

# Curriculum Vitae

**Massimiliano Perduca**

## **Biocrystallography and Nanostructure Laboratory**

Department of Biotechnology – University of Verona – Strada le Grazie, 15  
37134 Verona, Italy  
Telephone: +39 045 802.7984  
Fax: +39 045 802.7929  
e-mail: [massimiliano.perduca@univr.it](mailto:massimiliano.perduca@univr.it)

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 (19/06/2026)**

Total number of refereed publications: **78**

Total citations: **1327** (Scopus)

Averaged Impact Factor: **4.2**

H-Index: **22** (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 physico-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.**

- Internationalization representative at the Department of Biotechnology at the University of Verona, since 2026.
- 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 Caliendo, Benny Danilo Belviso), Sincrotrone Elettra Trieste (Maurizio Polentarutti).

## **ASSIGNED FUNDINGS**

### **Horizon Europe (HORIZON) - Call: HORIZON-MSCA-2025-SE-01**

Living magnetobots for targeted theranostics to tackle metastatic solid tumours (Project: 101299576 — MagBIO)

Local Coordinator: Prof. Massimiliano Perduca

PI: Prof. Alfred Fernandez-Castane

Total amount funded: 1.197.390 €

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

Nanoplataformas Magnéticas Biomiméticas Multifuncionales (BioMag) (PDC2021-121135-100)

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 pharmaceutical 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 Startup 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. "Structure 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 deliciosus* 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  $\beta$ -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)
- ✓ European Synchrotron Radiation Facility (ESRF)
- ✓ 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, **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  $\alpha$ -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. Poverino 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. Mizzone, 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>.
20. S.C. Gaglio, Y. Jabalera, M. Montalbán-López, A.C. Millán-Placer, M. Lázaro-Callejón, M. Maqueda, M.P. Carrasco Jimenez, A. Laso, J.A. Aínsa, G.R. Iglesias, M. Perduca, C. Jimenez-Lopez. "Embedding biomimetic magnetic nanoparticles, coupled with AS-48 peptide, into PLGA for the treatment of intracellular pathogens". *Pharmaceutics*, 2022, **14**, 2744. <https://doi.org/10.3390/pharmaceutics14122744>.

21. L. Dalle Carbonare, J. Bertacco, S.C Gaglio, A. Minoia, M. Cominacini, S. Cheri, M. Deiana, G. Marchetto, A. Bisognin, A Gandini, F. Antoniazzi, M. Perduca, M. Mottes, M.T. Valenti. "Fisetin: an Integrated Approach to identify a strategy promoting osteogenesis". *Frontiers in Pharmacology*, 2022, **13**:890693, <https://doi.org/10.3389/fphar.2022.890693>.
22. E. Cavalli, C. Nardon, O.G. Willis, F. Zinna, L. Di Bari, S. Mizzone, S. Ruggieri, S.C. Gaglio, M. Perduca, C. Zaccone, A. Romeo, F. Piccinelli. "NIR Circularly Polarized Luminescence from water stable organic nanoparticles containing a chiral Yb(III) complex". *Chem. Eur. J.*, 2022, **28**(37):e202200574. <https://doi.org/10.1002/chem.202200574>.
23. L. Dalle Carbonare, F. Antoniazzi, A. Gandini, S. Orsi, J. Bertacco, V. Li Vigni, A. Minoia, F. Griggio, M. Perduca, M. Mottes, M.T. Valenti. "Two Novel C-Terminus RUNX2 Mutations in Two Cleidocranial Dysplasia (CCD) Patients Impairing p53 Expression". *Int. J. Mol. Sci.* 2021, **22**:19, 10336. <https://doi.org/10.3390/ijms221910336>.
24. 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. <https://doi.org/10.1615/IntJMedMushrooms.2021040303>.
25. Y. Jabalera, A. Sola-Leyva, S.C. Gaglio, M.P. Carrasco-Jiménez, G.R. Iglesias, M. Perduca, C. Jimenez-Lopez." Enhanced Cytotoxic Effect of TAT-PLGA-Embedded DOXO Carried by Biomimetic Magnetic Nanoparticles upon Combination with Magnetic Hyperthermia and Photothermia". *Pharmaceutics*, 2021, **13**:8 ,1168. <https://doi.org/10.3390/pharmaceutics13081168>.
26. M. Donini, S. C. Gaglio, C. Laudanna, M. Perduca, S. Dusi. "Oxyresveratrol-Loaded PLGA Nanoparticles Inhibit Oxygen Free Radical Production by Human Monocytes: Role in Nanoparticle Biocompatibility". *Molecules*, 2021, **26**:14, 4351. <https://doi.org/10.3390/molecules26144351>.
27. M. Perduca, M. Bovi, L. Destefanis, D. Nadali, L. Fin, F. Parolini, D. Sorio, M.E. Carrizo, H.L. Monaco. "Structure and properties of the the giant reed (*Arundo donax*) lectin (ADL)" *Glycobiology*, 2021, **31**(11): 1543-1556. <https://doi.org/10.1093/glycob/cwab059>.
28. 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. <https://doi.org/10.1615/IntJMedMushrooms.2021038424>
29. S. C. Gaglio, M. Donini, P.E. Denbaes, S. Dusi , M. Perduca . "Oxyresveratrol Inhibits R848-Induced Pro-Inflammatory Mediators Release by Human Dendritic Cells Even When Embedded in PLGA Nanoparticles". *Molecules*, 2021, **26**:8, 2106. <https://doi.org/10.3390/molecules26082106>.
30. F. Vurro, Y. Jabalera, S. Mannucci, G. Glorani, A. Sola-Leyva, M. Gerosa, A. Romeo, M. Malatesta, L. Calderan, G.R. Iglesias, M.P. Carrasco Jimenez, C. Jimenez-Lopez, M. Perduca. "Improving the Cellular Uptake of Biomimetic Magnetic Nanoparticles". *Nanomaterials*, 2021, **11**:766. <https://doi.org/10.3390/nano11030766>.
31. K. Salem, Y. Jabalera, J.D. Puentes-Pardo, J. Vilchez-Garcia, A. Sayari, A. Hmida-Sayari, C. Jimenez-Lopez, M. Perduca. "Enzyme Storage and Recycling: Nanoassemblies of  $\alpha$ -Amylase and Xylanase Immobilized on Biomimetic Magnetic Nanoparticles". *ACS Sustainable Chemistry and Engineering*, 2021, **9**:11, 4054-4063. <https://doi.org/10.1021/acssuschemeng.0c08300>.
32. 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 deliciosus* mushroom". *Int. J. Med. Mushrooms*, 2020, **22**:11, 1043-1055. <https://doi.org/10.1615/IntJMedMushrooms.2020036384>.

33. M.T. Valenti, M. Perduca, M.G. Romanelli, M. Mottes, L. Dalle Carbonare. "A potential role for astaxanthin in the treatment of bone diseases (Review)". *Mol Med Rep.*, 2020, **22**(3):1695-1701. <https://doi.org/10.3892/mmr.2020.11284>.
34. M.T. Valenti, G. Marchetto, M. Perduca, N. Tiso, M. Mottes and L. Dalle Carbonare "BEL  $\beta$ -Trefoil Reduces the Migration Ability of RUNX2 Expressing Melanoma Cells in Xenotransplanted Zebrafish" *Molecules*, 2020, **25**(6):1270. <https://doi.org/10.3390/molecules25061270>.
35. M. Perduca, L. Destefanis, M. Bovi, M. Galliano, F. Munari, M. Assfalg, F. Ferrari, H.L. Monaco, S. Capaldi. "Structure and properties of the oyster mushroom (*Pleurotus ostreatus*) lectin (POL)" *Glycobiology*, 2020, **30**(8):550-562. <https://doi.org/10.1093/glycob/cwaa006>.
36. K. Salem, F. Elgharbi, H. Ben Hlima, M. Perduca, A. Sayari, A. Hmida-Sayari "Biochemical characterization and structural insights into the high substrate affinity of a dimeric and Ca<sup>2+</sup> independent *Bacillus subtilis*  $\alpha$ -amylase" *Biotechnol Prog.*, 2020, **e2964**. <https://doi.org/10.1002/btpr.2964>.
37. Cherubin, L. Destefanis, M. Bovi, F. Perozeni, I. Bargigia, G. de la Cruz Valbuena, C. D'Andrea, A. Romeo, M. Ballottari and M. Perduca "Encapsulation of Photosystem I in Organic Microparticles Increases Its Photochemical Activity and Stability for Ex Vivo Photocatalysis" *ACS Sustainable Chemistry and Engineering*, 2019, **7**, 10435–10444. <https://doi.org/10.1021/acssuschemeng.9b00738>.
38. S.C. Gaglio, C. De Rosa, F. Piccinelli, A. Romeo and M. Perduca "Complexes of rare earth ions embedded in poly(lactic-co-glycolic acid) (PLGA) nanoparticles: Characterization and spectroscopic study" *Optical Materials*, 2019, **94**, 249-256. <https://doi.org/10.1016/j.optmat.2019.05.034>.
39. M. Perduca, S. Nicolis, B. Mannucci, M. Galliano and H.L. Monaco "High resolution crystal structure data of human plasma retinol-binding protein (RBP4) bound to retinol and fatty acids" *Data in Brief*, 2018, **18**, 1073-1081. <https://doi.org/10.1016/j.dib.2018.03.112>.
40. S. Hirano, M. Bovi, A. Romeo, F. Guzzo, C. Chiamulera, M. Perduca "Ketamine nano-delivery based on poly-lactic-co-glycolic acid (PLGA) nanoparticles" *Applied Nanoscience*, 2018, **8**, 655-663. <https://doi.org/10.1007/s13204-018-0765-1>.
41. M. Perduca, S. Nicolis, B. Mannucci, M. Galliano and H.L. Monaco "Human plasma retinol-binding protein (RBP4) is also a fatty acid-binding protein" *BBA - Molecular and Cell Biology of Lipids*, 2018, **1863**, 458-466. <https://doi.org/10.1016/j.bbalip.2018.01.010>.
42. M.T. Valenti, M. Mottes, A. Biotti, M. Perduca, A. Pisani, M. Bovi, M. Deiana, S. Cheri and L. Dalle Carbonare "Clodronate as a therapeutic strategy against osteoarthritis" *International Journal of Molecular Sciences*, 2017, **18**, 1-11. <https://doi.org/10.3390/ijms18122696>.
43. M. Perduca, L. Dalle Carbonare, M. Bovi, G. Innamorati, S. Cheri, C. Cavallini, M.T. Scuopoli, A. Mori and M.T. Valenti "Runx2 downregulation, migration and proliferation inhibition in melanoma cells treated with BEL  $\beta$ -trefoil" *Oncology Reports*, 2017, **37**, 2209-2214. <https://doi.org/10.3892/or.2017.5493>
44. C. Portioli, M. Bovi, D. Benati, M. Donini, M. Perduca, A. Romeo, S. Dusi, H.L. Monaco and M. Bentivoglio "Novel functionalization of polymeric nanoparticles for brain targetin" *Journal of Biomedical Materials Research Part A*, 2017, **105**, 847-858. <https://doi.org/10.1002/jbm.a.35961>
45. S. Capaldi, B. Faggion, M.E. Carrizo, L. Destefanis, M.C. Gonzales, M. Perduca, M. Bovi, M. Galliano and H.L. Monaco

- "Three dimensional structure and ligand-binding site of carp Fischelectin (FEL)" *Acta Cryst. D*, 2015, **71**, 1123-1135. <https://doi.org/10.1107/S1399004715004174>.
46. L. Marongiu, M. Donini, M. Bovi, M. Perduca, F. Vivian, A. Romeo, S. Mariotto, H.L. Monaco, and S. Dusi  
"The inclusion into PLGA nanoparticles enables  $\alpha$ -bisabolol to efficiently inhibit the human Dendritic Cell pro-inflammatory activity" *Journal of Nanoparticle Research*, 2014, **16**, 2554. <https://doi.org/10.1007/s11051-014-2554-4>.
47. M. Perduca, M. Bovi, M. Bertinelli, E. Bertini, L. Destefanis, M.E. Carrizo, S. Capaldi and H.L. Monaco  
"High resolution structures of mutants of residues that affect access to the ligand-binding cavity of human lipocalin-type prostaglandin D synthase" *Acta Cryst. D*, 2014, **70**, 2125-2138. <https://doi.org/10.1107/S1399004714012462>.
48. M. Bovi, L. Cenci, M. Perduca, S. Capaldi, M.E. Carrizo, L. Civiero, L.R. Chiarelli, M. Galliano and H.L. Monaco  
"BEL beta-trefoil. A novel lectin with antineoplastic properties in king bolete (*Boletus edulis*) mushrooms." *Glycobiology* 2013, **23**, 578-592. <https://doi.org/10.1093/glycob/cws164>.
49. E. Ambrosi, S. Capaldi, M. Bovi, G. Saccomani, M. Perduca and H.L. Monaco  
"Structural changes in the BH3 domain of SOUL protein upon interaction with the anti-apoptotic protein Bcl-xL." *Biochem J.* 2011, **438**, 291-301. <https://doi.org/10.1042/BJ20110257>.
50. Bovi, M.E. Carrizo, S. Capaldi, M. Perduca, L.R. Chiarelli, M. Galliano and H.L. Monaco  
"Structure of a lectin with antitumoral properties in king bolete (*Boletus edulis*) mushrooms" *Glycobiology* 2011, **21**, 1000-1009. <https://doi.org/10.1093/glycob/cwr012>.
51. M.B. Decca, V.V. Galassi, M. Perduca, H.L. Monaco and G.G. Montich  
"Influence of the lipid phase state and electrostatic surface potential on the conformations of a peripherally bound membrane protein" *Journal of Physical Chemistry B* 2010, **114**, 15141-14150. <https://doi.org/10.1021/jp104035z>.
52. V. Galassi, V. Nolan, M.A. Villarreal, M. Perduca, H.L. Monaco and G.G. Montich.  
"Kinetics of lipid-membrane binding and conformational change of L-BABP" *Biochem. Biophys. Res. Commun.* 2009, **382**, 771-775. <https://doi.org/10.1016/j.bbrc.2009.03.103>.
53. S. Capaldi, G. Saccomani, D. Fessas, M. Signorelli, M. Perduca and H.L. Monaco  
"The X-ray structure of zebrafish (*Danio rerio*) ileal bile acid-binding protein reveals the presence of binding sites on the surface of the protein molecule" *J. Mol. Biol.* 2009, **385**, 99-116. <https://doi.org/10.1016/j.jmb.2008.10.007>.
54. M.A. Villarreal, M. Perduca, H.L. Monaco and G.G. Montich  
"Binding and Interactions of L-BABP to Lipid Membranes Studied by Molecular Dynamic Simulations" *Biochim. Biophys. Acta* 2008, **1778**, 1390-1397. <https://doi.org/10.1016/j.bbamem.2008.02.015>.
55. M. Tarter, S. Capaldi, M.E. Carrizo, E. Ambrosi, M. Perduca and H.L. Monaco.  
"Crystal structure of human cellular retinol-binding protein II to 1.2 Å resolution" *Proteins: Structure, Function, and Bioinformatics* 2008, **70**, 1626-1630. <https://doi.org/10.1002/prot.21848>.
56. S. Capaldi, M. Guariento, G. Saccomani, D. Fessas, M. Perduca and H.L. Monaco.  
"A single amino acid mutation in zebrafish (*Danio rerio*) liver bile acid-binding protein can change the stoichiometry of ligand binding" *J. Biol. Chem.* 2007, **282**, 31008-31018. <https://doi.org/10.1074/jbc.M705399200>.
57. S. Capaldi, M. Perduca, B. Faggion, M.E. Carrizo, A. Tava, L. Ragona and H.L. Monaco.  
"Crystal structure of the anticarcinogenic Bowman-Birk inhibitor from snail medic

- (Medicago scutellata) seeds complexed with bovine trypsin" *Journal of Structural Biology* 2007, **158**, 71-79. <https://doi.org/10.1016/j.jsb.2006.10.017>.
58. M.B. Decca, M. Perduca, H.L. Monaco and G.G. Montich  
"Conformational changes of chicken liver bile acid-binding protein bound to anionic lipid membrane are coupled to the lipid phase transitions" *Biochim. Biophys. Acta* 2007, **1768**, 1583-1591. <https://doi.org/10.1016/j.bbamem.2007.03.018>.
59. S. Capaldi, M. Guariento, M. Perduca, S.M. Di Pietro, J.A. Santome and H.L. Monaco.  
"Crystal structure of axolotl (*Ambystoma mexicanum*) liver bile acid-binding protein bound to cholic and oleic acid" *Proteins* 2006, **64**, 79-88. <https://doi.org/10.1002/prot.20961>.
60. A. Sala, S. Capaldi, M. Campagnoli, B. Faggion, S. Labò, M. Perduca, A. Romano, M.E. Carrizo, M. Valli, L. Visai, L. Minchiotti, M. Galliano and H.L. Monaco  
"Structure and properties of the C-terminal domain of insulin-like growth factor binding protein-1 isolated from human amniotic fluid" *J. Biol. Chem.* 2005, **280**, 29812-29819. <https://doi.org/10.1074/jbc.M504304200>.
61. V. Nolan, M. Perduca, H.L. Monaco and G.G. Montich  
"Chicken Liver Bile Acid-binding protein is in a compact partly folded state at acidic pH. Its relevance to the interaction with lipid membranes" *Biochemistry* 2005, **44**, 8486-8493. <https://doi.org/10.1021/bi050129r>.
62. M.E. Carrizo, S. Capaldi, M. Perduca, F.J. Irazoqui, G.A. Nores and H.L. Monaco  
"The antineoplastic lectin of the common edible mushroom (*Agaricus bisporus*) has two binding sites, each specific for a different configuration at a single epimeric hydroxyl" *J. Biol. Chem.* 2005, **280**, 10614-10623. <https://doi.org/10.1074/jbc.M411989200>.
63. D. Nichesola, M. Perduca, S. Capaldi, M.E. Carrizo, P.G. Righetti and H.L. Monaco  
"Crystal Structure of Chicken Liver Basic Fatty Acid-Binding Protein Complexed with Cholic Acid" *Biochemistry* 2004, **43**, 14072-14079. <https://doi.org/10.1021/bi0489661>.
64. M.E. Carrizo, F.J. Irazoqui, R.D. Lardone, G.A. Nores, J.A. Curtino, S. Capaldi, M. Perduca and H.L. Monaco  
"Crystallization and preliminary X-ray study of the common edible mushroom (*Agaricus bisporus*) lectin" *Acta Cryst. D* 2004, **60**, 718-720. <https://doi.org/10.1107/S0907444904001969>.
65. M. Galliano, L. Minchiotti, M. Campagnoli, A. Sala, L. Visai, A. Amoresano, P. Pucci, A. Casbarra, M. Cauci, M. Perduca and H. L. Monaco  
"Structural and biochemical characterization of a new type of lectin isolated from carp eggs" *Biochemical J* 2003, **376**, 433-440. <https://doi.org/10.1042/BJ20030413>.
66. S.M. Di Pietro, B. Còrsico, M. Perduca, H.L. Monaco and J.A. Santomé  
"Structural and Biochemical Characterization of Toad Liver Fatty Acid-Binding Protein" *Biochemistry* 2003, **42**, 8192-8203. <https://doi.org/10.1021/bi034213n>.
67. V. Nolan, M. Perduca, H.L. Monaco, B. Maggio and G.G. Montich  
"Interactions of Chicken Liver Basic Fatty Acid-Binding Protein with Lipid Membranes" *Biochim. Biophys. Acta* 2003, **1611**, 98-106. [https://doi.org/10.1016/S0005-2736\(03\)00030-0](https://doi.org/10.1016/S0005-2736(03)00030-0).
68. F. Vasile, L. Ragona, M. Catalano, L. Zetta, M. Perduca, H.L. Monaco and H. Molinari  
"Letter to the Editor: Solution Structure of Chicken Liver Basic Fatty Acid-Binding Protein" *J. Biomol. NMR* 2003, **25**, 157-160. <https://doi.org/10.1023/A:1022277727303>.
69. B. Verzola, M. Perduca, G. Mezo, F. Hudecz and P.G. Righetti  
"Monitoring folding transitions of synthetic, branched-chain polymeric polypeptides by capillary zone electrophoresis" *Electrophoresis* 2003, **24**, 794-800. <https://doi.org/10.1002/elps.200390099>
70. T. Beringhelli, I. Eberini, M. Galliano, A. Pedoto, M. Perduca, A. Sportiello, E. Fontana, H.L. Monaco and E. Gianazza  
"pH and Ionic Strength Dependence of Protein (Un)Folding and Ligand Binding to Bovine

$\beta$ -Lactoglobulins A and B" *Biochemistry* 2002, **41**, 15415-15422.

<https://doi.org/10.1021/bi020493f>.

71. S.M. Di Pietro, M. Perduca, J.A. Santomé and H.L. Monaco

"Crystallization and preliminary X-ray study of two Liver Basic Fatty Acid Binding Proteins"

*Acta Cryst. D* 2001, **57**, 1903-1905. <https://doi.org/10.1107/S0907444901016018>.

72. T. Beringhelli, L. Goldoni, S. Capaldi, A. Bossi, M. Perduca and H.L. Monaco

"Interaction of Chicken Liver (Basic) Fatty Acid Binding Protein with Fatty Acids:

a  $^{13}\text{C}$  NMR and Fluorescence Study" *Biochemistry* 2001, **40**, 12604-12611.

<https://doi.org/10.1021/bi011009w>.

73. P.G. Righetti, S. Magnusdottir, C. Gelfi and M. Perduca

"Behaviour of inorganic and organic cations in the Debye-Hückel layer of DNA"

*J. Chromatogr. A* 2001, **920**, 309-316. [https://doi.org/10.1016/S0021-9673\(01\)00695-1](https://doi.org/10.1016/S0021-9673(01)00695-1).

74. M. Perduca, F. Mancia, R. Del Giorgio and H.L. Monaco

"Crystal structure of a truncated form of porcine odorant-binding protein"

*Proteins* 2001, **42**, 201-209. [https://doi.org/10.1002/1097-0134\(20010201\)42:2<201::AID-PROT70>3.0.CO;2-7](https://doi.org/10.1002/1097-0134(20010201)42:2<201::AID-PROT70>3.0.CO;2-7).

75. G. Massolini, E. De Lorenzi, E. Calleri, C. Bertucci, H.L. Monaco, M. Perduca, G. Caccialanza and I.W. Wainer

"Properties of a stationary phase based on immobilised chicken liver basic fatty acid-binding protein" *J. Chromatogr. B Biomed. Sci. Appl.* 2001, **751**, 117-130.

[https://doi.org/10.1016/S0378-4347\(00\)00464-3](https://doi.org/10.1016/S0378-4347(00)00464-3).

76. M. Perduca, A. Bossi, L. Goldoni, H.L. Monaco and P.G. Righetti

"Crystallization of chicken liver (basic) fatty acid-binding protein after purification in multicompartement electrolyzers with isoelectric membranes"

*Electrophoresis* 2000, **21**, 2316-2320. [https://doi.org/10.1002/1522-2683\(20000701\)21:12<2316::AID-ELPS2316>3.0.CO;2-0](https://doi.org/10.1002/1522-2683(20000701)21:12<2316::AID-ELPS2316>3.0.CO;2-0).

77. A. Amoresano, A. Brancaccio, A. Andolfo, M. Perduca, H.L. Monaco and G. Marino

"The Carbohydrates of the Isoforms of three Avian Riboflavin-Binding Proteins"

*Eur. J. Biochem.* 1999, **263**, 849-858. <https://doi.org/10.1046/j.1432-1327.1999.00570.x>.

78. C. Gelfi, D. Mauri, M. Perego, M. Perduca and P.G. Righetti

"Capillary zone electrophoresis of ds-DNA in isoelectric buffers: effect of addition of competing, non Amphoteric ions" *Electrophoresis* 1998, **19**, 1704-1710.

<https://doi.org/10.1002/elps.1150191030>.

## Oral Contributions

1. M. Perduca, G. Bisello, M. Bertoldi "Synchrotron radiation helps revealing the structure of a mobile loop in the human aromatic amino acid decarboxylase" SILS Conference 2024" Campus dell'Università della Calabria, Rende, Italia, September 2024.

2. S.C. Gaglio, Y. Jabalera, A. Sola-Leyva, M.P. Carrasco Jimenez, G.R. Iglesias, M. Perduca, C. Jimenez-Lopez. "Effect of TAT-PLGA-Dox transported by biomimetic magnetic nanoparticles under magnetic hyperthermia and photothermia irradiation" Nals 2024, 4th International conference on Nanomaterials Applied to Life Sciences", Faculty of Scienze, University of Granada, Campus Fuentenueva, Granada (Spain), February 2024.

3. G. Bisello, R.P. Ribeiro, B.D. Belviso, F. Magrinelli, S. Efthymiou, A. Giorgetti, R. Calindro, M. Perduca, M. Bertoldi. "Preliminary structural characterization of AADC deficiency variants to determine the molecular basis for protein alteration" Italian Crystallographic Association 4th Meeting of the Biological MacroMolecules Section, San Domenico - FI (Italy), May 2023.

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.
9. K. Salem, M. Perduca, A. Sayari, A. Hmida-Sayari  
"Overexpression of a *Bacillus subtilis* amylase in *E. coli* and application in bread making" Second Mediterranean Congress On Biotechnology Mcb 2, Hôtel Saphir Palace Hammamet (Tunisia), March 2019.
10. M. Perduca  
"Redefining the specificity of a human protein: the plasma retinol-binding protein case" The 17th International Days of Biotechnology (IDB/JIB 2018), Hotel Green Park Concorde, Sousse (Tunisia), December 2018.
11. M. Perduca, S. Nicolis, B. Mannucci, M. Galliano, H.L. Monaco  
"Can we obtain new information from old protein crystals? The plasma retinol-binding protein case." III REUNIÓN DE LA ASOCIACIÓN LATINOAMERICANA DE CRISTALOGRAFÍA I ENCUENTRO DE LA AchCr, Valparaíso (Chile), October 2018.
12. M. Perduca, S. Cheri, G. Glorani, A. Pisani, M. Bovi, A. Mattè, L. De Franceschi, M. Mottes, L. Dalle Carbonare, M.T. Valenti  
"Treatment of skeletal diseases with a naturally derived antioxidant and bisphosphonate embedded nanoparticles" Biomaterials for healthcare, Roma (Italy), October 2016.
13. M. Perduca  
"The access to the binding cavity of Lipocalin-type Prostaglandin D-synthase (L-PGDS) is regulated by a Tryptophan gate" 1st Annual Gathering of Italian Structural Biologists (Satellite Meeting of the XLIV National Congress of the Italian Crystallographic Association (AIC)), University of Piemonte Orientale - Vercelli (Italy), September 2015.
14. M. Perduca  
"Characterization of a novel endophytic strain of *Burkholderia* sp. associated to hybrid poplar in Finland harboring a peculiar *dbt* gene cluster involved in transformation of polycyclic aromatic hydrocarbons" Chemical and Pharmaceutical Sciences Department, University of Trieste (Italy), May 2013.
15. M. Perduca  
"Evergreen human lipocalin-type prostaglandin d synthase (L-PGDS)" XL National Congress of the Italian Crystallographic Association (AIC), University of Siena (Italy), September 2011.
16. M. Perduca, M. Bovi, S. Capaldi and H.L. Monaco  
"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.

17. M. Perduca

“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

“The protein data bank. Errors and model evaluation.” e “Protein-ligand and protein-protein interactions. Experimental results and docking.” Third international school on biology, computation and information (BCI 2006), Dobbiaco (Italy), September 2006.

20. M. Perduca

“The TTR F64L Italian Mutant. Iodine Effect on Protein Structure.” 5<sup>th</sup> international workshop on structural characterisation of proteins by nmr, x-ray diffraction and computational methods, San Vito di Cadore (Italy), June 2006.

21. M. Perduca, M. Guariento, M. Bovi, S. Capaldi, M.E. Carrizo and H.L. Monaco

“Ligand Binding to Chicken Liver Basic Fatty acid-Binding Protein. An X-ray Crystallography Study” 4<sup>th</sup> international workshop on structural characterisation of proteins by nmr, x-ray diffraction and computational methods, San Vito di Cadore (Italy), May 2004.

22. M. Perduca

“Introduzione alla biocristallografia” NMR Laboratory, ICM, Milano (Italy), June 1998.

## **Proceedings or Conference Papers**

1. Donini M., Pettinella F., Zanella G., Gaglio S. C., Laudanna C., Jimenez-Carretero M., Jimenez-Lopez C., Perduca M., Dusi S., (2024) Effects of Magnetic Nanoparticles on the Functional Activity of Human Monocytes and Dendritic Cells, NALS 2024, 4th International conference on Nanomaterials Applied to Life Sciences, Granada, Spain.

2. Zanella G., Vaglini A., Jimenez-Carretero M., Jimenez-Lopez C., Perduca M., (2024) Superparamagnetic Nanoparticles coupled with silver and copper: growth inhibition of bacterial pathogens, NALS 2024, 4th International conference on Nanomaterials Applied to Life Sciences, Granada, Spain.

3. Gaglio S. C., Donini M., Denbaes P.E., Dusi S., Perduca M., (2024) Avoiding undesired effects in the interaction of nanostructures with immune cells: the Role of Oxyresveratrol, NALS 2024, 4th International conference on Nanomaterials Applied to Life Sciences, Granada, Spain.

4. Perduca M., Bovi M., Destefanis L., Nadali D. Fin L., Carrizo Garcia ME., Monaco HL., (2019) Arundo donax lectin, Fifth Meeting of the Italian (AIC) and Spanish Crystallographic (GE3C) Associations (MISCA V), Napoli.

5. Vurro F., Mannucci S., Prospero D., Perduca M., Jiménez López C., Busato A., Gerosa M., Tambalo S., Marinozzi MR., Boschi F., Malatesta M.; Calderan L., (2019) Hyperthermic nanocarriers for biomedical applications, MCM2019 - 14th Multinational Congress on Microscopy -Belgrade, Serbia.

6. Vurro F.; Mannucci S.; Prospero D.; Perduca M.; Jiménez Lopez C.; Busato A.; Gerosa M.; Tambalo S.; Marinozzi M. R.; Boschi F.; Malatesta M.; Calderan L., (2019) Nano-structures with hyperthermic properties for biomedical applications, 65th Congress of the GEI-Italian Society of Development and Cell Biology and 38th Congress of the

Italian Society of Histochemistry - Ancona (Abstract published on the European Journal of Histochemistry, 63: 34-35. doi.org/10.4081/ejh.2019.3052).

7. Salem K., Perduca M., Sayari A., Hmida-Sayari A., (2019) Overexpression of a *Bacillus subtilis* amylase in *E. coli* and application in bread making, Second Mediterranean Congress On Biotechnology Mcb 2 – Hammamet, Tunisia.
8. Hmida-Sayari A., Elgharbi F., Salem K., Perduca M., (2019) Structure/function/properties relationships and application of a GH11 xylanase, Second Mediterranean Congress On Biotechnology Mcb 2 – Hammamet, Tunisia.
9. Salem K., Perduca M., Elgharbi F., Sayari A., Hmida-Sayari A., (2018) Biochemical and molecular characterization of a recombinant  $\alpha$ -amylase from *Bacillus subtilis*, The 17th International Days of Biotechnology (IDB/JIB 2018) - Sousse, Tunisia.
10. Negri S., Commisso M., Merlin M., Gecchele E., Zeonin S., Perduca M., Avesani L., Guzzo F. (2018). Plant tryptamine and serotonin: in search of their biological role in the fruit, In Società Botanica Italiana 113° Congresso - V International Plant Science Conference (IPSC) - Fisciano (SA).
11. Ballottari M., Cherubin A., De Stefanis L., Bovi M., Bargigia I., D'Andrea C., Perduca M. (2018). Light dependent redox catalysis by Photosystem I complexes encapsulated in organic nanoparticles, In PROTEINE 2018 - Verona.
12. Perduca M., Nicolis S., Mannucci B., Galliano M., Monaco H.L. (2018) Can we obtain new information from old protein crystals? The plasma retinol-binding protein case, 3rd Joint AIC-SILS Conference - Rome.
13. Glorani G., Bovi M, González M.C., Perduca M., Monaco H.L. (2017). Purification and structural studies of a *Tremella fuciformis* mushroom lectin, In XLVI National Congress of the Italian Crystallographic Association (AIC) - Perugia.
14. González M.C., Capaldi S., Glorani G., Bovi M., Perduca M. Monaco H.L. (2017). Structural and biophysical studies on the lectin domain of GalNAc-T6 for therapeutic applications, In XLVI National Congress of the Italian Crystallographic Association (AIC) - Perugia.
15. M. Perduca, H.L. Monaco, S. Nicolis, M. Galliano (2016) Human plasma retinol-binding protein can physiologically be bound to palmitic acid; new information from old crystals, In IV Meeting of the Italian and Spanish Crystallographic Associations, hotel Sol Costa Atlantis Tenerife, Puerto de la Cruz, Tenerife, Spain.
16. M.C González, S. Capaldi, M.E. Carrizo, L. Destefanis, M. Bovi, M. Perduca, H.L. Monaco (2016) Structural studies of human acidic fibroblast growth factor mutants to be used in anticancer therapy, In IV Meeting of the Italian and Spanish Crystallographic Associations, hotel Sol Costa Atlantis Tenerife, Puerto de la Cruz, Tenerife, Spain.
17. G. Glorani, M. Bovi, M.C González, M. Perduca, H.L. Monaco (2016) Purification and structural studies of a *Tremella fuciformis* mushroom lectin, In IV Meeting of the Italian and Spanish Crystallographic Associations, hotel Sol Costa Atlantis Tenerife, Puerto de la Cruz, Tenerife, Spain.
18. M. Perduca, M. Bovi, L. Destefanis, M. Bonaconsa, M.E. Carrizo, H.L. Monaco (2015). Unraveling the antitumoral properties of *Arundo donax* lectin, In XLIV National Congress of the Italian Crystallographic Association (AIC) - Vercelli.
19. M.C González, S. Capaldi, M.E Carrizo, L. Destefanis, M. Bovi, M. Perduca, H.L. Monaco (2015). Structural studies of human acidic fibroblast-growth factor (FGF1) mutants with a probable anticancer activity, In XLIV National Congress of the Italian Crystallographic Association (AIC) - Vercelli.
20. S. Capaldi, B. Faggion, M.E. Carrizo, L. Destefanis, M.C. González, M. Perduca, M. Bovi, M. Galliano, H.L. Monaco (2015). Three-dimensional structure and ligand-binding site of carp Fishlectin (FEL), In XLIV National Congress of the Italian Crystallographic Association (AIC) - Vercelli.

21. M.C. González, S. Capaldi, M. Perduca, B. Faggion, M.E. Carrizo, M. Bovi, L. Destefanis H.L. Monaco (2014). Crystallographic studies on carp Fischelectin (FEL), In: 2<sup>nd</sup> joint AIC-SILS conference – Firenze.
22. L. Destefanis, M. Bovi, M. Perduca, H.L. Monaco (2014). Structural studies of POL (Pleurotus ostreatus Lectin), a fungal lectin of medical interest, In: 2<sup>nd</sup> joint AIC-SILS conference – Firenze.
23. M. Bovi, M. Perduca, M. Bertinelli, E. Bertini, L. Destefanis, M.E. Carrizo, S. Capaldi, H.L. Monaco (2014). High resolution structures of mutants of residues that affect access to the ligand-binding cavity of human lipocalin-type prostaglandin D Synthase, In: 2<sup>nd</sup> joint AIC-SILS conference – Firenze.
24. E. Darra, M. Bovi, M. Perduca, F. Vivian, A. Romeo, H.L. Monaco, S. Mariotto (2013). Inclusion of  $\alpha$ -bisabolol into PLGA nanoparticles enhances its pro-apoptotic activity in human tumoral pancreatic cells, In: NANOTECHITALY 2013 – Venezia.
25. L. Cenci, M. Bovi, L. Destefanis, N. Mazzucco, M. Perduca, H.L. Monaco, P. Riello (2013). Preparation and characterization of silica nanoparticles conjugated with a protein that specifically recognizes human cancer cells, In: NANOTECHITALY 2013 – Venezia.
26. L. Marongiu, M. Bovi, M. Donini, M. Perduca, F. Vivian, A. Romeo, H.L. Monaco, S. Dusi (2013). Inclusion into PLGA nanoparticles greatly improves the effectiveness of  $\alpha$ -bisabolol to inhibit human Dendritic Cell pro-inflammatory activity, In: NANOTECHITALY 2013 – Venezia.
27. N. Mazzucco, R. Marin, M. Bovi, M. Perduca, A. Benedetti, P. Riello (2013). Stealth silica nanoparticles for theranostic applications, In: NanoMedicine School - Trieste.
28. M. Bovi, L. Cenci, M. Perduca, S. Capaldi, M.E. Carrizo, L. Civiero, L.R. Chiarelli, M. Galliano, H.L. Monaco (2012). BEL  $\beta$ -TREFOIL. A NOVEL LECTIN WITH ANTITUMORAL PROPERTIES IN KING BOLETE (BOLETUS EDULIS) MUSHROOMS, In: XLI Congresso della Associazione Italiana di Cristallografia (AIC) - Verona.
29. M. Perduca, M. Bovi, S. Capaldi, H.L. Monaco (2011). Structural characterization and interaction studies of human lipocalin-type prostaglandin D synthase (L-PGDS), In: XL National Congress of the Italian Crystallographic Association (AIC) - Siena.
30. M. Perduca; M. Bovi; S. Capaldi; H.L. Monaco (2011). Structural characterization and interaction studies of human lipocalin-type prostaglandin D synthase (L-PGDS), In: IXth European Symposium of The Protein Society - Stockholm.
31. M. Perduca; M. Bovi; S. Capaldi; H.L. Monaco (2010). Structural characterization and interaction studies of human lipocalin-type prostaglandin D synthase (L-PGDS), In: 12th Naples Workshop on Bioactive Peptides - Naples.
32. L. Civiero, S. Capaldi, M. Perduca, H.L. Monaco. (2009). Expression, purification and crystallization attempts of Human Bile Acid-CoA:Amino acid N-Acyltransferase (BAAT), In: 5th European Crystallographic meeting - Istanbul.
33. M. Perduca, M. Bovi, S. Capaldi, H.L. Monaco (2009). STRUCTURAL CHARACTERIZATION OF HUMAN LIPOCALIN-TYPE PROSTAGLANDIN D SYNTHASE (L-PGDS), In: Meeting FIRB 2009 - Verona.
34. L. Civiero; S. Capaldi; M. Perduca; H.L. Monaco (2008). Expression, purification and crystallization attempts of Human Bile Acid-CoA:Amino acid N-Acyltransferase (BAAT), In: 9th INTERNATIONAL SCHOOL ON THE CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES - Como.
35. M. Bovi, M. E. Carrizo, S. Capaldi, M. Perduca, H.L. Monaco (2007). STRUCTURAL STUDIES OF ANTINEOPLASTIC LECTINS IN EDIBLE MUSHROOMS, In: 1st Meeting of the Italian and Spanish Crystallographic Associations (MISCA) - Copanello di Staletti (Italy).
36. G. Saccomani, S. Capaldi, M. Perduca, H.L. Monaco (2007). Structural characterization of two bile acid-binding proteins in zebrafish (Danio rerio), In: 1st Meeting

of the Italian and Spanish Crystallographic Associations (MISCA) - Copanello di Staletti (Italy).

37. M. Ferrarini, M. Perduca, G.M. Fabrizi, N. Rizzuto, H.L. Monaco (2006). Three-dimensional Structure of the Transthyretin (TTR) Phe64Leu Variant, JOURNAL OF THE PERIPHERAL NERVOUS SYSTEM, In: 10TH MEETING OF THE ITALIAN PERIPHERAL NERVE STUDY GROUP - Verona (Italy).
38. M. Bovi, M.E. Carrizo, S. Capaldi, M. Perduca, E. Ambrosi, H.L. Monaco (2006). Structural Studies of Antineoplastic Lectins in Edible Mushrooms, In: VIII INTERNATIONAL SCHOOL ON THE CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES - Como (Italy).
39. M. Perduca, M. Ferrarini, G.M. Fabrizi, N. Rizzuto, H.L. Monaco (2006). The TTR Italian Mutant: Iodine Effect on Protein Structure, In: VIII INTERNATIONAL SCHOOL ON THE CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES - Como (Italy).
40. M.E. Carrizo, M. Bovi, S. Capaldi, M. Perduca, H.L. Monaco (2005). Purification and characterization of a new lectin from the edible mushroom *Boletus edulis* with antiproliferative effect on tumor cell lines, In: SAIB, XLI Annual Meeting - X PABMB Congress - Pinamar, Buenos Aires Argentina
41. M.E. Carrizo, M. Bovi, S. Capaldi, M. Perduca, H.L. Monaco (2005). Purification and Characterization of a New Lectin From the Edible Mushroom *Boletus edulis* with Antiproliferative Effect on Tumor Cell Lines, In: X CONGRESS OF THE PANAMERICAN ASSOCIATION FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY (PABMB) - Pinamar, Buenos Aires (Argentina).
42. M. Belén Decca, M. Perduca, H.L. Monaco, G. G. Montich (2005). Influencia del Estado de Fase del Lipido Sobre la Interaccion de la Proteina Periferica L-BABP con Membranas Anionicas, In: XXXIV REUNION ANUAL SOCIEDAD ARGENTINA DE BIOFISICA - Cordoba.
43. Amoresano, A. Carpentieri, M. Perduca, M. Galliano, L. Minchiotti, H.L. Monaco (2005). Glycosilation in Goat Folate Binding Protein Probed by Mass Spectrometric Approach, In: XVIII INTERNATIONAL SYMPOSIUM ON GLYCOCONJUGATES - Firenze.
44. M.E. Carrizo, S. Capaldi, M. Perduca, F. Irazoqui, G. Nores, H.L. Monaco (2004). Crystal structure and ligand selectivity of the antineoplastic lectin from the common edible mushroom (*Agaricus bisporus*), In: XL Annual Meeting ARGENTINE SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY - Iguazú, Misiones, Argentina
45. M.E. Carrizo, S. Capaldi, M. Perduca, F.J. Irazoqui, G. Nores, H.L. Monaco (2004). Crystal structure and ligand selectivity of The antineoplastic lectin From the common edible mushroom (*Agaricus bisporus*), In: XL NATIONAL MEETING OF THE ARGENTINE SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY (SAIB) - Sheraton Hotel, Iguazú / Misiones.
46. S. Capaldi, M.E. Carrizo, M. Perduca, B. Faggion, M. Catalano, A. Tava, H.L. Monaco (2004). Anticarcinogenic Bowman Birk Inhibitor from Snail Medic Seeds (*Medicago scutellata*): The 2.0 Å Crystal Structure of the Tertiary Complex with Bovine Trypsin, In: 4th INTERNATIONAL WORKSHOP ON STRUCTURAL CHARACTERISATION OF PROTEINS BY NMR, X-RAY DIFFRACTION AND COMPUTATIONAL METHODS - San Vito di Cadore.
47. M.E. Carrizo, S. Capaldi, M. Perduca, B. Faggion, F.J. Irazoqui, G.A. Nores, H.L. Monaco (2004). Crystal Structure of the Common Edible Mushroom (*Agaricus bisporus*) Lectin and of its Complex with the Tumour Associated T-antigen Disaccharide, In: 4th INTERNATIONAL WORKSHOP ON STRUCTURAL CHARACTERISATION OF PROTEINS BY NMR, X-RAY DIFFRACTION AND COMPUTATIONAL METHODS - San Vito di Cadore.
48. M. Perduca, M. Guariento, M. Bovi, S. Capaldi, M.E. Carrizo, H.L. Monaco (2004).

Ligand Binding to Chicken Liver Basic Fatty acid-Binding Protein. An X-ray Crystallography Study, In: 4th INTERNATIONAL WORKSHOP ON STRUCTURAL CHARACTERISATION OF PROTEINS BY NMR, X-RAY DIFFRACTION AND COMPUTATIONAL METHODS - San Vito di Cadore.

49. G.G. Montich, V. Nolan, M. Perduca, H.L. Monaco, M.A. Villarreal (2003). Molecular Dynamics Simulations of Liver Basic Fatty Acid-Binding Protein (Lb-FABP) in Lipid Membranes, In: BARILOCHE PROTEIN SYMPOSIUM, XXXIX ANNUAL MEETING OF THE ARGENTINE SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY RESEARCH - San Carlos de Bariloche (Argentina).
50. V. Nolan, M. Perduca, H.L. Monaco, G.G. Montich (2003). pH-induced Conformational Changes of Liver Basic Fatty Acid-Binding Protein (Lb-FABP) in Lipid Membranes, In: BARILOCHE PROTEIN SYMPOSIUM, XXXIX ANNUAL MEETING OF THE ARGENTINE SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY RESEARCH - San Carlos de Bariloche (Argentina).
51. S. Capaldi, B. Faggion, M.E. Carrizo, M. Perduca, H.L. Monaco (2003). Crystallographic Studies on Carp Fischelectin (FEL), In: VII INTERNATIONAL SCHOOL ON THE CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES - Como (Italy).
52. M. Perduca, D. Nicesola, S. Capaldi, M.E. Carrizo, P.G. Righetti, H.L. Monaco (2003). Crystal Structure of Chicken Liver Basic Fatty Acid-Binding Protein complexed with cholic acid, In: VII INTERNATIONAL SCHOOL ON THE CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES - Como (Italy).
53. M. Galliano, M. Campagnoli, A. Sala, L. Visai, A. Amoresano, A. Casbarra, M. Cauci, M. Perduca, H.L. Monaco, P. Pucci (2003). A New Type of Lectin That Binds to Bacterial Cells Identified in Bony Fish Eggs, In: FIFTH EUROPEAN SYMPOSIUM OF THE PROTEIN SOCIETY - Florence (Italy).
54. T. Beringhelli, S. Capaldi, A. Sportiello, E. Fontana, M. Perduca, H.L. Monaco (2001). NMR Studies of the Dynamic of Palmitic Acid Complexed with Chicken Liver Basic Fatty Acid-Binding Protein and Bovine beta-Lactoglobulin, In: XXXI CONGRESSO NAZIONALE RISONANZE MAGNETICHE - Parma (Italy).
55. P.G. Righetti, S. Magnusdottir, C. Gelfi, M. Perduca (2001). The behaviour of inorganic and organic cations in the Debye-Hückel layer of DNA, In: ICES 2001 - Verona (Italy).
56. P.G. Righetti, S. Magnusdottir, C. Gelfi, M. Perduca (2001). The behaviour of inorganic and organic cations in the Debye-Hückel layer of DNA, In: 24th INTERNATIONAL SYMPOSIUM ON CAPILLARY CHROMATOGRAPHY & ELECTROPHORESIS - Las Vegas, Nevada (USA).
57. M. Perduca, F. Mancina, H.L. Monaco (2001). Crystal structure of a truncated form of porcine odorant-binding protein, In: VI EUROPEAN WORKSHOP ON CRYSTALLOGRAPHY - Cernobbio (Italy).
58. Casbarra, M.C. Monti, A. Amoresano, M. Perduca, H.L. Monaco, P. Pucci (2001). Chicken Liver (Basic) Fatty Acid-Binding Protein and its Complexes with Lipophilic Ligands, In: FOURTH EUROPEAN SYMPOSIUM OF THE PROTEIN SOCIETY - Paris (France).
59. P.G. Righetti, S. Magnusdottir, C. Gelfi, M. Perduca (2001). The behaviour of inorganic and organic cations in the Debye-Hückel layer of DNA, In: HPCE-2001 - Boston Massachusetts (USA).
60. Nolan, M. Perduca, H.L. Monaco, G.G. Montich, B. Maggio (2000). Interaction of Chicken Liver Fatty Acid-Binding Protein (ChLFABP) with Lipid Membranes, In: IV CONGRESSO DE BIOFÍSICA DEL CONO SUR - Campinas (Brasil).
61. T. Beringhelli, L. Goldoni, M. Perduca, H.L. Monaco (2000). Studi 13C NMR dell'Interazione tra Acido Palmitico e la Proteina che Lega Acidi Grassi Estratta da Fegato

di Pollo con  $pI=9$ , In: XX CONGRESSO DELLA SOCIETÀ CHIMICA ITALIANA - Rimini (Italy).

62. M. Perduca, A. Bossi, L. Goldoni, H.L. Monaco, P.G. Righetti (2000). Crystallization of Chicken Liver (Basic) Fatty Acid-Binding Protein after Purification in Multicompartment Electrolyzers with Isoelectric Membranes, - Varese (Italy).

63. Casbarra, A. Amoresano, M. Perduca, P. Pucci (2000). Analyses of Fatty Acid Binding Protein from Gallus Domesticus and its complexes, In: PROTEINE 2000 In: PROTEINE 2000 - Varese (Italy).

64. T. Beringhelli, V. Delia, M. Freni, H.L. Monaco, M. Perduca, L. Ragona, L. Zetta, H. Molinari (1999). NMR Studies on the Binding Properties of Bovine beta-Lactoglobuline with Palmitic Acid on Varying the pH, In: XXX CONGRESSO NAZIONALE DI RISONANZE MAGNETICHE - Cortona (Italy).

65. M. Perduca, A. Zenti, M. Galliano, L. Minchiotti, M. Campagnoli, A. Amoresano, P. Pucci, A. Coda, H.L. Monaco (1999). Structural Characterization of Goat milk folate-binding protein, In: PROTEINE 99 - Rome (Italy).

66. M. Perduca, A. Zenti, A. Coda, H.L. Monaco (1999). A new crystal form of Chicken liver basic ( $pI$  9.0) fatty acid-binding protein, In: V EUROPEAN WORKSHOP ON CRYSTALLOGRAPHY - Como (Italy).

67. C. Gelfi, D. Mauri, M. Perduca, N. Stellwagen, P.G. Righetti (1998). Capillary zone electrophoresis of ds-dna in isoelectric buffers: effect of addition of competing, non-amphoteric ions, In: ITP 98 - Venice (Italy).

68. Amoresano, M. Perduca, H.L. Monaco, G. Marino (1998). The carbohydrate structure of three avian riboflavin-binding proteins, In: PROTEINE 98 - Genoa (Italy).

69. F. Fogolari, L. Ragona, L. Zetta, S. Romagnoli, M. Perduca, H. Molinari (1998). Monomeric bovine beta-lactoglobuline adopts a beta-barrel fold at  $pH2$ , In: PROTEINE 98 - Genoa (Italy).

70. M. Perduca, A. Zenti, A. Coda, H.L. Monaco (1998). A new crystal form of Chicken liver basic ( $pI$  9.0) fatty acid-binding protein, In: PROTEINE 98 - Genoa (Italy).

71. A.M. Bianucci, M. Tonelli, B. Bo, M. Perduca, E. De Lorenzi, G. Caccialanza, F. Mancina, H. Monaco (1992). A Model for Alpha1-Acid GlycoProtein and a Study of its Interaction with Chiral Drugs, In: JANUACHEM - Genoa (Italy).

72. A.M. Bianucci, M. Tonelli, M. Perduca, B. Bo, G. Caccialanza, F. Mancina, H. Monaco (1992). A Model for Alpha1-Acid GlycoProtein, In: PROTEINE 92 - Pavia (Italy).