Marcella Palumbo, Ph.D.

PERSONAL INFORMATION

Place and date of birth: Matera, 29.04.1990.
Nationality: Italian
Personal address: Viale Mentana 92, Parma, PR, 43123
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CURRENT EMPLOYMENT

From February 1st, 2026 to January 31st, 2027:

Post-doctoral Fellowship; Art. 22 of Law No. 240/2010.
PHARMACOLOGY (SSD **BIOS-11/A**)
Department of Food and Drug, University of Parma
https://saf.unipr.it/en/ugov/person/216671#contatti

EDUCATION AND TRAINING

2020-2024 Ph.D. student in Drug Sciences (CICLO XXXVI), Department of Food and Drug, University of Parma.
Ph.D. degree obtained on May 7th, 2024. Final grade: Very Good.
Supervisor: Francesca Zimetti
Thesis title: "Disturbances and pharmacological modulation of serum functional lipid profile in patients with cardiovascular and neurodegenerative diseases".
2019 Master's Degree in Medical, Veterinary, and Pharmaceutical Biotechnologies (LM-9). Thesis title: Alterazioni specifiche del metabolismo delle lipoproteine ad alta densità e patogenesi dell'Aneurisma dell'Aorta Addominale. 110/110 cum Laude, University of Parma.
2016 Bachelor's Degree in Biological Sciences (L-13). Thesis title: Identificazione della mutazione 'lesion mimic' in orzo (Hordeum vulgare L.). 91/110, University of Bologna.

PROFESSIONAL EXPERIENCE

February 1st, 2026-present Post-doctoral research fellowship (Art. 22 of Law No. 240/2010. PHARMACOLOGY. SSD BIOS-11/A) concerning "In vitro studies for the identification of novel molecules with inhibitory activity against the PCSK9 protein and evaluation of their modulatory effect on cellular cholesterol metabolism" effective from 01.02.2026 to 31.01.2027, at the Lipid Pharmacology Laboratory directed by Prof. Francesca Zimetti, Department of Food and Drug Sciences, University of Parma.
2025-2026 Post-doctoral research fellowship (Art. 22 of Law No. 240/2010. PHARMACOLOGY. SSD BIOS-11/A) concerning "In vitro studies for the identification of novel molecules with inhibitory activity against the PCSK9 protein and evaluation of their modulatory effect on cellular cholesterol metabolism" effective from 01.02.2025 to 31.01.2026, at the Lipid Pharmacology Laboratory directed by Prof. Francesca Zimetti, Department of Food and Drug Sciences, University of Parma.
2024- 2025 Post-doctoral research fellowship (Art. 22 of Law No. 240/2010. PHARMACOLOGY. SSD BIO-14; now Scientific Discipline BIOS-11/A-Pharmacology) concerning "In vitro and in vivo characterization of novel molecules with inhibitory activity against PCSK9 as a potential pharmacological strategy for the treatment of Alzheimer's disease", effective from 01.02.2024 to 31.01.2025, at the Lipid Pharmacology Laboratory directed by Prof. Franco Bernini, Department of Food and Drug Sciences, University of Parma.

2020-2024 Winner of the ministerial fellowship for the Ph.D. Course in Drug Sciences (Supervisor: Prof. Francesca Zimetti) at the Lipid Pharmacology Laboratory directed by Prof. Franco Bernini, Department of Food and Drug Sciences, University of Parma. Legal duration of three years starting from 01/11/2020 until 31/10/2023, extended for a further three months until 31/01/2024 pursuant to Decree-Law No. 41 of 22 March 2021, converted into Law No. 69 of 21 May 2021, containing urgent measures concerning support for businesses and economic operators, employment, health, and territorial services related to the COVID-19 emergency.
2019-2020 Post-graduate research fellowship concerning the "Pathophysiological role of the PCSK9 protein in Alzheimer's disease: impact on lipid metabolism and neuroinflammation", effective from 01.09.2019 to 30.09.2020, at the Lipid Pharmacology Laboratory directed by Prof. Franco Bernini, Department of Food and Drug Sciences, University of Parma, Parma, Italy.

RESEARCH EXPERIENCE ABROAD

Nov 2022-Apr 2023 Six-month research experience within the "European Mobility" programme at the Vascular Medicine Laboratory directed by Prof. Monique T. Mulder, Erasmus MC, Rotterdam, The Netherlands. Research project: evaluation of the effects of Saringosterol and brown algae extracts on cholesterol metabolism and neuroinflammation using a primary human astrocyte model.

POST-GRADUATE TRAINING COURSES

2023

-Practical training course "Practical modules for rodents 3.2 - 6.2 – 8" at the Department of Veterinary Medical Sciences, Alma Mater Studiorum - University of Bologna, Ozzano dell'Emilia (BO), Italy.
-Participation in the course "Global Health Challenge", within the Erasmus+ Blended Intensive Programme PARIS-KU LEUVEN-PARMA, and **awarded** by an expert jury for the presentation of an innovative Biotechnological Project, May–June 2023, Paris-Saclay University, Paris, France.

2022

Attendance and successful completion of online courses available on the IZSLER platform:

- "BIOLOGY AND MANAGEMENT OF LABORATORY ANIMALS, MODULES 3.1, 4, 5, 6.1, 7. DM AUGUST 5, 2021 – RODENTS AND LAGOMORPHS".
- "ETHICS AND PROJECT DESIGN, MODULES 9, 10, 11, DM AUGUST 2021".
- "NATIONAL LEGISLATION AND ETHICS LEVEL 1, MODULES 1 AND 2, DM AUGUST 5, 2021".
- "BASIC ELEMENTS FOR RESEARCHERS APPROACHING THE USE OF ANIMALS FOR SCIENTIFIC PURPOSES".

2019

Participation in the Advanced Course in Clinical Lipidology (SISA Lipid Academy); Modena, Italy, July 4–6, 2019.

RESEARCH ACTIVITY

My research background focuses on the study of the cardiovascular system in both basic and applied research settings, aimed at investigating, in different clinical contexts, whether genetic status, as well as nutritional, nutraceutical, and pharmacological interventions, can modulate the functional lipid profile of serum. This profile is evaluated through the ability of serum HDL to promote cholesterol efflux in cellular models, the ability of serum lipoproteins to induce cholesterol loading in cellular models, and PCSK9 levels, with the final goal of preventing and treating cardiovascular diseases.

These studies are mainly conducted in vitro and ex vivo using cell-based assays and evaluating several parameters related to cholesterol metabolism, such as cholesterol uptake and efflux. Research activity also

focuses on the evaluation of the antioxidant and anti-inflammatory activities of HDL, their atheroprotective function, and their alteration in different clinical conditions associated with increased cardiovascular risk or following pharmacological or nutraceutical interventions.

More specifically, during my research activity, I evaluated the functionality of serum HDL and cerebrospinal fluid HDL from Alzheimer's disease and Multiple Sclerosis patients using brain cell models.

TECHNICAL SKILLS

Cell cultures: preparation, maintenance, and use of different cell types, including primary and immortalized cells. Primary cells: human astrocytes (HA). Immortalized cell lines: murine macrophages (J774 and RAW 264.7), human monocytes (THP-1), Chinese hamster ovary cells (CHO), human neuroblastoma cells (SHSY-5Y), human astrocytoma cells (U-373), human hepatoma cells (Huh7, HepG2), human epidermal keratinocytes (HaCaT), retinal pigment epithelial cells (ARPE-19).

Cellular cholesterol homeostasis: evaluation using radioisotopic and fluorimetric techniques of: 1) cellular cholesterol efflux and uptake; 2) ability of human serum and cerebrospinal fluid HDL to promote cellular cholesterol efflux; 3) ability of human serum to promote cholesterol accumulation in cells; 4) cholesterol synthesis; 5) cholesterol distribution in the plasma membrane.

Lipoproteins: quantification of total proteins and cholesterol in lipoproteins. Evaluation of HDL protein composition (serum amyloid-A, paraoxonase-1, etc.) by ELISA assays and enzymatic methods. Chemical acetylation and oxidation of LDL. Verification of lipoprotein modification by agarose gel electrophoresis. Preparation of reconstituted HDL using dialysis techniques. Isolation of serum HDL fraction by polyethylene glycol (PEG) precipitation.

Molecular Biology: DNA and RNA isolation from cells and tissues; gene expression analysis by RT-PCR; protein expression analysis by Western blot; ELISA assays; preparation of tissue sections with immunohistochemical staining.

Cellular functions: evaluation of cytokine, chemokine, and adipokine secretion by ELISA assays. Cytotoxicity determination by colorimetric methods (MTT).

In vivo studies: experience in handling murine experimental models maintained in conventional animal facilities. Evaluation of the in vivo effects of different formulations administered by subcutaneous injection or gavage in rats and mice. Perfusion, fixation, and organ isolation following sacrifice. Preparation of liver histological slides (hematoxylin/eosin staining) and brain slides (Nissl staining). Quantification of plasma and tissue cholesterol and protein levels using fluorimetric or colorimetric assays.

Data analysis and scientific writing: good skills in statistical analysis and interpretation of scientific data. Good skills in manuscript and scientific report writing.

COMPUTER AND LANGUAGE SKILLS

Excellent command of the following software packages: Microsoft Word, Microsoft Excel, Microsoft PowerPoint. Excellent use of GraphPad Prism software for statistical analysis of scientific data and Mendeley software for bibliography management. Online research: use of PubMed, GenBank, Protein Data Bank (PDB), and PubChem databases.

Native language: Italian
Other languages: English, French

ENGLISH
• Reading skills: excellent

• Writing skills: excellent
• Speaking skills: excellent

FRENCH
• Reading skills: good
• Writing skills: good
• Speaking skills: good

TEACHING SUPPORT AND SUPPLEMENTAL ACTIVITIES

1. Teaching support activities

Academic Year 2025/2026

- Appointed Subject Expert (Cultore della Materia) for the Scientific Disciplinary Sector BIO-11/A, for teaching activities and examinations in Pharmacology/Toxicology held by Prof. Francesca Zimetti, Master's Degree Course in Human Nutrition Sciences, University of Parma.

- Delivery of one Pharmacology seminar (2 hours) integrated in the Pharmacology/Toxicology course held by Francesca Zimetti, Scientific Disciplinary Sector BIO-11/A, Master's Degree Course in Human Nutrition Sciences, University of Parma. Seminar topic: Fatty Acids.

- Member of the examination committee for the integrated course of Pharmacology/Toxicology course held by Prof. Francesca Zimetti, Scientific Disciplinary Sector BIO-11/A, Master's Degree Course in Human Nutrition Sciences, University of Parma.

- Support for laboratory practical activities within the Pharmacology/Toxicology course held by Prof. Francesca Zimetti, Scientific Disciplinary Sector BIO-11/A, Master's Degree Course in Human Nutrition Sciences, University of Parma.

Academic Year 2024/2025

Appointed Subject Expert (Cultore della Materia) for the Scientific Disciplinary Sector BIO-11/A, for teaching activities and examinations in Pharmacology/Toxicology held by Prof. Francesca Zimetti, Master's Degree Course in Human Nutrition Sciences, University of Parma.

Academic Year 2023/2024

Appointed Subject Expert (Cultore della Materia) for the Scientific Disciplinary Sector BIO-14, for teaching activities and examinations in Pharmacology/Toxicology held by Prof. Franco Bernini, Master's Degree Course in Human Nutrition Sciences, University of Parma.

Academic Year 2021/2022

Support for laboratory practical activities within the Pharmacology/Toxicology course held by Prof. Franco Bernini, Scientific Disciplinary Sector BIO-14, Master's Degree Course in Human Nutrition Sciences, University of Parma.

Academic Year 2020/2021

Support for laboratory practical activities within the "Experimental Pharmacology" course (Prof. Elisabetta Barocelli), Scientific Disciplinary Sector BIO-14, Master's Degree Course in Pharmaceutical Chemistry and Technology, University of Parma.

2. Tutoring activities and thesis supervision

Since academic year 2021-2022, thesis tutoring activities for 10 students enrolled in the following degree programs:

- Master's Degree in Human Nutrition Sciences: 1 literature-based thesis. Expected graduation: October 2026
- Master's Degree in Medical, Veterinary and Pharmaceutical Biotechnology: 6 experimental theses: 1 thesis in academic year 2021-2022; 3 theses in 2022-2023; 2 theses in 2023-2024;
- Single-cycle Master's Degree in Chemistry and Pharmaceutical Technologies (CTF): 3 experimental theses: 1 thesis in academic year 2022-2023; 2 theses in academic year 2024-2025.

Academic Year 2022/2023

Guidance and tutoring activities related to the Project: "Orienta Food" (azione b) – D.M. 752/2021), effective from 9.11.22 to 15.12.23 (125 hours).

RESEARCH PROJECTS FUNDED UNDER COMPETITIVE CALLS FOR PROPOSALS

2023

Project funded by the University of Parma following a competitive call (University Call 2023 for Research, Action A) entitled "Exploring brain and serum HDL (dys)functions in Multiple Sclerosis (HDLinMS)". **Role: Co-investigator**

2022

Scientific project within the PNRR framework, Investment 1.1 "Fund for the National Research Program and Projects of Significant National Interest (PRIN)", 2022 Call, ERC Sector LS7, "Pharmacological inhibition of PCSK9 in Alzheimer's disease: in vitro and in vivo studies (TREAT-AD)". **Role: Co-investigator**

2021

Project funded by the University of Parma following a competitive call (Scouting and Consolidation Research Projects; 2022–2024) entitled "Development of first-in-class anti-Alzheimer's agents targeting PCSK9". **Role: Co-investigator**

NATIONAL AND INTERNATIONAL RESEARCH AWARDS AND RECOGNITIONS

2026

Award for Best Poster Presentation at the 11° Spring Meeting Giovani Ricercatori SID, SIGG, SIIA, SIMI, SIPREC, SISA. (**National award**)

2025

Recipient of the EAS Young Investigator Fellowship at the 93rd Congress of the European Atherosclerosis Society (EAS), Glasgow, United Kingdom. (**International award**)

2024

Award for Best Poster Presentation at the VII Forum SIRC "New Roads in Cardiovascular Research". (**National award**)

2021-2026

Recipient of **six Travel Grants** awarded by the Italian Society for the Study of Atherosclerosis (SISA) for the best abstracts submitted, supporting participation in the Society's National Congresses.

2022 and 2024

Recipient of **two Travel Grants** awarded by the Italian Society for the Study of Atherosclerosis (SISA) for the best abstracts submitted, supporting participation in the 90th and 92nd Congresses of the European Atherosclerosis Society (EAS).

MEMBERSHIP IN NATIONAL AND INTERNATIONAL SCIENTIFIC SOCIETIES

Member of the Italian Society of Pharmacology (SIF) (since 2021, participant in the Cardiovascular and Metabolic Working Group, and since 2026, participant in the Neurodegenerative Diseases Working Group of SIF), the Italian Society for the Study of Atherosclerosis (SISA), the European Atherosclerosis Society (EAS), the European Lipoprotein Club (ELC), and BraYn – Brainstorming Research Assembly for Young Neuroscientists.

CONFERENCE ATTENDANCE

Marcella Palumbo has participated in 22 national and international scientific conferences, including 1 invited lecture, 13 poster presentations, and 8 oral presentations; more than 10 participations as co-author.

2026

11° Spring Meeting Giovani Ricercatori SID, SIGG, SIIA, SIMI, SIPREC, SISA
"Effect of elexacaftor/tezacaftor/ivacaftor therapy on serum lipoprotein functions in adults with cystic fibrosis". Rimini (IT), 19-21.04.26. **Poster presentation**.

2025

XXVI Conference of Young SIF Pharmacologists
"Effect of elexacaftor/tezacaftor/ivacaftor therapy on serum lipoproteins functions in adults with cystic fibrosis". Bologna (IT), 1.12.25. **Oral presentation**.

39° Congresso Nazionale SISA
"Cerebrospinal fluid and plasma HDL (dys)function in Multiple Sclerosis". Roma (IT), 23-25.11.25. **Oral presentation**.

8° BraYn Conference 2025
"Cerebrospinal fluid and plasma HDL (dys)function in Multiple Sclerosis". Torino (IT), 29-31.10.25. **Speed talk and poster presentation.**

First PANVIRIDE Drug Discovery Conference
"Small-Molecule PCSK9 Inhibitors modulate cellular cholesterol metabolism: possible implications in viral infections". Catanzaro (IT), 30.09.2025. **Poster presentation**.

Congresso Regionale SISA Sezione Emilia-Romagna
"Valutazione della (dys)funzione delle HDL del fluido cerebrospinale e del siero nella sclerosi multipla". Ferrara (IT), 07.06.2025. **Oral presentation**.

93rd EAS Congress
"Cerebrospinal fluid and plasma HDL (dys)function in Multiple Sclerosis". Glasgow (UK), 4-7.05.2025. **Oral presentation**.

10° Spring Meeting Giovani Ricercatori SID, SIGG, SIIA, SIMI, SIPREC, SISA
"Cerebrospinal fluid and plasma HDL (dys)function in Multiple Sclerosis". Rimini (IT), 6-8.04.2025. **Poster presentation**.

2024

38° Congresso Nazionale SISA
"Cerebrospinal fluid and plasma HDL (dys)function in Multiple Sclerosis". Bologna (IT), 1-3.12.24. **Poster presentation**.

42° Congresso Nazionale SIF

"Effect of a diet supplementation with LXR agonists-containing Himanthalia Elongata and Sargassum Fusiforme extracts on cognitive function in AD mice models". Sorrento (IT), 13-16.11.2024. **Oral presentation**.

VII Giornata della Ricerca del Centro E. Grossi Paoletti

"The complex link between cholesterol and neurodegenerative diseases: focus on HDL and multiple sclerosis". Milano (IT), 28.06.2024, "HDL Symposium – HDL: Milestones and Future Perspectives". **Invited speaker**.

VII Forum SIRC "New Roads in Cardiovascular Research"

"Serum lipoprotein dysfunction is a major determinant and independent clinical marker of coronary atherosclerosis and high cardiovascular risk in patients with rheumatoid arthritis". Parma (IT), 21.06.24. **Poster presentation**.

92nd EAS Congress

"Identification of new side chain oxidized sterols as novel liver X receptor agonists with therapeutic potential in the treatment of cardiovascular and neurodegenerative diseases". Lyon (FR), 26-29.05.24. **Poster presentation**.

2023

37° Congresso Nazionale SISA

"Identification of two new Side Chain Oxidized Sterols as Novel Liver X Receptor Agonists with Therapeutic Potential in the Treatment of Cardiovascular and Neurodegenerative Diseases". Napoli (IT), 26-28.11.23. **Poster presentation**.

Monotematico SIF GdL Cardiovascolare e del Metabolismo

"Identification of two new Side Chain Oxidized Sterols as Novel Liver X Receptor Agonists with Therapeutic Potential in the Treatment of Cardiovascular Diseases". Parma (IT), 16-17.10.23, **Poster presentation**.

46th European Lipoprotein Club Meeting

"Identification of two new Side Chain Oxidized Sterols as Novel Liver X Receptor Agonists with Therapeutic Potential in the Treatment of Cardiovascular and Neurodegenerative Diseases". Tutzing (DE), 11-14.09.2023. **Poster presentation**.

2022

ULLA Summer Schools 2022

"Effects of PCSK9 inhibitors on HDL cholesterol efflux and serum cholesterol loading capacity in familial hypercholesterolemia subjects: a multi-lipid-center real-world evaluation". Uppsala (SE), 2-9.07.22. **Poster presentation.**

Spring Meeting Giovani Ricercatori SIIA-SIMI-SISA 2022

"Effect of PCSK9 inhibitors treatment on serum lipoprotein functions in subjects with familial hypercholesterolemia: a multi-lipid-center real-word evaluation". Rimini (IT), 5-7.06.22. **Oral presentation**.

90th EAS Congress

"Inhibition of PCSK9 affects serum lipoprotein functions in patients with familial hypercholesterolemia". Milano (IT), 22-25.05.2022. **Poster presentation**.

2021

Congresso Regionale SISA Sezione Emilia-Romagna

"Serum lipoprotein functions in FH patients with tendon xanthomas". Virtual edition, 18.09.2021. **Oral presentation**.

ULLA Summer Schools 2021

"Relationship between serum lipoprotein functions and Tendon Xanthomas in patients with Familial Hypercholesterolemia". Virtual edition, 6-8.07.2021. **Poster presentation**.

Spring Meeting Giovani Ricercatori SIIA-SIMI-SISA 2021

"Effects of gender-affirming hormone therapy on cholesterol efflux capacity in transgender individuals". Virtual edition, 21-22.05.2021. **Oral presentation**.

EDITORIAL ACTIVITIES

Since 2025, manuscript review activity for the following journals: Frontiers and Atherosclerosis Plus.

PUBLIC ENGAGEMENT ACTIVITIES

2024-2025

Contribution to the organization at the annual European event *European Researchers' Night*, held at the Department of Food and Drug Sciences, University of Parma.

2026

Member of the local organizing secretariat for the annual global event UniStem Day, dedicated to biomedical research and stem cells and aimed at high school students, held at the University Campus – University of Parma.

-18th Edition, Parma, 20 March 2026, Auditorium Multifunzionale, University Campus.

PUBLICATIONS

Author of 21 articles published in indexed international journals
H-INDEX: 9 (Scopus)
Total citation: 174 (Scopus)
Total IF: 98.7
Average IF: 4.7

LIST OF PUBLICATIONS

1. "Sex and reproductive stage modify the effect of endogenous estrogens on coronary atherosclerosis in rheumatoid arthritis"; George Athanasios Karpouzas, Bianca Papotti, Sarah R Ormseth, Marcella Palumbo, Elizabeth Hernandez, Matthew J Budoff, Nicoletta Ronda.
   RMD Open. 2025 Dec 7;11(4):e006319. Journal IF (2025): 5.1 (Q1)
2. "Role for the liver X receptor agonist 22-ketositosterol in preventing disease progression in an Alzheimer's disease mouse model"; Nikita Martens, Na Zhan, Sammie C. Yam, Marcella Palumbo, Lorenzo Pontini, Frank P. J. Leijten, Leonie van Vark-van der Zee, Gardi Voortman, Silvia Friedrichs, Albert Gerding, Maura Marinozzi, Johan W. Jonker, Folkert Kuipers, Dieter Lütjohann, Tim Vanmierlo, Monique T. Mulder.
   Br J Pharmacol. 2025 Aug;182(16):3744-3766. Journal IF (2025): 6.1 (Q1)
3. "Anti-atherosclerotic effects of natural compounds targeting lipid metabolism and inflammation: Focus on PPARs, LXRs, and PCSK9"; Marcella Palumbo, Martina Ugolotti, Francesca Zimetti, Maria Pia Adorni.

Atherosclerosis Plus, 2025, 59, pp. 39–53; Journal IF (2025): 3.4 (Q2)

4. “Divergent regulation of cellular cholesterol metabolism by seaweed-derived fucosterol and saringosterol”; Na Zhan, Nikita Martens, Yanlin Li, Gardi Voortman, Frank Leijten, Silvia Friedrichs, Martien P. M. Caspers, Lars Verschuren, Tim Vanmierlo, Marieke Smit, Folkert Kuipers, Johan W. Jonker, Vincent W. Bloks, Marcella Palumbo, Francesca Zimetti, Maria Pia Adorni, Hongbing Liu, Dieter Lütjohann, Monique T. Mulder.
   Front. Mar. Sci., 02 December 2025; Sec. Marine Biotechnology and Bioproducts; Volume 12 - 2025 Journal IF (2025): 3.2 (Q1)
5. “Changes in serum cholesterol loading capacity are linked to coronary atherosclerosis progression in rheumatoid arthritis”; George Athanasios Karpouzas, Bianca Papotti, Sarah R. Ormseth, Marcella Palumbo, Elizabeth Hernandez, Maria Pia Adorni, Francesca Zimetti, Nicoletta Ronda.
   RMD Open, 2024, 10(4), e004991; Journal IF (2025): 5.1 (Q1)
6. “Influence of APOE4 genotype on PCSK9-lipids association in cerebrospinal fluid and serum of patients in the Alzheimer's disease continuum”; Bianca Papotti, Marcella Palumbo*, Maria Pia Adorni, Lisa Elviri, Annalisa Chiari, Manuela Tondelli, Roberta Bedin, Enrica Baldelli, Giulia Lancellotti, Maria Giovanna Lupo, Nicola Ferri, Marco Bertolotti. *co-first author
   J Alzheimers Dis. 2024 Nov;102(1):162-172. Epub 2024 Oct 15. Journal IF (2025): 3.1 (Q1)
7. “HDL cholesterol efflux capacity and cholesterol loading capacity in long-term fasting: Evidence from a prospective, single-arm interventional study in healthy individuals”; Franziska Grundler, Marcella Palumbo*, Maria Pia Adorni, Francesca Zimetti, Bianca Papotti, Dietmar Plonné, Alfred Holley, Robin Mesnage, Massimiliano Ruscica, Françoise Wilhelmi de Toledo. *co-first author
   Atherosclerosis. 2024 Aug 6:397:118548. Journal IF (2025): 6.9 (Q1)
8. “Supplementation of Seaweed Extracts to the Diet Reduces Symptoms of Alzheimer's Disease in the APPswePS1ΔE9 Mouse Model”; Nikita Martens, Na Zhan, Sammie C Yam, Frank P J Leijten, Marcella Palumbo, Martien Caspers, Assia Tiane, Silvia Friedrichs, Yanlin Li, Leonie van Vark-van der Zee, Gardi Voortman, Francesca Zimetti, Dick Jaarsma, Lars Verschuren, Johan W Jonker, Folkert Kuipers, Dieter Lütjohann, Tim Vanmierlo, Monique T Mulder.
   Nutrients. 2024 May 25;16(11):1614. Journal IF (2025): 5.2 (Q1)
9. “Preliminary structure−activity relationships analysis on N-(3,5-dichlorophenyl)-4,5-dihydronaphtho[1,2-d]thiazol-2-amine, a disruptor of mycobacterial energetics”; Miriam Girardini, Diana Machado, Giannamaria Annunziato, Bianca Papotti, Marcella Palumbo, Chiara Spaggiari, Gabriele Costantino, Miguel Viveiros, Marco Pieroni.
   Medicinal Chemistry Research (2024) 33:518–531; Journal IF (2025): 3.5 (Q2)
10. “Inflammation and immunomodulatory therapies influence the relationship between ATP-binding cassette A1 membrane transporter-mediated cholesterol efflux capacity and coronary atherosclerosis in rheumatoid arthritis”; George A. Karpouzas, Bianca Papotti, Sarah R. Ormseth, Marcella Palumbo, Elizabeth Hernandez, Maria Pia Adorni, Francesca Zimetti, Matthew J. Budoff, Nicoletta Ronda.
    J Transl Autoimmun. 2023 Jul 18;7:100209. eCollection 2023 Dec. Journal IF (2025): 3.7 (Q2)
11. “Statins influence the relationship between ATP-binding cassette A1 membrane transporter-mediated cholesterol efflux capacity and coronary atherosclerosis in rheumatoid arthritis”; George A. Karpouzas, Bianca Papotti, Sarah R. Ormseth, Marcella Palumbo, Elizabeth Hernandez, Maria Pia Adorni, Francesca Zimetti, Matthew J. Budoff, Nicoletta Ronda.
    J Transl Autoimmun. 2023 Jul 7;7:100206. eCollection 2023 Dec. Journal IF (2025): 3.7 (Q2)
12. “Plasma and cerebrospinal fluid cholesterol esterification is hampered in Alzheimer’s Disease”; Marta Turri, Elisa Conti, Chiara Pavanello, Francesco Gastoldi, Marcella Palumbo, Franco Bernini, Vittoria Aprea, Francesca Re, Alberto Barbiroli, Davide Emide, Daniela Galimberti, Lucio Tremolizzo, Francesca Zimetti, Laura Calabresi and AGAINST-AD Group.
    Alzheimers Res Ther. 2023 May 20;15(1):95. Journal IF (2025): 8.6 (Q1)

13. "ATP-binding cassette G1 membrane transporter-mediated cholesterol efflux capacity influences coronary atherosclerosis and cardiovascular risk in Rheumatoid Arthritis"; George A. Karpouzas, Bianca Papotti, Sarah R. Ormseth, Marcella Palumbo, Elizabeth Hernandez, Maria Pia Adorni, Francesca Zimetti, Matthew J. Budoff, Nicoletta Ronda.
    J Autoimmun. 2023 Apr;136:103029. Epub 2023 Mar 28. Journal IF (2025): 6.8 (Q1)
14. "Serum cholesterol loading capacity on macrophages is regulated by seropositivity and C-reactive protein in rheumatoid arthritis patients"; George A Karpouzas, Bianca Papotti, Sarah R Ormseth, Marcella Palumbo, Elizabeth Hernandez, Cinzia Marchi, Francesca Zimetti, Matthew J Budoff, Nicoletta Ronda.
    Rheumatology (Oxford). 2023 Mar 1;62(3):1254-1263. Journal IF (2025): 4.4 (Q1)
15. "Role of Lipoprotein Levels and Function in Atherosclerosis Associated with Autoimmune Rheumatic Diseases"; Nicoletta Ronda, Francesca Zimetti, Maria Pia Adorni, Marcella Palumbo, George A. Karpouzas, Franco Bernini.
    Rheum Dis Clin North Am. 2023 Feb;49(1):151-163. Journal IF (2025): 1.7 (Q3)
16. "Effects of Handroanthus impetiginosus (Mart. ex DC.) Mattos extract on inflammatory, immune, atherogenic profile and differentiation in THP-1 cell line"; Ilaria Rossi, Susi Barollo, Loris Bertazza, Alberto Mondin, Maria Chiara Pedron, Giorgia Marodin, Maria Giovanna Lupo, Marcella Palumbo, Maria Pia Adorni, Caterina Mian, Raffaele Pezzani, Nicola Ferri.
    Nat Prod Res. 2023 Aug 7;1-6. Journal IF (2025): 1.7 (Q3)
17. "Identification of Side Chain Oxidized Sterols as Novel Liver X Receptor Agonists with Therapeutic Potential in the Treatment of Cardiovascular and Neurodegenerative Diseases"; Na Zhan, Boyang Wang, Nikita Martens, Yankai Liu, Shangge Zhao, Gardi Voortman, Jeroen van Rooij, Frank Leijten, Tim Vanmierlo, Folkert Kuipers, Johan W. Jonker, Vincent W. Bloks, Dieter Lütjohann, Marcella Palumbo, Francesca Zimetti, Maria Pia Adorni, Hongbing Liu, Monique T. Mulder.
    Int J Mol Sci. 2023 Jan 9;24(2):1290. Journal IF (2025): 5.3 (Q1)
18. "Serum cholesterol loading capacity on macrophages is linked to coronary atherosclerosis and cardiovascular event risk in rheumatoid arthritis"; George A Karpouzas, Bianca Papotti, Sarah R Ormseth, Marcella Palumbo, Elizabeth Hernandez, Maria Pia Adorni, Francesca Zimetti, Matthew J Budoff, Nicoletta Ronda.
    RMD Open. 2022 Sep;8(2):e002411. Journal IF (2025): 5.1 (Q1)
19. "HDL metabolism and functions impacting on cell cholesterol homeostasis are specifically altered in patients with abdominal aortic aneurysm"; Maria Pia Adorni, Marcella Palumbo, Cinzia Marchi, Francesca Zimetti, Alice Ossoli, Marta Turri, Franco Bernini, Ivana Hollan, Jiri Moláček, Vladislav Treska, Nicoletta Ronda.
    Front Immunol. 2022 Sep 12;13:935241. eCollection 2022. Journal IF (2025): 6.5 (Q1)
20. "HDL Cholesterol Efflux and Serum Cholesterol Loading Capacity Alterations Associate to Macrophage Cholesterol Accumulation in FH Patients with Achilles Tendon Xanthoma"; Adorni Maria Pia, Biolo Marta, Zimetti Francesca, Palumbo Marcella, Ronda Nicoletta, Scarinzi Paolo, Simioni Paolo, Lupo Maria Giovanna, Ferri Nicola, Previato Lorenzo, Bernini Franco, Zambon Alberto.
    Int J Mol Sci. 2022 Jul 26;23(15):8255. Journal IF (2025): 5.3 (Q1)
21. "Effects of PCSK9 inhibitors on HDL cholesterol efflux and serum cholesterol loading capacity in familial hypercholesterolemia subjects: a multi-lipid-center real-world evaluation"; Marcella Palumbo, Antonina Giammanco, Francesco Purrello, Chiara Pavanello, Giuliana Mombelli, Antonino Di Pino, Salvatore Piro, Angelo Baldassare Cefalù, Laura Calabresi, Maurizio Averna, Franco Bernini, Francesca Zimetti, Maria Pia Adorni, Roberto Scicali.
    Front Mol Biosci. 2022 Jul 19;9:925587. eCollection 2022. Journal IF (2025): 4.3 (Q2)

OTHER PUBLICATIONS

1. “Effetto dei polifenoli sul rischio cardiovascolare e le performance neurocognitive”; Francesco Potì, Marcella Palumbo, Daniele Santi, Giorgia Spaggiari, Ilaria Zanotti, Francesca Zimetti.

   Magazine: Giornale Italiano dell’Arteriosclerosi 2020; 11 (4): 5-26.

2. “Long non-coding RNA e aterosclerosi”; Bianca Papotti, Cinzia Marchi, Marcella Palumbo, Franco Bernini, Nicoletta Ronda.

   Magazine: Giornale Italiano dell'Aterosclerosi 2020; 11 (3): 10-26.

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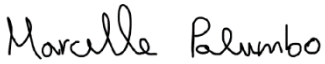
Marcella Palumbo



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