

**PERSONAL INFORMATION** Prof. ssa Pasqualina BUONO

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 Pasqualina Buono

**EDUCATION AND TRAINING**

ISTITUTION AND LOCATION	DEGREE YEAR(s)	FIELDS OF STUDY
University Federico II, Napoli, Italy <a href="http://www.unina.it">www.unina.it</a>	Degree in Biological Sciences (1979)	Biology
University of Camerino-Italy <a href="http://www.unicam.it">www.unicam.it</a>	Residency in Clinical Biochemistry (1995)	Clinical Biochemistry
CNR (National Research Council), DBBM, University Federico II, Napoli, Italy	CNR (National Research Council) scholarship (1981-1990)	Molecular Biology
DBBM, University Federico II, Napoli, Italy <a href="http://www.dbbm.unina.it">www.dbbm.unina.it</a>	Research activity and Supervisor activity at Biochemical laboratory (1990-2000)	Biochemistry and Biochemical Chemistry
University Paul Sabatier, Route de Narbonne, 31330 Toulouse, France <a href="http://www.univ-tlse3.fr">www.univ-tlse3.fr</a>	Research activity (1991-1993)	Developmental biology
University Parthenope, Napoli, Italy	Associate Professor (2001-2006)	Human Biochemistry
University Parthenope, Napoli, Italy	Full Professor (2006-today)	Human Movement Sciences

**Research activity**

My research activity focused mainly on 3 fields:

- transcriptional regulation of the human Aldolase C gene, a nervous-specific genes mainly expressed stripe-like in the Purkinje cell layer of the cerebellum, using in vitro and in-vivo approaches. Recently we obtained the KO mouse model for aldolase C and actually the functional and behavioral characterization of aldolase C KO mice is in progress at CEINGE-biotecnologie avanzate in collaboration with different researchers present at CEINGE and in other Universities and Research centers;
- in the past 10 years I focused on genomic and epigenetic determinant in severe human obesity in collaboration with different research groups belonging from University Federico II, Napoli, CEINGE-biotecnologie avanzate and IRCCS Fondazione SDN, Napoli. We contributed in the identification and functional characterization of new mutations in MC4R gene, adiponectin, POMC, UCP3, associated with severe obesity and MTs in adult and childhood subjects living

in Campania as well as to identification of miRNA involved in the regulation of obesity master genes;

- Recently we started a research collaboration with University of Copenhagen focused on the study of molecular determinants in healthy longevity mediated by physical exercise and sport. I also focused on the research of new molecular biomarkers that will be used in the fight against GH or DEHA doping in athletes, in collaboration with University of Foro Italico, Roma, CEINGE-biotecnologie avanzate and IRCCS SDN, Napoli. For this study we obtained a Start-Cup-Regione Campania- prize in 2013

### Grants

-Prof. Buono was leading for Research projects approved by Regione Campania (2000, 2006) 200.000€; she was scientific coordinator for O.U. in three different PRIN projects approved by MIUR (2002; 2004; 2008) 250.000€; she was P.I. and scientific coordinator of a project approved by Italian Minister for the Health (2007-2011) 300.000€; she was leader and Scientific Coordinator of an O.U. in the PON FSE-Regione Campania-title Campania Research in Experimental Medicine-biotechnology-CRÈME-2011-2015, 200.000 €; Scientific Coordinator UO PRIN 2017-founded by MIUR 100.000€, 2019-today; -Scientific Coordinator of a research program on the effects of adapted physical activity in subjects with metabolic diseases, founded by University Parthenope, competitive grants, 2017-2019; 100.000€; P.I. UO PRIN-2017: ACTLIFE: IS ACTIVE LIFE STYLE ENOUGH FOR HEALTH AND WELLBEING? Founded by MIUR, 87000E.

### PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

**Communication skills** Excellent communication skills gained through my experience as a teacher of Higher Education; Master degree; Residency; PhD courses;  
 Good public engagement skills acquired during my work as a researcher both in the French and in Italy;  
 Excellent contact skills learned through my experience as an exercises coach in Master , Residency, PhD courses;

**Organisational/managerial skills** Excellent decision-making skills gained during my work as P.I. of research groups at University and at CEINGE-biotecnologie avanzate s.r.l. and IRCCS SDN, Napoli, Italy;  
 Team management skills gained during my experiences as in movement and sport for health;  
 Good ability to organise events learned during my public engagement activities in the Human Movement and Sport Sciences for National and International Meetings, PhD, seminar.

**Job-related skills** During my research activity experience, I have conducted biomolecular and training assessments, including the following

- ✓ DNA Sequencing; cell culture; Molecular biology technologies;
- ✓ animal model (transgenic and KO mice);
- ✓ Transcriptomic and proteomic assessments by chip- and Mass Spectrometry assay;
- ✓ Bioinformatic Tools;
- ✓ Use of Physical Activity Scale, questionnaires;
- ✓ Measures of cardiorespiratory performance by sub-maximal GXT protocol; muscle fitness, 1-RM evaluation; measure of PAL with accelerometers; measures of physical fitness in elderly by SFT; anthropometry measurements; hand-grip; skinfold;

- ✓ Assessments of balance and postural stability index tests.

Good communication gained through my public engagement activities;  
 Excellent teamwork experience gained during my job in multidisciplinary team;  
 Excellent negotiation skills acquired during my experiences as Team leader,  
 Excellent problem-solving skills learned during my research activities  
 Excellent leadership skills gained during my teaching and mentoring experiences  
 Good organisation skills acquired during my work as Meeting organizer;  
 Excellent ability to work under pressure learned during my activities.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Good command of the office suite (including all Microsoft Office software)  
 Good experience with SPSS analysis software  
 Competence of search engine (including Google Scholar, Pubmed, PEDRO, Copac and Wolfram)  
 Good experience with social media (including Facebook) used to improve the impact factor of research and public engagement activities

ADDITIONAL INFORMATION

Driving licence

A, B

Memberships

SISMES-Italian Society of Human Movement and Sport Sciences;  
 ECSS-European Society of Sport Sciences;  
 SIBloC-Italian Society of Clinical Biochemistry

Honours and awards

- P.I. at CEINGE-biotecnologie avanzate, s.r.l. Napoli, Italy; [www.ceinge.unina.it](http://www.ceinge.unina.it), from 2012-today
- Member of the Scientific Committee of IRCCS-SDN, Napoli, Italy from 2006-2018;
- Scientific Coordinator of PhD course in "Human Movement and Sport Sciences", DISMeB, University Parthenope, Napoli, Italy, XXXIII-XXXV cycle;
- Coordinator of Bachelor degree course "Human Movement sciences", L-22, 2019-2022;
- President of National Committee for National Scientific Abilitation, MIUR, ASN, SC 06/N2, 2018-2020;
- Coordinator of Professor College "Human Movement and Sport Sciences", 06/N2, from 2016-today;
- Past President of SISMeS (Italian Society of Human Movement and Sport Sciences), from 2014-2017;
- Member of Academic Senate, University Parthenope, Napoli from 2013-2016;
- Member of the Editorial Board of –Sport Sciences for Health-Springer Ed., Milano-Italy, 2014-today;
- Reviewer for ANVUR –National Agency for Research Quality Evaluation (REPRISE panel), -VQR 2011-today;
- Delegate for the ERASMUS program for the Faculty of Human Movement Sciences, University Parthenope, Italy, from 2005-2010;
- Delegate for TFA education program, University Parthenope, Italy, from 2006-2015;
- Component of the panel: Evaluation of critical issues about national nutrition and intervention strategies, Italian Ministry of Health, 2015-2016;
- Component of the Regional Panel -Campania Region- for the evaluation of Guidelines for the promotion of PA to prevent Non Communicable diseases, July 2017–February 2018;

- regional prize in Research and Innovation R&I –Start CupCampania-founded by MIUR and Campania Region entitled: Development of novel methodologies to be used in anti-doping fight-2013;

## List of publications

Complete list of my publications are available on : <https://ricerca.uniparthenope.it>;

Following selected most recent Publications related to the research fields:

-Mancini A, Turco AA, Tocchetti CG, Ermidis G, Cozzolino F, Campi G, Parrella P, Mercurio V, Mainolfi CG, Mannarino T, D'antonio A, Marra M, Polito R, Russomando L, Martone D, Orrù S, Daniele A, Capaldo B, Salvatore F, **Buono P.**: Adapted recreational football Small Sided Games improves cardiac capacity, body composition and muscular fitness in patients with type 2 diabetes: results from a pilot study. *J Sports Med Phys Fitness*. 2020 Jun 12. doi: 10.23736/S0022-4707.20.10498-5.

-Polito R, Monda V, Nigro E, Messina A, Di Maio G, Giuliano MT, Orrù S, Imperlini E, Calcagno G, Mosca L, Mollica MP, Trinchese G, Scarinci A, Sessa F, Salerno M, Marsala G, **Buono P**, Mancini A, Monda M, Daniele A, Messina G. The Important Role of Adiponectin and Orexin-A, Two Key Proteins Improving Healthy Status: Focus on Physical Activity. *Front Physiol*. 2020 Apr 22;11:356. doi: 10.3389/fphys.2020.00356. eCollection 2020. Review

-Imperlini E, Mancini A, Orrù S, Vitucci D, Di Onofrio V, Gallè F, Valerio G, Salvatore G, Liguori G, **Buono P**, Alfieri A. : Long-Term Recreational Football Training and Health in Aging. *Int J Environ Res Public Health*. 2020 Mar 21;17(6):2087. doi: 10.3390/ijerph17062087.PMID: Review.

- Nunziato M, Esposito MV, Starnone F, Diroma MA, Calabrese A, Del Monaco V, **Buono P**, Frasci G, Botti G, D'Aiuto M, Salvatore F, D'Argenio V.: A multi-gene panel beyond BRCA1/BRCA2 to identify new breast cancer-predisposing mutations by a picodroplet PCR followed by a next-generation sequencing strategy: a pilot study., *Anal Chim Acta*. 2019 Jan 10;1046:154-162.

-Mancini A, Vitucci D, Labruna G, Imperlini E, Randers MB, Schmidt JF, Hagman M, Andersen TR, Russo R, Orrù S, Krstrup P, Salvatore F, **Buono P**. Effect of lifelong football training on the expression of muscle molecular markers involved in healthy longevity., *Eur J Appl Physiol*. 2017 Mar 1. doi: 10.1007/s00421-017-3562-8. [Epub ahead of print]

-Gallè F, Di Onofrio V, Romano Spica V, Mastronuzzi R, Russo Krauss P, Belfiore P, **Buono P**, Liguori G. Improving physical fitness and health status perception in community-dwelling older adults through a structured program for physical activity promotion in the city of Naples, Italy: A randomized controlled trial. *Geriatr Gerontol Int*. 2016 Sep 15. doi: 10.1111/ggi.12879. [Epub ahead of print]

-Martone D, Giacobbe M, Capobianco A, Imperlini E, Mancini A, Capasso M, **Buono P**, Orrù S. Exercise intensity and technical demands of small-sided soccer games for under-12 and under-14 players: effect of area per player. *J Strength Cond Res*. 2016 Aug 18. [Epub ahead of print]

-Krustrup P, Williams CA, Mohr M, Hansen PR, Helge EW, Elbe AM, de Sousa M, Dvorak J, Junge A, Hammami A, Holtermann A, Larsen MN, Kirkendall D, Schmidt JF, Andersen TR, **Buono P**, Rørth M, Parnell D, Ottesen L, Bennike S, Nielsen JJ, Mendham AE, Zar A, Uth J, Hornstrup T, Brasso K, Nybo L, Krstrup BR, Meyer T, Aagaard P, Andersen JL, Hubball H, Reddy PA, Ryom K, Lobelo F, Barene S, Helge JW, Fatouros IG, Nassis GP, Xu JC, Pettersen SA, Calbet JA, Seabra A, Rebelo AN, Figueiredo P, Póvoas S, Castagna C, Milanovic Z, Bangsbo J, Randers MB, Brito J.: The "Football is Medicine" platform-scientific evidence, large-scale implementation of evidence-based concepts and future perspectives. *Scand J Med Sci Sports*. 2018 Aug;28 Suppl 1:3-7.

-Mancini A, Vitucci D, Randers MB, Schmidt JF, Hagman M, Andersen TR, Imperlini E, Mandola A, Orrù S, Krstrup P, **Buono P.**: Lifelong Football Training: Effects on Autophagy and Healthy Longevity Promotion., *Front Physiol*. 2019 Feb 19;10:132.

-Vitucci D, Imperlini E, Arcone R, Alfieri A, Canciello A, Russomando L, Martone D, Cola A, Labruna G, Orrù S, Tafuri D, Mancini A, **Buono P**. Serum from differently exercised subjects induces myogenic differentiation in LHCN-M2 human myoblasts. *J Sports Sci*. 2018 Jul;36(14):1630-1639.

-Nardelli C, Iaffaldano L, Pilone V, Labruna G, Ferrigno M, Carlomagno N, Dodaro CA, Forestieri P, **Buono P**, Salvatore F, Sacchetti L.: Changes in the MicroRNA Profile Observed in the Subcutaneous Adipose Tissue of Obese Patients after Laparoscopic Adjustable Gastric Banding. *J Obes*. 2017;2017:6754734.5.

-**Buono P**, D'Armiento FP, Terzi G, Alfieri A, Salvatore F.: Differential distribution of aldolase A and C in the human central nervous system. J Neurocytol. 2001 Dec;30(12):957-65.

*The undersigned Prof. Pasqualina Buono, born in Boscorecase (NA) on 29/09/1957 resident in Boscoreale (NA) (IT) at Via Panoramica, 25,- TC: BNUPQL57P69B077H declares that the information reported in this Curriculum Vitae consisting of n. 5 pages, are correct and true. I also declare that I am aware of what the affirmation of the truthfulness of the foregoing entails and that I am aware of the criminal sanctions pursuant to art. 76 of the Presidential Decree 28.12.2000, n. 445 "Consolidated text of the legislative and regulatory provisions on administrative documentation" and in particular of the provisions of art. 495 of the Criminal Code in case of false declarations or false attestations.*

*The above is presented in the form of self-certification (substitute declaration of certification and substitute declaration of deed of notoriety) pursuant to art. 19, 46 and 47 of Presidential Decree no. 445/2000.*

*I authorize the processing of my personal data present in the CV pursuant to art. 13 of Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and art. 13 of the GDPR (EU Regulation 2016/679).*

*I enclose a simple photocopy of a valid identification document, accompanied by the Tax Code, pursuant to art. 35 of Presidential Decree no. 445/2000.*