

CURRICULUM VITAE

Paola Grimaldi

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Education:

1985: Doctor cum Laude in Biological Sciences, University of Rome La Sapienza.
1992: PhD in Morphogenetic and Cytological Science, University of Rome La Sapienza.
1994-2014: Assistant Professor/Researcher at University of Rome Tor Vergata.
2015-now: Associate Professor of Human Anatomy, University of Rome Tor Vergata.
2018: Eligibility as a Full Professor in the 05-H1 BIO/16.

Professional Experience:

1985-1986: Research Fellowship by ISS-CNR, Dept. of Cell Biology, ISS
1986-1987: Research Fellowship by the AIRC, Dept. of Cell Biology, ISS
1988-1992: PhD student in Morphogenetic and Cytological Science, University of Rome La Sapienza.
1992-1994: Post-doc at the at the Dept. of Public Health and Cell biology, section of Human Anatomy, University of Rome Tor Vergata.
1994-to 2014: Researcher/ Assistant Professor of Human Anatomy at the Dept. of Biomedicine and Prevention, University of Rome Tor Vergata.
From 2015: Associate Professor of Human Anatomy at the Dept. of Biomedicine and Prevention, University of Rome Tor Vergata.
Member of the committee of the PhD program in Developmental Biology and Reproduction of the University of Rome Tor Vergata.
Member of Society of Human Anatomy

Teaching: Courses of Human Anatomy in School of Medicine and School of Dental Medicine, University of Rome "Tor Vergata"; School of Dental Medicine, University of Tirana, Albania.
Tutorship of student of the School of Medicine of the University of Rome Tor Vergata and tutor of PhD students

Scientific Experience and Interests

The main interests are centered around reproduction and central nervous system.

- a) *Hormonal dependent gene expression in mouse Sertoli cells.*
- b) *Intrinsic and extrinsic factors that regulate proliferation and differentiation of mouse germ cells.*
- c) *The endocannabinoid system in male and female reproduction.*
- d) *Impact of lifestyle factors on the well-being.*

Publications (last 10 years).

1. A Zucchi, E Innocenzi, A Onorato, A Colopi, S Dolci, GRIMALDI P (2023). P-600 cannabinoids exposure during pregnancy affects female offsprings reproduction. HUMAN REPRODUCTION, vol. 38, ISSN: 0268-1161, doi: 10.1093/humrep/dead093.929
2. Fuda S, Angelini D F, Colopi A, Guida E, Onorato A, GRIMALDI P, Travaglini S, Jannini EA, Dolci S (2023). A minimal promoter region of Kit gene recapitulates mast cell differentiation in development, aging and inflammation. MECHANISMS OF AGEING AND DEVELOPMENT, vol. 212, ISSN: 0047-6374
3. M Barchi, E Guida, S Dolci, P Rossi, Grimaldi P (2023). Endocannabinoid system and epigenetics in spermatogenesis and testicular cancer. VITAMINS AND HORMONES, ISSN: 0083-6729, doi: 10.1016/bs.vh.2023.01.002

4. Zucchi A, Innocenzi E, Onorato A, Dolci S, Colopi A, Balistreri CR, Grimaldi P (2023). PRENATAL EXPOSURE TO CB2 RECEPTORS AGONIST DIFFERENTIALLY IMPACTS MALE AND FEMALE GERM CELLS VIA HISTONE MODIFICATION. MECHANISMS OF AGEING AND DEVELOPMENT, ISSN: 0047-6374, doi: 10.1016/j.mad.2023.111840.
5. GRIMALDI P (2022). Cannabis and male reproduction: Impact on offspring via sperm epigenome. BIOCELL, vol. 46, p. 301-304, ISSN: 0327-9545
6. Barchi, M, Bielli, P, Dolci, S, Rossi, P, GRIMALDI P (2021). Non-coding RNAs and splicing activity in testicular germ cell tumors. LIFE, vol. 11, ISSN: 2075-1729
7. Innocenzi, E, Cariati, I, De Domenico, E, Tiberi, E, D'Arcangelo, G, Verdile, V, Paronetto, M P, Tancredi, V, Barchi, M, Rossi, P, Sette, C, Grimaldi, P (2021). Aerobic exercise induces alternative splicing of neurexins in frontal cortex. JOURNAL OF FUNCTIONAL MORPHOLOGY AND KINESIOLOGY, vol. 6, 48, ISSN: 2411-5142
8. Caggiano C., Cavallo F., Giannattasio T., Cappelletti G., Rossi P., Grimaldi P., Feldman D. R., Jasin M., Barchi M. (2021). Testicular germ cell tumors acquire cisplatin resistance by rebalancing the usage of DNA repair pathways. CANCERS, vol. 13, p. 1-24, ISSN: 2072-6694, doi: 10.3390/cancers13040787
9. Caggiano C., Guida E., Todaro F., Bielli P., Mori M., Ghirga F., Quaglio D., Botta B., Moretti F., Grimaldi P., Rossi P., Jannini E. A., Barchi M., Dolci S. (2020). Sempervirine inhibits RNA polymerase I transcription independently from p53 in tumor cells. CELL DEATH DISCOVERY, vol. 6, 111, ISSN: 2058-7716, doi: 10.1038/s41420-020-00345-4
10. Barchi, M, Innocenzi, E, Giannattasio, T, Dolci, S, Rossi, P, Grimaldi, P (2019). Cannabinoid Receptors Signaling in the Development, Epigenetics, and Tumours of Male Germ Cells. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, ISSN: 1422-0067, doi: 10.3390/ijms21010025
11. Innocenzi E., De Domenico E., Ciccarone F., Zampieri M., Rossi G., Cicconi R., Bernardini R., Mattei M., Grimaldi P. (2019). Paternal activation of CB2 cannabinoid receptor impairs placental and embryonic growth via an epigenetic mechanism. SCIENTIFIC REPORTS, vol. 9, ISSN: 2045-2322, doi: 10.1038/s41598-019-53579-3
12. De Domenico E, Todaro F, Rossi G, Dolci S, Geremia R, Rossi P, Grimaldi P. Overactive type 2 cannabinoid receptor induces meiosis in fetal gonads and impairs ovarian reserve. *Cell Death & Disease*. 8(10):e3085 (2017).
13. Cirelli E, De Domenico E, Botti F, Massoud R, Geremia R, Grimaldi P. Effect of microgravity on aromatase expression in Sertoli cells. *Sci. Rep.* 7(1):3469 (2017)
14. De Domenico E, D'Arcangelo G, Faraoni I, Palmieri M, Tancredi V, Graziani G, Grimaldi P, Tentori L. Modulation of GDF11 expression and synaptic plasticity by age and training. *Oncotarget*, vol. 8, p. 57991-58002 (2017).
15. Di Giacomo D, De Domenico E, Sette C, Geremia R, Grimaldi P. Type-2 cannabinoid receptor contributes to the physiological regulation of spermatogenesis. *FASEB J.*, vol. 30, p. 1453-1463 (2016)
16. Grimaldi P, Di Giacomo D, Geremia R. The endocannabinoid system and spermatogenesis. *Front Endocrinol*, vol. 4, p. 192-192 (2013).
17. Compagnucci C, Di Siena S, Bustamante M, Di Giacomo D, Di Tommaso M, Maccarrone M, Grimaldi P, Sette C. Type-1 (CB1) cannabinoid receptor promotes neuronal differentiation and maturation of neural stem cells. *PLoS One*. 8(1):e54271 (2013)

