



**MARIA LUISA BALESTRIERI**

**FULL PROFESSOR OF BIOCHEMISTRY**

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School of Medicine and Surgery

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[scholar.google.com/citations?user=xbmg298AAAAJ&hl=it](https://scholar.google.com/citations?user=xbmg298AAAAJ&hl=it)

[www.researchgate.net/profile/Maria\\_Luisa\\_Balestrieri](http://www.researchgate.net/profile/Maria_Luisa_Balestrieri)

**EDUCATION AND TRAINING**

1999 Master in Food Science 50/50 with honors, Second University of Naples

1997 Ph.D in Biochemical Sciences, University of Naples "Federico II"

1993 Qualification as Biologist, University of Naples "Federico II"

1991 *Laurea* in Biological Sciences, 110/110 with honors, University of Naples "Federico II"

**ACADEMIC POSITIONS**

from 2018 to date Full Professor of Biochemistry S.S.D. BIO/10, Department of Precision Medicine, School of Medicine and Surgery, Università degli Studi della Campania "Luigi Vanvitelli", Italy

from 2014 to 2018 Associate Professor of Biochemistry S.S.D. BIO/10, Department of Precision Medicine, School of Medicine and Surgery, Università degli Studi della Campania "Luigi Vanvitelli", Italy.

2004-2014 Researcher in Biochemistry S.S.D. BIO/10, Department of Biochemistry, Biophysics and General Pathology, School of Medicine and Surgery, Università degli Studi della Campania "Luigi Vanvitelli", Italy.

from 2004 to date Biology Manager (I Level) Primo Policlinico Hospital, Department of Integrated Activity of the Laboratory Services and Public Health, UOC Clinical and Molecular Pathology Università degli Studi della Campania "Luigi Vanvitelli.

2003-2004 Researcher Assistant - Department of Biochemistry and Biophysics "Francesco Cedrangolo" Second University of Naples, School of Medicine, Second University of Naples, Italy (*from May 02, 2003 to January 01-2004*)

1999-2002 Researcher Assistant - Department of Biochemistry and Biophysics "Francesco Cedrangolo" Second University of Naples, School of Medicine, Second University of Naples, Italy (*from October 27, 1999 to October 30, 2002*)

2000 Researcher Assistant-Basic and Applied Research Unit, Oak Ridge Associated Universities (ORAU) PO Box 117 Oak Ridge, Tennessee, 37831-0117, USA

1999 Researcher Assistant at the Basic and Applied Research Unit, Oak Ridge Associated Universities (ORAU) PO Box 117 Oak Ridge, Tennessee, 37831-0117, USA

1995-1997 Graduate Researcher Fellow at the Environmental and Health Sciences Division, Oak Ridge Associated Universities (ORAU) PO Box 117 Oak Ridge, Tennessee, 37831-0117, USA.

1992 Graduate Researcher Fellow the Department of Biochemistry and Biophysics "Francesco Cedrangolo", School of Medicine, Second University of Naples, Italy

1990-1991 Graduating student internship in the Department of Biochemistry and Biophysics "Francesco Cedrangolo" School of Medicine, Second University of Naples, Italy

### **RESEARCH EVALUATOR EXPERT**

2018-Member of the Expert Panels PhD Program Stazione Zoologica Anton Dohrn (SZN), 2018

2018-Member of the Interuniversity Research Center in Neuroscience, <http://cirn-na.com/>, January 2018

2017 Visiting Professor in Chemistry, International University of Gorazde, Department of European Studies Jean Monnet, Locarno, CH.

2017- Member of the Scientific and Technical Committee of the European Research Center for Food Safety

2017- Member of the Evaluation Commission for Research Project n.14 dell'Università degli Studi di Cagliari, Regione autonoma della Sardegna, Programma Operativo Regionale, FSE 2014-2020 Asse III "Istruzione e Formazione" - Azione 10.5.12 (Determinazione del Direttore del Servizio Politiche per la Formazione Terziaria e per la Gioventù della Regione Sardegna n. 300/14075 del 16.10.2017)

2016- Expert Peer Reviewer (REPRISE) for the evaluation of Research Project – University of Florence for Competitive Projects, September 2017-

2016- Expert Peer Reviewer (REPRISE) for the evaluation of MIUR Projects- Ex-post FIRB Futuro in Ricerca 2008 (D.D. 792 del 27/04/2016).

2016-Member of the Register of Expert Peer Reviewers for Italian Scientific Evaluation -REPRISE- 2016 (CNGR del 01.02.16) for the Ex-post evaluation of FIRB Project "Futuro in Ricerca 2008"

2013-2014 Member of the Miur Referees Board for Pre-selection SIR 2014 and FIRB "Futuro in Ricerca 2013"

### **SCIENTIFIC MEMBERSHIP**

Italian Society of Biochemistry and Molecular Biology

**GRANTS**

- 2019- PSR 14-20-Regione Campania “STRABUF” cuaa 00876220633 – DR 62 del 18/04/2019  
 2019 -Progetto Mipaaf SALUTE – ID 31- DG DISR - DISR 04 - Prot. N.0002676 del 24/01/2019  
 2017-2018 PON I&C MISE 2014-2020 HORIZON 2020” (D.M. 1° giugno 2016) RAZIONALE-  
 F/050129/01-02-03/X32.  
 2013-2015 POR CAMPANIA FESR 2007/2013  
 2008 PRIN Cofin 2008X2PNYX\_002  
 2008 Legge 5 Regione Campania annualità 2005 code BRC1498  
 2000 Progetto CNR Giovani Ricercatori cod. CNRGOOEFB2  
 2007-2013 PO FESR 2007-2013 - Obiettivi operativi 2.1 e 2.2 - Campus per Progetti di ricerca  
 industriale e sviluppo sperimentale.  
 2007 Ministero delle Politiche Agricole Alimentari e Forestali Mipaaf\_Azione 4  
 2004 PRIN Cofin protocollo 2004063113\_005  
 2003 Legge 5/02 Regione Campania annualità 2003  
 2002 PRIN Cofin protocollo 2002051917\_001.  
 2001 PRIN Cofin protocollo 20011062947\_003  
 2000 Legge Regionale Regione Campania 1999  
 2000 Legge Regionale. Regione Campania 2000

**INTERNATIONAL CONGRESS ORGANIZATION**

- 2017 Organizing Committee 59<sup>th</sup> Congress of the Italian Society of Biochemistry and Molecular Biology  
 (SIB), Naples, Italy, September 20-22<sup>nd</sup>, 2017.
- 2007 Organizing Committee del “3<sup>rd</sup> International Conference on Phospholipases A<sub>2</sub> and Lipid  
 Mediators” Sorrento, Naples, Italy, May 9-12<sup>th</sup>, 2007

**TEACHING ACTIVITIES University of Campania “Luigi Vanvitelli”, Italy****CdL MEDICINE AND SURGERY IN ENGLISH**

-from 2012 to date Chemistry

**CdL MEDICINE AND SURGERY**

-from 2011 to date Chemistry and Propaedeutic Biochemistry  
 -2008-2010 Chemistry and Propaedeutic Biochemistry

**CdL MEDICINE AND SURGERY-CASERTA**

-2014-2015 Chemistry and Propaedeutic Biochemistry

**CdL BIOMEDICAL LABORATORY TECHNIQUES**

2013 to date Chemistry and Propaedeutic Biochemistry  
 2011-2012 Biochemistry  
 2010-2011 Chemistry and Propaedeutic Biochemistry  
 2009-2010 Chemistry and Propaedeutic Biochemistry  
 2008-2009 Chemistry and Propaedeutic Biochemistry  
 2007-2008 Biochemistry  
 2006-2007 Biochemistry

**CDL MEDICAL RADIOLOGY TECHNIQUES FOR PICTURES AND RADIOTHERAPY**

from 2011 to date     Biochemistry

**CDL IN PEDIATRIC NURSING**

2015-2016     Biochemistry  
2014-2015     Biochemistry  
2013-2014     Biochemistry  
2012-2013     Biochemistry  
2011-2012     Chemistry and Propaedeutic Biochemistry  
2010-2011     Biochemistry  
2009-2010     Biochemistry  
2008-2009     Biochemistry

**CDL IN NURSING SCIENCES “A. CARDARELLI”**

2011-2012     Chemistry and Propaedeutic Biochemistry

**CDL IN TECHNICIAN FOR ENVIRONMENTAL PREVENTION AND WORKPLACES**

2005-2006     Chemistry and Propaedeutic Biochemistry

**MASTER IN CARDIOLOGY**

2007-to date    Biological Chemistry

**Ph.D ACADEMIC BOARD**

from 2008 to date    Member of the Academic Board of the Ph.D Program Biochemical and Biotechnological Sciences- Physical Chemistry Course (3 CFU).

2004-2007            Member of the Academic Board of the Ph.D Program in Applied Biotechnologies for Medical Sciences.

**SPEAKER AT TRAINING COURSES & SEMINARS**

2015    Endothelial dysfunction and diabetes - Project PON01\_02460 DIAGEN - University of Naples “Federico II”

2006    2° Updating Course in “Reactive oxygen species and antioxidants: clinical and laboratory aspects”. Title: Mechanisms of radical reactions. Naples (Italy), March 10-11<sup>th</sup>

**POST-DOC TUTOR**

- Dr. Nunzia D’Onofrio, Project Title: “Individuazione e caratterizzazione di metaboliti funzionali del latte” finanziato nell’ambito del PON I&C 2014-2020 Progetto “RAZIONALE” - H2020, from April 1<sup>st</sup>, 2018 to March 31<sup>st</sup>, 2019. S.S.D BIO/10

- Dr. Elisa Martino. Project Title: “Sirtuine quali bersaglio molecolare di componenti bioattivi del latte nella prevenzione di patologie cardiovascolari” finanziato nell’ambito del PON I&C 2014-2020 Progetto “RAZIONALE” - H2020, from April 1<sup>st</sup>, 2018 to March 31<sup>st</sup>, 2019. S.S.D BIO/10. S.S.D BIO/10

- Dr. Anna Grimaldi. Project Title: “Processi apoptotici ed epigenetici di componenti bioattivi del latte nella prevenzione delle neoplasie” finanziato nell’ambito del PON I&C 2014-2020 Progetto “RAZIONALE” - H2020, from April 1<sup>st</sup>, 2018 to March 31<sup>st</sup>, 2019. S.S.D BIO/10. S.S.D BIO/10

**Ph.D Tutor/Evaluator**

-Ph.D Tutor in Biochemical and Biotechnological Sciences-29° cycle. Dottoranda: Dott. Milena Vitiello. Tesis: Ergothioneine oxidation in the protection against high-glucose endothelial senescence: involvement of SIRT1 and SIRT6.

-Ph.D Tutor in Cellular Biochemistry 27° cycle. Dott. Nunzia D'Onofrio. Tesis: Ruolo di SIRT1 e del recettore del Fattore di Attivazione Piastrinico (PAF-R) nella regolazione dei livelli di cellule endoteliali progenitrici in soggetti diabetici di tipo 2.

-Ph.D Tutor in Cellular Biochemistry 26° cycle. Dott. Mario Coppola. Tesis: Studio proteomico della placenta nella specie bufalina nel corso di sviluppo embrionale ritardato.

-Ph.D External Evaluator, Dottorato di Ricerca in Ambiente, Risorse e Sviluppo Sostenibile XXIX Ciclo, Università degli Studi di Napoli Parthenope, Napoli, Italia (D.R. 166/2017), dal 17-02-2017 al 28-02-2017.

- Ph.D External Evaluator, Dottorato di Ricerca Genetics, Oncology and Clinical Medicine GenOMeC, Università di Siena, Siena, Italia 2017.

-Ph.D External Evaluator, Dottorato di Ricerca Genetics, Oncology and Clinical Medicine GenOMeC, Università di Siena, Siena, Italia 2017.

**Laurea Tutor/Co-tutor**

Co-tutor, Prof. Maria Luisa Balestrieri -Tutor, Prof. Giuseppe Campanile, (AA 2016-2017), Corso di Laurea Magistrale in Scienze e Tecnologie delle Produzioni Animali, Dipartimento di Medicina Veterinaria e Produzioni Animali, Università degli Studi di Napoli "Federico II". Candidata: Lucia Pizzuti. Tesis: Carnitina e acil-carnitine nel latte di bufala e bovino.

Co-tutor, Prof. Maria Luisa Balestrieri -Tutor, Prof. Assunta Lombardi, (AA 2016-2017), Scuola Politecnica e delle Scienze di Base Corso di Laurea Magistrale in Scienze Biologiche, Università degli Studi di Napoli "Federico II". Candidata: Federica Meglio. Tesis: Ruolo della Sirtuina 6 nello sviluppo delle placche aterosclerotiche nel diabete di tipo 2.

Co-tutor, Prof. Maria Luisa Balestrieri-Tutor, Prof. Assunta Lombardi, (AA 2016-2017), Scuola Politecnica e delle Scienze di Base Corso di Laurea Magistrale in Scienze Biologiche, Università degli Studi di Napoli "Federico II". Candidata: Fiorella Fasanaro. Tesis: Meccanismo di azione dell'ergothioneina nella protezione delle cellule endoteliali dal danno indotto dall'iperglicemia.

Co-tutor, Prof. Maria Luisa Balestrieri -Tutor Prof. Assunta Lombardi. (AA 2014-2015), Scuola Politecnica e delle Scienze di Base Corso di Laurea Magistrale in Scienze Biologiche, Università degli Studi di Napoli "Federico II". Studente: Assunta Santagata. Tesis: Effetto della stachidrina sulla senescenza endoteliale indotta da iperglicemia.

Co-tutor, Prof. Maria Luisa Balestrieri -Tutor, Prof. Ida Ferrandino (AA 2013-2014), Scuola Politecnica e delle Scienze di Base, Corso di Laurea Triennale in Scienze Biologiche, Università degli Studi di Napoli "Federico II". Candidata Maria Natale Villano. Tesis: L'elettroforesi nello studio delle proteine: approccio proteomico per lo studio della mortalità embrionale nella specie bufalina.

Co-tutor, Prof.ssa Maria Luisa Balestrieri-Tutor. Prof. Alfredo Colonna. (AA 2005-2006), Facoltà di Farmacia, Università degli studi di Napoli "Federico II". Studente: Rita Miele. Tesis: Effetti dei costituenti fenolici estratti dalla corteccia di Yucca Schidigera in cellule del Sarcoma di Kaposi.

### **EDITORIAL BOARD MEMBER**

-International Journal of Molecular Sciences

Section of Molecular Pathology, Diagnostics, and Therapeutics (MDPI)

[http://www.mdpi.com/journal/ijms/sectioneditors/Pathology\\_Diagnostics\\_Therapeutics](http://www.mdpi.com/journal/ijms/sectioneditors/Pathology_Diagnostics_Therapeutics)

-J Multidisciplinary Scientific Journal (MDPI)

<http://www.mdpi.com/journal/J/editors>

-Translational Medicine Reports (PAGEPress)

<https://www.pagepressjournals.org/index.php/tmr/pages/view/eb>

-The Open Biochemistry Journal (Bentham Open)

<https://www.benthamopen.com/TOBIOCJ/editorial-board/>

-Guest Editor - Special Issue "Recent Advances in Natural Products Chemistry Related to Metabolites and Microbiomes" *Molecules*, 2019

[https://www.mdpi.com/journal/molecules/special\\_issues/Metabolites\\_Microbiomes](https://www.mdpi.com/journal/molecules/special_issues/Metabolites_Microbiomes)

-Guest Editor - Special Issue "Sirtuins and Epigenetics in Aging and Diseases" *International Journal of Molecular Sciences- Section 'Molecular Pathology, Diagnostics, and Therapeutics'*, 2018

[http://www.mdpi.com/journal/ijms/special\\_issues/Sirtuins](http://www.mdpi.com/journal/ijms/special_issues/Sirtuins)

-Guest Editor - Special Issue "Apoptosis and Autophagy: The Double Edge in Cancer Development and Progression" *International Journal of Molecular Sciences- Section 'Molecular Pathology, Diagnostics, and Therapeutics'*, 2018

[http://www.mdpi.com/journal/ijms/special\\_issues/Apoptosis\\_Autophagy\\_Cancer](http://www.mdpi.com/journal/ijms/special_issues/Apoptosis_Autophagy_Cancer)

-Guest Editor - Special Issue "Atherosclerosis: molecular mechanisms and therapeutic advances" *J Multidisciplinary Scientific Journal*, 2018

[http://www.mdpi.com/journal/J/special\\_issues/atherosclerosis\\_mechanisms\\_advances](http://www.mdpi.com/journal/J/special_issues/atherosclerosis_mechanisms_advances)