

# Synopsis

TOMMASO ANGELONE

## Curriculum Studiorum

- 2017: **National Scientific Qualification** to Full Professor in Physiology (SSD BIO/09)
- 2014: **Associate Professor** (SSD BIO/09) in Physiology, University of Calabria, Cosenza-Italy
- 2008: **Researcher** (SSD BIO/09) in Physiology at the Faculty of Science, University of Calabria, Cosenza-Italy
- 2005: **European PhD** in “Molecular and Cellular Aspects of Biology” at INSERM575 Physiopathology of Nervous System, University Louis Pasteur-Strasbourg, France Mentor: Dr. Marie-Hélène Metz-Boutigue and in “Animal Biology” (Cardiovascular Physiology) at University of Calabria – Cosenza (Italy) Mentor: Prof. Bruno Tota.

## Academic Career

- **Present position:** Associate Professor (SSD BIO/09; Physiology) at Dept. Biology, E. and E.S. (DiBEST), University of Calabria, Cosenza-Italy

## Scientific National and International Commitments

- Since 2020: **President** of the Italian Society of Cardiovascular Research (SIRC)
- Since 2010: **Member** of Scientific Board of National Institute of Cardiovascular Research (BO), Italy
- Since 2007: **Scientific director** of the Cellular and Molecular Cardiovascular Physiology Lab (DiBEST-UNICAL)

## University Functions

- Since 2020: **Coordinator** of the Doctorate Fellowship in Life Sciences and Technology- UNICAL
- 2017-2021: **Member** of the “Presidio di Qualità (PQA)”– UNICAL
- Since 2014: **President** of the Board for Experimental Animal Care (“Organismo Preposto al Benessere Animale”) (DiBEST-UNICAL)

## International Patents

- International Patent Pub. No.: WO/2019/068682  
International application No.: PCT/EP2018/076735  
Title: Selenoprotein T 43-52 as cardioprotector  
Inventors: **Tommaso ANGELONE**, Youssef ANOUAR, Carmine ROCCA & Loubna BOUKHZAR
- International Patent Pub. No.: WO2020070089  
Title: Chromogranin A and uses thereof  
Inventors: **Tommaso ANGELONE**, Bruno TOTA & Angelo CORTI

**Scientific director** of the Cellular and Molecular Cardiovascular Physiology Lab (DiBEST-UNICAL), Operative Unit of the National Institute of Cardiovascular Research (INRC).

### **-Referee and Editor Activities**

- Reviewer for National and International research Projects
- Referee for national and international Doctoral Thesis.
- Tutor for PhD students of Doctorate in Life Sciences and Technology, for postdoctoral positions and supervisor of several research fellowship at University of Calabria.

### **Main Research Interest**

Research: Neurohumoral control of the cardiac performance of mammals with focus on the activity, cardioprotection after ischemia/reperfusion injury and the signal transduction pathway of: i) chromogranin-A and its derived peptides; ii) selenoprotein T and a synthetic derived peptide encompassing the redox active motif; iii) nitric oxide and nitrite; iii) adrenergic stimulation; iv) heart and nutrition; v) cardiomodulation and cardioprotection elicited by hormones involved in the alimentary behaviour (e.g. glucagon-like peptide 2, nesfatin-1, phoenixin) e by food-derived natural substances (e.g. red wine polyphenols, olive-oil extracts). Researches are carried out by using innovative methods of physiological investigation at organ and cellular and molecular levels, such as the perfusion of organs by a digitalized Langendorff apparatus, cultures of cardiomyocytes and endothelial cells, molecular biology techniques such as western blotting, immunoprecipitation, PCR, ELISA, Biotin Switch, receptor binding assay, Immunocytochemistry analysis, HPLC and Mass Spectrometry.

Experimental models: rats and mice fed with different high fat diets able to induce obesity and metabolic syndrome; spontaneously hypertensive rats (SHR), spontaneously hypertensive rats prone to heart failure (SHHF), rats with heart failure (chronically treated with heart failure stimulators, such as isoproterenol) rats and mice with chemotherapy-induced cardiotoxicity (treated with doxorubicin).

### **Recent Projects**

- **Since 2021:** Participation to the Research Program “PNR 2015-2020, PON, Area di Specializzazione: Salute”.
- **Since 2019: Coordinator** of the Research Project: “**Proof of Concept**”, Ministero dell'istruzione, dell'università e della ricerca
- **Since 2019: Coordinator** of the Research Program “**Progetto Vinci**” (as Director of Thesis) for co-tutorship with the INSERM U1239 on Selenoprotein T and metabolism.
- **2017:** Participation to the Research Program **POR ASSE I** –n° J88C17000370006.
- **2016: Coordinator** of the Research Project within the Italian-French cooperation “**Progetto Galileo**” with University of Rouen (Francia), Inserm U982 that includes a co-tutorship doctorate program.

### **Collaborations**

Prof. Angelone research is carried out in collaboration with many national and international laboratories. Researches on CgA and its derived peptides are carried out in collaboration with San Raffaele Institute

(DIBIT, Milan, **Prof. A. Corti**), with Dep. of Medicine and Molecular Genetic Center (Univ. California, San Diego: **Prof. S. Mahata**), Cell Neurobiology Section (NIH, USA: **Dr. P. Loh**), Institute for Nervous System Physiopathology INSERM (Strasbourg, France: **Prof. M.-H. Metz-Boutigue**). Researches on Selenoprotein T are carried out in collaboration with the Unit of “Différenciation et Communication Neuronale et Neuroendocrine-Institut de Recherche et d'Innovation Biomédicale (IRIB)” Inserm U1239 (Univ. Rouen Normandy: **Dr. Y. Anouar**). Researches on ischemic cardioprotection are carried out in collaboration with sono Dept. Of Clinical and Biological Sciences (Univ. Turin, Italy: **Prof. P. Pagliaro and Prof. C. Penna**) e with Dept. Of Life Sciences and System Biology (Univ. Turin: **Prof. G. Alloatti and Prof. M.P. Gallo**).

#### **Meetings Participation:**

Since 2003: participation to several National and International Meetings (oral/poster presentation and Invited speaker)

#### **Meeting Organization:**

2011-2019: National Congress of the Italian Society of Cardiovascular Research (SIRC) and Workshop (SIRC) as Member of the Scientific Board of SIRC.

Since 2020: National Congress of the Italian Society of Cardiovascular Research (SIRC) and Workshop (SIRC) as President of the Scientific Board of SIRC.

#### **Publications:**

Since 2003: Prof. Angelone published **110** (ISI Web of Knowledge) research products, of which **88** full papers (ISI Journals). ORCID:<http://orcid.org/0000-0001-7797-7862>

Citations: **3251**, h-index: **34** Google Scholar

Citations: **2325**, h-index: **30** Scopus

-5 of these full papers received an Editorial [Angelone et al., 2008 Endocrinology; Angelone et al., 2008 Acta Physiologica; Pieroni et al., 2007 European Heart Journal; Rocca et al., 2018 Acta Physiol (Oxf); Rocca et al., 2020 Acta Physiol (Oxf)].

-2 Book Chapters

- ~ 160 Proceedings and Meeting Participations

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Rende (Cosenza), 13/09/2021

Signature