

EUROPEAN  
CURRICULUM VITAE  
FORMAT



**PERSONAL INFORMATION**

Name	CATANI MARIA VALERIA	
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Nationality	Italian	
Date of Birth	May 4th, 1965	
Gender	Female	

**WORK EXPERIENCE**

- **From 2006 - up to now**  
**Associate Professor of Biochemistry** – SSD BIO/10  
Tor Vergata University of Rome, Via Montpellier 1, 00133 Rome, Italy
  - Coordination and participation in scientific research groups (see below)
  - Member of the Department of Experimental Medicine
  - Member of the Academic Board of the PhD Course in "Biochemistry and Molecular Biology"
  - Teaching of: Master Degree in Medicine and Surgery, Master Degree in Human Nutrition Sciences, Master Degree in Medical Biotechnologies, Bachelor Degree in Motor Sciences, First and Second level Specializing Masters of Faculty of Medicine and Surgery
- **From 2001 to 2006**  
**Assistant Professor** – tenured position SSD BIO/10 Biochemistry  
Tor Vergata University of Rome, Via Montpellier 1, 00133 Rome, Italy
  - Participation in scientific research groups (see below)
  - Member of the Department of Experimental Medicine
  - Member of the Academic Board of the PhD Course in "Biochemistry and Molecular Biology"
  - Teaching of: Master Degree in Medicine and Surgery, Master Degree in Human Nutrition Sciences, Master Degree in Medical Biotechnologies, Bachelor Degree in Motor Sciences, First and Second level Specializing Masters of Faculty of Medicine and Surgery
- **From 1998 to 2000**  
**Research assistant** – tenured position  
Istituto Dermatologico dell'Immacolata (I.D.I.-IRCCS), Via Monti di Creta 104, 00167 Rome, Italy  
Scientific research for project "Mechanisms of ectodermal differentiation: role of transglutaminases and their substrates lorycin and tricoyaline"
- **1998**  
**Fellowship**  
Istituto Dermatologico dell'Immacolata (I.D.I.-IRCCS), Via Monti di Creta 104, 00167 Rome, Italy  
Scientific research for project "Mechanisms of epidermal differentiation"
- **1992**  
**Work experience abroad** – 3 months  
Skin Biology Lab (Prof. Peter Steinert), NIAMS, NIH, Bethesda, Maryland, USA.  
Scientific research for project "Current research in Biochemistry"
- **From 1989 to 1991**  
**Fellowship**  
Istituto Medicina Sperimentale CNR, Piazzale Aldo Moro, 7, 00185 Rome, Italy  
Scientific research for project "Mechanisms of replication and regulation of eukaryotic genes and their targeted modifications"

## EDUCATION AND TRAINING

- **1998** Specialization degree in Microbiology and Virology - final score 70/70 cum Laude  
La Sapienza University of Rome, Piazzale Aldo Moro, 5, 00185 Rome, Italy  
Thesis title: "Mechanisms of neurotoxicity induced by gp120, the coating glycoprotein of the HIV-1 virus"
- **1997** Ph.D. degree in Biology and Physiopathology of Epithelia  
Tor Vergata University of Rome, Via Montpellier 1, 00133 Rome, Italy
- **1991** Qualification to practice the profession of Biologist (State Examination).  
National Order of Biologists
- **1989** Master degree in Biology – final score 110/110 cum Laude  
La Sapienza University of Rome, Piazzale Aldo Moro, 5, 00185 Rome, Italy  
Thesis title: "Analysis of the *in vitro* self-assembly mechanism of the major ribosomal subunit of the extreme thermophilic archaeobacterium *Sulfolobus solfataricus*".

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGE

ENGLISH

- Understanding
- Writing
- Speaking

EXCELLENT

EXCELLENT

EXCELLENT

SOCIAL SKILLS  
AND COMPETENCES

Attitude to collaborate with colleagues and work in different research groups.  
Ability to interact with all levels of the University hierarchy, and with technical and administrative structures.  
Commitment to professional development of her own career and mentor for others.  
Integrated language, communication, and environment skills, especially in an international context.  
Excellent ability to communicate with university students.

ORGANISATIONAL SKILLS  
AND COMPETENCES

Ability to lead in executing collaborative research projects in cooperation with colleagues and project partners.  
Supervisor and co-supervisor of more than 30 students for their Bachelor, Master, First and Second level Specializing Masters, and PhD degrees

TECHNICAL SKILLS  
AND COMPETENCES

Scientific experience in the following lines of research:

- Modulation of specific microRNAs delivered by platelets microvesicles in breast cancer cells and their role in tumor progression.
- Role of antioxidant nutrients in oncology.
- Role of bioactive lipids in megakaryocytic differentiation and platelet biogenesis and activation.
- Role of bioactive lipids in intercellular communication (blood, endothelial and tumor cells) with implications in cardiovascular and oncological diseases.
- Role of reactive oxygen/nitrogen species, antioxidant nutrients and redox-sensitive transcription factors in cell differentiation and death in several experimental models (muscle cells, keratinocytes, cancer cells, etc.).

### International and National funded research projects

**Principal investigator**

**2022**

Agency: Tor Vergata University of Rome. Tor Vergata 2021-2022 Research Program. Title:

“miR126-CB2 crosstalk in breast cancer (miRCBBC)”. Budget € 8.331,80.

**Participant**

**From 2017 to 2020**

Agency: MUR. PRIN - (prot. 2017BF3PXZ\_002 – “Exploring the role of mitochondrial dynamics in cancer signaling cascades: integrating HIF1, hedgehog and Rap1”.

**From 2011 to 2013**

Agency: MUR. PRIN - (prot. 20095SWFHZ\_003 – “Role of endocannabinoids in regulation of megakaryopoiesis e platelet biogenesis *in vitro*”.

**From 2008 to 2010**

Agency: MUR. PRIN (prot. 2007NMKBKL\_003) “endocannabinoids-triggered differentiation and cell death in platelets and their precursors: role of redox state”.

OTHER SKILLS  
AND COMPETENCES

**Membership**

Member of platelet study group (GSP)

Member of Italian Society for Human Nutrition (SINU)

**Editorial experience**

- Topical Advisory Panel Member of “International Journal of Molecular Sciences” (IF 5.924)
- Guest editor of the following Special Issues in IJMS:
  - Molecular Research on Platelet Activity in Health and Disease
  - Molecular Research on Platelet Activity in Health and Disease 2.0
  - Molecular Research on Platelet Activity in Health and Disease 3.0
  - Molecular Research on Platelet Activity in Health and Disease 2022
  - Noncoding RNAs: Molecular Mechanisms and Physio-Pathological Implications
- Referee for international scientific journals, including International Journal of Molecular Sciences, Clinical and Translational Medicine, Applied Science, Biochimie, Current Chemical Biology, Cannabis and Cannabinoid Research.

**PUBLICATIONS**

The global research activity led to publication of 85 articles in national and international scientific journals (H-Index (Scopus) = 32, citations: 3291 H-Index (Google Scholar) = 35, citations: 4626), 3 monographs/book chapters on Biochemistry and over 60 presentations at National and International Congresses.

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*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*

