

**PAOLO IADAROLA**

**CURRICULUM VITAE AND LIST OF PUBLICATIONS**

**Name:** Paolo Iadarola

**Date of birth:** May 11, 1947

**Position title:** Adjunct Professor

**Institution and location:** Department of Biology and Biotechnologies, University of Pavia, Italy.

**Degree:** Degree in Chemistry

**Year:** 1972

**Field of study:** Extraction, purification and structural characterization of proteins. Biomarker discovery. Proteomics and Metabolomics. Use of methodologies (1D/2D-E; LC-MS/MS, NMR) for the identification of potential markers of Chronic Obstructive Pulmonary Disease (COPD) and other pulmonary disorders (Covid-19) in biological fluids (urine, plasma, sputum, exhaled breath condensate) of patients.

#### **Positions and employment:**

**1972-1974:** Researcher at the Institute of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Pavia.

**1974-1982:** Assistant Professor at the Chair of Chemical-Pharmaceutical analysis, Faculty of Pharmacy, University of Pavia.

**1982-1985:** Assistant Professor at the Chair of Biochemistry, Faculty of Science, University of Pavia.

**1985-1988:** Associate Professor of Applied Biochemistry at the Faculty of Science, University of Pavia.

**1988-2008:** Confirmed Associate Professor of Biochemical Methodologies, Department of Biochemistry, University of Pavia.

**2008-2017** Confirmed Associate Professor of Methods in Biochemistry (course in English), Department of Biology and Biotechnologies, University of Pavia.

**2017-present** Adjunct Professor of Methods in Biochemistry (course in English), Department of Biology and Biotechnologies, University of Pavia.

#### **Teaching Activity**

**Academic years 1985/86-1991/92:** Lecturer of the class "Biochimica Applicata" for the "Corso di Laurea in Scienze Biologiche" of the University of Pavia.

**Academic years 1992/93-2001/02:** Lecturer of the class “ Metodologia Biochimica” for the “Corso di Laurea in Scienze Biologiche” of the University of Pavia.

**Academic years 2002/03-2008/09:** Lecturer of the class “ Metodologie Biochimiche” for the “Corso di Laurea in Biologia Sperimentale ed Applicata” of the University of Pavia.

**Academic years 2009/10-2019/20:** Lecturer of the class “Methods in Biochemistry” for the “Master’s degree in Molecular Biology and Genetics” of the University of Pavia and of the class “Metodologie Biochimiche” for the “Laurea Specialistica in Scienze Chimiche” of the University of Pavia.

**Academic years 2020/21-present:** Lecturer of the class “Methods in Biochemistry” for the “Master’s degree in Molecular Biology and Genetics” of the University of Pavia.

#### **Other Experience and Professional Membership**

**1980-present:** Member of the Italian Society of Biochemistry.

**1991-2007:** Member of the Administration Council of the University of Pavia.

**1995-2010:** Professor of Chemistry and Propaedeutics Biochemistry, Faculty of Medicine, University of Pavia.

**1995-2011:** Vice-Director of the Department of Biochemistry, University of Pavia.

**1998-2010:** Component of the Advisory Committee of the University of Pavia for the Doctorate in Physiological Sciences.

**1997-2017::** Chief of the Laboratory of Capillary Electrophoresis, Department of Biochemistry, University of Pavia.

**Consultant reviewer** for the following journals: Analytical Biochemistry, Analytical Chemistry, Bioorganic and Medicinal Chemistry Letters, Bioorganic and Medicinal Chemistry Letters, British Journal of Dermatology, Clinical Chemistry and Laboratory Medicine, Electrophoresis, Journal of Chromatography A, Journal of Chromatography B, Journal of Separation Science, Journal of Proteome Research, Proteomics, European Respiratory Journal, Biotech, International Journal Molecular Science, Molecules.

**2006-2009:** Member of the Editorial Board of Electrophoresis.

**2019 :** Guest Editor of the Special Issue “Mass Spectrometric Proteomics”.

**2020-present :** Member of the Editorial Board of Molecules.

**2020-present :** Editor of Biotech.

**Adviser** for International Foundation Science (IFS) Research Grant Applications.

**Invited lectures:**

**October 1995:** Diagnosis of prolidase deficiency by capillary zone electrophoresis.

*The 6<sup>th</sup> annual Frederick Conference on Capillary Electrophoresis.* Frederick, Maryland, U.S.A.

**October 1996:** Monitoring prolidase activity in control and prolidase deficient cultured skin fibroblasts by CZE.

*The 7<sup>th</sup> annual Frederick Conference on Capillary Electrophoresis.* Frederick, Maryland, U.S.A.

**October 1997:** Determination of desmosine (DES) and isodesmosine (IDES) by micellar electrokinetic chromatography (MEKC) in urine of patients with chronic obstructive pulmonary disease (COPD).

*The 8<sup>th</sup> annual Frederick Conference on Capillary Electrophoresis.* Frederick, Maryland, U.S.A.

**June 1999:** Use of capillary electrophoresis (CE) techniques for determining enzyme activity in biological fluids.

*Interdisciplinary seminars: Insitute for Basic Research in Developmental Disabilities.* Staten Island, New York, U.S.A:

**June 2000:** Capillary electrophoresis for assessing interaction among different proteinases.

*COPD 2000.* Birmingham, UK.

**October 2000:** Lysosomal pepstatine-insensitive protease detected using capillary electrophoresis.

*Interdisciplinary seminars: Insitute for Basic Research in Developmental Disabilities.* Staten Island, New York, U.S.A:

**July 2001:** Markers of elastin degradation in human urine.

*Interdisciplinary seminars: Institute of General and Environmental Hygiene.* University of Tuebingen, Germany.

**June 2003:** Intracellular delivery of liposome-encapsulated prolidase in cultured fibroblasts from prolidase-deficient patients.

*International Conference of Enzyme Technology "Relatenz 2003".* Varadero Cuba.

**September 2005:** Preclinical application of liposomes for intracellular delivery of prolidase in the therapy of prolidase deficiency.

*International Conference of Enzyme Technology "Relatenz 2005".* Varadero, Cuba.

**December 2005:** Identification of a protein expression profile for COPD by Esi-Q-ToF mass spectrometry.

*2005 Congress Expanding Proteomics. Zurich, Switzerland.*

**August 2010:** 2-D Gel-based Proteome Profiling of Proteins Expressed in Cultured 46BR.1G1 Cells Established from a Patient Affected by DNA Ligase I Deficiency Syndrome: A Pilot Study

*The 17th International Symposium on Capillary Electroseparation Techniques, Baltimore, Maryland, USA.*

**September 2016:** ITP-2016; Minneapolis, Minnesota. USA

## List of Publications:

1. Rubbino F, Garlatti V, Garzarelli V, Massimino L, Spanò S, Iadarola P, Cagnone M, Giera M, Heijink M, Guglielmetti S, Arena V, Malesci A, Laghi L, Danese S, Vetrano S. GPR120 prevents colorectal adenocarcinoma progression by sustaining the mucosal barrier integrity. *Sci Rep.* 2022;12(1):381.
2. De Palma A, Agresta AM, Viglio S, Rossi R, D'Amato M, Di Silvestre D, Mauri P, Iadarola P. A Shotgun Proteomic Platform for a Global Mapping of Lymphoblastoid Cells to Gain Insight into Nasu-Hakola Disease. *Int J Mol Sci.* 2021;22(18):9959.
3. Viglio S, Bak EG, Schouten IGM, Iadarola P, Stolk J. Protease-Specific Biomarkers to Analyse Protease Inhibitors for Emphysema Associated with Alpha 1-Antitrypsin Deficiency. An Overview of Current Approaches. *Int J Mol Sci.* 2021;22(3):1065.
4. Viglio S, Iadarola P, D'Amato M, Stolk J. Methods of Purification and Application Procedures of Alpha1 Antitrypsin: A Long-Lasting History. *Molecules.* 2020 Sep 2;25(17):4014.
5. Murtas S, Aquilani R, Iadarola P, Deiana ML, Secci R, Cadeddu M, Bolasco P. Differences and Effects of Metabolic Fate of Individual Amino Acid Loss in High-Efficiency Hemodialysis and Hemodiafiltration. *J Ren Nutr.* 2020 Sep;30(5):440-451.
6. Fumagalli M, Gerace D, Faè M, Iadarola P, Leelavathi S, Reddy VS, Cella R. Molecular, biochemical, and proteomic analyses of transplastomic tobacco plants expressing an endoglucanase support chloroplast-based molecular farming for industrial scale production of enzymes. *Appl Microbiol Biotechnol.* 2019 Dec;103(23-24):9479-9491.
7. Iadarola P. Special Issue: Mass Spectrometric Proteomics. *Molecules.* 2019 21;24(6):1133.
8. Cagnone M, Piloni D, Ferrarotti I, Di Venere M, Viglio S, Magni S, Bardoni A, Salvini R, Fumagalli M, Iadarola P, Martinello S, Meloni F. A Pilot Study to Investigate the Balance between Proteases and  $\alpha$ 1-Antitrypsin in Bronchoalveolar Lavage Fluid of Lung Transplant Recipients. *High Throughput.* 2019 13; 8 (1).
9. Murtas S, Aquilani R, Deiana ML, Iadarola P, Secci R, Cadeddu M, Salis S, Serpi D, Bolasco P. Differences in Amino Acid Loss Between High-Efficiency Hemodialysis and Postdilution and Predilution Hemodiafiltration Using High Convection Volume Exchange-A New Metabolic Scenario? A Pilot Study. *J Ren Nutr.* 2019 ;29 (2):126-135.
10. Cagnone M, Salvini R, Bardoni A, Fumagalli M, Iadarola P, Viglio S. Searching for biomarkers of chronic obstructive pulmonary disease using proteomics: The current state. *Electrophoresis.* 2019; 40 (1):151-164.

11. Cagnone M, Bardoni A, Iadarola P, Viglio S. Could Proteomics Become a Future Useful Tool to Shed Light on the Mechanisms of Rare Neurodegenerative Disorders? *High Throughput*. 2018; 7 (1).
12. Di Venere M, Viglio S, Cagnone M, Bardoni A, Salvini R, Iadarola P. Advances in the analysis of "less-conventional" human body fluids: An overview of the CE- and HPLC-MS applications in the years 2015-2017. *Electrophoresis*. 2018; 39 (1):160-178.
13. Aquilani R, Zuccarelli GC, Condino AM, Catani M, Rutili C, Del Vecchio C, Pisano P, Verri M, Iadarola P, Viglio S, Boschi F. Despite Inflammation, Supplemented Essential Amino Acids May Improve Circulating Levels of Albumin and Haemoglobin in Patients after Hip Fractures. *Nutrients*. 2017 ;9 (6).
14. Iadarola P, Viglio S. Spit it out! How could the sputum proteome aid clinical research into pulmonary diseases? *Expert Rev Proteomics*. 2017; 14(5):391-393.
15. Ciaramelli C, Fumagalli M, Viglio S, Bardoni AM, Piloni D, Meloni F, Iadarola P, Airoidi C. (1)H NMR To Evaluate the Metabolome of Bronchoalveolar Lavage Fluid (BALF) in Bronchiolitis Obliterans Syndrome (BOS): Toward the Development of a New Approach for Biomarker Identification. *J Proteome Res*. 2017 Mar 14.
16. Di Venere M, Viglio S, Sassera D, Fumagalli M, Bardoni A, Salvini R, Cagnone M, Iadarola P. Do the complementarities of electrokinetic and chromatographic procedures represent the "Swiss knife" in proteomic investigation? An overview of the literature in the past decade. *Electrophoresis*. 2017, 38 (12); 1538-1550.
17. Matamala N, Aggarwal N, Iadarola P, Fumagalli M, Gomez-Mariano G, Lara B, Martinez MT, Cuesta I, Stolk J, Janciauskiene S, Martinez-Delgado B. Identification of Novel Short C-Terminal Transcripts of Human SERPINA1 Gene. *PLoS One*. 2017 20;12(1): e0170533
18. Ferrarotti I, Corsico AG, Stolk J, Ottaviani S, Fumagalli M, Janciauskiene S, Iadarola P. Advances in Identifying Urine/Serum Biomarkers in Alpha-1 Antitrypsin Deficiency for More Personalized Future Treatment Strategies. *COPD*. 2017;14(1):56-65.
19. Airoidi C, Ciaramelli C, Fumagalli M, Bussei R, Mazzoni V, Viglio S, Iadarola P, Stolk J. (1)H NMR To Explore the Metabolome of Exhaled Breath Condensate in  $\alpha(1)$ -Antitrypsin Deficient Patients: A Pilot Study. *J Proteome Res*. 2016;15(12):4569-4578.

20. Baldissarro E, Aquilani R, Boschi F, Baiardi P, Iadarola P, Fumagalli M, Pasini E, Verri M, Dossena M, Gambino A, Cammisuli S, Viglio S. The Hip Functional Retrieval after Elective Surgery May Be Enhanced by Supplemented Essential Amino Acids. *Biomed Res Int*. 2016; 2016:9318329.
21. Agresta AM, De Palma A, Bardoni A, Salvini R, Iadarola P, Mauri PL. Proteomics as an innovative tool to investigate frontotemporal disorders. *Proteomics Clin Appl*. 2016 ;10(4):457-69.
22. Aquilani R, Emilio B, Dossena M, Baiardi P, Testa A, Boschi F, Viglio S, Iadarola P, Pasini E, Verri M. Correlation of deglutition in subacute ischemic stroke patients with peripheral blood adaptive immunity: Essential amino acid improvement. *Int J Immunopathol Pharmacol*. 2015; 28(4):576-83.
23. Iadarola P, Fumagalli M, Bardoni AM, Salvini R, Viglio S. Recent applications of CE- and HPLC-MS in the analysis of human fluids. *Electrophoresis*. 2016 ;37(1):212-30.
24. Di Venere M, Fumagalli M, Cafiso A, De Marco L, Epis S, Plantard O, Bardoni A, Salvini R, Viglio S, Bazzocchi C, Iadarola P, Sasseria D. *Ixodes ricinus* and Its Endosymbiont *Mitochondria*: A Comparative Proteomic Analysis of Salivary Glands and Ovaries. *PLoS One*. 2015;10(9): e0138842.
25. Baraniuk JN, Casado B, Pannell LK, McGarvey PB, Boschetto P, Luisetti M, Iadarola P. Protein networks in induced sputum from smokers and COPD patients. *Int J Chron Obstruct Pulmon Dis*. 2015; 10:1957-75
26. Scoffone VC, Ryabova O, Makarov V, Iadarola P, Fumagalli M, Fondi M, Fani R, De Rossi E, Riccardi G, Buroni S. Efflux-mediated resistance to a benzothiadiazole derivative effective against *Burkholderia cenocepacia*. *Front Microbiol*. 2015; 6: 815-821.
27. Stolk J, Fumagalli M, Viglio S, Iadarola P. Conductivity in Exhaled Breath Condensate from Subjects with Emphysema and Type ZZ alpha-1-Antitrypsin Deficiency. *COPD*. 2015;12 Suppl 1:32-5.

28. Giuliano S, Agresta AM, De Palma A, Viglio S, Mauri P, Fumagalli M, Iadarola P, Montalbetti L, Salvini R, Bardoni A. Proteomic analysis of lymphoblastoid cells from Nasu-Hakola patients: a step forward in our understanding of this neurodegenerative disorder. *PLoS One*. 2014; 9(12): e110073.
29. Aquilani R, Boselli M, D'Antona G, Baiardi P, Boschi F, Viglio S, Iadarola P, Pasini E, Barbieri A, Dossena M, Bongiorno AI, Verri M. Unaffected arm muscle hypercatabolism in dysphagic subacute stroke patients: the effects of essential amino acid supplementation. *Biomed Res Int*. 2014; 2014:964365.
30. Aquilani R, D'Antona G, Baiardi P, Gambino A, Iadarola P, Viglio S, Pasini E, Verri M, Barbieri A, Boschi F. Essential amino acids and exercise tolerance in elderly muscle-depleted subjects with chronic diseases: a rehabilitation without rehabilitation? *Biomed Res Int*. 2014; 2014:341603.
31. Aquilani R, Boselli M, Paola B, Pasini E, Iadarola P, Verri M, Viglio S, Condino A, Boschi F. Is stroke rehabilitation a metabolic problem? *Brain Inj*. 2014;28(2):161-73.
32. Viglio S, Stolk J, Iadarola P, Giuliano S, Luisetti M, Salvini R, Fumagalli M, Bardoni A. Respiratory Proteomics Today: Are Technological Advances for the Identification of Biomarker Signatures Catching up with Their Promise? A Critical Review of the Literature in the Decade 2004-2013. *Proteomes*. 2014; 2(1):18-52.
33. Viglio S, Stolk J, Luisetti M, Ferrari F, Piccinini P, Iadarola P. From micellar electrokinetic chromatography to liquid chromatography-mass spectrometry: Revisiting the way of analyzing human fluids for the search of desmosines, putative biomarkers of chronic obstructive pulmonary disease. *Electrophoresis*. 2014; 35(1):109-18.
34. Aquilani R, La Rovere MT, Baiardi P, Febo O, Boschi F, Condino AM, Pastoris O, Iadarola P, Viglio S, Pasini E, Bongiorno AI, Dossena M, Verri M. Myofibrillar protein over degradation in overweight patients with chronic heart failure: The relationship to serum potassium levels. *Nutrition*. 2013, 10, 541-549.
35. Condino AM, Aquilani R, Pasini E, Iadarola P, Viglio S, Verri M, D'Agostino L, Boschi F. Plasma kinetic of ingested essential amino acids in healthy elderly people. *Aging Clin Exp Res*. 2013; 25(6):711-4.

36. Iadarola P, Luisetti M. The role of desmosines as biomarkers for chronic obstructive pulmonary disease. *Expert Rev Respir Med.* 2013;7(2):137-44.
37. Fumagalli M, Ferrari F, Luisetti M, Stolk J, Hiemstra PS, Capuano D, Viglio S, Fregonese L, Cerveri I, Corana F, Tinelli C, Iadarola P. Profiling the Proteome of Exhaled Breath Condensate in Healthy Smokers, and COPD Patients by LC-MS/MS. *Int J Mol Sci.* 2012;13(11):13894-910.
38. Ferrari F, Fumagalli M, Piccinini P, Stolk J, Luisetti M, Viglio S, Tinelli C, Iadarola P. Micellar electrokinetic chromatography with laser induced detection and liquid chromatography tandem mass-spectrometry-based desmosine assays in urine of patients with Chronic Obstructive Pulmonary Disease: a comparative analysis. *J Chromatogr A.* 2012; 1266:103-9.
39. Aquilani R, La Rovere MT, Febo O, Baiardi P, Boschi F, Iadarola P, Viglio S, Dossena M, Bongiorno AI, Pastoris O, Verri M. Lung anabolic activity in patients with chronic heart failure: potential implications for clinical practice. *Nutrition.* 2012; 28(10): 1002-7.
40. Luisetti M, Stolk J, Iadarola P. Desmosine, a biomarker for COPD: old and in the way. *Eur Respir J.* 2012; 39(4):797-8.
41. Boselli M, Aquilani R, Baiardi P, Dioguardi FS, Guarnaschelli C, Achilli MP, Arrigoni N, Iadarola P, Verri M, Viglio S, Barbieri A, Boschi F. Supplementation of essential amino acids may reduce the occurrence of infections in rehabilitation patients with brain injury. *Nutr Clin Pract.* 2012; 27(1):99-113.
42. Giuliano S, Iadarola P, Leva V, Montecucco A, Camerini S, Crescenzi M, Salvini R, Bardoni A. An insight into the abundant proteome of 46BR.1G1 fibroblasts deficient of DNA ligase I. *Electrophoresis.* 2012;33(2):307-15.
43. Viglio S, Fumagalli M, Ferrari F, Bardoni A, Salvini R, Giuliano S, Iadarola P. Recent novel MEKC applications to analyze free amino acids in different biomatrices: 2009-2010. *Electrophoresis.* 2012;33(1):36-47.

44. Fregonese L, Ferrari F, Fumagalli M, Luisetti M, Stolk J, Iadarola P. Long-term variability of desmosine/isodesmosine as biomarker in alpha-1-antitrypsin deficiency-related COPD. *COPD*. 2011; 8(5):329-33.
45. Rondanelli M, Opizzi A, Antonello N, Boschi F, Iadarola P, Pasini E, Aquilani R, Dioguardi FS. Effect of essential amino acid supplementation on quality of life, amino acid profile and strength in institutionalized elderly patients. *Clin Nutr*. 2011; 30(5):571-7.
46. Aquilani R, Sessarego P, Iadarola P, Barbieri A, Boschi F. Nutrition for brain recovery after ischemic stroke: an added value to rehabilitation. *Nutr Clin Pract*. 2011; 26(3):339-45.
47. Aquilani R, La Rovere MT, Febo O, Boschi F, Iadarola P, Corbellini D, Viglio S, Bongiorno AI, Pastoris O, Verri M. Preserved muscle protein metabolism in obese patients with chronic heart failure. *Int J Cardiol*. 2012;160(2):102-8.
48. Casado B, Luisetti M, Iadarola P. Advances in proteomic techniques for biomarker discovery in COPD. *Expert Rev Clin Immunol*. 2011 Jan;7(1):111-23.
49. Aquilani R, Zuccarelli GC, Dioguardi FS, Baiardi P, Frustaglia A, Rutili C, Comi E, Catani M, Iadarola P, Viglio S, Barbieri A, D'Agostino L, Verri M, Pasini E, Boschi F. Effects of oral amino acid supplementation on long-term-care-acquired infections in elderly patients. *Arch Gerontol Geriatr*. 2011; 52(3): e123-8.
50. Cerri S, Piccolini VM, Santin G, Bottone MG, De Pascali SA, Migoni D, Iadarola P, Fanizzi FP, Bernocchi G. The developmental neurotoxicity study of platinum compounds. Effects of cisplatin versus a novel Pt (II) complex on rat cerebellum. *Neurotoxicol Teratol*. 2011;33(2):273-81.
51. Aquilani R, Scocchi M, Iadarola P, Viglio S, Pasini E, Condello S, Boschi F, Pastoris O, Bongiorno AI, Verri M. Spontaneous neurocognitive retrieval of patients with sub-acute ischemic stroke is associated with dietary protein intake. *Nutr Neurosci*. 2010;13(3):129-34.
52. Ulrich M, Worlitzsch D, Viglio S, Siegmann N, Iadarola P, Shute JK, Geiser M, Pier GB, Friedel G, Barr ML, Schuster A, Meyer KC, Ratjen F, Bjarnsholt T, Gulbins E, Döring G. Alveolar inflammation in cystic fibrosis. *J Cyst Fibros*. 2010;9(3):217-27.

53. Viglio S, Fumagalli M, Ferrari F, Iadarola P. MEKC: a powerful tool for the determination of amino acids in a variety of biomatrices. *Electrophoresis*. 2010;31(1):93-104.
54. Ferrari F, Fumagalli M, Profumo A, Viglio S, Sala A, Dolcini L, Temporini C, Nicolis S, Merli D, Corana F, Casado B, Iadarola P. Deciphering the proteomic profile of rice (*Oryza sativa*) bran: a pilot study. *Electrophoresis*. 2009; 30(23):4083-94.
55. Frankenberger M, Heimbeck I, Möller W, Mamidi S, Kassner G, Pukelsheim K, Wjst M, Neiswirth M, Kroneberg P, Lomas D, Halsall D, Iadarola P, Fertl A, Häussinger K, Ziegler-Heitbrock L. Inhaled all-trans retinoic acid in an individual with severe emphysema. *Eur Respir J*. 2009; 34(6):1487-9.
56. Aquilani R, Baiardi P, Scocchi M, Iadarola P, Verri M, Sessarego P, Boschi F, Pasini E, Pastoris O, Viglio S. Normalization of zinc intake enhances neurological retrieval of patients suffering from ischemic strokes. *Nutr Neurosci*. 2009; 12(5):219-25.
57. Rondanelli M, Klersy C, Iadarola P, Monteferrario F, Opizzi A. Satiety, and amino-acid profile in overweight women after a new treatment using a natural plant extract sublingual spray formulation. *Int J Obes (Lond)*. 2009; 33(10):1174-82.
58. Passadore I, Iadarola P, Di Poto C, Giuliano S, Montecucco C, Cavagna L, Bonino C, Meloni F, Fietta AM, Lisa A, Salvini R, Bardoni AM. 2-DE and LC-MS/MS for a comparative proteomic analysis of BALf from subjects with different subsets of inflammatory myopathies. *J Proteome Res*. 2009;8(5):2331-40.
59. Ferrari F, Fumagalli M, Viglio S, Aquilani R, Pasini E, Iadarola P. A rapid MEKC method for the simultaneous determination of creatinine, 1- and 3-methylhistidine in human urine. *Electrophoresis*. 2009; 30(4):654-6.
60. Aquilani R, Scocchi M, Iadarola P, Franciscone P, Verri M, Boschi F, Pasini E, Viglio S. Protein supplementation may enhance the spontaneous recovery of neurological alterations in patients with ischaemic stroke. *Clin Rehabil*. 2008; 22(12):1042-50.
61. Luisetti M, Ma S, Iadarola P, Stone PJ, Viglio S, Casado B, Lin YY, Snider GL, Turino GM. Desmosine as a biomarker of elastin degradation in COPD: current status and future directions. *Eur Respir J*. 2008; 32(5):1146-57.

62. Casado B, Iadarola P, Luisetti M, Kussmann M. Proteomics-based diagnosis of chronic obstructive pulmonary disease: the hunt for new markers. *Expert Rev Proteomics*. 2008;5(5):693-704.
63. Aquilani R, Opasich C, Gualco A, Verri M, Testa A, Pasini E, Viglio S, Iadarola P, Pastoris O, Dossena M, Boschi F. Adequate energy-protein intake is not enough to improve nutritional and metabolic status in muscle-depleted patients with chronic heart failure. *Eur J Heart Fail*. 2008; 10(11):1127-35.
64. Aquilani R, Scocchi M, Boschi F, Viglio S, Iadarola P, Pastoris O, Verri M. Effect of calorie-protein supplementation on the cognitive recovery of patients with subacute stroke. *Nutr Neurosci*. 2008; 11(5):235-40.
65. Aquilani R, Boselli M, Boschi F, Viglio S, Iadarola P, Dossena M, Pastoris O, Verri M. Branched-chain amino acids may improve recovery from a vegetative or minimally conscious state in patients with traumatic brain injury: a pilot study. *Arch Phys Med Rehabil*. 2008 ;89(9):1642-7.
66. Fumagalli M, Dolcini L, Sala A, Stolk J, Fregonese L, Ferrari F, Viglio S, Luisetti M, Iadarola P. Proteomic analysis of exhaled breath condensate from single patients with pulmonary emphysema associated to alpha1-antitrypsin deficiency. *J Proteomics*. 2008;71(2):211-21.
67. Aquilani R, Viglio S, Iadarola P, Opasich C, Testa A, Dioguardi FS, Pasini E. Oral amino acid supplements improve exercise capacities in elderly patients with chronic heart failure. *Am J Cardiol*. 2008;101(11A):104E-110E.
68. Colonna C, Conti B, Perugini P, Pavanetto F, Modena T, Dorati R, Iadarola P, Genta I. Ex vivo evaluation of prolidase loaded chitosan nanoparticles for the enzyme replacement therapy. *Eur J Pharm Biopharm*. 2008; 70(1):58-65.
69. Colonna C, Conti B, Perugini P, Pavanetto F, Modena T, Dorati R, Iadarola P, Genta I. Site-directed PEGylation as successful approach to improve the enzyme replacement in the case of prolidase. *Int J Pharm*. 2008; 358(1-2):230-7.

70. Casado B, Iadarola P, Pannell LK. Preparation of nasal secretions for proteome analysis. *Methods Mol Biol.* 2008; 425:77-87.
71. Iadarola P, Ferrari F, Fumagalli M, Viglio S. Determination of amino acids by micellar EKC: recent advances in method development and novel applications to different matrices. *Electrophoresis.* 2008; 29(1): 224-36.
72. Di Poto C, Iadarola P, Salvini R, Passadore I, Cereda C, Ceroni M, Bardoni AM. Optimizing separation efficiency of 2-DE procedures for visualization of different superoxide dismutase forms in a cellular model of amyotrophic lateral sclerosis. *Electrophoresis.* 2007; 28(23):4340-7.
73. Di Poto C, Iadarola P, Bardoni AM, Passadore I, Giorgetti S, Cereda C, Carrì MT, Ceroni M, Salvini R. 2-DE and MALDI-TOF-MS for a comparative analysis of proteins expressed in different cellular models of amyotrophic lateral sclerosis. *Electrophoresis.* 2007; 28(23):4320-9.
74. Casado B, Iadarola P, Pannell LK, Luisetti M, Corsico A, Ansaldo E, Ferrarotti I, Boschetto P, Baraniuk JN. Protein expression in sputum of smokers and chronic obstructive pulmonary disease patients: a pilot study by CapLC-ESI-Q-TOF. *J Proteome Res.* 2007; 6(12):4615-23.
75. Viglio S, Annovazzi L, Luisetti M, Stolk J, Casado B, Iadarola P. Progress in the methodological strategies for the detection in real samples of desmosine and isodesmosine, two biological markers of elastin degradation. *J Sep Sci.* 2007 Feb;30(2):202-13.
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