

CURRICULUM VITAE

Name: **Shohreh Khatami**

Date of birth: 28/4/1961

Marital status: married

Sex: female

Work address: Biochemistry Dept., Pasteur Institute of Iran, Tehran 13164, Iran

Email address: sh-khatami@pasteur.ac.ir

Phone: 009821-66402770

Fax: 009821- 66402770

EDUCATIONAL QUALIFICATION:

- 1993 Ph.D. in Biochemistry, Cellular and Molecular Biology, University of Burgundy, Dijon, France.
- 1987 M.Sc. in Biochemistry, Cellular and Molecular Biology, University of Burgundy, Dijon, France.
- 1986 B.Sc. in Animal Physiology, University of Burgundy, Dijon, France.
- 1985 University degree in Cellular Biology and physiology, University of Burgundy, Dijon, France.
- 1984 University undergraduate degree in Biology, University of Burgundy, Dijon, France.

BACKGROUND:

- Since 1994 Employed as member of scientific board in Biochemistry Department of Pasteur Institute of Iran (Associate Professor)
- 2001-2005 Head of Biochemistry Department of Pasteur Institute of Iran.
- Since 2013 Head of Biochemistry Department of Pasteur Institute of Iran
- Since 2012 Head of Genetics and Metabolism Division
- Since 2012 Head of Reference Biochemistry Laboratory of Pasteur institute of Iran.

SCIENTIFIC TRAINING AND EXPERIENCE:

Teaching:

Since 1994 -Teaching experience in theoretical and practical classes for M.Sc. and Ph.D. students in Pasteur Institute of Iran

Supervising M.Sc. and Ph.D. thesis and other postgraduate students.

Research Projects:

Head of team working on:

- ❖ **Diagnosis of BH4 deficiencies (PKU Screening programe):**
 - Diagnosis of Dihydropteridine reductase deficiency by enzyme assays on dried blood in screening of BH4 deficiency.
 - Measurement of biopterin and neopterin in urine of patients with hyperphenylalaninaemia.
 - Use of BH4 loading test as a practical tool for the diagnosis of differents types of hyperphenylalanemia.

- ❖ Setting up the screening and diagnostic tests for common forms of **glycosphingolipidoses** in Iran and studying the genotype -phenotype relationship in the involved patients.

- ❖ Setting up the screening and diagnostic tests for common forms of **Mucopolysaccharidoses** in Iran and studying the genotype -phenotype relationship in the involved patients.

- ❖ **Biotinidase** activity determination as a confirmatory biochemical test for biotindase deficiency screening and diagnosis.

- ❖ Diagnosis of **silent thalassemia** carriers by globin chain synthesis.
 - Correlation of α and β mutations genotype and globin chains synthesis ratio α/β phenotype of samples in thalassemia patients` DNA bank.
 - Establishment of DNA bank from blood of thalassemic patients.
 - Evaluation of soluble Transferrin Receptor concentration in patients with iron deficiency, alpha thalassemia and minor beta thalassemia.
- ❖ In vitro cardiomyogenic potential of human umbilical vein-derived mesenchymal stem cells.
- ❖ Genotyping of LDL receptor gene in patients with Familial Hypercholesterolemia.
- ❖ Measurement of noradrenalin and dopamine in Locus Coeruleus in various stages of pain by microdialysis using HPLC-ECD.

1988-1993 Ph.D. research thesis:
 Detection, cell distribution and metabolism of non-neuronal catecholamines in heart cell cultures.

Research laboratories:

- Laboratoire de Physiologie, Faculte de Medecine, Dijon.
- Institut National de la Recherche Agronomique (French National Agency for Agronomical Research), Dijon, France.

1987 M.Sc. research thesis
 Contribution to the analysis of the role of catecholamines in the cardiac automaticity. Analysis of catecholamines in the heart and in heart cell cultures.

Supervisor : Dr. Pierre Athias Ph.D. Institut de recherche cardio-vasculaire, Centre hospitalier universitaire du Bocage. 2 Bd du mal de l'attre se tassigny. 21034 Dijon, France. Tel: 33- (0) 380293507

Fax: 33- (0) 380293538

e.mail: athias@u-bourgogne.fr.

Language:

French: completely fluent

English: read, written and spoken

Persian: mother tongue

• Publications:

Motlagh, B, Taghikhani, M, Khatami, S. Zamanfar, D. Allelic frequency of a 24-bp duplication in Exon 10 of the CHIT1 gene in the General Iranian Population . Genetic Testing and Molecular Biomarkers. Volume 20, Issue 1, 1 January 2016, Pages 31-36.

Dashbolaghi, A. Khatami, S. Sardari, S. Cohan, R.A. Norouzian, D. Improved refolding efficacy of recombinant human interferon α -2b via pH modulation. Tropical Journal of Pharmaceutical Research Volume 14, Issue 3, 2015, Pages 385-390.

Gorgani-Firuzjaee, S. Khatami, S. Adeli, K. Meshkani, R. SH2 domain-containing inositol 5-phosphatase (SHIP2) regulates de-novo lipogenesis and secretion of apoB100 containing lipoproteins in HepG2 cells. Biochemical and Biophysical Research Communications. Volume 464, Issue 4, 4 September 2015, Pages 1028-1033.

Aria Setoodeh, BahramYarali, Ali Rabbani, Shohreh Khatami, Sedigheh Shams.Tetrahydrobiopterin responsiveness in a series of 53 cases of phenylketonuria and hyperphenylalaninemia in Iran. Molecular Genetics and Metabolism Reports. 2 (2015) Pp: 77-79

Abdolreza Sabokrouh, Asad Vaisi-Raygani, Mohammad Taghi Goodarzi, shohreh Khatami, Massoud Taghizadeh-jahed et al. Comparison between Platinum-Azidothymidine and Azidothymidine Effects on Bcl-2 and Telomerase Gene Expression in Rats with Hepatocellular Carcinoma . Avicenna J Med Biotech 2015; 7(2): 50-56

Abdi M, Khatami Sh, Hakhamaneshi MS, Alaei MR, Azadi NA, Zamanfar D, Taghikhani M. Validation of Urinary Glycosaminoglycans in Iranian Patients with Mucopolysaccharidose Type I: The Effect of Urine Sedimentation Characteristics. *Iran J Child Neurol.* 2014; 8(4):39-45.

S. Rouhi D ehnabeh, R. Mahdian, S. Ajdary, E. Mostafavi, and S. khatami. Correlation between Plasma Interleukin-3, the α/β Globin R atio, and Globin m RNA Stability. *Anemia Volume 2014*, Article ID 640203, 6 pages.

Abdolreza Sabokrouh, Mohammad Taghi Goodarzi, Asad Vaisi-Raygani, Shohreh **Khatami** and Masoud Taghizadeh-Jahed. Effects of Treatment with Platinum Azidothymidine and Azidothymidine on Telomerase Activity and Bcl-2 Concentration in Hepatocellular Carcinoma- Induced Rats. *Avicenna J Med Biotech* 2014; 6(4): 200-209.

Mohammad Abdi, Mohammad Said Hakhamaneshi, Mohammad Reza Alaei, Namam-li Azadi, Rahim Vakili, Daniel Zamanfar, Mohammad Taghikhani, **Shohreh Khatami**. Determination of Biological Variance and 20 Validation of a Fluorometric Assay for Measurement of CEB1-l-Iduronidase Activity in 20 Dried Blood Spots Samples: The First Experience in Iran. *Ind. J. Clin. Biochem.* published 30 july 2014.

Pourfallah F, Javadian S, Zamani Z, Siadat SD, **Khatami S.**, Saghiri R. Physico-chemical analysis of drinking groundwater of around Tehran by seasonal variation. *Pak J Biol Sci.* 2014 Jan 15;17(2):287-91.

Khatami S, Najmabadi H, Rouhi S, Mirzazadeh R, Bayat P, Sadeghi S Preliminary identification of hemoglobin q-iran in an Iranian family from central province of Iran by globin chain analysis on HPLC. *Arch Iran Med.* 2013 Dec;16(12):739-40.

Moradi K, Alibakhshi R, Khatami S The proportion of tetrahydrobiopterin deficiency and PAH gene deficiency variants among cases with hyperphenylalaninemia in Western Iran. *Indian J Hum Genet.* 2013 Oct;19(4):454-8.

Sara Dabirian, Yasaman Taslimi, Farnaz Zahedifard, Elham Gholami, Fatemeh Doustdari, Mahdieh Motamedirad, **Shohreh Khatami**, Kayhan Azadmanesh, Susanne Nylen, Sima Rafati. Human Neutrophil Peptide-1

(HNP-1): A New Anti-Leishmanial Drug candidate. PLOS Neglected Tropical Diseases. October 2013 , Volume 7, Issue 10, e2491

Malihe Keramati, Farzin Roohvand, Mohammad Mehdi Aslani, **Shohreh Khatami**, Mohammad Reza Aghasadeghi, Mehdi Sadat, Arash Memarnejadian, Fatemeh Motevalli. Screening, Cloning and Expression of Active Streptokinase from an Iranian Isolate of *S.equisimilis* Group C in *E. coli*. *IJBMS*. P: 612-619

Shohreh Khatami, Soghra Rouhi Dehnabeh, Ehsan Mostafavi, Neda kamalzadeh, Paricheher Yaghmaei, Parinaz Saeedi, Farangis Shariat, Hamideh Bagheriyan, Sirous Zeinali, and Mohammad Taghi Akbari. Evaluation and comparison of soluble transferring receptor in thalassemia carriers and iron deficient patients. *Hemoglobin*, 2013, 1–9

Fereshteh Maryami, Reza Mahdian, Somayeh Jamali, Mohsen Karimi Arzanani , **Shohreh Khatami**, Fahimeh Maryami, Parastou Bayat, Sedigheh Sadeghi, Morteza Karimipour, Sirous Zeinali. (2013) Comparisons between RT-PCR, Real-time PCR, and *In Vitro* Globin Chain Synthesis by α/β Ratio Calculation for Diagnosis of α - from β -thalassemia Carriers. *Arch Iran Med*. 16(4): 217 – 220.

Keramati M, Roohvand F, Aslani MM, Motevalli F, **Khatami S**, Memarnejadian A. (2013) Pitfalls in screening streptococci for retrieving superior streptokinase (SK) genes: no activity correlation for streptococcal culture supernatant and recombinant SK. *J Ind Microbiol Biotechnol*. 40(1):151-8.

Samadikuchaksaraei A., Haqparast S., **Khatami S.**, Hashemi MJ., Fasihi Ramadani M., Fard Esfahani P. (2011) An association study of -1131T>C single nucleotide polymorphism of apolipoprotein A5 gene with coronary artery Disease. *LABMEDICINE*. 42(6):350-354

Farzadi M., Khatami S., Mousavi M., Amirmozafari N. (2011) Purification and characterization of alfa galactosidase from lactobacillus acidophilus. *African journal of biotechnology* 10(10):1873-1879.

Tafreshi S., Mirdamadi S., Norouzian D., **Khatami S.**, Sardari S. Optimization of Non-Nutritional Factors for a Cost-Effective Enhancement

of Nisin Production Using Orthogonal Array Method. *Probiotics & Antimicro. Pr* DOI 10.1007/s12602-010-9051-6. published online 14 august 2010.

Soleimannejad E., Naghdi N., **Khatami S.**, Semnianian S., Fathollahi Y. (2010) Formalin increases the concentration of serotonin and its 5-hydroxyindoleacetic acid metabolite in the CA1 region of hippocampus. *Daru* 18(1):29-34.

Tafreshi SH., Mirdamadi S., Norouzian D., **Khatami S.** and Sardari S. (2010) Effect of non-nutritional factors on nisin production. *African journal of biotechnology* 9(9):1382-1391.

Fard-Esfahani P., **Khatami S.** (2010) Familial hypercholesterolemia in Iran: A novel frameshift mutation in low density lipoprotein receptor (LDLR) gene. *Iranian Journal of Pathology* 5 (1), 22-26.

Samadikuchaksaraaei A., Fasihi Ramadani M., **Khatami S.**, Hashemi MJ., Haqparast S., Fard Esfahani P. (2009) E23K polymorphism in Iranian patients with coronary heart disease. *Arya atherosclerosis Journal* 5 (2):1-5.

Mohades G., Naghdi N., Khamnei S., **Khatami S.**, Haeri A. (2009) Effect of spatial learning on Hippocampal testosterone in intact and castrated rats. *Iranian Biomedical Journal*. 13 (1): 49-58.

Amini M., Nahravanian H., **Khatami S.**, Farahmand M., Mirkhani F., Javadian S., (2009) Association between essential trace elements and susceptibility to *Leishmania major* in BALB/c and C57BL/6 Mive. *Brazilian journal of infectious diseases*. 13 (1): 4-6

Amini M., Nahravanian H., Farahmand M., **Khatami S.**, Javadian S., Mirkhani F. (2009) Immuno- biochemical variation in susceptible BALB/c and resistant C57BL/6 mice infected with Iranian strain of cutaneous leishmaniasis ; *Leishmania major* MRHO/IR/75/ER. *The Internet journal of infectious diseases*. volume 7, number 1.

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Norouzian D, Akbarzadeh A, Mirdamadi S, **Khatami S**, Farhanghi A (2007) Immobilization of mushroom tyrosinase by different methods in order to transform L-tyrosinase to L-3,4 Dihydroxyphenylalanine (L-dopa). *Biotechnology* 6 (3): 436-439

Meshkani R, Taghikhani M, Al-Kateb H, Larijani B, **Khatami S**, Sidiropoulos GK, Hegele RA, Adeli K. (2007) Polymorphisms within the Protein Tyrosine Phosphatase 1B (PTPN1) Gene Promoter: Functional Characterization and Association with Type 2 Diabetes and Related Metabolic Traits. *Clin Chem*. Jul 18.

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Meshkani R, Taghikhani M, Larijani B, Bahrami Y, **Khatami S**, Khoshbin E, Ghaemi A, Sadeghi S, Mirkhani F, Molapour A, Adeli K. (2007) Pro12Ala polymorphism of the peroxisome proliferator-activated receptor-gamma2 (PPARgamma-2) gene is associated with greater insulin sensitivity and decreased risk of type 2 diabetes in an Iranian population. *Clin Chem Lab Med*.45(4):477-82.

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Mehdi Kadivar, **Shohreh Khatami**, Yousef Mortazavi, Mohammad ali Shokrgozar, Mohammad Taghikhani, Masoud Soleimani (2006) In vitro cardiomyogenic potential of human umbilical vein-derived mesenchymal stem cells. *BBRC*, 340: 639-647.

Mehdi Kadivar, **Shohreh Khatami**, Yousef Mortazavi, Masoud Soleimani, Mohammad Taghikhani, Mohammad ali Shokrgozar (2006) Isolation, culture

and characterization of postnatal human umbilical vein-derived mesenchymal stem cells. *DARU*, 13(4):170-176.

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Pejman Fard-Esfahani, **Shohreh Khatami**, Cyrus Zeinali, Mohammad Taghikhani, Mojgan Allahyari (2005) A modified conformation sensitive gel electrophoresis (CSGE) method for rapid and accurate detection of low density lipoprotein (LDL) receptor gene mutations in Familial Hypercholesterolemia. *Clinical Biochemistry*, 38: 579-583.

Fard-Esfahani P., Mohammadi-Torabi P., **Khatami S.**, Zeinali C., Taghikhani M., Allahyari M. (2005) Familial defective apolipoprotein B 100: Frequency of R3500Q mutation of apolipoprotein B gene in Iranian Hypercholesterolemic patients. *Acta Medica Iranica*, 43(3):193-196.

Pejman Fard-Esfahani, Cyrus Zeinali, Soghra Rouhi Dehboneh, Mohammad Taghikhani and **Shohreh Khatami** (2005) A novel mutation in exon of the low Density lipoprotein (LDL) receptor gene in an Iranian familial hypercholesterolemia patient. *Iranian Biomedical Journal*, 9(3): 139-142.

Sajedianfard J., **Khatami S.**, Semnanian S., Naghdi N., Jorjani M. (2005) In vitro measurement of noradrenaline in the Locus Coeruleus of rats during the formalin test: a microdialysis study. *Eur. J. Pharmacol.* 28(4):353-6.

Mirzazadeh R., **Khatami S.**, Bayat P., Zamani Z., Sadeghi S., Roohi S. (2005) Removing peroxide impurities from ether improves the quality of globin chains for biosynthetic studies. *Hemoglobin*, 29(2):161-4.

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Daryoush Hamidi Alamdari, **Shohreh Khatami**, Abdolfataeh sarrafnejad, Aref Amirkhani, George Koliakos. (2003) Stability of urinary protein concentration and electrophoretic patterns in urine samples stored refrigerated or frozen for

one week. Annals of the Medical School, Aristotle University of Thessaloniki,30,2.

Omidinia S., Taherkhani H., Asano Y., **Khatami S.**, Omumi A., Ghadiri A., Van Der Lelie D., Rashidpouraie R., Mirzahoseini H., Samadi A. (2002) Affinity purification and characterization of recombinant Bacillus Sphaericus Phenylalanine dehydrogenase produced by pET expression vector system. Iranian biomedical Journal, 6 (1) : 31-36.

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Khatami S., Zamani Z., Hosseini F and Aslani M.M. (2001) Comparison of 11 selective media for streptolysin O production by group A beta-hemolytic streptococci (Richard strain). Hakim, 4 (3)193-200.

Zamani Z., Zolfagharian H., Towfighi H., **Khatami S.**, Ansari A. (2000) Characterization of an anticoagulant agent in the venom of Iranian cobra (Naja Naja Oxiana). Medical Journal of the Islamic Republic of Iran, 13 (4) 291-295.

Zamani Z., Payam R., **Khatami S.**, Nazemi R., Pourfalah F. (1998) Extraction and purification of Peroxidase from horse radish. Journal of Medical Science of Yazd University , 6 (2) 54-59.

Courtois M., **Khatami S.**, Fantini E., Athias p., Mielle P., Grynberg A. (1992) Polyunsaturated fatty acids in cultured cardiomyocytes: effect on physiology and B-adrenoceptor function. *Am. J. Physiol*, 262: H451-H456.

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Grynberg A., Fantini E., Athias P., Degois M., **Khatami S.** (1988) modification of the n-6/n-3 fatty acid ratio in the phospholipids of rat ventricular myocytes culture by the use of synthetic media: functional and biochemical consequences in normoxic and hypoxic conditions. *J. Mol. Cell. Cardiol.* 20: 863-874.