Curriculum Vitae

Massimiliano Perduca

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Massimiliano Perduca was born in Tortona –Italy- on 09/11/1968.
He graduated at the University of Pavia on 07/08/1997 in Chemical and Pharmaceutical Technology.
The title of his "Laurea" (Master degree) thesis was:
"Purification and crystallisation of Pig odorant-Binding Protein".
The experimental work for his thesis was performed under the guidance of Prof. Hugo L. Monaco in the department of Genetics, section of Molecular Biology and Biophysics.
He was awarded the Philosophiae Doctor Degree from the University of Verona with the thesis "Structural Studies on Hydrophobic Molecule-Binding Proteins" (supervisor Prof. Hugo L. Monaco).
Since January 2004 he is Researcher in Molecular Biology (BIO/11) at the Biotechnology Department at the University of Verona.
Visiting Professor, University of Granada, Department of Microbiology, from June 16 to July 19, 2019 in collaboration with Prof. Concepcion Jimenez-Lopez.
Since March 2024 he is Associate Professor in Molecular Biology (BIO/11) at the Biotechnology Department at the University of Verona.

Bibliometric indicators (24/03/2026)
Total number of refereed publications: **78**
Total citations: **1295** (Scopus)
Averaged Impact Factor: **4.0**
H-Index: **21** (Scopus)

National Academic Qualification (ASN)
31/10/2025: as Full Professor in Molecular biology (05/E2; BIOS-08/A)

National Academic Qualification (ASN)
24/03/2015: as Associate Professor in Molecular biology (05/E2; BIO 11)

Research interests
During the years after the PhD, Massimiliano Perduca further studied the structural and functional analysis of proteins from different organisms involved in illness or that can be used as drugs for treating tumoral diseases, resulting to the publication of several papers.
More recently he has been involved in research projects concerning the differential gene expression in healthy and pathological cells.
Currently he is also involved in projects based on synthesis and phisico-chemical characterization of nanostructures for the pharmaceutical, cosmetic and hydrogen production use.

Membership
He is member of the **European Crystallography Association**, of the **Italian Crystallographic Association,** of the **Synchrotron Light Italian Society,** of the **Italian Society of Biochemistry and Molecular Biology** and of the **Italian Chemical Society**.

PERSONAL SKILLS AND COMPETENCES
MOTHER TONGUE: **ITALIAN**
OTHER LANGUAGES
ENGLISH Reading skills: very good Writing skills very good Verbal skill: very good

ORGANISATIONAL SKILLS AND COMPETENCES
Organization of meetings and other academic activities.

- Member of the Joint Teaching–Student Committee as representative for the Single-Cycle Master's Degree Program in Pharmacy (LM-13) – Teaching Board of Medicine and Surgery, University of Verona, since 2026
- Member of the Quality Assurance Committee for the Master's Degree Program in Medical Bioinformatics (LM-18) – Teaching Board of Computer Science, Department of Computer Science, University of Verona, since 2025
- Member of the Quality Assurance Committee for the PhD in Nanoscience and Advanced Technologies, as part of the Graduate School in Natural and Engineering Sciences of the University of Verona since 2024
- Member of the PhD teaching staff in Nanoscience and Advanced Technologies, as part of the Graduate School in Natural and Engineering Sciences of the University of Verona since 2016
- Department representative for the University of Verona in the Master Degree in Science and Technology of Bio and Nanomaterials since 2013
- Teacher of Molecular Biology in the undergraduate Degree in Biotechnology since 2007 and teacher of Complements in Molecular Biology in the Master Degree in Science and Technology of Bio and Nanomaterials since 2011
- Member of the Administration Council of the University of Verona from 2004 to 2009
- Teacher of the Ph.D. program in molecular, industrial and environmental Biotechnology since 2004
- Secretary of the Ph.D. program in Molecular, Industrial and Environmental Biotechnology from 2004 to 2009
- Member of the Doctorate School in Life and Health Sciences since 2006
- Co-organizer of the FIRB Meeting 2009 "New Methods and Technologies for Pharmacology". Verona, April 3-24, 2009
- Co-organizer of the 41th Congress of the Italian Crystallographic Association (AIC) September 2012.
- Co-organizer of the Meeting "Un giorno per Hugo". Verona, September 25, 2017
- Member of the scientific committee and chairman of the session "Structural Biology at High and Low Angles " of the "2nd Joint AIC-SILS conference ", on behalf of the Italian Crystallographic Association (AIC). Florence, September 15-18, 2014.
- Member of the scientific committee and chairman of the session "Biotechnology Cancer, therapy and Biopharmaceutical II ", in the I International Workshop on Biotechnology: Towards opportunities in careers in biotechnology. Granada, Spain, April 19, 2023.

Teaching activities.

- ✓ Has participated as **Local Coordinator** and **Mentor** in the Blended Intensive Programme "Biotechnology from the scratch: basic methods and technological implementation", under the Erasmus + Program, Coordinated by the BOKU University of Vienna, and as partners the University of Verona, Italy and the University of Granada, Spain, from **10 January 2025** to **27 June 2025**.
- ✓ **Molecular Biology course (SSD BIO/11)** since **2024** - **Combined Bachelor's and Master's degree in Pharmacy** (University of Verona).
- ✓ Has participated as **Local Coordinator** and **Mentor** in the Blended Intensive Programme "Towards opportunities in careers in biotechnology, under the Erasmus + Program, Coordinated by the University of Granada, and as partners the University of Verona, Italy and the University of Natural Resources and Life Sciences Vienna, Austria, from **01 December 2022** to **14 April 2023**.
- ✓ **Environment Impact of Nanotechnology (SSD BIO/11)** since **2020** - **Master Degree in Biotechnologies for bio-resources and eco-sustainable development** (University of Verona).
- ✓ **Short Molecular Biology course (SSD BIO/11)** since **2013** - **Master Degree in Science and technologies of Bio and Nanomaterials** (University of Verona and Ca' Foscari University – Venice).
- ✓ **Molecular Biology course (SSD BIO/11)** since **2013** - **Master Degree in Medical Bioinformatics** (University of Verona).
- ✓ **Biology of the Informational Molecules course (SSD BIO/18)** since **2010** to **2013** - **Master Degree in Science and technologies of Bio and Nanomaterials** (Ca' Foscari University – Venice).
- ✓ Practical for the **Structural Biology course (SSD BIO/11)** since **2010** - **Master Degree in Bioinformatics e Medical Biotechnology** (University of Verona).
- ✓ **Molecular Biology course (SSD BIO/11)** since **2009** to **2019** - **Undergraduate Degree in Biotechnology** (University of Verona).
- ✓ **General Molecular Biology course and Molecular Biology of Microorganisms (SSD BIO/11)** since **2008** to **2009** - **Undergraduate Degree in Agro-industrial Biotechnology** (University of Verona).
- ✓ Practical for the **Physical Chemistry II course (SSD CHIM/02)** since **2005** - **Master Degree in Molecular and Industrial Biotechnology** (University of Verona).
- ✓ **Analytical Chemistry (SSD CHIM/01)** as part of the **Analytical Chemistry and Biochemistry course (SSD BIO/10)** since **2005** - **Undergraduate Degree in Agro-industrial Biotechnology** (University of Verona).
- ✓ Practical for the **Biocrystallography course (SSD BIO/11)** since **2004** - **Master Degree in Molecular and Industrial Biotechnology** (University of Verona).
- ✓ **Biochemical Methodologies (SSD BIO/10)** since **2004** - **Undergraduate Degree in Agro-industrial Biotechnology** (University of Verona).
- ✓ Practical for the **Physical Chemistry course (SSD CHIM/02)** since **1999** - **Undergraduate Degree in Agro-industrial Biotechnology** (University of Verona).

Student supervisory activities.

- ✓ Acting as **supervisor or co-supervisor** in several (more than 141) among **Undergraduate Degree thesis, Master Degree thesis and PhD thesis** (University of Verona and Ca' Foscari University – Venice).

NATIONAL and INTERNATIONAL COLLABORATION

- ✓ Argentina: Universidad de Córdoba (Maria Elena Carrizo e Guillermo G. montich).
- ✓ England: London Imperial College (Naomi Chayen)
- ✓ Spain: University of Granada (Concepcion Jimenez-Lopez, Ylenia Jabalera, Mónica Jiménez Carretero, Mercedes Maqueda, Maria Paz Carrasco Jimenez, Guillermo Iglesias Salto, Alejandro Rodriguez Navarro)
- ✓ Austria: Medical University of Vienna (Davide Ret, Eva Untersmayr-Elsenhuber), Vienna University of technology (Simone Knaus), Innsbruck Medical University (Bernhard Redl)
- ✓ Algeria: Department of Biochemistry & Cellular and Molecular Biology, University of Mentouri Constantine1 (Youcef Necib, Mohamed Es-Seddik Toumi)
- ✓ Thailand: Faculty of Medical technology, Western University, Thailand (Piyachat Evelyn Roopngam, Tirawat Wannatung)
- ✓ Tunisia: Laboratoire de Microorganismes et de Biomolécules (LMB) - Centre de Biotechnologie de Sfax (Aïda Hmida-Sayari, Karima Salem, Adel Sayari, Wided Khamlaoui)
- ✓ Italy: Università di Pavia (Monica Galliano), Università di Verona (Marina Bentivoglio, Maria Teresa Valenti, Alessandro Romeo, Stefano Dusi, Laura Calderan, Manuela Malatesta, Andrea Sbarbati, Lucia De Franceschi, Cristiano Chiamulera, Matteo Ballottari, Flavia Guzzo, Fabio Piccinelli, Claudio Sorio, Mariarita Bertoldi, Maria Romanelli), CNR Bari (Rocco Caliandro, Benny Danilo Belviso), Sincrotrone Elettra Trieste (Maurizio Polentarutti).

ASSIGNED FUNDINGS

Ministerio de Ciencia y Educación. Convocatoria 2021 - «Proyectos Pruebas de Concepto»

Nanoplataformas Magnéticas Biomiméticas Multifuncionales (BioMag) (PDC2021-121135-I00)
Local Coordinator: Dr. Massimiliano Perduca
PI: Prof. Concepción Jiménez López
Total amount funded: 146.050 €

Consejería de Educación y Ciencia, Secretaria General de Universidades e Investigación, Junta de Andalucía

Quimioterapia Frente a Mycobacterium tuberculosis Dirigida Mediante Nanopartículas Magnéticas Biomiméticas Combinada Con Hipertermia (Nanomyc) (B-BIO-432-UGR20)
Local Coordinator: Dr. Massimiliano Perduca
PI: Prof. Concepción Jiménez López
Ammontare del finanziamento: 45.000 €

Proyectos de Investigación en Salud ISCIII 2020

Terapia frente a mycobacterium tuberculosis mediada por nanopartículas biomiméticas magnéticas (myco-nano) (pi20/01658)
Local Coordinator: Dr. Massimiliano Perduca
PI: Prof. Concepción Jiménez López
Total amount funded: 93.170 €

Consejería de Educación y Ciencia, Secretaria General de Universidades e Investigación, Junta de Andalucía

Biomateriales como estructuras 2D y 3D para el diseño de bioadsorbentes y biosensores (BIOSAS) (P20_00208)

Local Coordinator: Dr. Massimiliano Perduca
PI: Prof. Concepción Jiménez López
Total amount funded: 51.150 €

Consejería de Educación y Ciencia, Secretaria General de Universidades e Investigación, Junta de Andalucía
Nanotransportadores magnéticos biomiméticos inteligentes (A-BIO-376-UGR18)
Coordinatore di Unità: Dr. Massimiliano Perduca
PI: Prof. Concepción Jiménez López
Ammontare del finanziamento: 14.900 €

Cooperint 2019 (Action 5)
In partnership with Dr. Piyachat Evelyn Roopngam and Prof. Tirawat Wannatung from the Western University, Thailand.

Cooperint 2018 (Action 3)
In partnership with Prof. Aïda Hmida-Sayari and Karima Salem from the Laboratoire de Microorganismes et de Biomolécules (LMB) - Centre de Biotechnologie de Sfax, Tunisia.

Cooperint 2018 (Action 4)
In partnership with Prof. Concepcion Jimenez-Lopez from the University of Granada, Spain.

Joint Project 2015
In partnership with AlghItaly srl on the project **BioNanoScreen** (Biocompatible and biodegradable PLGA Astaxanthine containing nanoparticles for the pharmaceutic and cosmetic market).

PATENTS
1) International Patent PCT/IB2022/061431 named “Fisetin Nanoparticles”
2) International Patent PCT/EP2025/052602 named “BMNPs and nanoassemblies thereof”
3) International Patent (Patent Application No. 102025000021430) named Hydro-Oily Impregnating Agent and Production Method”

PRIZES and AWARDS
1) Fifth price in Veneto Startcup Competition with Nanoverse Startup.

MOLECULES DISCOVERED
1) M.E. Toumi, R. Rebai, F.F. Kebaili, I. Meriane, Z.A. Achouri, M.A. Lahneche, I. Maghboune, A. Guetteche, I. Derardja, L. Bellebcir, M. Perduca, N. Youcef. “Molecular, Phylogenetic, and Chemistry Characterization and In Vitro Evaluation of the Antioxidant and Cytotoxicity Potential of Cyclocybe cylindracea Strain TMES42 (Agaricomycetes) from Algeria”. Int. J. Med. Mushrooms, 2025, 27 (10) 43-59.
2) M.E. Toumi, F.F. Kebaili, R. Redouane, I. Derardja, T. Mouad, S.C. Gaglio, M. Perduca, N. Youcef. “Purification and Biochemical Characterization of novel galectin from black poplar mushroom Cyclocybe cylindracea (Agaricomycetes) Strain MEST42 Grown in Algeria”. Int. J. Med. Mushrooms, 2024, **26**(2): 57-70.
3) M.E. Toumi, M. Perduca, N. Youcef, F.F. Kebaili, T. Mouad, T. Imene, S. C. Gaglio, R. Redouane, A. Lauriola, A. Malik, S.M. Elamine. “Characterization of Cytotoxic Lactose Binding Lectin from Sulphur Polypore, Laetiporus sulphureus (Agaricomycetes) from

Algeria". Int. J. Med. Mushrooms, 2021, **23**(11): 45-57. doi: 10.1615/IntJMedMushrooms.2021040303.
4) M. Perduca, M. Bovi, L. Destefanis, D. Nadali, L. Fin, F. Parolini, D. Sorio, M.E. Carrizo, H.L. Monaco. "Sructure and properties of the the giant reed (Arundo donax) lectin (ADL)" Glycobiology, 2021, **31**(11): 1543-1556. doi: 10.1093/glycob/cwab059.
5) F.F. Kebaili, T. Nouadri, M.E. Toumi, R. Rebai, C. Bensouici, P. Alvarado, M. Perduca . "Antioxidant activity and phenolic content of wild algerian lingzhi or reishi medicinal mushroom ganoderma lucidum (agaricomycetes) extracts". Int. J. Med. Mushrooms, 2021, **23**(6): 79-88.
6) M.E. Toumi, R. Redouane, K.F. Farouk, M. Fateh, B. Khaled, B. Laid, M. Perduca, N. Youcef. "Immunomodulatory potential of partial purified lectin from Lactarius delicious mushroom". Int. J. Med. Mushrooms, 2020, **22**(11): 1043-1055.
7) Bovi M, Cenci L, Perduca M, Capaldi S, Carrizo ME, Civiero L, Chiarelli LR, Galliano M, Monaco HL. BEL β-trefoil: a novel lectin with antineoplastic properties in king bolete (Boletus edulis) mushrooms.Glycobiology. 2013 May; **23**(5):578-592.
8) Bovi M, Carrizo ME, Capaldi S, Perduca M, Chiarelli LR, Galliano M, Monaco HL. Structure of a lectin with antitumoral properties in king bolete (Boletus edulis) mushrooms. Glycobiology. 2011 Aug; **21**(8):1000-1009.
9) Galliano M, Minchiotti L, Campagnoli M, Sala A, Visai L, Amoresano A, Pucci P, Casbarra A, Cauci M, Perduca M, Monaco HL. Structural and biochemical characterization of a new type of lectin isolated from carp eggs. Biochem J. 2003 Dec 1; **376**(Pt 2):433-440.

EDITORIAL ACTIVITY

- ✓ Associate Editor on the Editorial Board of Frontiers in Chemical Biology (specialty section Theoretical Modeling, Structure, Prediction and Design, Chief Editor Prof. Andrea Ilari).
- ✓ Review Editor on the Editorial Board of Protein Biochemistry for Basic and Applied Sciences (specialty section of Frontiers in Chemistry and Frontiers in Molecular Biosciences).
- ✓ Member of the Reviewer Board of Pharmaceutics.
- ✓ Guest Editor for Nanomaterials: Special Issue on "Synthesis, Properties and Applications of Polymeric Nanomaterials".

REVIEWER ACTIVITY

Reviewer for the following journals:

- ✓ Algal Research
- ✓ Algorithms for Molecular Biology
- ✓ Applied Sciences
- ✓ Bioorganic Chemistry
- ✓ Crystals
- ✓ Frontiers in Bioengineering and Biotechnology
- ✓ Frontiers in Chemical Biology
- ✓ International Journal of Data Mining and Bioinformatics (IJDMB)
- ✓ International Journal of Nanomedicine
- ✓ Italian Journal of Food Science (IJFS)
- ✓ Journal of Microencapsulation
- ✓ Journal of Nanoparticle Research (NANO)
- ✓ Membranes
- ✓ Molecules
- ✓ Nanomaterials
- ✓ Pharmaceutics
- ✓ Reviews in Chemical Engineering
- ✓ Scientific Reports

- ✓ Trends in Food Science & Technology
- ✓ Water Science and Technology

Reviewer for the following agencies:
- ✓ Ministero dell'Istruzione, dell'Università e della Ricerca MIUR)
- ✓ French National Research Agency (ANR)
- ✓ University of Pavia
- ✓ University of Udine

ANNEX
For almost complete and updated informations on teaching and research activity see
http://www.dbt.univr.it/?ent=persona&id=41&lang=it
http://www.dbt.univr.it/?ent=persona&id=41&lang=en

Book Chapters

1. Coauthor of a book chapter entitled "Clodronate as a Therapeutic Strategy against Osteoarthritis" in the book "Research of Pathogenesis and Novel Therapeutics in Arthritis" by Chih-Hsin Tang, MDPI Books, (June 2019) ISBN 978-3-03897-065-1 (Pbk); ISBN 978-3-03897-066-8 (PDF); doi: 10.3390/books978-3-03897-066-8.

2. Coauthor of a book chapter entitled "Nanofarmanologia" in the book "Farmacologia generale e molecolare" by Clementi F. and Fumagalli G., Edra; 5 edition (11 July 2018) ISBN-10: 8821444368.

Publications

1. L. Dalle Carbonare, A. Minoia, S. Zouari, M. Braggio, M. Cominacini, S.C. Gaglio, F.C. Piritore, P. Lorenzi, M. Meneghel, K. Dervishi, A. Corsi, A. Pedrinolla, G. Giuriato, A. Fiore, A. Celesia, M. Venturelli, F. Schena, M. Donadelli, M. Mottes, M.G. Romanelli, M. Perduca, D. Guardavaccaro, E. Crisafulli, D. Zipeto, L. Barile, M.T. Valenti. "Extracellular Vesicles from Long Covid Patients Promote RUNX2-Mediated Cellular Stress via Dysregulated miR-204 and p53 Pathway Activation". Cell Communication and Signaling, 2025, **23**, 508. https://doi.org/10.1186/s12964-025-02502-7.
2. A. Vareschi, S.C. Gaglio, K. Dervishi, A. Minoia, G. Zanella, L. Lucchi, E. Serena, C. Jimenez-Lopez, F.C. Piritore, M. Meneghel, D. Zipeto, D.M. Gaboreanu, I.C. Barbu, M.C. Chifiriuc, L. Piubello Orsini, S. Landi, C. Leardini, M. Perduca, L. Dalle Carbonare, M.T. Valenti. "Evaluation of Biocontrol Measures to Reduce Bacterial Load and Healthcare-Associated Infections". Microorganisms, 2025, 13, 1923. https://doi.org/10.3390/microorganisms13081923.
3. M. Jimenez-Carretero, A.B. Gómez, M. Lázaro, A.C. Millán-Placer, S.C. Gaglio, E. Anoz-Carbonell, A. Picó, Z. Baranyai, Y. Jabalera, M. Maqueda, M.P. Carrasco-Jiménez, M. Perduca, J.M. de la Fuente, G.R. Iglesias, M. Montalbán-López, C. Jimenez-Lopez, J.A. Aínsa. "Magnetic hyperthermia drastically enhances killing of Mycobacterium

tuberculosis by bacteriocin AS-48 grafted on biomimetic nanoparticles". Int J Biol Macromol, 2025, **319**, 145441. https://10.1016/j.ijbiomac.2025.145441.
4. C.A. Carmona-Carmona, G. Bisello, R. Franchini, G Lunardi, R. Galavotti, M. Perduca, R.P. Ribeiro, B.D. Belviso, A. Giorgetti, R. Caliandro, P.M. Lievens, M. Bertoldi. "The CRISPR-Cas9 knockout DDC SH-SY5Y in vitro model for AADC deficiency provides insight into the pathogenicity of R347Q and L353P variants: a cross-sectional structural and functional analysis". FEBS Journal, 2025. https://doi.org/10.1111/febs.70120.
5. J.M Baine, Y. Duhoo, T. Doukov, A. Desfosses, G. Bisello, M.L. Beio, O. Bauer, M. Perduca, M. Bacia-Verloop, M. Bertoldi, R.S. Phillips, I. Gutsche and D.B. Berkowitz. "α-Hydrazino Acids Inhibit Pyridoxal Phosphate-Dependent Decarboxylases via 'Catalytically Correct' Ketoenamine Tautomers: A Special Motif for Chemical Biology & Drug Discovery?" ACS Catalysis, 2025, **15**, 8204–8218. https://doi.org/ 10.1021/acscatal.5c00326.
6. M.E. Toumi, R. Rebai, F.F. Kebaili, I. Meriane, Z.A. Achouri, M.A. Lahneche, I. Maghboune, A. Guetteche, I. Derardja, L. Bellebcir, M. Perduca, N. Youcef. "Molecular, Phylogenetic, and Chemistry Characterization and In Vitro Evaluation of the Antioxidant and Cytotoxicity Potential of Cyclocybe cylindracea Strain TMES42 (Agaricomycetes) from Algeria". Int. J. Med. Mushrooms, 2025, **27** (10) 43-59. https://doi.org/10.1615/IntJMedMushrooms.2025059220.
7. S.C. Gaglio, G. Zanella, S. Cazzaniga, N. Olivieri, E. Battagini, A. Romeo, M. Ballottari and M. Perduca. "Enhanced stability and photochemical activity of Photosystem I from the green alga *Chlamydomonas reinhardtii* upon encapsulation in organic matrixes" ACS Sustainable Chemistry and Engineering, 2025, 2025, **13** (13), 5046–5056. https://doi.org/10.1021/acssuschemeng.4c10593.
8. M. Jimenez-Carretero, T. Pozo-Gualda, M. Lázaro, A. Sola-Leyva, P.A. Rodriguez-Jimenez, M.P. Carrasco-Jiménez, G.R. Iglesias, M. Perduca and C. Jimenez-Lopez. "Role of Mms7 from *Magnetococcus marinus* MC-1 in controlling the growth and properties of biomimetic magnetic nanoparticles" International Journal of Biological Macromolecules, 2025, **307**, (3), 142165. https://doi.org/10.1016/j.ijbiomac.2025.142165.
9. E.M. Strehle, R. Battini, V. Gowda, A. Kuster, S. Amin, M. Bertoldi, M. Perduca, L. Leuzzi, S. Johnson, P. Lupo, E. Liu, E. Fox, C. Werner. "REVEAL-CP: selective screening of paediatric patients for aromatic L-amino acid decarboxylase deficiency with a Guthrie card and in silico structural modelling of one index case". Genetic Testing and Molecular Biomarkers, 2025, **29**, 12-18. https://doi.org/10.1089/gtmb.2024.0427.
10. S.C.T. Mbiandjeu, A. Siciliano, A. Matte, E. Federti, M. Perduca, D. Melisi, I. Andolfo, A. Amoresano, A. Iolascon, M.T. Valenti, F. Turrini, M. Bovi, A. Pisani, A. Recchiuti, D. Mattoscio, V. Riccardi, L. Dalle Carbonare, C. Brugnara, N. Mohandas, L. De Franceschi. "Nrf2 plays a key role in erythropoiesis during aging ". Antioxidants, 2024, **13**(4), 454. https://doi.org/10.3390/antiox13040454.
11. G. Bisello, C.G.J. Saris, R. Franchini, M.M. Verbeek, M.A.A.P. Willemsen, M. Perduca and M. Bertoldi. "An attenuated, adult case of AADC deficiency demonstrated by protein characterization". Molecular Genetics and Metabolism Reports, 2024, **39**, 101071. https://doi.org/10.1016/j.ymgmr.2024.101071.
12. K. Salem, F. Elgharbi, H. Ben Hlima, O.A. Alghamdi, M. Perduca, A. Sayari, A. Hmida-Sayari. "His-tag effect on biochemical properties of B. subtilis US572 α-amylase produced in E. coli: application of the recombinant enzyme in breadmaking". Food Biotechnology, 2024, 38, 134-158. https://doi.org/10.1080/08905436.2024.2345768.
13. M.E. Toumi, F.F. Kebaili, R. Redouane, I. Derardja, T. Mouad, S.C. Gaglio, M. Perduca, N. Youcef. "Purification and Biochemical Characterization of novel galectin from black poplar mushroom Cyclocybe cylindracea (Agaricomycetes) Strain MEST42 Grown in

Algeria". Int. J. Med. Mushrooms, 2024, **26**(2): 57-70. https://doi.org/10.1615/IntJMedMushrooms.2023051925.
14. S.C. Gaglio, M. Perduca, D. Zipeto, G. Bardi. "Efficiency of chitosan nanocarriers in vaccinology for mucosal immunization". Vaccines 2023, **11**, 1333. https://doi.org/10.3390/vaccines11081333.
15. G. Bisello, R.P. Ribeiro, M. Perduca, B.D. Belviso, P. Polverino de' Laureto, A. Giorgetti, R. Caliandro, M. Bertoldi. "Human aromatic amino acid decarboxylase is an asymmetric and flexible enzyme: implication in AADC deficiency". Protein Science 2023, **32**(8):e4732. https://doi.org/10.1002/pro.4732.
16. F. Piccinelli, S. Mizzoni, G. Zanella, S.C. Gaglio, M. Perduca, A. Romeo; S. Ruggieri, C. Nardon, E. Cavalli. "Ln(III) Complexes Embedded in Biocompatible PLGA Nanoparticles as Potential Vis-to-NIR Optical Probes". Molecules 2023, **28**, 2251. https://doi.org/10.3390/molecules28052251.
17. M. Donini, F. Pettinella, G. Zanella, S.C. Gaglio, C. Laudanna, M. Jimenez-Carretero, C. Jimenez-Lopez, M. Perduca, S. Dusi. "Effects of Magnetic Nanoparticles on the Functional Activity of Human Monocytes and Dendritic Cells". *Int. J. Mol. Sci.,* 2023, ***24***, 1358. https://doi.org/10.3390/ijms24021358.
18. M. Repellin, F. Carton, F. Boschi, M. Galiè, M. Perduca, L. Calderan, A. Jacquier, J. Carras, L. Schaeffer, S. Briançon, G. Lollo, M. Malatesta. "Repurposing pentamidine using hyaluronic acid-based nanocarriers for skeletal muscle treatment in myotonic dystrophy". *Nanomedicine: Nanotechnology, Biology, and Medicine*, 2023, **47**:102623. https://doi.org/10.1016/j.nano.2022.102623.
19. M. Perduca "Synthesis, Properties and Applications of Polymeric Nanomaterials". *Nanomaterials,* 2022, ***12***, 4385. https://doi.org/10.3390/nano12244385.
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Oral Contributions

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4. M. Perduca, G. Bisello, M. Bertoldi “Flexibility of human aromatic amino acid decarboxylase: relevance in pathogenesis” Italian Crystallographic Association 3rd Meeting of the Biological MacroMolecules Section, San Domenico - FI (Italy), May 2022.
5. G. Bisello, M. Perduca, M. Bertoldi “Human Aromatic L-Amino Acid Decarboxylase (AADC) in its native and inhibitor bound crystal structure solved at different pH values” Italian Crystallographic Association 2nd Meeting of the Biological MacroMolecules Section, Online event, June 2021.
6. M. Perduca
“Biomimetic Magnetic Nanoparticles: enhancing their cellular uptake and cytotoxic effect when bound to Doxorubicin” Regione Veneto, FSE 2014-2020 Living Lab: sviluppo e ingegnerizzazione di materiali magnetici "smart", in modalità remota su piattaforma Zoom, November 2021.

7. M. Perduca
“Protein crystallization and structure solving: classical and novel methods” Master course in Biotechnology, Department of Microbiology, University of Granada (Spain), July 2019
8. A. Hmida-Sayari, F. Elgharbi, K. Salem, M. Perduca
“Structure/function/properties relationships and application of aGH11 xylanase” Second Mediterranean Congress On Biotechnology Mcb 2, Hôtel Saphir Palace Hammamet (Tunisia), March 2019.
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10. M. Perduca
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“Structural characterization of human lipocalin-type prostaglandin d synthase (L-PGDS)” Meeting FIRB 2009 - Metodologie e Tecnologie Innovative per la Farmaceutica, University of Verona (Italy), April 2009.
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“Structural studies on proteins involved in bile acid transport” A symposium honoring professor Sandro Coda, University of Pavia (Italy), December 2008.
18. M. Perduca
“Studiando le Fatty acid-binding Proteins…” NMR Laboratory, ICM, Milano (Italy), November 2006.
19. M. Perduca
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