: Further Considerations on Its Validity. *Gynecol Obstet Invest*. 2015;79(2):113-8.
96. Sigismondi C, Papaleo E, **Viganò P**, Vailati S, Candiani M, Ottolina J, Di Mattei VE, Mangili G. Fertility preservation in female cancer patients: a single center experience. *Chin J Cancer*. 2015 Jan 5;34(1):56-60.
97. Quattrone F, Sanchez AM, Pannese M, Hemmerle T, **Viganò P**, Candiani M, Petraglia F, Neri D, Panina-Bordignon P. The Targeted Delivery of Interleukin 4 Inhibits Development of Endometriotic Lesions in a Mouse Model. *Reprod Sci*. 2015 Sep;22(9):1143-52.
98. Parazzini F, Di Martino M, Candiani M, **Viganò P**. Dietary components and uterine leiomyomas: a review of published data. *Nutr Cancer*. 2015;67(4):569-79.
99. Pagliardini L, Gentilini D, Sanchez AM, Candiani M, **Viganò P**, Di Blasio AM. Replication and meta-analysis of previous genome-wide association studies confirm vezatin as the locus with the strongest evidence for association with endometriosis. *Hum Reprod*. 2015 Apr;30(4):987-93.
100. Alabiso G, Alio L, Arena S, di Prun AB, Bergamini V, Berlanda N, Busacca M, Candiani M, Centini G, Di Cello A, Exacoustos C, Fedele L, Gabbi L, Geraci E, Lavarini E, Incandela D, Lazzeri L, Luisi S, Maiorana A, Maneschi F, Mattei A, Muzii L, Pagliardini L, Perandini A, Perelli F, Pinzauti S, Remorgida V, Sanchez AM, Seracchioli R, Somigliana E, Tosti C, Venturella R, Vercellini P, **Viganò P**, Vignali M, Zullo F, Zupi E. How to Manage Bowel Endometriosis: The ETIC Approach. *J Minim Invasive Gynecol*. 2015 May-Jun;22(4):517-29.

- 101.Vercellini P, **Viganò P**, Somigliana E. Is exaggeration in academic press releases related to investigators' conflicts of interests? *BMJ*. 2015 Jan 14;350:h137.
- 102.Vercellini P, **Viganò P**, Somigliana E. Government should monitor quality of medical education. *BMJ*. 2015 Jun 2;350:h2937.

## 2014

- 103.Sanchez AM, **Viganò P**, Somigliana E, Panina-Bordignon P, Vercellini P, Candiani M. The distinguishing cellular and molecular features of the endometrioticovarian cyst: from pathophysiology to the potential endometrioma-mediated damage to the ovary. *Hum Reprod Update*. 2014 Mar-Apr;20(2):217-30.
104. Somigliana E, Vercellini P, **Vigano P**, Benaglia L, Busnelli A, Fedele L. Postoperative medical therapy after surgical treatment of endometriosis: from adjuvant therapy to tertiary prevention. *J Minim Invasive Gynecol*. 2014 May-Jun;21(3):328-34.
- 105.Vercellini P, **Viganò P**, Somigliana E, Fedele L. Endometriosis: pathogenesis and treatment. *Nat Rev Endocrinol*. 2014 May;10(5):261-75.
- 106.Sanchez AM, Papaleo E, Corti L, Santambrogio P, Levi S, **Viganò P**, Candiani M, Panina-Bordignon P. Iron availability is increased in individual human ovarian follicles in close proximity to an endometrioma compared with distal ones. *Hum Reprod*. 2014 Mar;29(3):577-83.
- 107.Endometriosis Treatment Italian Club. Ovarian endometrioma: what the patient needs. *J Minim Invasive Gynecol*. 2014 Jul-Aug;21(4):505-16.
- 108.Chiaffarino F, Bravi F, Cipriani S, Parazzini F, Ricci E, **Viganò P**, La Vecchia C. Coffee and caffeine intake and risk of endometriosis: a meta-analysis.*Eur J Nutr*. 2014 Oct;53(7):1573-9.
- 109.Papaleo E, Corti L, Vanni VS, Pagliardini L, Ottolina J, De Michele F, La Marca A, **Viganò P**, Candiani M. Basal progesterone level as the main determinant of progesterone elevation on the day of hCG triggering in controlled ovarian stimulation cycles. *Arch Gynecol Obstet*. 2014 Jul;290(1):169-76.
- 110.Bergamini A, Almirante G, Taccagni G, Mangili G, **Viganò P**, Candiani M. Endometriosis-associated tumor at the inguinal site: report of a case diagnosed during pregnancy and literature review. *J Obstet Gynaecol Res*. 2014 Apr;40(4):1132-6.
- 111.Scarfone G, Bergamini A, Noli S, Villa A, Cipriani S, Taccagni G, **Vigano' P**, Candiani M, Parazzini F, Mangili G. Characteristics of clear cell ovarian cancer arising from endometriosis: a two center cohort study. *Gynecol Oncol*. 2014 Jun;133(3):480-4.
- 112.Buggio L, Pagliardini L, Gentilini D, De Braud L, **Viganò P**, Vercellini P. A rare familial case of endometriosis with very severe gynecological and obstetric complications: novel genetic variants at a glance. *Gynecol Obstet Invest*.2014;77(3):201-4.
- 113.Sanchez AM, **Viganò P**, Quattrone F, Pagliardini L, Papaleo E, Candiani M, Panina-Bordignon P. The WNT/ $\beta$ -catenin signaling pathway and expression of survival promoting genes in luteinized granulosa cells: endometriosis as a paradigm for a dysregulated apoptosis pathway. *Fertil Steril*. 2014 Jun;101(6):1688-96.

114. Vercellini P, **Viganò P**, Somigliana E. Eradicate commercial interests from official medical education. *BMJ*. 2014 Aug 5;349:g4976.
115. Vanni VS, **Viganò P**, Somigliana E, Papaleo E, Paffoni A, Pagliardini L, Candiani M. Vitamin D and assisted reproduction technologies: current concepts. *Reprod Biol Endocrinol*. 2014 May 31;12:47.
116. Bravi F, Parazzini F, Cipriani S, Chiaffarino F, Ricci E, Chiantera V, **Viganò P**, La Vecchia C. Tobacco smoking and risk of endometriosis: a systematic review and meta-analysis. *BMJ Open*. 2014 Dec 22;4(12):e006325.
117. Vercellini P, **Viganò P**, Somigliana E. Who pays for this conference? It's time patients and doctors knew. *BMJ*. 2014 Jun 11;348:g3748.
118. Garavaglia E, Ricci E, Chiaffarino F, Cipriani S, Cioffi R, **Viganò P**, Frigerio A, Candiani M, Parazzini F. Leisure and occupational physical activity at different ages and risk of endometriosis. *Eur J Obstet Gynecol Reprod Biol*. 2014 Dec;183:104-8.
119. Restelli L, Paffoni A, Corti L, Rabellotti E, Mangiarini A, **Viganò P**, Somigliana E, Papaleo E. The strategy of group embryo culture based on pronuclear pattern on blastocyst development: a two center analysis. *J Assist Reprod Genet*. 2014 Dec;31(12):1629-34.
120. Vitonis AF, Vincent K, Rahmioglu N, Fassbender A, Buck Louis GM, Hummelshoj L, Giudice LC, Stratton P, Adamson GD, Becker CM, Zondervan KT, Missmer SA; WERF EPHeT Working Group. World Endometriosis Research Foundation Endometriosis Phenome and Biobanking Harmonization Project: II. Clinical and covariate phenotype data collection in endometriosis research. *Fertil Steril*. 2014 Nov;102(5):1223-32.
121. Rahmioglu N, Fassbender A, Vitonis AF, Twohoger SS, Hummelshoj L, D'Hooghe TM, Adamson GD, Giudice LC, Becker CM, Zondervan KT, Missmer SA; WERF EPHeT Working Group. World Endometriosis Research Foundation Endometriosis Phenome and Biobanking Harmonization Project: III. Fluid biospecimen collection, processing, and storage in endometriosis research. *Fertil Steril*. 2014 Nov;102(5):1233-43.
122. Fassbender A, Rahmioglu N, Vitonis AF, **Viganò P**, Giudice LC, D'Hooghe TM, Hummelshoj L, Adamson GD, Becker CM, Missmer SA, Zondervan KT; WERF EPHeT Working Group. World Endometriosis Research Foundation Endometriosis Phenome and Biobanking Harmonisation Project: IV. Tissue collection, processing, and storage in endometriosis research. *Fertil Steril*. 2014 Nov;102(5):1244-53.
123. Rubino P, Cotarello RP, Alteri A, Rega E, **Viganò P**, Giannini P. Trophoctoderm biopsy performed by a double laser zona drilling: first safety evidence. *Eur J Obstet Gynecol Reprod Biol*. 2014 Oct;181:344-5.
124. Becker CM, Laufer MR, Stratton P, Hummelshoj L, Missmer SA, Zondervan KT, Adamson GD; WERF EPHeT Working Group. World Endometriosis Research Foundation Endometriosis Phenome and Biobanking Harmonisation Project: I. Surgical phenotype data collection in endometriosis research. *Fertil Steril*. 2014bNov;102(5):1213-22.
125. Paffoni A, Ferrari S, **Viganò P**, Pagliardini L, Papaleo E, Candiani M, Tirelli A, Fedele L, Somigliana E. Vitamin D deficiency and infertility: insights from in vitro fertilization cycles. *J Clin Endocrinol Metab*. 2014 Nov;99(11):E2372-6.



126. Ottolina J, Mangili G, Sigismondi C, Vanni VS, **Viganò P**, Candiani M. Reproductive function assessment after surgery plus chemotherapy for germ cell ovarian tumors (MOGCT): novel clues deriving from the field of fertility preservation. *Gynecol Endocrinol*. 2014 Nov;30(11):778-80.
127. Vercellini P, Buggio L, Somigliana E, Dridi D, Marchese MA, **Viganò P**. 'Behind blue eyes': the association between eye colour and deep infiltrating endometriosis. *Hum Reprod*. 2014 Oct 10;29(10):2171-5.
128. Papaleo E, Vanni VS, **Viganò P**, La Marca A, Pagliardini L, Vitrano R, Zanirato M, Marsiglio E, Privitera L, Candiani M. Recombinant LH administration in subsequent cycle after "unexpected" poor response to recombinant FSH monotherapy. *Gynecol Endocrinol*. 2014 Nov;30(11):813-6.

### 2013

129. Corti L, Papaleo E, Pagliardini L, Rabellotti E, Molgora M, La Marca A, **Vigano P**, Candiani M. Fresh blastocyst transfer as a clinical approach to overcome the detrimental effect of progesterone elevation at hCG triggering: a strategy in the context of the Italian law. *Eur J Obstet Gynecol Reprod Biol*. 2013 Nov;171(1):73-7.
130. Sanchez AM, Giorgione V, **Viganò P**, Papaleo E, Candiani M, Mangili G, Panina-Bordignon P. Treatment with anticancer agents induces dysregulation of specific Wnt signaling pathways in human ovarian luteinized granulosa cells in vitro. *Toxicol Sci*. 2013 Nov;136(1):183-92.
131. De Graaff AA, D'Hooghe TM, Dunselman GA, Dirksen CD, Hummelshoj L; WERF EndoCost Consortium, Simoons S. The significant effect of endometriosis on physical, mental and social wellbeing: results from an International cross-sectional survey. *Hum Reprod*. 2013 Oct;28(10):2677-85.
132. Bokor A, Koszorus E, Brodsky V, D'Hooghe T; WERF EndoCost Consortium, Rigó J [The impact of endometriosis on the quality of life in Hungary]. *Orv Hetil*. 2013 Sep 8;154(36):1426-34.
133. Paffoni A, Somigliana E, **Vigano' P**, Benaglia L, Cardellicchio L, Pagliardini L, Papaleo E, Candiani M, Fedele L. Vitamin D status in women with uterine leiomyomas. *J Clin Endocrinol Metab*. 2013 Aug;98(8):E1374-8.
134. Parazzini F, Cipriani S, Bravi F, Pelucchi C, Chiaffarino F, Ricci E, **Viganò P**. A metaanalysis on alcohol consumption and risk of endometriosis. *Am J Obstet Gynecol*. 2013 Aug;209(2):106.e1-10.
135. Parazzini F, **Viganò P**, Candiani M, Fedele L. Diet and endometriosis risk: a literature review. *Reprod Biomed Online*. 2013 Apr;26(4):323-36.
136. Amodio G, Mugione A, Sanchez AM, **Viganò P**, Candiani M, Somigliana E, Roncarolo MG, Panina-Bordignon P, Gregori S. HLA-G expressing DC-10 and CD4(+) T cells accumulate in human decidua during pregnancy. *Hum Immunol*. 2013 Apr;74(4):406-11.
137. Pagliardini L, Gentilini D, **Vigano' P**, Panina-Bordignon P, Busacca M, Candiani M, Di Blasio AM. An Italian association study and meta-analysis with previous GWAS confirm WNT4, CDKN2BAS and FN1 as the first identified susceptibility loci for endometriosis. *J Med Genet*. 2013 Jan;50(1):43-6.

138. Vercellini P, Buggio L, Somigliana E, Barbara G, **Viganò P**, Fedele L. Attractiveness of women with rectovaginal endometriosis: a case-control study. *Fertil Steril*. 2013 Jan;99(1):212-8.

## 2012

139. Calzi F, Papaleo E, Rabellotti E, Ottolina J, Vailati S, **Viganò P**, Candiani M. Exposure of embryos to oxygen at low concentration in a cleavage stage transfer program: reproductive outcomes in a time-series analysis. *Clin Lab*. 2012;58(9-10):997-1003.
140. Somigliana E, Berlanda N, Benaglia L, **Viganò P**, Vercellini P, Fedele L. Surgical excision of endometriomas and ovarian reserve: a systematic review on serum antimüllerian hormone level modifications. *Fertil Steril*. 2012 Dec;98(6):1531-8.
141. Sanchez AM, **Vigano P**, Mugione A, Panina-Bordignon P, Candiani M. The molecular connections between the cannabinoid system and endometriosis. *Mol Hum Reprod*. 2012 Dec;18(12):563-71.
142. Ferrari S, Persico P, Di Puppo F, Garavaglia E, **Viganò P**, Candiani M. An ovarian endometriotic cyst in a patient with prepubertal hypopituitarism due to a craniopharyngioma: a clue for endometrioma pathogenesis. *Eur J Obstet Gynecol Reprod Biol*. 2012 Sep;164(1):115-6.
143. Mangili G, Bergamini A, Taccagni G, Gentile C, Panina P, **Viganò P**, Candiani M. Unraveling the two entities of endometrioid ovarian cancer: a single center clinical experience. *Gynecol Oncol*. 2012 Sep;126(3):403-7.
144. Mariani M, **Viganò P**, Gentilini D, Camisa B, Caporizzo E, Di Lucia P, Monno A, Candiani M, Somigliana E, Panina-Bordignon P. The selective vitamin D receptor agonist, elocalcitol, reduces endometriosis development in a mouse model by inhibiting peritoneal inflammation. *Hum Reprod*. 2012 Jul;27(7):2010-9.
145. Somigliana E, **Vigano P**, Benaglia L, Busnelli A, Vercellini P, Fedele L. Adhesion prevention in endometriosis: a neglected critical challenge. *J Minim Invasive Gynecol*. 2012 Jul-Aug;19(4):415-21.
146. Somigliana E, **Vigano P**, Benaglia L, Crovetto F, Vercellini P, Fedele L. Endometriosis in a rural remote setting: a cross-sectional study. *Gynecol Endocrinol*. 2012 Dec;28(12):979-82.
147. Simoens S, Dunselman G, Dirksen C, Hummelshoj L, Bokor A, Brandes I, Brodsky V, Canis M, Colombo GL, DeLeire T, Falcone T, Graham B, Halis G, Horne A, Kanj O, Kjer JJ, Kristensen J, Lebovic D, Mueller M, **Vigano P**, Wulschleger M, D'Hooghe T. The burden of endometriosis: costs and quality of life of women with endometriosis and treated in referral centres. *Hum Reprod*. 2012 May;27(5):1292-9.
148. Reis FM, Luisi S, Abrão MS, Rocha AL, **Viganò P**, Rezende CP, Florio P, Petraglia F. Diagnostic value of serum activin A and follistatin levels in women with peritoneal, ovarian and deep infiltrating endometriosis. *Hum Reprod*. 2012 May;27(5):1445-50. 22416010.
149. Buggio L, Vercellini P, Somigliana E, **Viganò P**, Frattaruolo MP, Fedele L. "You are so beautiful"\*: behind women's attractiveness towards the biology of reproduction: a narrative review. *Gynecol Endocrinol*. 2012 Oct;28(10):753-7.

150. **Viganò P**, Somigliana E, Panina P, Rabellotti E, Vercellini P, Candiani M. Principles of phenomics in endometriosis. *Hum Reprod Update*. 2012 May-Jun;18(3):248-59.
151. Mihalich A, **Viganò P**, Gentilini D, Borghi MO, Vignali M, Busacca M, Di Blasio. Interferon-inducible genes, TNF-related apoptosis-inducing ligand (TRAIL) and interferon inducible protein 27 (IFI27) are negatively regulated in leiomyomas: implications for a role of the interferon pathway in leiomyoma development. *Gynecol Endocrinol*. 2012 Mar;28(3):216-9.
152. Ferrari S, Persico P, DI Puppo F, **Vigano P**, Tandoi I, Garavaglia E, Giardina P, Mezzi G, Candiani M. Continuous low-dose oral contraceptive in the treatment of colorectal endometriosis evaluated by rectal endoscopic ultrasonography. *Acta Obstet Gynecol Scand*. 2012 Jun;91(6):699-703.
153. Ferrari MM, Rossi G, Biondi ML, **Viganò P**, Dell'utri C, Meschia M. Type I collagen and matrix metalloproteinase 1, 3 and 9 gene polymorphisms in the predisposition to pelvic organ prolapse. *Arch Gynecol Obstet*. 2012 Jun;285(6):1581-6.

## 2011

154. Tandoi I, Somigliana E, Riparini J, Ronzoni S, **Vigano' P**, Candiani M. High rate of endometriosis recurrence in young women. *J Pediatr Adolesc Gynecol*. 2011 Dec;24(6):376-9.
155. Gentilini D, Perino A, **Viganò P**, Chiodo I, Cucinella G, Vignali M, Di Blasio AM, Busacca M. Gene expression profiling of peripheral blood mononuclear cells in endometriosis identifies genes altered in non-gynaecologic chronic inflammatory diseases. *Hum Reprod*. 2011 Nov;26(11):3109-17.
156. Somigliana E, Benaglia L, **Vigano' P**, Candiani M, Vercellini P, Fedele L. Surgical measures for endometriosis-related infertility: a plea for research. *Placenta*. 2011 Sep;32 Suppl 3:S238-42.
157. Vercellini P, Crosignani P, Somigliana E, **Viganò P**, Buggio L, Bolis G, Fedele L. The 'incessant menstruation' hypothesis: a mechanistic ovarian cancer model with implications for prevention. *Hum Reprod*. 2011 Sep;26(9):2262-73.
158. Somigliana E, **Vigano P**, Abbiati A, Paffoni A, Benaglia L, Vercellini P, Fedele L. Perinatal environment and endometriosis. *Gynecol Obstet Invest*. 2011;72(2):135-40.
159. Papaleo E, Ottolina J, **Viganò P**, Brigante C, Marsiglio E, De Michele F, Candiani M. Deep pelvic endometriosis negatively affects ovarian reserve and the number of oocytes retrieved for in vitro fertilization. *Acta Obstet Gynecol Scand*. 2011 Aug;90(8):878-84.
160. Simoens S, Hummelshoj L, Dunselman G, Brandes I, Dirksen C, D'Hooghe T; EndoCost Consortium. Endometriosis cost assessment (the EndoCost study): a cost-of-illness study protocol. *Gynecol Obstet Invest*. 2011;71(3):170-6.
161. Vercellini P, Crosignani P, Somigliana E, **Viganò P**, Frattaruolo MP, Fedele L. 'Waiting for Godot': a commonsense approach to the medical treatment of endometriosis. *Hum Reprod*. 2011 Jan;26(1):3-13.
162. Vercellini P, Meana M, Hummelshoj L, Somigliana E, **Viganò P**, Fedele L. Priorities for endometriosis research: a proposed focus on deep dyspareunia. *Reprod Sci*. 2011 Feb;18(2):114-8.

163. Somigliana E, Vercellini P, **Vigano P**, Abbiati A, Benaglia L, Fedele L. Endometriosis and estrogestins: the chicken or the egg causality dilemma. *Fertil Steril*. 2011 Jan;95(1):431-3.

## 2010

164. Gentilini D, **Vigano P**, Somigliana E, Vicentini LM, Vignali M, Busacca M, Di Blasio AM. Endometrial stromal cells from women with endometriosis reveal peculiar migratory behavior in response to ovarian steroids. *Fertil Steril*. 2010 Feb;93(3):706-15.
165. Candiani M, Ronzoni S, **Vigano P**, Gentilini D, Tandoi I, Somigliana E. Peculiar aspects of endometriosis in adolescents. *J Endometriosis*. 2010; 2: 24-30.
166. Vercellini P, Somigliana E, **Vigano P**, De Matteis S, Barbara G, Fedele L. Post-operative endometriosis recurrence: a plea for prevention based on pathogenetic, epidemiological and clinical evidence. *Reprod Biomed Online*. 2010 Apr 24.
167. Somigliana E, Vercellini P, **Vigano P**, Benaglia L, Crosignani PG, Fedele L. Non-invasive diagnosis of endometriosis: the goal or own goal? *Hum Reprod*. 2010 Aug;25(8):1863-8.
168. Gentilini D, Besana A, **Vigano P**, Dalino P, Vignali M, Melandri M, Busacca M, Di Blasio AM. Endocannabinoid system regulates migration of endometrial stromal cells via cannabinoid receptor 1 through the activation of PI3K and ERK1/2 pathways. *Fertil Steril*. 2010 May 15;93(8):2588-93.
169. Somigliana E, **Vigano P**, Abbiati A, Gentilini D, Parazzini F, Benaglia L, Vercellini P, Fedele L. 'Here comes the sun': pigmentary traits and sun habits in women with endometriosis. *Hum Reprod*. 2010 Mar;25(3):728-33.
170. Gentilini D, **Vigano P**, Vignali M, Busacca M, Panina-Bordignon P, Caporizzo E, Di Blasio AM. Endometrial stromal progesterone receptor-A/progesterone receptor-B ratio: no difference between women with and without endometriosis. *Fertil Steril*. 2010; 94(4):1538-40.

## 2009

171. Gentilini D, **Vigano P**, Castaldi D, Mari D, Busacca M, Vercellini P, Somigliana E, Di Blasio AM. Plasminogen activator inhibitor-1 4G/5G polymorphism and susceptibility to endometriosis in the Italian population. *Eur J Obstet Gynecol Reprod Biol*. 2009;146(2):219-21.
172. **Vigano P**, Somigliana E, Gentilini D, Benaglia L, Vercellini P. Back to the original question in endometriosis: implantation or metaplasia? *J Endometriosis*. 2009; 1 (1): 1-8.
173. Somigliana E, **Vigano P**, Barbara G, Vercellini P. Treatment of endometriosis-related pain: options and outcomes. *Front Biosci (Elite Ed)*. 2009 Jun 1;1:455-65.
174. Vercellini P, Barbara G, Abbiati A, Somigliana E, **Vigano P**, Fedele L. Repetitive surgery for recurrent symptomatic endometriosis: What to do? *Eur J Obstet Gynecol Reprod Biol*. 2009 Sep;146(1):15-21

- 175.Vercellini P, Somigliana E, **Viganò P**, Abbiati A, Barbara G, Crosignani PG. Endometriosis: current therapies and new pharmacological developments. *Drugs*. 2009;69(6):649-75.
- 176.Vercellini P, Somigliana E, **Viganò P**, Abbiati A, Barbara G, Fedele L. Chronic pelvic pain in women: etiology, pathogenesis and diagnostic approach. *Gynecol Endocrinol*. 2009 Mar;25(3):149-58. Review.
- 177.Vercellini P, Parazzini F, Somigliana E, **Viganò P**, Bolis G, Fedele L. The endometriosis-ovarian cancer connection: the case against preventive surgery. *Fertil Steril*. 2009;91(5):e37
- 178.Vercellini P, **Viganò P**, Somigliana E, Abbiati A, Barbara G, Fedele L. Medical, surgical and alternative treatments for chronic pelvic pain in women: a descriptive review. *Gynecol Endocrinol*. 2009 Apr;25(4):208-21. Review.
- 179.8: Vercellini P, Somigliana E, **Vigano P**, Abbiati A, Barbara G, Fedele L. 'Blood On The Tracks' from corpora lutea to endometriomas. *BJOG*. 2009 Feb;116(3):366-71.
- 180.Vercellini P, Crosignani PG, Abbiati A, Somigliana E, **Viganò P**, Fedele L. The effect of surgery for symptomatic endometriosis: the other side of the story. *Hum Reprod Update*. 2009 Mar-Apr;15(2):177-88. Review.
- 181.Vercellini P, Somigliana E, **Viganò P**, Abbiati A, Barbara G, Crosignani PG. Surgery for endometriosis-associated infertility: a pragmatic approach. *Hum Reprod*. 2009 Feb;24(2):254-69.
- 182.Vercellini P, Somigliana E, Viganò P, De Matteis S, Barbara G, Fedele L. The effect of second-line surgery on reproductive performance of women with recurrent endometriosis: a systematic review. *Acta Obstet Gynecol Scand*. 2009;88(10):1074-82. Review.

## 2008

- 183.Fedele L, Somigliana E, Frontino G, Benaglia L, **Vigano P**. New drugs in development for the treatment of endometriosis. *Expert Opin Investig Drugs*. 2008 Aug;17(8):1187-202. Review.
- 184.Gentilini D, **Vigano P**, Carmignani L, Spinelli M, Busacca M, Di Blasio AM. Progesterone receptor +331G/A polymorphism in endometriosis and deep-infiltrating endometriosis. *Fertil Steril*. 2008 Oct;90(4):1243-5.
- 185.Vercellini P, Somigliana E, Daguati R, **Vigano P**, Meroni F, Crosignani PG. Postoperative oral contraceptive exposure and risk of endometrioma recurrence. *Am J Obstet Gynecol*. 2008 May;198(5):504.e1-5.
- 186.Vercellini P, Somigliana E, **Viganò P**, Abbiati A, Daguati R, Crosignani PG. Endometriosis: current and future medical therapies. *Best Pract Res Clin Obstet Gynaecol*. 2008 Apr;22(2):275-306. Epub 2007 Nov 26. Review.
- 187.Gentilini D, Somigliana E, **Vigano P**, Vignali M, Busacca M, Di Blasio AM. The vascular endothelial growth factor +405G>C polymorphism in endometriosis. *Hum Reprod*. 2008 Jan;23(1):211-5.

## 2007

188. **Vigano P**, Somigliana E, Vignali M, Busacca M, Blasio AM. Genetics of endometriosis: current status and prospects. *Front Biosci*. 2007 May 1;12:3247-55.
189. Vercellini P, Daguati R, Somigliana E, **Vigano P**, Lanzani A, Fedele L. Asymmetric lateral distribution of obstructed hemivagina and renal agenesis in women with uterus didelphys: institutional case series and a systematic literature review. *Fertil Steril*. 2007 Apr;87(4):719-24.
190. Gentilini D, Busacca M, Di Francesco S, Vignali M, **Vigano P**, Di Blasio AM. PI3K/Akt And ERK1/2 signalling pathways are involved in endometrial cell migration induced by 17{beta}-estradiol and growth factors. *Mol Hum Reprod*. 2007 May;13(5):317-22.
191. Lattuada D, **Vigano P**, Mangioni S, Sassone J, Di Francesco S, Vignali M, Di Blasio AM. Accumulation of retinoid X receptor-alpha in uterine leiomyomas is associated with a delayed ligand-dependent proteasome-mediated degradation and an alteration of its transcriptional activity. *Mol Endocrinol*. 2007 Mar;21(3):602-12. .
192. Torricelli M, De Falco G, Florio P, Rossi M, Leucci E, **Vigano P**, Leoncini L, Petraglia F. Secretory endometrium highly expresses urocortin messenger RNA and peptide possible role in the decidualization process. *Hum Reprod*. 2007 Jan;22(1):92-6.
193. Bianconi L, Hummelshoj L, Coccia ME, **Vigano P**, Vittori G, Veit J, Music R, Tomassini A, D'Hooghe T. Recognizing endometriosis as a social disease: the European Union-encouraged Italian Senate approach. *Fertil Steril*. 2007 Nov;88(5):1285-7.
194. Vercellini P, Abbiati A, **Viganò P**, Somigliana ED, Daguati R, Meroni F, Crosignani PG. Asymmetry in distribution of diaphragmatic endometriotic lesions: evidence in favour of the menstrual reflux theory. *Hum Reprod*. 2007 Sep;22(9):2359-67.
195. Florio P, Rossi M, **Viganò P**, Luisi S, Torricelli M, Torres PB, Di Blasio AM, Petraglia F. Interleukin 1beta and progesterone stimulate activin a expression and secretion from cultured human endometrial stromal cells. *Reprod Sci*. 2007 Jan;14(1):29-36.
196. **Viganò P**, Cintonino M, Schatz F, Lockwood CJ, Arcuri F. The role of macrophage migration inhibitory factor in maintaining the immune privilege at the fetal-maternal interface. *Semin Immunopathol*. 2007 Jun;29(2):135-50. Review.
197. Somigliana E, Panina-Bordignon P, Murone S, Di Lucia P, Vercellini P, **Vigano P**. Vitamin D reserve is higher in women with endometriosis. *Hum Reprod*. 2007 Aug;22(8):2273-8.
198. **Viganò P**, Somigliana E, Parazzini F, Vercellini P. Bias versus causality: interpreting recent evidence of association between endometriosis and ovarian cancer. *Fertil Steril*. 2007 Sep;88(3):588-93.

## 2006

199. **Viganò P**, Somigliana E, Chiodo I, Abbiati A, Vercellini P. Molecular mechanisms and biological plausibility underlying the malignant transformation of endometriosis :a critical analysis. *Hum Reprod Update*. 2006 Jan-Feb;12(1):77-89
200. Somigliana E, Vercellini P, **Viganò P**, Ragni G, Crosignani PG. Should endometriomas be treated before IVF-ICSI cycles? *Hum Reprod Update*. 2006 Jan-Feb;12(1):57-64.

201. Ferrari MM, Biondi ML, Rossi G, Grijuela B, Gaita S, Perugino G, **Viganò P**. Analysis of two polymorphisms in the promoter region of matrix metalloproteinase 1 and 3 genes in women with endometriosis. *Acta Obstet Gynecol Scand*. 2006;85(2):212-7.
202. Garavello W, Nicolini G, Aguzzi A, Maggioni D, Leone BE, **Viganò P**, Gaini RM, Tredici G. Selective reduction of extracellular signal-regulated protein kinase (ERK) phosphorylation in squamous cell carcinoma of the larynx. *Oncology Reports*. 2006; 16:479-84.
203. Arcuri F, Cintonino M, Carducci A, Papa S, Riparbelli MG, Mangioni S, Di Blasio AM, Tosi P, **Vigano P**. Human decidual natural killer cells as a source and target of macrophage migration inhibitory factor. *Reproduction*. 2006 Jan;131(1):175-82.
204. **Viganò P**, Lattuada D, Mangioni S, Ermellino L, Vignali M, Caporizzo E, Panina-Bordignon P, Besozzi M, Di Blasio AM. 1. Cycling and early pregnant endometrium as a site of regulated expression of the vitamin D system. *J Mol Endocrinol*. 2006 Jun;36(3):415-24.
205. Somigliana E, **Vigano' P**, Parazzini F, Stoppelli S, Giambattista E, Vercellini P. Association between endometriosis and cancer: a comprehensive review and a critical analysis of clinical and epidemiological evidence. *Gynecol Oncol*. 2006 May;101(2):331-41. Review.
206. Vercellini P, **Vigano P**, Somigliana E, Daguati R, Abbiati A, Fedele L. Adenomyosis: epidemiological factors. *Best Pract Res Clin Obstet Gynaecol*. 2006 Aug;20(4):465-77.
207. Daguati R, Somigliana E, **Vigano P**, Vercellini P. Progestogens and estroprogestins in the treatment of pelvic pain associated with endometriosis. *Minerva Ginecol*. 2006 Dec;58(6):499-510.

## 2005

208. Di Blasio AM, Di Francesco S, Abbiati A, **Vigano P**. Genetics of endometriosis. *Minerva Ginecol*. Jun;57(3):225-36, 2005
209. Vercellini P, **Viganò P**, Somigliana E. The role of the levonorgestrel-releasing intrauterine device in the management of symptomatic endometriosis. *Curr Opin Obstet Gynecol*. Aug;17(4):359-65, 2005
210. Mangioni S, **Viganò P**, Lattuada D, Abbiati A, Vignali M, Di Blasio AM. Overexpression of the Wnt5b gene in leiomyoma cells: implications for a role of the Wnt signaling pathway in the uterine benign tumor. *J Clin Endocrinol Metab*. 2005 Sep;90(9):5349-55
211. Mangioni S, **Viganò P**, Florio P, Borghi O, Vignali M, Petraglia F, Di Blasio AM. Effect of activin A on tumor necrosis factor-alpha/intercellular adhesion molecule-1 pathway in endometrial stromal cells. *Eur J Obstet Gynecol Reprod Biol*. Dec 1;123(2):218-23, 2005.
212. Chiodo I, Somigliana E, Riboldi P, Cecchini G, Di Blasio AM, **Vigano P**. Laparoscopic excision of ovarian cysts does not result in antiovarian humoral autoimmunity. *Fertil Steril*. Dec;84(6):1772-4, 2005.
213. Rossi M, Sharkey AM, **Vigano P**, Fiore G, Furlong R, Florio P, Ambrosini G, Smith SK, Petraglia F. Identification of genes regulated by interleukin-1beta in human endometrial stromal cells. *Reproduction*. Nov;130(5):721-9, 2005.

214. Garavello W, **Vigano P**, Romagnoli M, Sordo L, Berti E, Tredici G, Gaini RM. Expression of cell cycle regulatory proteins and analysis of apoptosis in normal nasal mucosa and in nasal polyps. *Am J Rhinol*. 2005 Nov-Dec;19(6):549-53.
215. **Vigano P**, Lattuada D, Somigliana E, Abbiati A, Candiani M, Di Blasio AM. Variants of the CTLA4 gene that segregate with autoimmune diseases are not associated with endometriosis. *Mol Hum Reprod*. 2005 Oct;11(10):745-9.

#### 2004

216. Lattuada D, **Vigano P**, Somigliana E, Odorizzi MP, Vignali M, Di Blasio AM. Androgen receptor gene cytosine, adenine, and guanine trinucleotide repeats in patients with endometriosis. *J Soc Gynecol Investig*. May;11(4):237-40, 2004.
217. Somigliana E, **Vigano P**, Tirelli AS, Felicetta I, Torresani E, Vignali M, Di Blasio AM. Use of the concomitant serum dosage of CA 125, CA 19-9 and interleukin-6 to detect the presence of endometriosis. Results from a series of reproductive age women undergoing laparoscopic surgery for benign gynaecological conditions. *Hum Reprod*. 2004.
218. Reina M, Broccia ML, Menegola E, Di Blasio AM, **Vigano P**, Giavini E. Effects of interleukin-12 administration during the pre- and peri-implantation period on mouse embryofetal development. *Am J Reprod Immunol*. May;51(5):345-51, 2004.
219. **Vigano P**, Parazzini F, Somigliana E, Vercellini P. Endometriosis: epidemiology and aetiological factors. *Best Pract Res Clin Obstet Gynaecol*. Apr;18(2):177-200, 2004.
220. Lattuada D, **Vigano P**, Somigliana E, Abbiati A, Candiani M, Di Blasio AM. Analysis of the codon 72 polymorphism of the TP53 gene in patients with endometriosis. *Mol Hum Reprod*. 2004 Sep;10(9):651-4.
221. Lattuada D, Somigliana E, **Vigano P**, Candiani M, Pardi G, Di Blasio AM. Genetics of endometriosis: a role for the progesterone receptor gene polymorphism PROGINS? *Clin Endocrinol (Oxf)*. 2004 Aug;61(2):190-4.
222. Lattuada D, Mangioni S, **Vigano P**, Ntrivalas EI, Rossi M, Palotti F, Carinelli S, Beaman KD, Di Blasio AM. The placental immunomodulatory cytokine Regeneration and Tolerance Factor is also expressed by both human cycling and early pregnant endometrium. *Am J Reprod Immunol*. 2004 52:224-31.

#### 2003

223. **Vigano P**, Infantino M, Lattuada D, Lauletta R, Ponti E, Somigliana E, Vignali M, Di Blasio AM. Intercellular Adhesion Molecule-1 (ICAM-1) gene polymorphisms in endometriosis. *Mol. Hum. Reprod*. 2003, 9:47-52.
224. Somigliana E, Chiodini A, Odorizzi MP, Pompei F, **Vigano P**. The therapy of endometriosis. New prospects. *Minerva Ginecol*. 2003; 55(1):15-23.
225. Mihalich A, Reina M, Mangioni S, Ponti E, Alberti L, **Vigano P**, Vignali M, Di Blasio AM. Different Basic Fibroblast Growth Factor and Fibroblast Growth Factor-Antisense Expression in Eutopic Endometrial Stromal Cells Derived from Women with and without Endometriosis. *J Clin Endocrinol Metab*. 2003; 88(6):2853-9.
226. **Vigano P**; D'après la communication de. Perspectives on endometriosis: new physiopathologic approaches and treatments. *J Gynecol Obstet Biol Reprod*
227. (Paris). 2003 Dec;32(8 Pt 2):S28-31.



228. Penotti M, Fabio E, Bacchi Modena A, Rinaldi M, Omodei U, **Viganò P**. Effect of soy-derived isoflavones on hot flushes, endometrial thickness, and the pulsatility index of the uterine and cerebral arteries. *Fertil. Steril.* 2003; 79: 1112-1117.
229. Bucceri A, Somigliana E, Matrone R, Uberti-Foppa C, **Viganò P**, Vignali M. Discontinuing combination antiretroviral therapy during the first trimester of pregnancy: insights from plasma human immunodeficiency virus-1 RNA viral load and CD4 cell count. *Am J Obstet Gynecol.* 2003, 189(2):545-51.
230. **Viganò P**, Mangioni S, Pompei F, Chiodo I. Maternal-conceptus Cross Talk-A Review. *Placenta.* 2003, 24, Suppl 2:S56-61.
231. **Viganò P**, Mangioni S, Odorizzi M.P. Chiodini A, Rocca S, Chiodo I. Use of estrogen antagonists and aromatase inhibitors in endometriosis. *Curr. Opin. Inv. Drugs* 2003, 10: 1209-1212.

## 2002

232. **Viganò P**, Somigliana E, Matrone R, Dubini A., Barron C., Vignali M., Di Blasio A. Serum leptin concentrations in endometriosis, *J. Clin. Endocrinol. Met.* 87(3), 1085-7, 2002.
233. Reis FM, **Viganò P**, Arnaboldi E, Spritzer PM, Petraglia F, Di Blasio AM. Expression of prolactin-releasing peptide and its receptor in the human decidua. *Mol. Hum. Reprod.* 8(4), 356-362, 2002.
234. Somigliana E, **Viganò P**, Candiani M, Felicetta I, Di Blasio AM, Vignali M. Use of serum-soluble intercellular adhesion molecule-1 as a new marker of endometriosis. *Fertil Steril.* 2002, 77(5):1028-31.
235. Vignali M, Infantino M, Matrone R, Somigliana E, Chiodo, I, Busacca M, **Viganò P**. Endometriosis: novel etiopathogenetic concepts and clinical perspective. *Fertil Steril* 2002, 78:665-678.
236. **Viganò P**, Somigliana E, Mangioni S, Vignali M, Vignali M, Di Blasio AM. Expression of IL-10 and Its Receptor are Up-Regulated in Early Pregnant versus Cycling Human Endometrium. *J. Clin. Endocrinol. Met.* 2002, 87:5730-5736.
237. Lauletta R, Chiodo I, Chiodini A, Odorizzi MP, Pompei F, **Viganò P**. Aspetti moderni dell'infertilità maschile. *Contrac. Fertil. Sess.* 2002, 29:151-159.
238. Busacca M, Fusi F, Brigante C, Doldi N, Smid M, **Viganò P**. Evaluation of antisperm antibodies in infertile couples with Immunobead test: prevalence and prognostic value. *Acta Eur. Fertil.* 20: 23, 1989.
239. Fusi F, **Viganò P**, Ossi C, Doldi N, Brigante C, Busacca M. Un nuovo ELISA per la determinazione degli anticorpi antisperma. *Contraccezione, fertilità, sessualità.* 16: 585, 1989.
240. Fusi F, **Viganò P**, Doldi N, Brigante C, Busacca M. Comparison between Immunobead test, Indirect Immunofluorescence and a quantitative ELISA for the diagnosis of antisperm antibodies. *Acta Eur. Fertil.* 20: 77, 1989.

## 2001

241. Somigliana E, **Viganò P**, Filardo P, Candiani M, Vignali M, Panina-Bordignon P. Use of knock-out transgenic mice in the study of endometriosis: insight from mice lacking beta2-microglobulin and interleukin-12p40. *Fertil. Steril.* 75, 203-206, 2001.
242. Somigliana E, **Viganò P**, La Sala G.B., Balasini M., Candiani M., Incerti L., Busacca M., Vignali M. Follicular fluid as a favourable environment for endometrial and endometriotic cell growth in vitro. *Hum. Reprod.* 16, 1076-1080, 2001.
243. Somigliana E, **Viganò P**, Ranieri S, Filardo P, Zingrillo B, Candiani M, Vignali M. Induction of endometriosis in the mouse inhibits spleen leukocyte function. *Acta Obstet. Gynecol. Scand.* 80, 200-205, 2001.
244. **Viganò P**, Somigliana E, Di Blasio AM, Cozzolino S, Candiani M, Vignali M. Suppression of natural killer cell function and production of soluble ICAM-1: Endometrial stroma versus melanoma. *Am. J. Reprod. Immunol.* 46, 342-348, 2001.
245. Penotti M, Sironi L, Cannata L, **Viganò P**, Casini A, Gabrielli L, Vignali M. Effects of androgen supplementation of hormone replacement therapy on the vascular reactivity of cerebral arteries. *Fertil. Steril.* 76, 235-240, 2001.
246. **Viganò P**, Gaffuri B, Somigliana E, Infantino M, Vignali M, Di Blasio AM. Interleukin-10 is produced by human uterine natural killer cells but does not affect their production of interferon-gamma. *Mol. Hum. Reprod.* 7, 971-977, 2001.
247. Somigliana E, Candiani M, Vignali M, **Viganò P**. Impaired natural killer cell activity in endometriosis?-A technical challenge for validation. (Letters to the Editor) *Fertil. Steril.* 76, 422-423, 2001.

## 2000

248. **Viganò P**, Somigliana E, Gaffuri B, Santorsola R, Busacca M, Vignali M. Endometrial release of Soluble Intercellular Adhesion Molecule-1 and endometriosis: relationship to the extent of the disease. *Obstet. Gynecol.* 95, 115-118, 2000.
249. Borroni R, Di Blasio AM, Gaffuri B, Santorsola R, Busacca M, **Viganò P**, Vignali M. Expression of GnRH receptor gene in human ectopic endometrial cells and inhibition of their proliferation by leuprolide acetate. *Mol. Cell. Endocrinol.* 159, 37-43, 2000.
250. Gaffuri B, Airolidi L, Di Blasio AM, **Viganò P**, Miragoli AM, Santorsola R, Vignali M. Unexplained habitual abortion is associated with a reduced endometrial release of soluble intercellular adhesion molecule-1 in the luteal phase of the cycle. *Eur J Endocrinol.* 142, 477-80, 2000.

## 1999

251. Somigliana E, **Viganò P**, Vignali M. Endometriosis and unexplained recurrent spontaneous abortion: pathological states resulting from aberrant modulation of natural killer cell function? *Hum. Reprod. Update* 5, 40-51, 1999.
252. Di Blasio AM, **Viganò P**, Gaffuri B, Santorsola R, Cozzolino S, Vignali M. Immune-endometrial cell interactions: regulatory molecules and modulating cytokines. *Gynecol. Endocrinol.* 13 (Suppl. 2): 59-60, 1999.
253. Somigliana E, **Viganò P**, Rossi G, Carinelli S, M. Vignali, P. Panina-Bordignon. Endometrial ability to implant in ectopic sites can be prevented by Interleukin-12 in a murine model of endometriosis. *Hum. Reprod.* 14, 2944-2949, 1999.

1998

254. Airolidi L, Gaffuri B, Rossi G, Iurlaro E, Nozza A, **Viganò P**, Vignali M. Soluble Intercellular Adhesion Molecule-1 serum profile in physiologic and preeclamptic pregnancy. *Am. J. Reprod. Immunol.* 39, 183-188, 1998.
255. Mazzeo D, **Viganò P**, Di Blasio AM, Sinigaglia F, Vignali M, Panina-Bordignon P. Interleukin-12 and its free p40 subunit regulate immune recognition of endometrial cells: potential role in endometriosis. *J. Clin. Endocrinol. Metab.* 83: 911-916, 1998.
256. Florio P, Busacca M, Vignali M, **Viganò P**, Woods RJ, Lowry PJ, Genazzani AR, Luisi S, Santuz M, Petraglia F. Peritoneal fluid levels of immunoreactive corticotropin-releasing factor (CRF) and CRF-binding protein (CRF-BP) in healthy and endometriotic women. *J. Endocrinol. Invest.* 21:37-42, 1998.
257. Gaffuri B, **Viganò P**, Nozza A, Gornati G, Di Blasio AM, Vignali M. Expression of Intercellular Adhesion Molecule-1 messenger ribonucleic acid and protein in human term placental cells and its modulation by pro-inflammatory cytokines (Interleukin-1 $\beta$  and tumor necrosis factor- $\alpha$ ). *Biol. Reprod.* 58:1003-1008, 1998.
258. **Viganò P**, Fusi F, Gaffuri B, Bonzi V, Ferrari A, Vignali M. Soluble intercellular adhesion molecule-1 in ovarian follicles: production by granulosa luteal cells and levels in follicular fluid. *Fertil. Steril.* 69:774-779, 1998.
259. Petraglia F, Florio P, Luisi S, Gallo R, Gadducci A, **Viganò P**, Di Blasio AM, Genazzani AR, Vale W. Expression and secretion of inhibin and activin in normal and neoplastic uterine tissues. High levels of serum activin A in women with endometrial and cervical carcinoma. *J. Clin. Endocrinol. Metab.* 83: 1194-1200, 1998.
260. Florio P, Luisi S, **Viganò P**, Busacca M, Fadalti M, Genazzani AR, Petraglia F. Healthy women and patients with endometriosis show high concentrations of inhibin A, inhibin B and activin A in peritoneal fluid throughout the menstrual cycle. *Hum. Reprod.* 13, 2606-2611, 1998.
261. **Viganò P**, Gaffuri B, Somigliana E, Busacca M, Di Blasio AM, Vignali M. Expression of Intercellular Adhesion Molecule (ICAM)-1 mRNA and protein is enhanced in endometriosis versus endometrial stromal cells in culture. *Mol. Hum. Reprod.* 48, 1150-1156, 1998.

1997

262. **Viganò P**, Gaffuri B, Ragni G, Di Blasio AM, Vignali M. Intercellular adhesion molecule (ICAM)-1 is expressed on human granulosa cells and mediates their interaction with lymphoid cells. *J. Clin. Endocrinol. Metab.* 82:101-105, 1997.
263. Magri B, **Viganò P**, Rossi G, Somigliana E, Gaffuri B, Vignali M. Comparative effect of the calcium antagonist Verapamil and synthetic steroids Gestrinone and Danazol on human monocyte phagocytosis in vitro. *Gynecol. Obstet. Invest.* 43: 6-10, 1997.
264. Di Blasio AM, Pecori Giraldi F, **Viganò P**, Petraglia F, Vignali M, Cavagnini F. Expression of corticotropin-releasing hormone and its R1 receptor in human endometrial stromal cells. *J. Clin. Endocrinol. Metab.* 82:1594-1597, 1997.
265. Di Blasio AM, Carniti C, **Viganò P**, Florio P, Petraglia F, Vignali M. Basic Fibroblast Growth Factor Messenger Ribonucleic Acid Levels in Human Placentas from Normal and Pathological Pregnancies. *Mol. Hum. Reprod.* 3: 1119-1123, 1997.

**1996**

- 266.Somigliana E, **Viganò P**, Gaffuri B, Guarneri D, Busacca M, Vignali M. Endometrial stromal cells as a source of Intercellular adhesion molecule (ICAM)-1 molecules. *Hum. Reprod.* 11: 1190-1194, 1996.
- 267.Di Blasio AM, Carniti C, **Viganò P**, Gaffuri B, Vignali M. Basic Fibroblast Growth Factor in female reproductive neoplasms. *Gynecol. Endocrinol.* 10 (Suppl. 4): 75-76, 1996.
- 268.Somigliana E, **Viganò P**, Gaffuri B, Candiani M, Busacca M, Di Blasio AM, Vignali M. Modulation of natural killer lytic function by endometrial secretory factors: potential role in endometriosis. *Am. J. Reprod. Immunol.* 36: 295-300, 1996

**1995**

- 269.Di Blasio AM, Carniti C, **Viganò P**, Vignali M. Basic Fibroblast Growth Factor and ovarian cancer. *J. Steroid. Biochem. Molecol. Biol.* 53: 375-379, 1995.
- 270.Di Blasio AM, Centinaio G, Carniti C, Somigliana E, **Viganò P**, Vignali M. Basic Fibroblast Growth Factor ribonucleic acid levels in eutopic and ectopic human endometrial stromal cells as assessed by competitive polymerase chain reaction amplification. *Mol. Cell. Endocrinol.* 115: 169-175, 1995.

**1994**

- 271.**Viganò P**, Di Blasio AM, Busacca M, Vignali M. Immunosuppressive effect of danazol on lymphocyte-mediated cytotoxicity toward human endometrial stromal cells. *Gynecol. Endocrinol.* 8: 13, 1994.
- 272.Di Blasio AM, **Viganò P**, Ferrari A. Insulin-like growth factor II stimulates human granulosa cell proliferation in vitro. *Fertil. Steril.* 61: 483,1994.
- 273.Fusi FM, **Viganò P**, D' Averio R, Busacca M, Vignali M. Effects of the coculture with human endometrial cells on the function of spermatozoa from subfertile men. *Fertil. Steril.* 61: 160,1994.
- 274.**Viganò P**, Magri B, Di Blasio AM, Busacca M, Vignali M. Gestrinone inhibits macrophage function and mitogen-stimulated lymphocyte proliferation in vitro. *J. Reprod. Immunol.* 27: 63-71,1994.
- 275.**Viganò P**, Pardi R, Magri B, Busacca M, Di Blasio AM, Vignali M. Expression of Intercellular Adhesion Molecule-1 (ICAM-1) on cultured human endometrial stromal cells and its role in the interaction with natural killers. *Am. J. Reprod. Immunol.* 32:139-145,1994.
- 276.Busacca M, **Viganò P**, Magri B, Vignali M. The adhesion molecules of human endometrial stromal cells. Immunological implications. *Ann. N.Y. Acad. Scie.* 734: 43-46,1994.

**1993**

- 277.**Viganò P**, Di Blasio AM, Dell' Antonio G, Vignali M. Culture of human endometrial cells: a new simple technique to completely separate epithelial glands. *Acta Obstet. Gynecol. Scand.* 72:87,1993.

278. Di Blasio AM, Cremonesi L, **Viganò P**, Ferrari M, Gospodarowicz D, Vignali M, Jaffe RB. Basic fibroblast growth factor mRNA is expressed in human ovarian epithelial neoplasms. *Am. J. Obstet. Gynecol.* 169:1517, 1993.
279. Di Blasio AM, **Viganò P**, Cremonesi L, Carniti C, Ferrari M, Ferrari A. Expression of the genes encoding basic fibroblast growth factor and its receptor in human granulosa cells. *Mol. Cell. Endocrinol.* 96, R7-R11, 1993.
280. **Viganò P**, Vercellini P, Di Blasio AM, Colombo A, Candiani GB, Vignali M. "Killer Cells" and endometriosis. (Letters to the Editor) *Fertil. Steril.* 60: 928, 1993.
281. Busacca M, **Viganò P**, Di Blasio AM, Borroni R. Effetto del gestrinone sulla proliferazione linfocitaria in vitro. *Contrac. Fert. Sess.* 20: 473-476, 1993.

#### 1992


282. **Viganò P**, Di Blasio AM, Busacca M, Sabbadini MG, Vignali M. Danazol suppresses both spontaneous and activated human lymphocyte-mediated cytotoxicity. *Am. J. Reprod. Immunol.* 28:38, 1992.

#### 1991

283. Banfi G, Murone M, **Viganò P**, Brigante C, Bonini PA. Tumor-associated trypsin inhibitor as a possible marker in male infertility. *Scand. J. Clin. Lab. Invest.* 51 (Suppl 207): 51, 1991.
284. **Viganò P**, Vercellini P, Di Blasio AM, Colombo A, Candiani GB, Vignali M. Deficient antiendometrium lymphocyte-mediated cytotoxicity in patients with endometriosis. *Fertil. Steril.* 56: 894-839, 1991.
285. **Viganò P**, Fusi FM, Brigante C, Busacca M, Vignali M. Immunomagnetic separation of antibody-labelled from antibody-free human spermatozoa as a treatment for immunologic infertility. A preliminary report. *Andrologia* 23:367, 1991.

#### 1990

286. **Viganò P**, Brigante C, Gonfiantini C, Doldi N, Busacca M. Which is the best test to evaluate the integrity of sperm plasma membrane? *Acta. Eur. Fertil.* 21: 231, 1990.



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