

Dr. Daryoush Hamidi Alamdari

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Educational Qualifications	Academic Employment	Non Academic Appointments	Association/ Memberships
Scientific Publications <ul style="list-style-type: none">➤ Books➤ Papers in English➤ Papers in Persian<ul style="list-style-type: none">✓Original Article✓Case Report➤ Published Abstracts in International Seminars➤ Thesis			
Research Interests	Research Projects (Scientific Projects/ Clinical Trials) <ul style="list-style-type: none">➤ Completed➤ Projects in process		
Presentations	Honors & Awards	Additional Skills	Interests, Hobbies, Family

Educational Qualifications

Postgraduate

2004- 2008 PhD in Clinical Biochemistry, Department of Biological Chemistry, Medical School, Aristotle University of Thessaloniki, Thessaloniki, Greece.

Postgraduate

1994 -1997 Master of Science: Biochemistry, Biochemistry Dept., and Faculty of Medical Science, Tarbiat Modarres University, and Tehran, Iran.

Undergraduate

1988-1993 Bachelor of Science: Chemistry, Chemistry Dept., Faculty of Science, Shiraz University, Shiraz, Iran.

Other Study Course

Apr.1999-Oct.1999 Pasteur Institute of Iran, Biotechnology Dept., Tehran, Iran.
Training Subject: Optimization of ELISA Test for HIV Diagnosis.

Nov.1998-Mar.1999 Genetic Engineering and Biotechnology Center (C.I.G.B.), Havana, Cuba.

Training Subject: Immunochemical and Biological Assay: Hepatitis B surface antigen (HbsAg) quantification for final product by ELISA.

Potency test for evaluation of immunogenic power of vaccine (By Heber Biotec &Hepanostika Kit).

Western Blotting with semidry systems and with tank transfer systems.

Theoretical training on validation of the following assays: antigen quantification ELISA, antibody ELISA and potency test.

General documentation. The Good Laboratory Practice (with a general qualification of excellent)

Academic Employment

2008 - Present Scientific Staff of Biochemistry Department, Stem Cell Laboratory, Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran

2005-2008 Scientific staff of umbilical cord blood banking of Greece (Biohellenika www.biohellenika.gr)

1997-2003 Scientific staff of Pasteur Institute of Iran.
Tehran, Iran

1999- 2003 Scientific staff of Noor's clinical pathobiology laboratory

Memberships

2010 - Present	Vascular & Endovascular Research Center Committee, Vascular & Endovascular Surgery Department , Imam Reza Hospital, Mashhad University of Medical Sciences, Mashhad, Iran
2010 - Present	Biochemistry & Nutrition Research Center Committee, Biochemistry Department, Faculty of Medicine , Mashhad University of Medical Sciences, Mashhad, Iran
2010 - Present	Orthopedic Surgery Research Center Committee, Qaem Hospital Mashhad University of Medical Sciences, Mashhad, Iran
2010 - Present	Oncology surgery Research Center Committee , Mashhad University of Medical Sciences, Mashhad, Iran
2009 – present	Basic Research Science Committee of Mashhad University of Medical Mashhad University of Medical Sciences

Scientific Publications

List of Patents

- Measurement of the Oxidants-Antioxidants Balance in Liquids (WO/2007/113600) (International Patent)
- Measurement of the Total Antioxidant Capacity in Liquids and Solutions Using TMB (WO/2007/039775) (Patented in Greece)

List of Publications in Stem Cells

- Koliakos G, **Alamdari DH**, Tsagias N, Kouzi-Koliakos K, Michaloudi E, Karagiannis V. A novel high-yield volume-reduction method for the cryopreservation of UC blood units. **Cytotherapy**. 2007; 9(7):654-9. **Impact Factor 2006: 2.165**
- Tsagias N, Kouzi-Koliakos K, Karagiannis V, **Alamdari DH**, Koliakos G. Time and temperature before processing influence the recovery of umbilical cord blood hematopoietic progenitors. **Transfusion**. 2007 Aug; 47(8):1550-2. Letter to Editor. **Impact Factor 2006: 3.278**
- Tsagias N, Kouzi-Koliakos K, **Hamidi-Alamdari D**, Karagiannis V, Kostidou E, Koliakos G. Cell recovery sufficient for adult transplantation by additional cord blood collection from placenta. **Transplant Proc**. 2007 Dec; 39(10):3380-4. **Impact Factor 2006: 0.726**

List of Publications in Oxidative Stress

- **Daryoush Hamidi Alamdari**, Malektaj Honarmand, Abdolfattah Sarrafnejad, Abdolreza Varasteh, Mohammad Reza Parizadeh, Majid Ghayour-Mobarhan, Daryoush Fahimi, Apostolos I. Hatzitolios I, George Koliakos. Oxidative stress modulation immediate after haemodialysis. Dialysis and Transplantation. (In press)
- Ghayour-Mobarhan M, **Alamdari D**, Moohebbati M, Sahebkar A, Nematy M, Safarian M, Azimi-Nezhad M, Parizadeh SM, Tavallaie S, Koliakos G, Ferns G. Determination of Pro-Oxidant-Antioxidant Balance After Acute Coronary Syndrome Using a Rapid Assay: A Pilot Study. **Angiology**. 2009 Apr 26. [Epub ahead of print] **Impact Factor:**
- Kaloyianni M, Dailianis S, Chrisikopoulou E, Zannou A, Koutsogiannaki S, **Alamdari DH**, Koliakos G, Dimitriadis VK. Oxidative effects of inorganic and organic contaminants on haemolymph of mussels. **Comp Biochem Physiol C Toxicol Pharmacol**. 2009 May; 149(4):631-9 **Impact Factor:**

- **Alamdari DH**, Ghayour-Mobarhan M, Tavallaie S, Parizadeh MR, Moohebati M, Ghafoori F, Kazemi-Bajestani SM, Paletas K, Pegiou T, Koliakos G. Prooxidant-antioxidant balance as a new risk factor in patients with angiographically defined coronary artery disease. **Clinical Biochemistry**. 2008 Apr; 41(6):375-80.
Impact Factor 2006: 2.33
- **Alamdari DH**, Paletas K, Pegiou T, Sarigianni M, Befani C, Koliakos G. A novel assay for the evaluation of the prooxidant-antioxidant balance, before and after antioxidant vitamin administration in type II diabetes patients. **Clinical Biochemistry**. 2007 Feb; 40(3-4):248-54.
Impact Factor 2006: 2.33
- **Alamdari DH**, Kostidou E, Paletas K, Sarigianni M, Konstas AG, Karapiperidou A, Koliakos G. High sensitivity enzyme-linked immunosorbent assay (ELISA) method for measuring protein carbonyl in samples with low amounts of protein. **Free Radic Biol Med**. 2005 Nov 15; 39(10):1362-7. **Impact Factor 2006: 5.44**
- Kostidou E, Koliakos G, **Alamdari DH**, Paletas K, Tsapas A, Kaloyianni M. Enhanced laminin carbonylation by monocytes in diabetes mellitus. **Clinical Biochemistry**. 2007 Jun; 40(9-10):671-9. Epub 2007 Mar 28.
Impact Factor 2006: 2.33
- Vasiliadis K, Pramateftakis MG, Blouhos K, Mantzoros I, Koliakos G, Zaraboukas T, Kanellos I, Demetriades H, **Alamdari DH**, Betsis D. Effect of iloprost on impaired anastomotic healing caused by 5-fluorouracil plus leucovorin. **Dis Colon Rectum**. 2007 Jun; 50(6):899-907.
Impact Factor 2006: 2.442
- Pourmand G, Nasseh H, Sarrafnejad A, Mojtahedi A, Mehraei A, **Alamdari DH**, Nourijelyani K. Comparison of urinary proteins in calcium stone formers and healthy individuals: a case-control study. **Urol Int**. 2006; 76(2):163-8.
Impact Factor 2006: 0.709
- Pourmand G, Nasseh H, Sarrafnejad A, Mehraei A, **Hamidi Alamdari D**, Nourijelyani K, Shekarpour L. Urinary tamm-horsfall protein and citrate: a case-control study of inhibitors and promoters of calcium stone formation. **Urol J**. 2005 Spring; 2(2):79-85.
- **Daryoush Hamidi Alamdari**, Shoreh Khatami, Abdofataeh Sarrafnejad, Aref Amirkhani, George Koliakos. Stability of urinary protein concentration and electrophoresis patterns in urine samples stored refrigerated or frozen for one week. **Annual of the Medical School**, Aristotle University of Thessaloniki, 30, 2 (2003) 103-108.

Papers in Persian

Original Article

- A.S.G.Lotfi, D.Hamidi Alamdary, S. Saber. Determination of 1- α antitrypsin phenotypes and its inhibitory effect in pulmonary emphysema patients, The 8th Iranian College of Internal Medicine Congress, May 9-12, 1997. Medical University Of Gylan, Gylan.Iran.
- A.R. Bahrmand, V.V. Bakayf, D.Hamidi Alamdary, A.Sanami, Rapid Diagnosis Of Multidrug-Resistant Mycobacterium Tuberculosis with New Molecular Genetic Method (PCR), The 14th Nationwide Congress on Tuberculosis, October 13-15, 1998. Medical University Of Kashan, Kashan.Iran.
- A.R. Bahrmand, V.V. Bakayf, D.Hamidi Alamdary, A.Sanami, Investigation and Follow-up Short Course Chemotherapy Effect on Tuberculosis Patients at Tehran, The 14th Nationwide Congress on Tuberculosis, October 13-15, 1998. Medical University Of Kashan, Kashan.Iran.
- A.S.G.Lotfi, D.Hamidi Alamdary, S. Saber. Determination of 1- α antitrypsin phenotypes and its inhibitory effect in pulmonary emphysema patients, The 8th Iranian College of Internal Medicine Congress, May 9-12, 1997. Medical University Of Gylan, Gylan.Iran.

● A.R. Bahrmand, V.V. Bakayf, D.Hamidi Alamdary, A.Sanami, Rapid Diagnosis Of Multidrug-Resistant Mycobacterium Tuberculosis with New Molecular Genetic Method (PCR), The 14th Nationwide Congress on Tuberculosis, October 13-15,1998. Medical University Of Kashan, Kashan.Iran.

Published Abstracts in International Seminars

● **D. Hamidi Alamdari**, K. Paletas, T.H.Pegiou, M. Sarigianni, A. Tsapas, H. Kostidu, G Koliakos. Decrease Serum Antioxidant Capacity in Patients with Diabetes and Atherosclerosis Can Be Ameliorated after Vitamin C and E Administration Atherosclerosis journal Supplements, Volume 7/3 (2006) page 295.

● K. Paletas, **D. Hamidi Alamdari**, M. Sarigianni, A. Tsapas, G Koliakos. Prooxidant antioxidant balance in obese diabetic 2 patients. International Journal of Obesity Volume 31 supplement 1 May 2007 page S146.

● Maria Sarigianni, **Daryoush Hamidi Alamdari**, Konstantinos Paletas, Apostolos Tsapas, George Koliakos. Obesity and oxidative stress, is there a reversible relationship between them? Hellenic Society of Biochemistry & Molecular Biology Volume 53, Patra 2006 Book of Abstracts of the 58th meeting page 195

● Zannou A., Chrisikopoulou E., **Hamidi Alamdari D.**, Koliakos G., Dimitriadis V., Kaloyianni M. Induction Of Synthesis Of Oxidized Protein In Hemocytes Of Mussels After Their Exposure To Pollutants. The Hellenic Society for Biology Research, Proceeding of 28th Scientific Conference, Ioannina, May 18-20, 2006 page 78.

● E Kostidou, **D Hamidi Alamdari**, K Paletas, M Kaloyianni, G Koliakos Monocyte Laminin Attachmant And Oxidation In Diabetes. Advance in Molecular Medicine Volume 1, April 2005, supplement page 399.

● E Kostidou, **D Hamidi Alamdari**, K Paletas, M Kaloyianni, G Koliakos. MONOCYTE LAMININ ATTACHMANT AND OXIDATION IN DIABETES. Hellenic Society of Biochemistry & Molecular Biology. 7th Annual Meeting of the Hellenic Research Club for Connective Tissue & Matrix Biology Patars, 8-9 April 2005 page 44.

● Karapiperidou A. **Hamidi Alamdari D.**, Konstas A., Koliakos G. ESTIMATION OF OXIDATED PROTEIN IN THE AQUEOUS HUMOUR. The Hellenic Society for Biology Research, Proceeding of 27th Scientific Conference, Naopoli, May, 12-14, 2005 page 119.

Research interest

- Clinical stem cells therapy
- Ex vivo expansion of stem cells for clinical use
- oxidative stress for clinical evaluation of diseases
- Clinical applications of urine protein electrophoresis by SDS-PAGE
- Metachromatic Leukodystrophy disease
- Multiple Sclerosis Disease

Experiences

- Stem Cell Banking for Umbilical Cord Blood and Mesenchymal Stem Cells
- Ex vivo expansion of Mesenchymal stem cells from tooth
- Ex vivo expansion of Mesenchymal stem cells from Wharton's jelly
- Ex vivo expansion of chondrocyte for cartilage repair
- Set up 10 methods in the determination of oxidative stress.

- Optimize a method for Urine Protein Electrophoresis by Gradient SDS-PAGE and Silver Staining method for detection of protein bands.
- Set up Measurement of Arylsulfatase A activity in WBC for Metachromatic Leukodystrophy patients.
- Set up Measurement of Arylsulfatase B activity in WBC for Maroteaux-Lamy syndrome patients (Mucopolysaccharidosis type 6)
- Set up detection of Oligoclonal bands in CSF in Multiple Sclerosis patients.
- Set up Measurement of Alpha-1-antitrypsin in serum by enzymatic assay.
- Set up Determination of 5-aminolevulinic acid in urine by colorimetric method.
- Set up diagnostic PCR and RT-PCR in clinical laboratory (TB, HBV, and HCV).
- Diagnostic PCR (TB, HBV) and RT-PCR (HCV) for one year in clinical laboratory.

Job Experiences

- 2005-2008 Scientific staff of umbilical cord blood banking of Greece (Biohellenika www.biohellenika.gr)
- 1997-2003 Scientific staff of Pasteur Institute of Iran.
- 1999- 2003 Scientific staff of Noor's clinical pathobiology laboratory

Technical skills

- Stem Cell Banking
- Ex vivo expansion of stem cells
- Oxidative stress methods
- Cell culture
- PCR, RT-PCR, RFLP, SSCP
- Flow Cytometry
- Isoelectric Focusing Electrophoresis
- ELISA
- SDS-PAGE, Western Blot, Silver Staining