

# Curriculum Vitae

## Massimiliano Perduca

### **Biocrystallography and Nanostructure Laboratory**

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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

### **Bibliometric indicators (02/10/2019)**

Total number of refereed publications: **42**

Total citations: **638** (Scopus)

Averaged Impact Factor: **3.43**

H-Index: **16** (Scopus)

### **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 have 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.**

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.

### **Teaching activities.**

- ✓ **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 to 2020 - 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 - 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 Agro-industrial Biotechnology** (University of Verona).
- ✓ **General Molecular Biology course and Molecular Biology of Microorganisms (SSD BIO/11) since 2008 - 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 90) 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, Mercedes Maqueda, 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, Mohamrd Es-Seddik Toumi)
- ✓ Thailand: Faculty of Medical technology, Western University, Thailand (Dr. Piyachat Evelyn Roopngam, Prof. Tirawat Wannatung)
- ✓ Tunisia: Laboratoire de Microorganismes et de Biomolécules (LMB) - Centre de Biotechnologie de Sfax (Aïda Hmida-Sayari, Karima Salem, Adel Sayari)
- ✓ 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)

#### **ASSIGNED FUNDINGS**

##### **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).

## PRIZES and AWARDS

1) Fifth price in Veneto Startup Competition with Nanoverse Startup.

## MOLECULES DISCOVERED

1) 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.

2) 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.

3) 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.

## REVIEWER ACTIVITY

Reviewer for the following journals:

- ✓ Pharmaceutics
- ✓ Scientific Reports
- ✓ Algorithms for Molecular Biology
- ✓ International Journal of Data Mining and Bioinformatics (IJDMB)
- ✓ Italian Journal of Food Science (IJFS)
- ✓ Journal of Nanoparticle Research (NANO)
- ✓ Water Science and Technology

Reviewer for the following agencies:

- ✓ Ministero dell'Istruzione, dell'Università e della Ricerca MIUR)
- ✓ French National Research Agency (ANR)

## 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. A. 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. DOI: 10.1021/acssuschemeng.9b00738.

2. 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. DOI: 10.1016/j.optmat.2019.05.034.
3. 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. DOI: 10.1016/j.dib.2018.03.112.
4. 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. DOI: 10.1007/s13204-018-0765-1.
5. 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. DOI: 10.1016/j.bbalip.2018.01.010.
6. 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. DOI: 10.3390/ijms18122696.
7. 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. DOI: 10.3892/or.2017.5493
8. 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. DOI: 10.1002/jbm.a.35961
9. 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. DOI: 10.1107/S1399004715004174.
10. 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. DOI: 10.1007/s11051-014-2554-4.
11. 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. DOI: 10.1107/S1399004714012462.
12. 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. DOI: 10.1093/glycob/cws164.
13. 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. DOI: 10.1042/BJ20110257.
14. 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. DOI: 10.1093/glycob/cwr012.
15. 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. DOI: 10.1021/jp104035z.
16. 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. DOI: 10.1016/j.bbrc.2009.03.103.
17. 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. DOI: 10.1016/j.jmb.2008.10.007.
18. 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. DOI: 10.1016/j.bbamem.2008.02.015.
19. 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. DOI: 10.1002/prot.21848.
20. 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. DOI: 10.1074/jbc.M705399200.
21. 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. DOI: 10.1016/j.jsb.2006.10.017.
22. 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. DOI: 10.1016/j.bbamem.2007.03.018.
23. 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. DOI: 10.1002/prot.20961.
24. 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. DOI: 10.1074/jbc.M504304200.
25. 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. DOI: 10.1021/bi050129r.
26. 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. DOI: 10.1074/jbc.M411989200.

27. 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. DOI: 10.1021/bi0489661.
28. 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. DOI: 10.1107/S0907444904001969.
29. 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. DOI: 10.1042/BJ20030413.
30. S.M. Di Pietro, B. Córscico, 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. DOI: 10.1021/bi034213n.
31. 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. DOI: 10.1016/S0005-2736(03)00030-0.
32. 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. DOI: 10.1023/A:1022277727303.
33. 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. DOI: 10.1002/elps.200390099
34. 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. DOI: 10.1021/bi020493f.
35. 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. DOI: 10.1107/S0907444901016018.
36. 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. DOI: 10.1021/bi011009w.
37. 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. DOI: 10.1016/S0021-9673(01)00695-1.
38. M. Perduca, F. Mancina, R. Del Giorgio and H.L. Monaco  
"Crystal structure of a truncated form of porcine odorant-binding protein"  
*Proteins* 2001, **42**, 201-209. DOI: 10.1002/1097-0134(20010201)42:2<201::AID-PROT70>3.0.CO;2-7.
39. 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. DOI: 10.1016/S0378-4347(00)00464-3.
40. 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 multicompartment electrolyzers with isoelectric membranes"

*Electrophoresis* 2000, **21**, 2316-2320. DOI: 10.1002/1522-2683(20000701)21:12<2316::AID-ELPS2316>3.0.CO;2-0.

41. 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. DOI: 10.1046/j.1432-1327.1999.00570.x.

42. 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. DOI:

10.1002/elps.1150191030.

## Oral Contributions

1. M. Perduca

"Protein crystallization and structure solving: classical and novel methods" Master course in Biotechnology, Department of Microbiology, University of Granada (Spain), July 2019

2. 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.

3. 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.

4. 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.

5. 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 (Cile), October 2018.

6. 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.

7. 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.

8. 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.

9. 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.



10. 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.
11. M. Perduca  
 “Structural studies on proteins involved in bile acid transport” A symposium honoring  
 professor Sandro Coda, University of Pavia (Italy), December 2008.
12. M. Perduca  
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