EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name

F-mail

COLLELUORI GEORGIA

g.colleluori@univpm.it or georgia.colleluori@gmail.com

Nationality Professional Board ITALIAN

National Board of Biologists: Ordine Nazionale dei Biologi AA 082939

WORK EXPERIENCE

• Dates (from - to)

• Name and address of employer

• Type of business or sector

- · Occupation or position held
- Main activities and responsibilities

NOVEMBER 2021 - PRESENT

Marche Polytechnic University

Department of Experimental and Clinical Medicine, Unit of Anatomy via Tronto 10A, 60020 Ancona Italy

Academic Research

Post-doctoral fellow

Morphofunctional studies of adipose tissues and hypothalamic centers regulating energy balance during early life development and in condition of obesity.

Duties: studies *in vivo* on mice models; performance of histomorphologic and ultrastructural studies; gene and protein expression studies (animal models and humans); project ideation, experiments performance, data analyses and manuscript elaboration.

- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

MAY 2020 - PRESENT

Centro per il Disturbo dell'Alimentazione Incontrollata e Obesità di Città della Pieve

Usl Umbria 1 Via Giacomo Villa 1 06062 PG, Italy

Obesity and Eating Disorder Care Center

Scientific Consultant

Teaching activities concerning obesity and binge eating disorders for Italian and Maltese healthcare providers and for students of the Master's degree in Food Science and Human Nutrition attending the University Campus Biomedico of Rome. Thesis co-supervisor.

Supervisor: Professor Laura Dalla Ragione.

- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - · Occupation or position held
- Main activities and responsibilities

SEPTEMBER 2014 - OCTOBER 2018

Baylor College of Medicine

Department of Endocrinology, Diabetes and Metabolism

1 Baylor Plaza 77030, Houston TX (USA)

Academic Research

Pre-doctoral fellow

Studies on bone, muscle, and adipose tissues and their crosstalk in older adults with obesity and frailty, or with hypogonadism and/or type 2 diabetes undergoing lifestyle interventions.

Duties: assessment of body composition, bone density and microarchitecture; circulating cytokines; evaluation of physical performance and lifestyle; dietary educational classes; molecular studies on muscle and adipose tissue biopsies; data analyses and interpretation; manuscript writing and elaboration of novel research directions.

Supervisors and Projects' Principal Investigators: Professors Dennis T. Villareal and Reina Armamento-Villareal.

to) SEPTEMBER 2014 - OCTOBER 2018

• Dates (from - to)

- · Name and address of employer
 - Type of business or sector
 - Occupation or position held
- · Main activities and responsibilities

Michael E. DeBakey Veterans Affair Medical Center

Center for Translational Research on Inflammatory Diseases (CTRID)

2002 Holcombe Blvd 77054, Houston TX (USA)

Academic Research

Research coordinator

Clinical trials coordination; main responsible of subject's recruitment, screening and monitoring; protocol writing and amendment; study referent for institutional review board and national regulatory agency (e.g., FDA). Participation to the training activities on clinical/basic research and coordination organized by CTRID.

Supervisors: Professors Dennis T. Villareal and Reina Armamento-Villareal.

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - · Title of qualification awarded
 - Dates (from to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - · Title of qualification awarded
 - Dates (from to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - · Title of qualification awarded

NOVEMBER 2018 - OCTOBER 2021

Marche Polytechnic University

Department of Experimental and Clinical Medicine, Unit of Anatomy

via Tronto 10A, 60020 Ancona Italy

Morphofunctional studies on hypothalamic nuclei regulating feeding behavior and on white and brown adipose tissues in physiologic and pathologic conditions (metabolic diseases). Duties: *in vivo* studies; histomorphologic and ultrastructural studies; gene and protein expression studies; experiments performance; data analyses and manuscript writing. Score: Excellent.

Supervisors: Professors Giorgio Barbatelli, Saverio Cinti and Antonio Giordano.

PhD

NOVEMBER 2012 - JULY 2014

University Campus Biomedico of Rome

Via Alvaro del Portillo 04000100 Rome, Italy

Food Science and Human Nutrition

110/110 *cum laude* and "Honorable mention for an extremely brilliant *curriculum studiorum*". Laboratory of Diabetes and Endocrinology. Thesis project "Irisin is associated with osteoporotic fractures independently of bone mineral density, body composition or daily physical activity". Supervisor: Professor Nicola Napoli.

Master's Degree

Classe di Laurea Magistrale in Scienze Biologiche LM-61

OCTOBER 2009 - JULY 2012

University Campus Biomedico of Rome

Via Alvaro del Portillo 04000100 Rome, Italy

Food Science and Human Nutrition; 110/110 *cum laude* and "Honorable mention for an extremely brilliant *curriculum studiorum*". Laboratory of Biochemistry of Nutrition. Thesis project "Gene transcription regulation in the adipose tissue: study of the effect of α tocopheryl-phosphate *in vitro*".

Supervisor: Professor Laura Dugo.

Bachelor's Degree

Classe di Laurea in Scienze Biologiche LS-12

OTHER TRAINING

- Dates (from to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

September 2019-October 2020

Usl Umbria 1 (National health-care system), Consulta Umbra and Associazione "Mi fido di Te"

Eating disorders biological basis, diagnosis, and treatment approaches. Title "Le buone pratiche di cura dei disturbi del comportamento alimentare: modelli organizzativi e paradigmi teorici".

- Dates (from to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

• Dates (from – to)

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

OTHER LANGUAGES

Reading skills

Writing skills

Verbal skills

November 27-30th and December 4-7th, 2020

European Association for the Study of Obesity "Train the Trainers Winter School"

I was one of the 40 European young researchers selected to participate to this prestigious training course covering hot topics on obesity clinical practice.

2-4th September 2019

European Association for the Study of Obesity "New Investigator United Autumn School"

I was one of the 30 European young researchers selected to participate to this prestigious training course covering hot topics on obesity basic and clinical research.

ITALIAN

ENGLISH

EXCELLENT

EXCELLENT

EXCELLENT

- Work experience as pre-doctoral fellow and research coordinator in USA (2014-2018).
- Teaching activities in English for Maltese healthcare providers (2021-2022).
- Chaperone of Italian High School students to Los Angeles, California (USA) to attend English Classes, organizer Umberto Ferrari, Study Tour.
- Speaker and interpreter in English for the International teams during the qualifications for the Under 21 Handball World Championship held in Pontinia (LT), Italy (2007).
- GRE Certificate from the USA Educational Testing Service (2017); FIRST (2008) and PET (2006) Certificates of English, University of Cambridge.

Other English Diploma from Malta, La Valletta College of English (2007); University College of Dublin (2006), and from the Royal High School of Bath (2005).

SPANISH

Reading skills

Writing skills

Verbal skills

BASIC

BASIC

BASIC

SOCIAL SKILLS AND COMPETENCES

Abilities to quickly adapt to new multicultural environments, interact and positively collaborate with new people. Strongly promoter of the team work as well demonstrated by the numerous experiences as group leader inside and outside of the work setting, and in national and international contexts detailed below.

ORGANISATIONAL SKILLS AND COMPETENCES

2021-Present: Supervisor of the PhD Student Chiara Galli at Marche Polytechnic University, Ancona Italy.

2022: Organizer of the World Obesity Day Webinar sponsored by the European Association for the Study of Obesity (March 4th, 2022).

2014-2018: Research coordinator, i.e., leader of the research groups of the clinical trials conducted by the principal investigator Reina Armamento-Villareal at Baylor College of Medicine Houston, TX (USA); coordination of the activities of researchers and technicians; management of the regulatory paperwork for protocol approval and amendments.

2017-2018: Member of the US Team Handball Competition Committee Board. Organization of

competition among the US handball team (Opened and Elite series).

2017-2018: Captain of the US Houston Firehawks Female Handball team.

2012: Participated to a Humanitarian Mission in Perù "CaÑete 2012 Project" and organizer of fund-raising initiatives to support the project.

2006-2009: Chief entertainer for the summer activities at the Residence Colle D'Alba di Levante (LT, Italy).

2005-2009: Captain of the Handball Team Cassa Rurale Pontinia playing the Italian A2 handball series.

TECHNICAL SKILLS AND COMPETENCES

Imaging studies in humans: by dual-x-ray absorptiometry (DXA) to assess body composition, bone mineral density, trabecular bone score; high-resolution peripheral-computed tomography (HR-pQCT) to assess bone geometry and microarchitecture; magnetic resonance (MRI) to assess visceral and subcutaneous adipose tissue content.

Histomorphology and ultrastructural studies: by light, confocal, and electron microscopy on human and mice adipose tissue samples and on mice brain sections in free floating.

In vivo studies: transgenic colony maintenance, mice handling, perfusion, and tissue dissection.

Molecular studies: DNA, RNA, and protein extraction and quantification; real-time qPCR, western blotting, enzyme-linked immunosorbent assay (ELISA). Genotyping and SNP detection assay.

Clinical trials: protocol design and study coordination; subjects' recruitment, screening, and monitoring. Application of lifestyle intervention protocols consisting of diet-induced weight loss and exercise; nutritional educational classes; food diary and questionnaires administration, data collection and interpretation. Assessment of muscle strength by Biodex. Blood draw and assistance to fat biopsies collection.

Software: Microsoft Word, Microsoft Excel, Microsoft Power-point; Adobe Reader. Graphpad Prism; Spss statistics; End note; Reference Manager.

ARTISTIC SKILLS AND COMPETENCES

Authors of four book chapters for the general audience, see section F.

DRIVING LICENCE(S)

ITALIAN Driver License B

ADDITIONAL INFORMATION

REVIEWER ACTIVITY

The Journal of Clinical Endocrinology and Metabolism

Frontiers in Endocrinology, section obesity

Frontiers in Nutrition

SCIENTIFIC MEMBERSHIP

New Investigator United for the Study of Obesity European Association for the Study of Obesity Società Italiana dell'Obesità

BIBLIOMETRIC INDEXES

Scopus: H-index 9, citations 327.

Google Scholar: H-index 12, citations 454.

Mean impact factor: 8,96

Scopus: https://www.scopus.com/authid/detail.uri?authorld=56521561100

ORCID LINK: https://orcid.org/0000-0002-4908-9873

ANNEXES

- a. PEER REVIEWED ORIGINAL ARTICLES
- b. PEER REVIEWED REVIEW ARTICLES
- c. PEER REVIEWED BOOK CHAPTERS
- d. SELECTED AWARDS AND HONOURS
- e. SELECTED PRESENTATION AT SCIENTIFIC MEETINGS
- f. OTHER BOOK CHAPTERS

I hereby authorize the publication of my CV on the Marche Polytechnic University website

- 1. A single-cell atlas of human and mouse white adipose tissue. Emont, M.P., Jacobs, C., Essene, A.L., Pant., D., Tenen, D., Colleluori, G., (...), Tsai, L.T., Rosen, E.D. Nature, 2022. doi:10.1038/s41586-022-04518-2.
- Visceral fat inflammation and fat embolism are associated with lung's lipidic hyaline membranes in subjects with COVID-19. Colleluori, G., Graciotti, L., Pesaresi, M., et al., Internationa Journal of Obesity, 2022. doi:10.1038/s41366-022-01071w
- 3. Hemoglobin A1c Threshold for Reduction in Bone Turnover in Men with Type 2 Diabetes Mellitus. Joad, S., Ballato, E., Deepika, F.N.U., Gregori, G., Fleires-Guitierrez, A.L., Colleluori, G., (...), Villareal, D.T., Armamento-Villareal, R. Frontiers in Endocrinology, 2021. doi:10.3389/fendo.2021.788107
- 4. High-fat diet impairs mouse median eminence: a study by transmission and scanning electron microscopy coupled with raman spectroscopy. Severi I., Fosca M., Colleluori, G., (...) Rau J.V., Giordano A. International Journal of Molecular Sciences, 2021. doi:10.3390/ijms22158049
- 5. Recruitment and remodeling of peridroplet mitochondria in human adipose tissue. Acín-Perez, R., Petcherski, A., Veliova, M., Benador, I.Y., Assali, E.A., Colleluori, G., (...), Sacks, H.S., Shirihai, O.S. Redox Biology, 2021. doi:10.1016/j.redox.2021.102087
- Testosterone Therapy Effects on Bone Mass and Turnover in Hypogonadal Men with Type 2 Diabetes. Colleluori, G., Aguirre, L., Napoli, N., Qualls, C., Villareal, D.T., Armamento-Villareal, R. Journal of Clinical Endocrinology and Metabolism, 2021. doi:10.1210/clinem/dgab181
- 7. In Men With Obesity, T2DM Is Associated With Poor Trabecular Microarchitecture and Bone Strength, and Low Bone Turnover. Vigevano, F., Gregori, G., Colleluori, G., Chen, R., Autemrongsawat, V., Napoli, N., Qualls, C., Villareal, D.T., Armamento-Villareal, R. Journal of Clinical Endocrinology and Metabolism, 2021. doi:10.1210/clinem/dgab061
- 8. Testosterone therapy and bone quality in men with diabetes and hypogonadism: Study design and protocol. Russo, V., Colleluori, G., Chen, R., ...Villareal, D.T., Armamento-Villareal, R. Contemporary Clinical Trials Communications, 2021. doi:10.1016/j.conctc.2021.100723
- 9. Eating Disorders during COVID-19 Pandemic: the Experience of Italian Healthcare Providers. Colleluori, G., Goria, I., Zillanti, C., Marucci, S., Dalla Ragione, L. Eating and Weight Disorders, 2020. doi:10.1007/s40519-021-01116-5
- 10. Epidermal Acyl-CoA-binding protein is indispensable for systemic energy homeostasis. Nees, D., Kruse, V., Marcher, A., [...], Colleluori, G., Severi, I., Cinti, S., Gerhart-Hines, Z., Mandrup, S., Faergeman, N.K. Molecular Metabolism, 2020. doi:10.1016/j.molmet.2020.101144
- 11. Single-nucleus RNA-Seq Reveals a new type of brown adipocyte regulating thermogenesis. Wanfei, S, Dong, H., Balaz, M., Slyper, M., Drokhlyansky, E., Colleluori, G., (...) Wolfrum, C. Nature, 2020. doi:10.1038/s41586-020-2856-x
- 12. Biomarkers of Browning in Cold Exposed Siberian Adults. Efremova, A.*, Colleluori, G*., (...) Giordano, A., Cinti, S. Nutrients, 2020. doi:10.3390/nu12082162. *Co-First Author.
- 13. Aromatase Inhibitors Plus Weight Loss Improves the Hormonal Profile of Obese Hypogonadal Men Without Causing Major Side Effects. Colleluori, G., (...), Villareal, D.T., Armamento-Villareal, R. Frontiers in Endocrinology, 2020. doi:10.3389/fendo.2020.00277
- 14. Aerobic plus Resistance Exercise in Obese Older Adults Improves Muscle Protein Synthesis and Preserves Myocellular Quality Despite Weight Loss. Colleluori, G., Aguirre, L.E., Phadnis, U., (...) Villareal, D.T. Cell Metabolism, 2019. doi:10.1016/j.cmet.2019.06.008
- 15. Response to Testosterone Therapy varies According to rs1062033 and rs700518 Polymorphisms of CYP19A1 in Men with Hypogonadism. Aguirre, L*., Colleluori, G*., Robbins, D., Dorin, R., (...), Villareal, D.T, Armamento-Villareal, R. Endocrine, 2019. doi:10.1007/s12020-019-02008-6. *Co-first Authors
- 16. Fat Mass Follows a U-Shaped Distribution Based on Estradiol Levels in Post-Menopausal Women. Colleluori, G., Chen, R., Napoli, N., (...) Villareal, D.T., Armamento-Villareal, R. Frontiers in Endocrinology, 2018. doi:10.3389/fendo.2018.00315
- 17. Adipocytes ESR1 Expression, Body Fat and Response to Testosterone Therapy in Hypogonadal Men Vary According to Estradiol Levels. Colleluori, G., Aguirre, L.E., Qualls, C., (...), Villareal, D.T., Armamento-Villareal, R. Nutrients, 2018. doi:10.3390/nu10091226.

- 18. Men with Low Testosterone but Higher BMI have Higher Bone Mineral Density and Lower Muscle Mass. Aguirre, L.E.*, Colleluori, G*., Dorin, R., (...), Villareal, D.T., Armamento-Villareal, R. Calcified Tissue International, 2017. doi:10.1007/s00223-017-0316-x. *Co-first authors.
- 19. Hypogonadal Men with Type 2 Diabetes have Smaller Bone Size and Lower Bone Turnover. Colleluori, G., Aguirre, L., Dorin, R., (...), Villareal, D.T., Armamento-Villareal, R. Bone, 2017. doi:10.1016/j.bone.2017.03.039
- 20. Effect of Weight Loss, Exercise or Both on Undecarboxylated Osteocalcin and Insulin Secretion in Elderly Obese Adults. Colleluori, G., Napoli, N., Phadnis, U., (...), Villareal, D.T. Oxidative Medicine and Cellular Longevity, 2017. doi:10.1155/2017/4807046
- 21. High aromatase activity in hypogonadal men is associated with higher spine bone mineral density, increased truncal fat and reduced lean mass. Aguirre, L.E., Colleluori, G., Fowler, K.E., (...), Villareal, D.T., Armamento-Villareal, R. European Journal of Endocrinology, 2015. doi: 10.1530/EJE-14-1103.
- 22. The FTO gene is associated with a paradoxically favorable cardiometabolic risk profile in frail, obese older adults. Armamento-Villareal, R., Wingkun, N., Aguirre, L.E., Kulkarny, V., Napoli, N., Colleluori, G., Qualls, C., and Villareal, D.T. Pharmacogenetics and Genomics, 2015. doi:10.1097/FPC.0000000000000001.
- 23. Genetic Polymorphism at Val80 (rs700518) of the CYP19A1 Gene is Associated with Body Composition Changes in Women on Aromatase Inhibitors for ER (+) Breast Cancer. Napoli, N., Rastelli, A., Ma, C., Colleluori, G., Vattikuti, S., Armamento-Villareal, R. Pharmacogenetics and Genomics, 2015. doi:10.1097/FPC.000000000000146
- 24. Irisin is associated with osteoporotic fractures independently of bone mineral density, body composition or daily physical activity. Palermo, A., Strollo, R., Maddaloni, E., Tuccinardi, D., D'Onofrio, L., Briganti, S.I., Defeudis, G., De Pascalis, M., Lazzaro, M.C., Colleluori, G., Manfrini, S., Pozzilli, P., Napoli, N. Clinical Endocrinol (Oxf), 2015. doi: 10.1111/cen.12672.

b. PEER REVIEWED REVIEW ARTICLES

- 1. Early Life Stress, Brain Development, and Obesity Risk: Is Oxytocin the Missing Link? Colleluori, G., Galli, C., Severi, I., Perugini, J., Giordano, A. Cells, 2022. 10.3390/cells11040623
- 2. Aging, obesity, sarcopenia and the effect of diet and exercise intervention. Colleluori, G., Villareal, D.T., Experimental Gerontology, 2021. 10.1016/j.exger.2021.111561
- 3. Mammary gland adipocytes in lactation cycle, obesity and breast cancer. Colleluori, G., Perugini, J., Barbatelli, G., Cinti, S. Review in Endocrine and Metabolic Disorders, 2021. doi: 10.1007/s11154-021-09633-5.

c. PEER REVIEWED BOOK CHAPTERS

- 1. Brown Fat Anatomy in Humans and Rodents. Colleluori, G., Perugini, J., Di Vincenzo, A., Senzacqua, M, Giordano, A., Cinti, S. Methods in Molecular Biology, 2022. doi:10.1007/978-1-0716-2087-8 2
- 2. From Obesity to Diabetes: The Role of the Adipose Organ. Colleluori G., Perugini J., Giordano A. Handbook of Experimental Pharmacology, 2022. doi:10.1007/164_2021_572

d. SELECTED AWARDS AND HONOURS

- Winner of the Best Oral Presentation in Basic Science, at the X National Congress on Obesity, San Vincenzo (LI), Italy, 27-29
 October 2021.
- 2. Winner of the World Obesity Day Grant (EUR 4200), European Association for the Study of Obesity, (sum of the years 2020 2022).
- 3. Winner of the competition Emerging Leaders in Nutrition (II place), 2018 American Society of Nutrition annual congress, Boston, MA (USA).
- 4. Selected for participation at the Endocrine Society's Presidential Poster Competition, ENDO 2018, Chicago, IL (USA).
- 5. Winner of Endocrine Society Outstanding Abstract Awards, ENDO 2018, Chicago, IL (USA).
- 6. Winner of 2017 Excellence Fellowship (USD 25516), Department of Nutrition and Food Science, College of Agriculture and Life Sciences, Texas A&M University, College Station, TX (USA).

- 7. Selected for participation at the Endocrine Society's Presidential Poster Competition ENDO 2016, Boston, MA (USA).
- 8. Winner of Endocrine Society Outstanding Abstract Awards, ENDO 2016, Boston, MA (USA).
- 9. Winner of 2016 Bone Texas Program Award (II place), Baylor College of Medicine, Houston TX (USA).
- 10. Winner of Young Investigator Award, 2016 American Society of Bone and Mineral Research annual congress (ASBMR), Atlanta, GA (USA).
- 11. Winner of the Merit Scholarship (EUR 5000) for a brilliant curriculum studiorum, sponsored by PalaLottomatica, University Campus Biomedico of Rome (Italy), 2013.

e. SELECTED PRESENTATION AT SCIENTIFIC MEETINGS

- Oral Communication, annual scientific meeting organized by Società Italiana Obesità, Livorno (Italy), October 27th-29th 2021. Project title: "Visceral Adipose Tissue Inflammation and Fat Embolism in COVID-19 patients with Obesity: a Histomorphologic Cross-sectional Study".
- 2. Oral Communication, annual scientific meeting "European and International Congress on Obesity" ECOICO 2020, Dublin. 17-20th May 2020. Project title: "Mammary Gland Adipoepithelial Remodeling during the Lactation Cycle".
- 3. Invited speaker, annual meeting retreat in Endocrinology organized by Campus Biomedico of Rome, Orvieto January 17-18th, 2019 (Italy).
- 4. Oral Communication, annual congress organized by the American Society of Nutrition Annual (ASN 2018), Boston (MA, USA) June 9th-12th, 2018. Project title: "Aerobic plus Resistance Exercise in Obese Older Adults Improves Muscle Protein Synthesis and Preserves Myocellular Quality Despite Weight Loss".

f. OTHER BOOK CHAPTERS

- 1. Author of "Corpi per nascondersi: obesità e disturbi da binge eating", published in Manuale I disturbi della nutrizione e dell'alimentazione: un'epidemia nascosta. CINECA and Italian Ministry of Health 2021.
- 2. Author of "I DNA durante la pandemia da Covid-19" published in Manuale I disturbi della nutrizione e dell'alimentazione: un'epidemia nascosta. CINECA and Italian Ministry of Health 2021.
- 3. Author of "Un approccio etico all'obesità", published in Cuori Invisibili. Obesità e disturbo da alimentazione incontrollata in età evolutiva. Il Pensiero Scientifico Editore 2020.
- 4. Author of "Prevenzione dell'obesità: strategie, attori e obiettivi", published in Cuori Invisibili. Obesità e disturbo da alimentazione incontrollata in età evolutiva. Il Pensiero Scientifico Editore 2020.