PERSONAL INFORMATION **LAURA GOVERNINI**

Dipartimento Medicina Molecolare e dello Sviluppo – Viale Bracci, Siena, Italy

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laura.governini@unisi.it

Gender: Female | *Date of birth* 04/08/1984 | *Nationality: Italiana*

RESEARCHER AT DEFINED TIME, TYPE A (RTD-A) – UNIVERSITY OF SIENA

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☒ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 01/01/2022 – CURRENT: **JUNIOR RESEARCHER DEFINED TIME TYPE A (RTD-A), SSD BIO/13, APPLIED BIOLOGY** - DEPT. OF MOLECULAR AND DEVELOPMENTAL MEDICINE - UNIVERSITY OF SIENA, SIENA, ITALY
- 2017 – 2021 – **TEMPORARY POST DOC RESEARCH FELLOW** - DEPT. OF MOLECULAR AND DEVELOPMENTAL MEDICINE - UNIVERSITY OF SIENA, SIENA, ITALY

EDUCATION AND TRAINING

- 2008 – 2012: PhD in "Biology of Germinal Cells" (Medical Biotechnology Doctoral School - XXIV cicle), with thesis "*Identification of new players involved in male infertility. Molecular, biochemical and morphological studies in the mouse model of Krabbe disease*"
  Dept. of Biomedical Sciences, section Applied Biology - University of Siena - Siena, Italy
- 2009: Qualification to Biologist profession
  University of Siena - Siena, Italy
- 2006 – 2008: Magistral doctor in Biotechnology for Human Health – medical curriculum (110/110 cum laude) whit thesis "*Valutazione degli effetti della contaminazione ambientale da composti perfluorurati sulla fertilità umana*"
  Dept. of Biomedical Sciences, section Applied Biology - University of Siena - Siena, Italy
- 2003 – 2006: Doctor in Biotechnology (110/110 cum laude) whit thesis "*Studio funzionale del recettore PAR-4 su cellule di linea megacarioblastica*"
  Dept. of Human Physiology - University of Siena - Siena, Italy

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**
Other language(s):
ENGLISH
LISTENING B2 READING B2 WRITING B2; SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

JOB RELATED SKILLS (RELEVANT FOR THIS PROJECT)

- **Main activities and responsibilities:**
  - Biology of Human Reproduction
  - Extracellular vesicles in cell-to cell communication
  - Cellular and molecular mechanism regulating the physiology and pathology of male gametes
  - Male infertility and infection
  - Endometrial function in physiology and pathology
  - Human embryo implantation: molecular signaling in the endometrial receptivity
- **Specific Skills:**
  - Molecular Biology skills: Genomic DNA extraction, total RNA extraction, ddPCR, RT-PCR, site-directed mutagenesis, manual and automated DNA sequencing, Real Time and High Resolution Melt (HRM). Analysis of polymorphisms.
  - Cell Biology skills: Cell proliferation assay and cell culture. Preparation of primary cultures from endometrial biopsy, set-up of 3D culture model.
  - Protein skills: Protein purification, SDS-PAGE, Western blot and ELISA
  - Microscopy: Light microscopy, Fluorescence microscopy and Transmission electron microscopy
  - Data Analysis: Excel, Power-point, Photoshop, Image J, PRISM, DNA; RNA and protein database

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Microsoft Office | Social Media | Skype | Zoom | Good listener and communicator | Team-work oriented | Organizational and planning skills | Written and Verbal skills | Decision-making | Motivated

BIBLIOMETRIC INDICES

- Author or co-author of 29 peer reviewed articles in international journals
- Metrics overview:
  ORCID 0000-0001-5610-9548

Scopus (https://www.scopus.com/authid/detail.uri?authorId=36647586800) H-index: 9 - Citations: 184
Web of Science (https://www.webofscience.com/wos/author/record/3510974)
Googlescholar (https://scholar.google.com/citations?user=Wsyly-0AAAAJ&hl=it)

RESEARCH PROJECTS

- 2020 – CURRENT: (PARTECIPANT) **FERRING COVID-19 INVESTIGATIONAL GRANTS in Reproductive Medicine and Maternal Health**
- 2020 – CURRENT: (PARTECIPANT) **FERRING COVID-19 INVESTIGATIONAL GRANTS in Reproductive Medicine and Maternal Health**
- 2016 – 2020: (PARTECIPANT) **GRANT FOR FERTILITY INNOVATION PARTECIPANT - GFI,** in the project entitled "*Exosomal profile of the receptive endometrium: a source of non-invasive biomarkers for guiding of a successuful embryo implantation*"

PUBLICATIONS (MOST RELEVANT FOR THE PROJECT)

- **Oxidative Stress Measurement in Frozen/Thawed Human Sperm: The Protective Role of an In Vitro Treatment with Myo-Inositol.** Ponchia R, Bruno A, Renzi A, Landi C, Shaba E, Luongo FP, Haxhiu A, Artini P, Luddi A, Governini L, Piomboni P. Antioxidants. 2021 Dec 22;11(1):10. doi: 10.3390/antiox11010010.
- **Bitter Taste Receptors Expression in Human Granulosa and Cumulus Cells: New Perspectives in Female Fertility**. Semplici B, Luongo FP, Passaponti S, Landi C, Governini L, Morgante G, De Leo V, Piomboni P, Luddi A. Cells. 2021 Nov 11;10(11):3127. doi: 10.3390/cells10113127.
- **Main actors behind the endometrial receptivity and successful implantation.** Governini L, Luongo FP, Haxhiu A, Piomboni P, Luddi A. Tissue & Cell. 2021 Sep 29;73:101656. doi: 10.1016/j.tice.2021.101656.
- **Extracellular matrix remodeling and inflammatory pathway in human endometrium: insights from uterine leiomyomas.** Governini L, Marrocco C, Semplici B, Pavone V, Belmonte G, Luisi S, Petraglia F, Luddi A, Piomboni P. Fertility and Sterility. 2021 Jul 10:S0015-0282(21)00523-9. doi: 10.1016/j.fertnstert. 2021.06.023.
- **Telomere Length and Male Fertility.** Gentiluomo M, Luddi A, Cingolani A, Fornili M, Governini L, Lucenteforte E, Baglietto L, Piomboni P, Campa D. International Journal of Molecular Sciences. 2021 Apr 12;22(8):3959. doi: 10.3390/ijms22083959.
- **Emerging role of embryo secretome in the paracrine communication at the implantation site: a proof of concept.** Luddi A, Pavone V, Governini L, Capaldo A, Landi C, Ietta F, Paccagnini E, Morgante G, De Leo V, Piomboni P. Fertility and Sterility. 2021 Apr;115(4):1054-1062. doi: 10.1016/j.fertnstert.2020.10.058.
- **Characterization of the Age-Dependent Changes in Antioxidant Defenses and Protein's Sulfhydryl/Carbonyl Stress in Human Follicular Fluid.** Luddi A, Governini L, Capaldo A, Campanella G, De Leo V, Piomboni P, Morgante G. Antioxidants (Basel). 2020 Sep 28;9(10):927. doi: 10.3390/antiox9100927.
- **Relationship between the metabolic and lipid profile in follicular fluid of women undergoing in vitro fertilization.** Luti S, Fiaschi T, Magherini F, Modesti PA, Piomboni P, Governini L, Luddi A, Amoresano A, Illiano A, Pinto G, Modesti A, Gamberi T. Molecular Reproduction and Development. 2020 Sep;87(9):986-997. doi: 10.1002/mrd.23415.
- **Respiratory Mitochondrial Efficiency and DNA Oxidation in Human Sperm after In Vitro Myo-Inositol Treatment.** Governini L, Ponchia R, Artini PG, Casarosa E, Marzi I, Capaldo A, Luddi A, Piomboni P. Journal of Clinical Medicine. 2020 May 28;9(6):1638. doi: 10.3390/jcm9061638.
- **Organoids of Human Endometrium: A Powerful In Vitro Model for the Endometrium-Embryo Cross-Talk at the Implantation Site.** Luddi A, Pavone V, Semplici B, Governini L, Criscuoli M, Paccagnini E, Gentile M, Morgante G, Leo V, Belmonte G, Zarovni N, Piomboni P. Cells. 2020 Apr 30;9(5):1121. doi:10.3390/cells9051121.
- **Expression of Matrix Metalloproteinases and Their Inhibitors in Endometrium: High Levels in Endometriotic Lesions.** Luddi A, Marrocco C, Governini L, Semplici B, Pavone V, Luisi S, Petraglia F, Piomboni P. International Journal of Molecular Sciences. 2020 Apr 18;21(8):2840. doi: 10.3390/ijms21082840.
- **Expression of Taste Receptor 2 Subtypes in Human Testis and Sperm.** Governini L, Semplici B, Pavone V, Crifasi L, Marrocco C, De Leo V, Arlt E, Gudermann T, Boekhoff I, Luddi A, Piomboni P. Journal of Clinical Medicine. 2020 Jan 18;9(1):264. doi: 10.3390/jcm9010264.
- **Increased expression of neurogenic factors in uterine fibroids.** Luddi A, Marrocco C, Governini L, Semplici B, Pavone V, Capaldo A, Tosti C, Greco S, Luisi S, Ciarmela P, Petraglia F, Piomboni P. Human Reproduction. 2019 Nov 1;34(11):2153-2162. doi: 10.1093/humrep/dez182.
- **Clues to Non-Invasive Implantation Window Monitoring: Isolation and Characterisation of Endometrial Exosomes.** Luddi A, Zarovni N, Maltinti E, Governini L, Leo V, Cappelli V, Quintero L, Paccagnini E, Loria F, Piomboni P. Cells. 2019 Aug 1;8(8):811. doi: 10.3390/cells8080811.
- **Taste Receptors: New Players in Sperm Biology.** Luddi A, Governini L, Wilmskötter D, Gudermann T, Boekhoff I, Piomboni P. International Journal of Molecular Sciences. 2019 Feb 22;20(4):967. doi: 10.3390/ijms20040967.
- **Single nucleotide polymorphisms of USP26 in azoospermic men.** Luddi A, Crifasi L, Quagliarello A, Governini L, De Leo V, Piomboni P. System Biology in Reproductive Medicine. 2016 Dec;62(6):372-378. doi:10.1080/19396368.2016.1238116.
- **Morphological and molecular characterisation of Twitcher mouse spermatogenesis: an update.** Puggioni E, Governini L, Gori M, Belmonte G, Piomboni P, Costantino-Ceccarini E, Luddi A. Reproduction Fertility and Development. 2015 Feb 10. doi: 10.1071/RD14279.
- **Chromosomal aneuploidies and DNA fragmentation of human spermatozoa from patients exposed to perfluorinated compounds.** Governini L, Guerranti C, De Leo V, Boschi L, Luddi A, Gori M, Orvieto R, Piomboni P. Andrologia. 2015 Nov;47(9):1012-9. doi: 10.1111/and.12371.
- **FOXL2 in human endometrium: hyperexpressed in endometriosis.** Governini L, Carrarelli P, Rocha AL, Leo VD, Luddi A, Arcuri F, Piomboni P, Chapron C, Bilezikjian LM, Petraglia F. Reproductive Sciences. 2014 Oct;21(10):1249-55. doi: 10.1177/1933719114522549.
- **New players in the infertility of a mouse model of lysosomal storage disease: the hypothalamus-pituitary-gonadal axis.** Piomboni P, Governini L, Gori M, Puggioni E, Costantino-Ceccarini E, Luddi A. Frontiers in Endocrinology (Lausanne). 2014 Jan 6;4:204. doi: 10.3389/fendo.2013.00204.
- **Quantification of psychosine in the serum of twitcher mouse by LC-ESI tandem-MS analysis.** Zanfini A, Dreassi E, Berardi A, Governini L, Corbini G, Costantino-Ceccarini E, Balestri P, Luddi A. Journal of Pharmaceutical and Biomedical Analysis. 2013 Jun;80:44-9. doi: 10.1016/j.jpba.2013.02.039.
- **The impact of environmental exposure to perfluorinated compounds on oocyte fertilization capacity.** Governini L, Orvieto R, Guerranti C, Gambera L, De Leo V, Piomboni P. Journal of Assisted Reproduction and Genetics. 2011 May;28(5):415-8. doi: 10.1007/s10815-011-9548-2.
- **Successful multiple pregnancy achieved after transfer of frozen embryos obtained via intracytoplasmic sperm injection with testicular sperm from an AZFc-deleted man.** Gambera L, Governini L, De Leo V, Luddi A, Morgante G, Tallis V, Piomboni P. Fertility and Sterility. 2010 Nov;94(6):2330.e1-3. doi: 10.1016/j.fertnstert.2010.03.069.

"According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV."