EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name	**CECCARINI MARIA RACHELE**
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H-Index	**25**
Citations	**2090**
i10-index	**64**

EDUCATION AND TRAINING

Dates (from – to) • Name and Type of Educational Institution	May 2025 – Present Scientific Project Manager
Dates (from – to) • Name and Type of Institution • Project Title	February 2024 – February 2025 RESEARCH FELLOW – University of Perugia – PRINN 2022 PROMETHEUS "4D printing self-deploying bio-enabled polymer scaffolds for the non-invasive treatment of bleeding intestinal ulcers"
Dates (from – to) • Name and Type of Institution • Project Title	July 2022 – February 2024 RESEARCH FELLOW – University of Perugia "Development of an NGS panel for the diagnosis and treatment of genetic forms of obesity"
Dates (from – to) • Leave	2 January 2022 – 2 June 2022 MATERNITY LEAVE
• Dates (from – to) • Name and Type of Institution • Project Title	May 2020 - January 2022 RESEARCH FELLOW – University of Perugia "Development of an NGS panel for the diagnosis and treatment of genetic forms of obesity"
• Dates (from – to) • Name and Type of Institution • Project Title	March 2020 - May 2020 RESEARCH FELLOW – University of Perugia "Use of Silver Nanoparticles for Breast Cancer Treatment"- Principal Investigator: Prof. Tommaso Beccari

Dates (from – to)	17 September 2019 - 28 March 2020
• Leave	MATERNITY LEAVE
Dates (from – to)	January 2019 - September 2019
• Name and Type of Institution	RESEARCH FELLOW – University of Perugia
• Project Title	"Use of Silver Nanoparticles for Breast Cancer Treatment"- Principal Investigator: Prof. Tommaso Beccari
• Dates (from – to)	February 2018 – December 2018
• Name and Type of Educational Institution	Second-Level Master's Degree in Personalized Nutrition: Molecular and Genetic Foundations - University of Rome Tor Vergata
• Main Subjects / Occupational Skills Covered	Advanced knowledge of the relationship between genes and nutrients, from fundamental biological processes to their implications for human health.
• Qualification Awarded	Second-Level Master's Degree Final Dissertation Title: "Genetic study of patients affected by eating disorders in an Italyn cohort"
• Dates (from – to)	February 2017- February 2018
• Name and Type of Institution	RESEARCH FELLOW – University of Perugia
• Project Title	"Lysosomal Enzymes in Parkinson's Disease" – Michael J Fox Foundation - responsabile Prof. Parnetti Lucilla
• Dates (from – to)	October 2013 - November 2016
• Name and Type of Educational Institution	PhD Programme, 29th Cycle – University of Perugia
• Main Subjects / Occupational Skills Covered	Biology, Nutrigenomics, Genetics, Chemistry, Biochemistry, Molecular Biology, Molecular Pathology, Proteomics and Genomics, Inspection and Safety of Foods of Animal Origin, Animal Science
• Qualification Awarded	PhD Project Title: "Functional Foods and Human Health"
• Dates (from – to)	October 2011 – October 2013
• Name and Type of Educational Institution	Master's Degree Programme in Pharmaceutical Biotechnology – Faculty of Pharmacy – University of Perugia
• Main Subjects / Occupational Skills	Biology, Genetics, Chemistry, Biochemistry, Molecular Biology, Molecular Pathology, Proteomics and Genomics
• Qualification Awarded	Master's Degree in Pharmaceutical Biotechnology (LM-9), final grade 110/110 with honours. Thesis defended on 15 October 2013. Final Dissertation Title: "In vitro and in vivo study on the HOPS role in the activation of NK-kB molecular pathway"
• Dates (from – to)	September 2008- October 2011
• Name and Type of Educational Institution	Interfaculty Bachelor's Degree Programme in Biotechnology - University of Perugia
• Main Subjects / Occupational Skills Covered	Biology, Genetics, Chemistry, Biochemistry, Molecular Biology, Molecular Pathology, Proteomics and Genomics
• Qualification Awarded	Bachelor's Degree in Biotechnology (L-2), final grade 110/110 with honours. Title of the dissertation, written entirely in English: "Reconstructing ancient genetic links between Africa and Europe through the analysis of mitochondrial genomes belonging to macro-haplogroup L"

• Dates (from – to)	September 2003 – July 2008
• Name and Type of Educational Institution	Scientific High School "L. Salvatorelli" – Marsciano (PG)
• Main Subjects / Occupational Skills Covered	Mathematics, Italyn, Physics, History, Philosophy, Science, Art History and Latin
• Qualification Awarded	Scientific High School Diploma (PNI programme), final grade 100/100 with honours

PERSONAL SKILLS AND COMPETENCES

Acquired throughout life and professional experience, whether or not formally certified.

MOTHER TONGUE	**ITALIAN**
OTHER LANGUAGES	
	ENGLISH
• **Reading Skills**	Excellent (C1)
• **Writing Skills**	Excellent (C1)
• **Speaking Skills**	Excellent (C1)
TECHNICAL SKILLS AND COMPETENCES *With computers, specialized equipment, machinery, etc.*	Experience with equipment used in research laboratories specializing in molecular biology, genomics and pharmaceutical biotechnology. Techniques include: genomic and mitochondrial DNA extraction, RNA extraction, protein extraction, PCR, Real-Time PCR, genotyping to identify single-nucleotide polymorphisms (SNPs) and length polymorphisms, recombinant plasmids, gel electrophoresis (Western Blotting), SDS page, test ELISA, lysosomal enzyme assays, LDH Assay, cell viability assays (MTT assay e CCK-8), intracellular ROS measurements, genotoxicity assays (Comet Assay), polyphenol quantification (ORAC assay e Folin Ciocalteau), flow cytometry (FACS). Excellent knowledge of Windows, Linux and macOS operating systems. Software proficiency includes: Word, Excel, Access, PowerPoint, Internet Explorer, Outlook Express.
TEACHING	Master di Alta Formazione ECM "Le Buone Pratiche nella cura dei Disturbi della Nutrizione e dell'Alimentazione: modelli organizzativi e paradigmi teorici" from 2021-Present.
SUBJECT EXPERT, TEACHING ASSISTANT AND SPECIALIST IN THE FIELD	**General and Applied Biochemistry - Biochimica generale e sistematica (BIO/10) - Pharmaceutical Chemistry and Technology Course (CTF) from 2021 to 2024.** **Advanced Molecular Biology - Biologia Molecolare Avanzata (BIO/11) – Pharmaceutical Biotechnology Study Course (LM-9) from 2014 to 2024.** **Teaching Biochemistry of Nutrition - Biochimica della Nutrizione (BIO/10) – Course of Study Sciences of Nutrition and Human Food (LM-9) for the academic years 2014–2015 and 2023–2024.**
PROFESSIONAL REGISTRATION	Registered with the Italian National Order of Biologists (ONB) and ENPAB. Passed the State Professional Examination in November 2015.
ITALIAN NATIONAL SCIENTIFIC QUALIFICATION	Awarded in academic recruitment field 05/E3 – Clinical Biochemistry and Clinical Molecular Biology; valid for twelve years, from 1 July 2024 to 1 July 2036. Awarded in academic recruitment field 06/D2 – Endocrinology, Nephrology, and Nutrition and Wellness Sciences; valid for twelve years, from 12 June 2026 to 12 June 2038.

COLLABORATIONS AND SCHOOL PROJECTS	External Expert for the 2019 PON Project (CUP I67I17000570007) at the Comprehensive School "Salvatorelli-Moneta". Project Code PONFSE 10.1.6A.-FSEPON-UM-2018-6. Project Title: GUIDANCE FOR INFORMED CHOICES.
QUALIFICATIONS	PhD, PhD awarded in 2016; Master degree in Nutrizione Personalizzata: Basi Molecolari e Genetiche (University of TorVergata, Rome) awarded in 2018; Member of C.I.B (Interuniversity Consortium for Biotechnology); Member of INSTM (National Interuniversity Consortium for Materials Science and Technology)
SCIENTIFIC SOCIETIES	**ESGLD** (European Study Group for Lysosomal Diseases) **EBTNA** (European Biotechnology Thematic Network Association) Member of the Scientific Committee MAGI
DRIVING LICENCE	Category B Driving Licence
ASSOCIATE EDITOR	**Frontiers in Molecular Biosciences – Cellular Biochemistry** (I.F. 5.0; CiteScore 4.8, Q1) **Frontiers in Cell and Developmental Biology – Cellular Biochemistry** (I.F. 5.5; CiteScore 6.3, Q1) **Pharmaceutics** – Topical Advisory Panel Member **The EuroBiotech Journal** (EBTJ) https://sciendo.com/journal/EBTJ?tab=aims-scope
AWARDS AND HONOURS	– Awarded a competitive scholarship at the University of Washington, Seattle (USA) (febbraio 2010 - luglio 2010). – Scientific Award from the Mi Fido di Te Association, an association of families affected by eating disorders. Chair of the Scientific Committee Prof.ssa Laura Dalla Ragione, President of the Association Mariella Venturi. – Oral Presentation Award as Invited Speaker – European Biotechnology Congress 4-6 october 2023, Ljubljana (Slovenia). Title: "Innovative treatments for Eating Disorders". – Invited speaker Gordon Research Conference (GRC 2024) on the topic of "Cyclic Nucleotide Phosphodiesterases", Bates College 16-21 June 2024 (USA).
SPEAKER AT NATIONAL AND INTERNATIONAL CONFERENCES	- First Anglo Italyn Chemical Biology Bilateral Meeting, AICBBM-1, Perugia, December 15-17, 2024 (Italy) - European Biotechnology Congress 2024, Istanbul, October 3-6, 2024 (Turkey) - "Terre di confine. La trasformazione dei DNA dall'età evolutiva all'età adulta nei diversi livelli di cura", September, 20-21 2024, Ancona (Italy) - Gordon Research Conference (GRC 2024) on Cyclic Nucleotide Phosphodiesterases, Bates College June 16-21, 2024 (USA) - European Biotechnology Congress 2023, October 4-6, 2023, Ljubljana (Slovenia) - MAGI Meeting, Bolzano 20-22 January 2023 (Italy) - TUM 2022, 1 December 2022, Perugia (Italy) - European Biotechnology Congress 2022, October 5-7, 2022, Prague (Czech Republic) - European Biotechnology Congress 2021, September 23-25, 2021 - MAGI Meeting, San Felice del Benaco, 28-29 May 2021(Italy) - Biotechnology & Genetics – Developments and Future Challenges (BGIC) 2021, May 20-21, 2021, Tirana (Albania) - European JRC-EC - ICGEB - CEI - UCM Workshop "Trends and prospects of Biotechnologies in Europe: Towards Strengthening Regional Cooperation Including

CEE Countries", July 2-4, 2019, Bratislava (Slovakia)
- European Biotechnology Congress 2019, April 11-13, 2019, Valencia (Spain)
- European Biotechnology Congress 2018, April 26-28, 2018, Athens (Greece)
- XIII Incontro Annuale: La Malattia di Gaucher, 9-10 October 2017, Genova (Italy)
- 21st ESGLD Workshop and Graduate Course, September 13-17, 2017, Lyon (France)
- European Biotechnology Congress 2017, May 25-27, 2017, Dubrovnik (Croatia)
- SSIEM "Metabolomic Pathways, cellular networks and beyond", September 6-9, 2016, Rome (Italy)
- European Biotechnology Congress, 2016, May 5-7, 2016, Riga (Latvia)
- Third Assisi Workshop on Biomarkers in the early diagnosis of neurodegenerative disorders, 21-23 May 2015, Assisi (Italy)
- XXI World Congress on Parkinson's Disease and Related Disorders 2015, Milan (Italy)
- 20th ESGLD Workshop and Graduate Course, October 1-4, 2015, Pozzuoli (Italy)
- Summer School on Nutrigenomics, September 1-5, 2014, Camerino (Italy)
- European Biotechnology Congress 2014, May 15-18, 2014, Lecce (Italy)

PATENTS

Title: "METHODS OF TREATING LIPEDEMA INCLUDING AKR1C1 AS A THERAPEUTIC TARGET"
Publication No. US-2022-0362260-A1
Publication Date: 11/17/2022
Inventors: Matteo Bertelli, Elena Manara, Paolo Enrico Maltese, Sandro Michelini, Serena Michelini, **Maria Rachele Ceccarini**, Pietro Chiurazzi, Karen Louise Herbst

Title: "COMPOSITIONS AND METHODS OF BRANCHED-CHAIN AMINO ACIDS AND ALPHA-KETO AMINO ACIDS IN A SPECIFIC RATIO FOR THE TREATMENT OF ANOREXIA AND CACHEXIA" (under evaluation)

PUBLICATIONS

1) Migni A., Cerra B., Passeri D., Galli C., **Ceccarini M.R.**, Varfaj I., Sozen E., Surh Y.J., Ozer N.K., Schoubben A.M.M., Cavaliere G., Gioiello A., Bartolini D., Galli F. (2026) Garcinoic acid: A vitamin E metabolite-mimetic scaffold linking nuclear receptor pharmacology to inflammatory signaling and biomimetic drug discovery. Pharmacol Ther. 286:109087. doi: 10.1016/j.pharmthera.2026.109087. (I.F.13.5)
2) Imbriano A., Di Michele A., **Ceccarini M.R.**, Abruzzo A., Bigucci F., Hasa D., D'Abbrunzo I., Casettari L., Fratini C., Primavilla S., Tazza L., Tensi L., Perioli L., Pagano C. (2026) Nanoemulsion-based strategy for azithromycin administration in pediatrics. *J. Drug Deliv. Sci. Technol*. 121:108368. doi.org/10.1016/j.jddst.2026.108368. (I.F.4.9)
3) Migni A., Bartolini D., **Ceccarini M.R.,** Galli C., Cavaliere G., Garetto S., Lucci J., Galli F. (2026) Nutrigenomics of fat-soluble vitamins and micronutrients in hepatocyte lipotoxicity and MASLD. *Prog Lipid Res*. 101:101380. doi: 10.1016/j.plipres.2026.101380. (I.F. 14.9)
4) **Ceccarini M.R.**, Mazzarella N, Visone S, Santonicola P, Camera A, Cieri F, La Rocca F, Matino I, Zampi G, Valeri MC, Damiani F, Escaray FJ, Ruiz OA, Martens S, Beccari T, Di Schiavi E, Paolocci F. (2025) Different Neuroprotective Activities of Proanthocyanidin-Enriched Fractions of Lotus Species. ACS Omega. 2025 Dec 11;10(50):61480-61493. doi: 10.1021/acsomega.5c06714. (I.F. 4.4)
5) Scattini G., Pianigiani G., Capomaccio S., **Ceccarini M.R.**, Mecocci S., Musa L., Avellini L., Barbato O., Bufalari A., Casagrande Proietti P., Gialletti R., Sulla A., Beccari T., Pascucci L. (2025) Hacking Extracellular Vesicles: Using Vesicle-Related Tags to Engineer Mesenchymal Stromal Cell-Derived Extracellular Vesicles. Pharmaceutics. 17(11):1435. doi: 10.3390/pharmaceutics17111435. (I.F.5.5)
6) Migni A., Bartolini D., Marcantonini G., Sardella R., Rende M., Tognoloni A., **Ceccarini M.R.**, Galli F. (2025) Multivariate Data Analysis Methods and Their Application in Lipidomics: A Gentle Comment on Appropriateness and Reliability Criteria. J Pineal Res. 77(4):e70068. doi: 10.1111/jpi.70068. (I.F.8.3)
7) Blasi F., **Ceccarini M.R.**, Bistarelli S., Galli F., Cossignani L., Bartolini D., Ianni

F. (2025) Impact of Extra-Virgin Olive Oil Storage Conditions on Phenolic Content and Wound-Healing Properties. Foods. 14(12):2104. doi: 10.3390/foods14122104. (I.F. 5.1)

8) Migni A., Bartolini D., Marcantonini G., Sardella R., Rende M., Tognoloni A., **Ceccarini M.R.**, Galli F. (2025) Melatonin Repairs the Lipidome of Human Hepatocytes Exposed to Cd and Free Fatty Acid-Induced Lipotoxicity. J Pineal Res. 77(3):e70047. doi: 10.1111/jpi.70047. (I.F.8.3)
9) Chiesa I., **Ceccarini M.R**., Guerra A., Raffaele G., Beati L., Malaspina R., Alunni Cardinali M., Sassi P., Valentini L., De Maria C. (2025) 4D Printed Self-Deploying Bio-Based Scaffolds for the Regeneration of Endoluminal Tissue. Advanced Materials Technologies. Online ISSN: 2365-709X. (I.F. 6.4)
10) **Ceccarini M.R.**, Alunni Cardinali M., Malaspina R., Libera V., Scattini G., Codini M., Chiesa I., De Maria C., Comez L., Paciaroni A., Sassi P., Valentini L. (2025) Protective effects of silk fibroin against 6-OHDA in SH-SY5Y human neuroblastoma cells and comparative study with its release from gelatin films. International Journal of Biological Macromolecules. 303:140697. doi: 10.1016/j.ijbiomac.2025.140697. (I.F.7.7)
11) Dominici F., Imbriano A., Puglia D., Pagano C.., Luzi F, Rafanelli A., Di Michele A., Bonacci F., **Ceccarini M.R.**, Primavilla S., Valiani A., Tensi L., Pérez Gutierrez C.L., Melo Barbosa R., Viseras C., Ricci M., Perioli L. (2025) Starch-Based scaffold produced by FDM 3d printing technique as Innovative and biosustainable wound dressing. Eur J Pharm Biopharm. 20:114698. doi: 10.1016/j.ejpb.2025.114698. (I.F. 4.4)
12) Bittolo Bon S., Libera V., **Ceccarini M.R.**, Malaspina R., Codini M., Valentini L. (2024) Development of Ultraviolet-Shielding Bamboo/Silk Fibroin Hybrid Films with Good Mechanical Properties: A Proof Study on Human Keratinocyte Cells. Polymers (Basel). 16:2244. doi: 10.3390/polym16162244.
13) Pagano C., **Ceccarini M.R.**, Marinelli A., Imbriano A., Beccari T., Primavilla S., et al. (2024) Development and characterization of an emulgel based on a snail slime useful for dermatological applications. Int J Pharm. 660:124337. doi: 10.1016/j.ijpharm.2024.124337.
14) Alunni Cardinali M., **Ceccarini M.R.**, Chiesa I., Bittolo Bon S., Rondini T., Serrano-Ruiz M., et al. (2024) Mechanical Transfer of Black Phosphorus on a Silk Fibroin Substrate: A Viable Method for Photoresponsive and Printable Biomaterials. ACS Omega. doi: 10.1021/acsomega.3c09461. (I.F. 4.4)
15) **Ceccarini M.R.**, Bonetti G., Medori M.C., Dhuli K., Tezzele S., Micheletti C., et al. (2023) Autoantibodies in patients with post-COVID syndrome: a possible link with severity? Eur Rev Med Pharmacol Sci. 27:48-56. doi: 10.26355/eurrev_202312_34689.
16) Codini M., Fiorani F., Mandarano M., Cataldi S., Arcuri C., Mirarchi A., **Ceccarini M.R.**, Beccari T., Kobayashi T, Tomishige N, Sidoni A, Albi E. (2023) Sphingomyelin Metabolism Modifies Luminal A Breast Cancer Cell Line under a High Dose of Vitamin C. *Int J Mol Sci*. 24(24):17263. doi: 10.3390/ijms242417263. (I.F. 6.208)
17) Donato K., Medori M.C., Macchia A., Cecchin S., **Ceccarini M.R**., et al. (2023) Genetic variants identified in novel candidate genes for anorexia nervosa and analysis of molecular pathways for diagnostic applications. *Eur Rev Med Pharmacol Sci*. 27(6 Suppl):77-88. doi: 10.26355/eurrev_202312_34692.
18) Donato K., Dhuli K., Macchia A., Medori M.C., Micheletti C., Bonetti G., **Ceccarini M.R**., Beccari T., Chiurazzi P., Cristoni S., Benfatti V., Dalla Ragione L., Bertelli M. (2023) Metabolomic profiling of amino acid alterations in anorexia nervosa: implications for appetite regulation and therapeutic strategies. *Eur Rev Med Pharmacol Sci*. 27(6 Suppl):64-76. doi: 10.26355/eurrev_202312_34691.
19) Brecchia G., Muça G., Munga A., Menchetti L., Galosi L., Rossi G., Barbato O., Pastorelli G., Agradi S., Serra V., Sulçe M., Ozuni E., Turmalaj L., Castrica M., **Ceccarini M.R.**, Riva F., Fioretti B., Quattrone A., Manongiu M.L., Curone G. (2023) Goji Berry in the Diet of the Rabbit Buck: Effects on Semen Quality, Oxidative Status and Histological Features of the Reproductive Tract. *Antioxidants*. 12(11):1959. doi: 10.3390/antiox12111959. (I.F.7.0)
20) Chiesa I., **Ceccarini M.R.**, Bittolo Bon S., Codini M., Beccari T., Valentini L., De Maria C. 4D Printing Shape-Morphing Hybrid Biomaterials for Advanced Bioengineering Applications. (2023) *Materials (Basel)*. 16(20):6661. doi:

10.3390/ma16206661. (I.F. 3.748)

21) **Ceccarini M.R.**, Chiesa I., Ripanti F., Cardinali M.A., Micalizzi S., Scattini G., De Maria C., Paciaroni A., Petrillo C., Comez L., Bertelli M., Sassi P., Pascucci L., Beccari T., Valentini L. (2023) Electrospun Nanofibrous UV Filters with Bidirectional Actuation Properties Based on Salmon Sperm DNA/Silk Fibroin for Biomedical Applications. ACS Omega. 8(41):38233-38242. doi: 10.1021/acsomega.3c04563. (I.F. 4.1)
22) Pérez Gutíerrez C.L., Di Michele A., Pagano C., Puglia D., Luzi F., Beccari T., **Ceccarini M.R.**, Primavilla S., Valiani A., Vicino C., Ricci M., Viseras Iborra C.A., Perioli L. (2023) Polymeric Patches Based on Chitosan/Green Clay Composites and Hazelnut Shell Extract as Bio-Sustainable Medication for Wounds. Pharmaceutics. 15(8):2057. doi:10.3390/pharmaceutics15082057. (I.F.6.525)
23) **Ceccarini, M.R.**, Ripanti, F., Raggi, V., Paciaroni, A., Petrillo, C., Comez, L., Donato, K., Bertelli, M., Beccari, T., Valentini, L. (2023) Development of Salmon Sperm DNA/Regenerated Silk Bio-Based Films for Biomedical Studies on Human Keratinocyte HaCaT Cells under Solar Spectrum. *J Funct Biomater*. 14(5): 280. doi: 10.3390/jfb14050280. (I.F 4.901)
24) Di Michele, A., Gutierrez, C.L.P., Pagano, C., Beccari, T., **Ceccarini, M.R**., Luzi, F., Puglia, D., Tensi, L., D'Agosto, E., Iborra, C.A.V., Ricci, M., Perioli, L. (2023) Formulation and characterization of sustainable bioadhesive films for wound treatment based on barley 8-glucan extract obtained using the high power ultrasonic technique. *Int J Pharm*. 638: 122925. doi: 10.1016/j.ijpharm.2023.122925 (I.F. 5.8)
25) Albi, E., Mandarano, M., Cataldi, S., **Ceccarini, M.R.**, Fiorani, F., Beccari, T., Sidoni, A., Codini, M. (2023) The Effect of Cholesterol in MCF7 Human Breast Cancer Cells. *Int J Mol Sci*. 24(6):5935. doi: 10.3390/ijms24065935. (I.F. 6.208)
26) Franzago M., Orecchini E., Porreca A., Mondanelli G., Orabona C., Dalla Ragione L., Di Nicola M., Stuppia L., Vitacolonna E., Beccari T., **Ceccarini M.R.** (2023) SLC6A4 DNA Methylation Levels and Serum Kynurenine/Tryptophan Ratio in Eating Disorders: A Possible Link with Psychopathological Traits? *Nutrients*. 15(2):406. doi: 10.3390/nu15020406. (I.F. 6.706)
27) **Ceccarini M.R.**, Palazzi V., Salvati R., Chiesa I., De Maria C., Bonafoni S., Mezzanotte P., Codini M., Pacini L., Errante F., Rovero P., Morabito A., Beccari T., Roselli L., Valentini L. (2023) Biomaterial Inks from Peptide-Functionalized Silk Fibers for 3D Printing of Futuristic Wound-Healing and Sensing Materials. *Int J Mol Sci*. 24(2):947. doi: 10.3390/ijms24020947. (I.F. 6.208)
28) Garcia-Gil M., **Ceccarini M.R.**, Stoppini F., Cataldi S., Mazzeschi C., Delvecchio E., Albi E., Gizzi G. (2022) Brain and gut microbiota disorders in the psychopathology of anorexia nervosa. *Transl Neurosci*. 13(1):516-526. doi: 10.1515/tnsci-2022-0267. (I.F. 1.757)
29) Bonetti G., Dhuli K., **Ceccarini M.R**., Kaftalli J., Samaja M., Precone V., Cecchin S., Maltese P.E., Guerri G., Marceddu G., Beccari T., Aquilanti B., Velluti V., Matera G., Perrone M., Iaconelli A., Colombo F., Greco F., Raffaelli M., Ergoren M.C., Bertelli M. (2022) Next-Generation Sequencing of a Large Gene Panel for Outcome Prediction of Bariatric Surgery in Patients with Severe Obesity. *J Clin Med*. 11(24):7531. doi: 10.3390/jcm11247531. (I.F. 4.964)
30) **Ceccarini M.R.**, Ceccarelli V., Codini M., Fettucciari K., Calvitti M., Cataldi S., Albi E., Vecchini A., Beccari T. (2022) The Polyunsaturated Fatty Acid EPA, but Not DHA, Enhances Neurotrophic Factor Expression through Epigenetic Mechanisms and Protects against Parkinsonian Neuronal Cell Death. *Int J Mol Sci*. 23(24):16176. doi: 10.3390/ijms232416176. (I.F. 6.208)
31) Chiesa I., De Maria C., Tonin R., Ripanti F., **Ceccarini M.R.**, Salvatori C., Mussolin L., Paciaroni A., Petrillo C., Cesprini E., Feo F., Calamai M., Morrone A., Morabito A., Beccari T., Valentini L. (2022) Biocompatible and Printable Ionotronic Sensing Materials Based on Silk Fibroin and Soluble Plant-Derived Polyphenols. *ACS Omega*. 7(48):43729-43737. doi: 10.1021/acsomega.2c04729. (I.F. 4.132)
32) Bonetti G., Herbst K.L., Dhuli K., Kiani A.K., Michelini S., Michelini S., **Ceccarini M.R.**, Michelini S., Ricci M., Cestari M., Codini M., Beccari T., Bellinato F., Gisondi P., Bertelli M. (2022) Dietary supplements for lipedema. *J Prev Med Hyg*. 63:E169-E173. doi: 10.15167/2421-4248/jpmh2022.63.2S3.2758. (I.F. 2.077)
33) Donato K., **Ceccarini M.R.**, Dhuli K., Bonetti G., Medori M.C., Marceddu G.,

Precone V., Xhufi S., Bushati M., Bozo D., Beccari T., Bertelli M. (2022) Gene variants in eating disorders. Focus on anorexia nervosa, bulimia nervosa, and binge-eating disorder. *J Prev Med Hyg*. 63:E297-E305. doi: 10.15167/2421-4248/jpmh2022.63.2S3.2772. (I.F. 2.077)

34) Kiani A.K., Medori M.C., Dhuli K., Donato K., Caruso P., Fioretti F., Perrone M.A., **Ceccarini M.R**., Manganotti P., Nodari S., Codini M., Beccari T., Bertelli M. (2022) Clinical assessment for diet prescription. *J Prev Med Hyg*. 63:E102-E124. doi: 10.15167/2421-4248/jpmh2022.63.2S3.2753. (I.F. 2.077)
35) Albi E., Arcuri C., Kobayashi T., Tomishige N., Cas M.D., Paroni R., Signorelli P., Cerquiglini L., Troiani S., Gizzi C., **Ceccarini M.R**., Mirarchi A., Cossignani L., Gil M.G., Beccari T., Cataldi S. (2022) Sphingomyelin in Human Breast Milk might be Essential for the Hippocampus Maturation. *Front Biosci (Landmark Ed)*. 27(8):247. doi: 10.31083/j.fbl2708247. (I.F. 3.115)
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ARTISTIC SKILLS AND COMPETENCES

Music, writing, drawing, etc.

Vincitrice regionale e seconda classificata al contest di divulgazione scientifica FameLab Italy (edizione 2016)
https://www.youtube.com/watch?v=WftOMDLp84Q&t=6s
https://www.youtube.com/watch?v=BFhjp7znpS0&t=15s).

Prima classificata al contest Eistein Cup (Isola Polvese, 4 September 2016).

Partecipazione attiva a vari progetti (protagonista di una mini serie web con l'azienda italiana Granarolo), interviste radiofoniche (Uovo di Colombo, http://www.umbriaradio.it/podcast/maria-rachele-ceccarini.html), manifestazioni (SHARPER, Notte Europea dei Ricercatori, Perugia, 2016-2018), iniziative (ospite del tour "Geni a bordo" con Sergio Pistoi e Andrea Vico) e festival di divulgazione scientifica (Festival della Scienza, Genova, 27 October-6 November 2016).

Diploma di solfeggio, storia della musica, armonia e quinto anno di violino conseguiti presso il Conservatorio di musica di Perugia.

Corso professionalizzante per l'insegnamento del Pilates, "Postural Pilates Academy", affiliata all'ACSI e diploma FIF per l'insegnamento del Pilates. Insegnate di pilates e PBT in diversi centri sportivi dell'Umbria.

I authorize the processing of the personal data contained in this CV in accordance with the provisions of Law 675/96.

Perugia, 9 November 2026 *Maria Rachele Ceccarini*