

## Scientific Curriculum

**Personal Information: Pia Giovannelli**

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**Assistant Professor in General Pathology (RTDB 06/A2 MED/04) Dept of Precision Medicine, University of Campania "L. Vanvitelli"**

**o Researcher unique identifier: 0000-0002-2488-917X**

**o URL for web site:**

**<https://www.medicinadiprecisione.unicampania.it/dipartimento/docenti?MATRICOLA=701650>**

**-Academic age 15 years (from the first publication)**

**-Previous positions**

**05-2018/08/2022:** Assistant professor (RTDA) at Department of Precision Medicine, University of Campania "L. Vanvitelli", Naples

**10-2015/09-2016:** Post Doc position funded by Regione Campania POR/FSE 2015.

**01-2014/12-2014:** Post Doc Fellowship funded by PRIN 2010/2011.

**01-2013/12-2013:** AIRC fellowship "Volontari Comitato Basilicata"

**01-2011/12-2012:** AIRC fellowship "Coclerici". Title:"

**2007-2010:** PhD programme at the II University of Naples - Department of General Pathology.

**2006-2007:** Training at the Department of General Pathology - II University of Naples.

### Work experience

- Teaching of General Pathology (Logopedy, TNPEE, TRP courses) University of Campania "L. Vanvitelli" 2019-current.
- Research fellow (RTDA) S.C. 06/A2 SSD MED/04 General Pathology, University of Campania "L. Vanvitelli", Department of Precision Medicine, May 2018-current
- Post Doc position funded by Regione Campania POR/FSE 2015. "Identification of new therapeutical target for human brain tumor". Department of Biochemistry, Biophysics and General Pathology, Faculty of Medicine and Surgery - II University of Naples, Italy. October 2015-September 2016
- Teaching of General Pathology (IMS courses), University of Campania "L. Vanvitelli". 2015-2016
- Post Doc position (PRIN 2010/2011). "Androgens and androgen receptor in fibroblasts and their function in prostate cancer progression". Department of Biochemistry, Biophysics and General Pathology, Faculty of Medicine and Surgery - II University of Naples, Italy. January 2014-December 2014
- Post Doc position (AIRC) "The role of androgen receptor in prostate cancer progression". Department of General Pathology, Second University of Naples, Naples, Italy. January 2013-December 2013
- Post Doc position (AIRC): "The role of steroid signalling activation in human prostate cancer progression". Department of General Pathology, Second University of Naples, Naples, Italy. January 2011-December 2012
- Teaching of General Pathology (Logopedy and TNPEE courses) Second University of Naples. 2011- 2013
- PhD student- II University of Naples - Department of General Pathology. October 2007- October 2010
- Training at the Department of General Pathology - II University of Naples. Experimental Thesis in General Pathology: "Study of small peptides for the growth and proliferation control in human breast cancer cells" 2006-2007

### Education and training

- Specialization in Clinical Pathology and Clinical Biochemistry, 26 Oct 2017
- PhD in “Pathology of Signal Transduction” XXIII cycle

Thesis titled: “*Role of Androgen Receptor/Filamin A association in androgen-dependent migration of mouse fibroblasts NIH3T3*” Advisor: Prof. A. Migliaccio. December 2010

- Qualified as Professional Biologist - University Naples ‘Federico II’, January 2008.
  - Graduated in Biological Science *Summa cum Laude* from the University of Naples ‘Federico II’, Italy. Advisors: Prof. A. Migliaccio and Prof. R. Frunzio. July 2007.
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## Personal skills

Mother tongue: Italian.

Other languages: English.

TEKNICALL SKILLS: Protein analysis, cellular and molecular biology: Ligand binding displacement studies for receptor analysis, protein purification, SDS-PAGE, Western blot and immunoprecipitation, in vitro enzymatic assays, protein-protein interactions. Cell culture and co-culture of primary and immortalized cells, analysis of cell adhesion and invasiveness, gene transcription and viability assays, proliferation and cell cycle analysis, fluorescence and contrast phase microscopy. Nucleic acid manipulation and DNA cloning, PCR sequencing, Chlp assay, transfection. Animal work: animal handling and surgery. Laboratory management: organisation of protocols and laboratory records, competent in Microsoft and Mac operating systems and applications, database searching.

## Projects

PROGRAMMA VALERE 2020: PI for Drug “rEpurposing”: from prostatic to pancreatic cancer (DESIRE) founded with 26400 euro.

PROGRAMMA VALERE 2019 (Università Vanvitelli): CAMPANIA (Cancers And Micro Pollutants ANALysis for Innovative Approaches)

PRIN 2015: Useful experimental models for dissecting the molecular links between cancer development/progression and the obesity epidemic.

PRIN 2010-2011: Tumore, cellule staminali/progenitrici e microambiente tumorale: nuovi bersagli terapeutici.

PRIN 2006: Progressione del carcinoma prostatico verso l'androgeno-indipendenza: a) ruolo dei riarrangiamenti genici, della differenziazione neuroendocrina, e della interazione stroma-epitelio; b) identificazione di possibili nuovi bersagli terapeutici

## Publications

**Pia Giovannelli has authored 36 peer-reviewed international publications from 2007, with a H-Index of 19, total citations: 1660 (Scopus 10/02/2023). The full list of these publications can be found at the following address: <https://www.scopus.com/authid/detail.uri?authorId=57210840229>**

**Congresses:**

- Pia Giovannelli, Crescenzo D'Alterio, Marzia Di Donato, Stefania Scala, Antimo Migliaccio, Gabriella Castoria. Non-genomic androgen action in triple negative breast cancer. International Congress "Rapid Responses to Steroid Hormones" (RRSH), 20-23 Sept 2022 Paris
- Pia Giovannelli, Marzia Di Donato, Gabriella Castoria, Antimo Migliaccio. Androgen receptor: joy and pain of prostate cancer. Invited speaker at 5 Global Webinar on Endocrinology and Diabetes. 24-25 Febbraio 2021.
- Monaco Alessandra, Di Donato Marzia, Galasso Giovanni, Licitra Fabrizio, Emiliana Sabbatino, Migliaccio Antimo, Castoria Gabriella, Giovannelli Pia. Androgen receptor: joy and pain of prostate cancer. SIPMET Young Scientists Meeting, 2021, Perugia, 10-11 dicembre.
- THE ANDROGEN RECEPTOR (AR) IN ADVANCED PROSTATE CANCER (PC): A NEW CHANCE FOR CURE. Giovannelli P., Di Donato Marzia, Monaco A, Galasso G, Licitra F, Bilancio A, Auricchio F, Castoria G, Migliaccio A. 27th Annual PCF Scientific Retreat Virtual Poster Session October 20-23, 2020 · Online
- Androgen-Regulated Invasiveness of Malignant Breast Cancer Cells. Giovannelli P., Di Donato M., Monaco A., Galasso G., Bilancio A., Di Zazzo E., Auricchio F., Castoria G., Migliaccio A. SIPMET Young Scientists Meeting, 2019, Florence 13-14 September
- Effect of New Androgen Receptor Antagonists (SARMs) for the Treatment of Human Prostate Cancer. Di Donato M., Giovannelli P., Bilancio A., de Falco A., Varchi G., Tesei A., Castoria G.- 2nd Joint Meeting of Pathology and Laboratory Diagnostics, 2014 September 17-20, Palermo, Italy. Am J Pathol 2014, 184(Suppl): S1 AMT18.
- The Role of the Androgen Receptor in Stromal Cells. Castoria G., Di Donato M., Giovannelli P., Auricchio F., Migliaccio A. 2nd Joint Meeting of Pathology and Laboratory Diagnostics, 2014 September 17-20, Palermo, Italy. Am J Pathol 2014, 184(Suppl): S1 EMD5
- Androgen receptor acts as a suppressor of proliferation in stromal cells. P. Giovannelli, G. Castoria, M. De Donato, A. Migliaccio and F. Auricchio. From General pathology to Molecular and translational medicine – ASIP and SIPMET young scientists meeting. Rome, October 23rd-24th, 2013.
- Effetti genomici e non genomici dei recettori steroidei nei tumori ormono-dipendenti. G. Castoria, P. Giovannelli, M. Di Donato, A. Migliaccio and F. Auricchio. 36° Congresso Nazionale della Società Italiana di Endocrinologia; Padova (Italy), 5-8 June 2013.
- New molecules in the study of the rapid actions of steroid receptors. G. Castoria, P. Giovannelli, M. Di Donato, A. Migliaccio and F. Auricchio. 3rd EMBO Conference on 'Cellular Signaling & Molecular Medicine'; Cavtat- Dubrovnik (Croatia), 25-29 May 2012.
- The role of androgen receptor/Filamin A association in androgen induced cell migration. P. Giovannelli, T. Girdi, G. Castoria, A. Migliaccio, F. Auricchio. SIP 2010. XXX NATIONAL CONGRESS ITALIAN SOCIETY OF PATHOLOGY. Salerno. 14-17 Ottobre 2010. Poster session.
- Rapid androgen action in epithelial and stromal cells. G. Castoria, A. Migliaccio, P. Giovannelli, T. Girdi and F. Auricchio. 12th European Congress of Endocrinology (ECE 2010)-Praga, 24-28 April 2010.
- Novel aspects of signalling activation by steroid hormones in target cells. G. Castoria, A. Migliaccio, P. Giovannelli, T. Girdi and F. Auricchio. 14th International Congress of Endocrinology (ICE 2010)-Kyoto (Giappone), 26-30 March 2010.
- Androgen regulation of motility in fibroblasts. Pia Giovannelli, Tiziana Girdi, Gabriella Castoria, Antimo Migliaccio and Ferdinando Auricchio. Inflammatory cell signaling mechanisms as therapeutic targets. Inflammation 2010. Lussemburgo, 26-29 gennaio 2010; Poster session.

- Novel steroid antagonists inhibit the growth of prostate and mammary cancer cell xenografts. Ricciardi C., Giovannelli P., Giraldi T., Oliviero M. A., A. Migliaccio, G. Castoria and F. Auricchio. 63° Convegno dell'Associazione Italiana di Anatomia ed Istologia- Torino (Italy) 10-12 settembre 2009; Poster session.
- Hormone-dependent nuclear export of estradiol receptor and DNA synthesis in breast cancer cells. Giraldi T., Giovannelli P., Ricciardi C., Oliviero M. A., Lombardi M., G. Castoria, A. Migliaccio and F. Auricchio. 'Unconventional therapeutic targets in cancer'- 21st Pezcoller Symposium- Trento (Italy), 11-13 giugno 2009- Poster session.

#### **Editorial activities**

- Reviewer for Nutrients, Cancers, Cells, Applied Sciences, International Journal of Molecular Sciences, Pharmaceutics, Biomolecules, Diagnostics, Antioxidants, International Journal of Environmental Research and Public Health (MDPI), Med. Sci. Monit, Cancer Biomarkers, Bio-Protocol, Cancer Cell International, Faculty Opinions.
- Guest Associate Editor for Cancer Endocrinology (Frontiers in Endocrinology).
- Topic Editor for Cancers (MDPI) Special Issues.

#### **Awards**

- 2013: AIRC fellowship "Volontari Comitato Basilicata"
- 2011-2012: AIRC fellowship "Coclerici".