PERSONAL INFORMATION   Doctor Angelica Mancusi

- 📍 Via Ercole Pasquali 38 (RM)
- ✉ Angelica.mancusi@uniroma1.it
- ✉ angelica_95@hotmail.it

Sex: F | Nationality: Italian

Belonging to the protected categories in accordance with the law 68/99

EDUCATION

11/05/2023

PhD in Molecular Medicine (XXXV cycle)

Molecular Oncology Laboratory - Department of Molecular Medicine "La Sapienza" University of Rome

Research activity: "Molecular dissection of Pin1-Notch3 crosstalk to overcome Platinum resistance in ovarian cancer

23/10/2019

Masters' Degree in Genetic and Molecular Biology

Faculty of Mathematical, Physical and Natural Sciences

"La Sapienza" University of Rome

Thesis: "Study of Pin1-Notch3 axis in ovarian cancer progression"

Grade: 110/110 cum Laude

27/09/2017

Bachelors' Degree in Biological Sciences

Faculty of Mathematical, Physical and Natural Sciences

"UNISA" University of Salerno

Thesis: " Role of Nesprin3 protein in nuclear migration"

CURRENT POSITION

1/02/2023 – present

One-year post-doctoral fellow funded by Sapienza University of Rome

Department of Molecular Medicine Sapienza University of Rome, Italy

TRAINING COURSES and
RESEARCH EXPERIENCE

01/02/2023 – today	**Post-doctoral research activity as a Department of Molecular Medicine** Molecular Oncology Laboratory -Department of Molecular Medicine - "La Sapienza" University of Rome
01/11/2019 – 31/01/2023	**Scientific research activity as a Molecular Medicine PhD student** Molecular Oncology Laboratory -Department of Molecular Medicine - "La Sapienza" University of Rome
07/2018 – 10/2019	**Scientific Research activity as a Masters' degree intern** Molecular Oncology Laboratory -Department of Molecular Medicine - "La Sapienza" University of Rome
17/11/2020	**License to practice the profession of Biologist;**
10/10/2022- 21/10/2022	**Training and updating course for the protection of laboratory animals in scientific research.** "La Cattolica" University of Sacro cuore
12/2022	**Attended the training course "Preclinical Trials and Animal Welfare Training (FSPBA)".** This course is mandatory to perform the functions a, b, c, d provided for by art. 23par. 2 d.lgs. 26/2014 "La Sapienza" University Rome"

MAIN RESEARCH TOPICS:

- Study of PIN1-Notch3 crosstalk in the Platinum Resistance in ovarian cancer context.
- Exploring the DNA repair mechanism at the basis of Notch3-mediated Platinum resistance in ovarian cancer in vitro and in vivo (mouse models)
- Study of Opsonin-Deficient Nucleoproteic Corona Liposomes with Stealth Properties In Vivo (mouse models)
- Study of role of Notch3 in female cancer drug resistance

Personal Skills:

Mother tongue

Italian

Other languages	COMPREHENSION		SPOKEN		WRITTEN PRODUCTION
	Listening	Reading	Interaction	Oral Production	
English	B2	B2	B2	B2	B2

Levels: A1/A2: Basic - B1/B2: Intermediate - C1/C2: Advanced
Common European Framework of Reference for Language skills

Communication skills

- Excellent propensity to listen.
- Excellent ability to communicate effectively and to strive both singularly and in a group.
- Great ability to critically illustrate and analyze the content of scientific works.
- Great ability to divulge personal scientific works in a critical and exhaustive manner to both specialized and general audiences.

Organizational and management skills

- Excellent ability to design and carry out a scientific project in a biological and biotechnological field.
- Excellent adaptability and resilience in situations under pressure.

  Effective time management, organizational and interpersonal skills & problem-solving skills, with the ability to multi-task and prioritize.

Computer skills

- Responsible for the correct functioning and use of various technical tools, of relationships with various specialists and with providers of the necessary reagents for the continuity of every day experimental procedures.
- Good mastery of the main operational systems: Microsoft Windows and MacOS.
- Good mastery of the Microsoft Office packet (Word, Excel, PowerPoint) and Adobe (Acrobat)
- Good mastery of data banks and software/analysis tools (PubMed, Blast, IMAGEJ, UniProt, The Promoter Inspector Genomatix, PyMol, EMBOSS, Methprim

Other skills

- Good statistical skills: statistical analysis of experimental data and graphical representations.

Technical skills

- Work with murine models in mice house
- Work with cell culture
- Genotyping and classic PCR
- Generation of primary cell cultures.
- Maintenance and pharmacological treatment of primary and immortalized cell cultures
- Immunofluorescence staining of cells and tissues
- Transient transfection of nucleic acids with electroporation or liposomic agents
- Lentivirus production
- Cell transduction with lentiviral vectors
- RNA and DNA extraction and purification, RT-PCR and Q-PCR
- Chromatin immunoprecipitation (ChIP) assay

- Crispr/Cas9 technology for the generation of stable syngeneic cell lines
- Protein extraction, Bradford Assay, Western Blot

- Immunoprecipitation
- Cultivation and isolation of bacterial cultures, bacterial transformation and DNA purification techniques
- Bacterial cloning
- Clonogenic Assays and Proliferative Tests: BrdU/EdU
- Flow Cytometry (FACS Calibur)
- IVIS image
- Singenic and orthotopic in vivo experiment; Intraperitoneal and subcutaneously injection

Publications

Giuli MV, **Mancusi A** et al., **Notch signaling in female cancers: a multifaceted node to overcome drug resistance**. Cancer Drug Resist 2021;4:805-836. http://dx.doi.org/10.20517/cdr.2021.53
Giulimondi F, Vulpis E, Digiacomo L, Giuli MV, **Mancusi A** et al., **Opsonin-Deficient Nucleoproteic Corona Endows UnPEGylated Liposomes with Stealth Properties In Vivo.** ACS Nano. 16(2):2088-2100. 2022 Feb 22. doi: 10.1021/acsnano.1c07687. Epub 2022 Jan 18. PMID: 35040637; PMCID: PMC8867903.

Award

Winner the grant 2022, Avvio alla ricerca di Tipo 2 "Unveiling a small piece of the complex interplay of Notch3 interactors in Ovarian Cancer".Role Investigator
Winner of the award "Borsa per l'attività di tutoraggio 2020/2021" for PhD students - grant provided by Fondazione Roma Sapienza.
Winner of the award "Borsa di studio 2018/2019" for deserving students - grant provided by Fondazione Roma Sapienza.

Abstract and posters

A.Mancusi, MV Giuli et al. Poster **Post Translational Modifications of Notch3 as a modus operandi to regulate its protein activity and stability** SIPMet "PATHOPHYSIOLOGY OF DISEASE "2022 (Ancona, Italia)

MV Giuli. **A. Mancusi** et al. Poster '**Pin1 inhibition as an encouraging strategy to maximize Platinum-based chemotherapy in Ovarian Cancer**- SIPMet

A.Mancusi, MV giuli et al. Poster **Decoding Post-Translational Modifications of Notch3 regulating protein activity and stability.** EACR 2022 (Siviglia, Italia)

MV giuli. **A. Mancusi** et al. Poster '**Maximizing Platinum-based chemotherapy in Ovarian Cancer by inhibiting the peptidyl-cis/trans isomerase Pin1'** - EACR 2022 (Siviglia, Italia)

B. Natiello, **A. Mancusi** et al. Poster **Molecular dissection of WWP2-Notch3 crosstalk in ovarian cancer** EACR 2022 (Siviglia, Italia)

A.Mancusi, MV Giuli et al. Poster and Flash presentation **Deciphering Post Translational Modifications of Notch3 regulating protein activity and stability** ABCD 2021 (Salerno; italia)

A.Mancusi, MV Giuli et al. Poster **Decoding Post-Translational Modifications of Notch3 involved in protein activity and stability.** SIPMet - Young Scientist Meeting 2021 (Perugia, italia)

MV giuli. **A. Mancusi** et al. Poster **Targeting Notch3 receptor to overcome Platinum resistance in Ovarian Cancer** - SIPMet – Young Scientist Meeting 2021 (Perugia, Italia)

E Giuliani, **A. Mancusi** et al. Poster **Molecular basis of Notch3-Pin1 functional crosstalk in aggressive female tumors: therapeutic targeting implications in ovarian cancer treatment** SIPMeT Young Meeting PATHOBIOLOGY: FROM MOLECULAR DISEASE TO CLINICAL APPLICATION 2019 (Firenze, Italy)

E Giuliani, **A. Mancusi** et al. Poster **Notch3-Pin1 crosstalk in ovarian cancer: from molecular mechanism dissection to therapeutic application** The XI Notch meeting 2019 (Athens, Greece)

MV giuli. **A. Mancusi** et al. Poster **Getting insights into Pin1-Notch3 functional crosstalk in ovarian cancer** 4Th ANNUAL MEETING OF ALLIANCE AGAINST CANCER 2019 (ACC) (Roma, Italy)

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2021 – now Member of European Association for Cancer Research (EACR)
2021 – now Member of Italian Society of Pathology and Translational Medicine (SIPMeT)
2019 – 2020 Member of Alliance Against Cancer (ABCD)

SUPERVISION OF GRADUATE STUDENTS

AND POSTDOCTORAL
FELLOWS

2023 – now Alessia Morelli, **master student**
Department of Molecular Medicine, Sapienza University of Rome, Italy
2022 – now Maria Stoykina, **master student**
Department of Molecular Medicine, Sapienza University of Rome, Italy
2022 – now Rebecca Reali, **master student**
Department of Molecular Medicine, Sapienza University of Rome, Italy
2020 – now Bianca Natiello, **PhD student**
Department of Molecular Medicine, Sapienza University of Rome, Italy

Self-
certification

art. 46 del D.P.R. 28.12.2000 n.445

ANGELICA MANCUSI

REPUBBLICA ITALIANA
MINISTERO DELL'INTERNO

CA65120IJ

CARTA DI IDENTITÀ / IDENTITY CARD
COMUNE DI / MUNICIPALITY
MONTECORVINO PUGLIANO

COGNOME / SURNAME
MANCUSI

NOME / NAME
ANGELICA

LUOGO E DATA DI NASCITA
PLACE AND DATE OF BIRTH
BATTIPAGLIA (SA) 05.05.1995

SESSO   STATURA
SEX   HEIGHT
F   163

CITTADINANZA
NATIONALITY
ITA

EMISSIONE / ISSUING
29.03.2021

SCADENZA / EXPIRY
05.05.2031

FIRMA DEL TITOLARE
HOLDER'S SIGNATURE

717941

COGNOME E NOME DEL PADRE E DELLA MADRE O DI CHI NE FA LE VECI/
FATHER AND MOTHER'S-TUTOR'S NAME

CODICE FISCALE
FISCAL CODE
MNCNLC95E45A717M

ESTREMI ATTO DI NASCITA
530 p1 sA-1995 065014

INDIRIZZO DI RESIDENZA / *RESIDENCE*
VIA ISTRIA, N. 2 MONTECORVINO PUGLIANO (SA)

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