

## Curriculum Vitae

Issa Nourmohammadi

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### Education Background

1976: Bachelor of Science (Chemistry)  
Langston University  
Langston, Oklahoma, USA

1978: Master of Science (Biochemistry)  
University of Oklahoma  
Norman, Oklahoma, USA

1981: Ph.D. (Nutritional Biochemistry)  
University of Arizona  
Tucson, Arizona, USA

1982: Postdoctoral Research Fellow  
University of Illinois  
Urbana, Illinois, USA

### Professional Experience

#### 1982-Present

Associate Professor of Biochemistry and Nutrition  
Iran University of Medical Sciences, College of Medicine, Tehran, Iran

Nutrition and Food Industry Consultant  
1997-2006: Dean, College of Allied Medicine,  
Iran University of Medical Science, Tehran, Iran

Acting Director  
Cellular Molecular Research Center  
Iran University of Medical Science, Tehran, Iran

Food Industry Consultant

#### 1997-2001:

Dean, College of Medicine, Division of Basic Sciences  
Iran University of Medical Sciences, Tehran, Iran

#### 1988-1996

President  
College of Occupational Safety and Health  
Ministry of Labor  
Tehran, Iran

Present or past lecturer on carbohydrate, lipid, mineral and vitamin metabolism at:

- College of Physical Education, University of Tehran, Tehran, Iran
- Qazvin University of Medical Sciences, Qazvin, Iran
- Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran
- Shahed University of Medical Sciences, Tehran, Iran

## Publications

1. M. Firoz-rai, I. Noormohammadi, Evaluation of vitamin A,E,C in plasma and mononuclear leukocytes of type 2 diabetic patients, compare to healthy control. (2006) (preparing for publication).
2. I. Noormohammadi, F. Ghadiri, S. Heydar, Hypozincemia in bipolar I disorder patients. (2006). (Preparing for publication).
3. I. Noormohammadi, A. Akbarian, Assessment of serum zinc concentration in pre-ecliptic and normotensive pregnant women. ( send for publication)
4. S. Salimi, M. Firoz-rai, I. Noormohammadi, (2006) Association of variable number of tendon repeats in endothelial nitric oxide synthase gene with coronary artery disease. Iranian journal of public health. (accepted for publication)
5. I. Nourmohammadi, M.Modarress. assessment of serum  $\alpha$  Tochophero, retinol, ascorbic Acid on risk for age-related cataract. 2006 (Accepted for publication). Ann of Nutr. And Metb.
6. I. Nourmohammadi, A. Akabarian. Et al (2005) copper and Zinc status of Iranian Women During Normal Healthy pregnancy. Iranian Journal of public Health. (Accepted for publication)
7. A. Akhbarnejad, A. Ravasi, T. Razavy, I. Noormohammadi, (2006). Effect of creatine and Glutamine supplements of performance in Elite Werslers after one acute period of weighth lose. HARAK (J. of the faculty of physical education and sport science(TUMS). Volume 27: p!7-20.
8. I. Nourmohammadi, M.Modarress (2005) assessment of Agneous Humor Zin status in Human age-related cataract. Ann of Nutr and Metb. ; 5(1):51-3
9. H. Khorsand Mohammad pour, I. Nourmohammadi, et al (2005)An economical process for production of Human serum albumin 20%. Blood (IBTO). 3:37-44
10. I. Nourmohammadi, F. Kheradmend. (2005) Vitamins and pregnancy. Medical (social security Journal). Volum 23.51-52
11. M. Tafazoli, I Nourmohammadi et al. (2006) Prevalance Analysis of  $\beta$ -Thalassaemia Nutations in the Iranian Province of Qazvin. 2005(accepted for publication)
12. Gohari H L, I Nourmohammadi (2005) preparation of heme control for cellulose acetate electrophoresis. Blood (the scientific Journal of Iranian Blood transfusion organization-research center). 2:53-59
13. I. Nourmohammadi, et al. (2005) Zinc and Selenium Status of Iranian Women in Normal Pregnancy and Miscarriage. Trace Elements in Medicine (Russia). Vol:6, No.2
14. I. Nourmohammadi, M. Mirsamadi November 2004 Serum Zinc and cupper concentration in Human age-related cataract. Middle Eastern Journal of age and Aging. Issue 1,Volum 2.
15. I Nourmohammadi, H. Assadi (2004) Effect of Aerobic Exercise on glycemic contro and Hormonal response in NIDDM patients.
16. M. Mirsamadi, I Nourmohammadi (2004) comparative study of serum  $Na^+$  and  $K^+$  levels in senile cataract patients and Normal individuals. International Journal of Medical Sciences 1(3): 165-169.
17. I. Nourmohammadi, et al. Serum Zinc Concentration in Iranian Women in the Third Trimester of Pregnancy.(2004) Journal of Iran University of Medical Sciences. 10:956.
18. A. Shams, I. Nourmohammadi, et al. (2004) Immunohisto chemistric Study of the Intra-cardiac Ganglia of the Pig Heart. Iranian Journal of Pharmaceutical Research 3:118.
19. I. Nourmohammadi, co-editor. "Molecular Cell Biology." International Research and Development Center for Biotechnology. Tarbiat Modarres University Press. 2004.
20. I. Nourmohammadi, et al. (2003) Zn Hair Concentration in Children with Down Syndrome, Macro- and Microcephaly and Hydrocephaly. J Andeshe va Raftar. 8:118.
21. M. Mirsamadi and I. Nourmohammadi. Correlation of Human Age-related Cataract with Some Blood Biochemistry Constituents. (2003) Ophthalmic Res. 25:329.
22. I. Nourmohammadi, et al. (2003) Correlation of Serum Blood Biochemistry Constituents and Antioxidants with Age-related Cataract. J. Nutr Health Aging. 7:229.
23. I. Nourmohammadi, et al. (2001) Nutrition Knowledge, Attitudes and Practices of Physicians and Medical Students. J Qazvin Uni Med Sci. 19:68.
24. I. Nourmohammadi, et al. (2001) Evaluation of Erythrocyte Glutathione Peroxidase, Superoxide Dismutase and Total Antioxidants in Cataract Patients. Arch Irn Med. 4:123.
25. I. Nourmohammadi, et al. (2001) Evaluation of Levels of Macro- and Micro-nutrients in Workers Exposed to Electromagnetic Fields and Comparison with Levels of Patients with Leukemia. Iran Biomed J. 5:79.

26. I. Nourmohammadi, et al. (2001) Serum Levels of Zn, Cu, Cr and Ni in Iranian Subjects with Arteriosclerosis. Arch Irn Med 4:21.
27. I. Nourmohammadi, et al. (2000) Zinc, Copper, Chromium, Manganese and Magnesium Levels in Serum and Hair of Insulin-dependent diabetics. Arch Irn Med 3:129.
28. J. Mohiti and I. Nourmohammadi. (1999) Biochemical Education in Iran. Biochem Ed. 27:204.
29. L. Mireskandari, S.A. Ziai, P. Salehian, I. Nourmohammadi and M. Mahmoudian. (1999) Serum Ascorbic Acid, Vitamin A and Beta-carotene Levels in Iranian Patients with Cancer. Arch Irn Med. 2:195.
30. M.R. Reza Choli-e-Nazari, M.J. Ehtiati and I. Nourmohammadi. (1993) Serum Iron Concentration in Children with Giardiasis. Shahed Beheshti University of Medical Sciences: Journal of the Faculty of Medicine. 17:11.
31. M.D. Froozani, E. Exir Monfared and I Nourmohammadi. (1992). Maternal and Newborn Protein Status at Delivery in a Public and Private Maternity Hospital in Tehran. Med J. Islamic Rep Iran. 6:25.
32. I. Nourmohammadi, et al. Plasma Dehydroascorbic Acid Levels in Iranian Subjects with Diabetes Mellitus. (1990) Med J Islamic Rep Iran 4:61.
33. I. Nourmohammadi, et al. (1990) Cardiovascular Disease in Iranian Subjects. Part I: Risk Factors. (1990) Recent Advances in Nutriology 2:111.
34. I. Nourmohammadi, et al. (1989) Serum and Urine Levels of Cu, Zn, Mg and Ca in Iranian Patients Exposed to Chemical War Gases. J Trace Elem Exp Med. 2:88.
35. A. Keshavarz Dehno, I. Nourmohammadi and M. Nouroozi. (1988) Evaluation of Ascorbic Acid Levels in War Wounded Patients. Irn J Pub Health. 17:1.
36. J.C Scheerens, T.L. McGriff, I. Nourmohammadi et al. (1987) Xerophytic Gourd Root Starches. Part VI: Preliminary Investigation of Starches from *Apodanthera undulata* Gray, *Marah gilensis* Greene and *Maximowiczia lindheimeri* Gray. Starch/Starke, 38:156.
37. I. Nourmohammadi, et al. (1986) Xerophytic Gourd Root Starches. Part V: Structural Characteristics, Gelatinization Properties and Rheologic behavior of Coyote Gourd Starch (*Cucurbita digitata* Gray). Starch/Starke, 38:156.
38. I. Nourmohammadi. "Soy-protein-based Infant Formulas." University of Jihad Press. 1982.

#### Conference Presentations and Participation

1. Head of conference on:  
First Iranian congress on trace-elements-Tehran-Iran(2006) November 11-12
2. Zinc in health and disease-gene interaction.  
First Iranian congress on trace-elements-Tehran\_Iran(2006) November 11-12
3. Micronutrient and gene interaction-DNA stability  
9<sup>th</sup> Iranian Nutrition conference. Tabriz-Iran.(2006) September 18.
4. Mineral Metabolism and Brain: Basal Ganglia. First seminar on Basal Ganglia. Feb 26-27, 2005 Tehran, Iran.
5. Application of Micronutrient in Atherosclerosis: an update. Atherosclerosis, from Basic science to clinical Evidence. 31 Jan-1 Feb, 2005. Isfahan, Iran.
6. Comparative study of serum Ca level in patients with various Anatomic types of senile cataract and normal individuals. 14<sup>th</sup> Iranian Congress of ophthalmology December 2004 Tehran, Iran.
4. "Nutrition in Pregnancy and Lactation." 3<sup>rd</sup> Congress of Nursing and Midwifery Care and Reproductive Health. June 9-11, 2004. Tehran, Iran.
5. "Trace element Status in Normal Pregnancy and Pathological Conditions in Iranian Women." 5<sup>th</sup> International Congress on Obstetrics and Gynecology. Dec. 8-11, 2003. Tehran, Iran.
6. "Investigation on the Status of Zn and Se in Miscarriage." 5<sup>th</sup> International Congress on Obstetrics and Gynecology. Dec. 8-11, 2003. Tehran, Iran.
7. Session Chairman, Dubai International Obstetrics and Gynecology and Fertility Conference and Exhibition. October 1-3, 2003. Dubai, United Arab Emirates.
8. "Correlation of Some Blood Biochemistry Constituents and Antioxidants with Age-related Cataract." 2<sup>nd</sup> Congress of the International Academy of Nutrition and Aging. July 10-12. 2003. Albuquerque, New Mexico, USA.
9. "Detection and Determination of Trace Elements in Biological Materials." Medical Laboratory and Pathology Workshop. June 24, 2003. Tehran, Iran.

10. "Micronutrients Zn, Cu, Se and Fe and Colon Cancer." 8<sup>th</sup> Asian Federation of Coloproctology Congress. Nov. 2-4, 2002. Tehran, Iran.
11. Member, Academic Organizing Committee. 7<sup>th</sup> Iranian Nutrition Congress. Adequate Nutrition: People's Basic Right. Sept. 2-5, 2002. Rasht, Iran.
12. "Study of the Route of Administration (IP vs. Oral) of Caffeine during Pregnancy on C57BL/6J (B6) Mice." 6<sup>th</sup> Congress on Biochemistry. Oct. 22-25, 2001. Tehran, Iran.
13. "Contamination Status of Domestic and Imported Rice by Aflatoxin in the Iranian Market." 6<sup>th</sup> Congress on Biochemistry. Oct. 22-25, 2001. Tehran, Iran
14. "Serum Levels of Zn, Cu, Cr and Ni in Patients with Arteriosclerosis." XXXV<sup>th</sup> Middle East Medical Assembly. May, 2000. Beirut, Lebanon.
15. "Status of Certain Trace Elements in Arteriosclerosis." 1<sup>st</sup> Annual Seminar of the Isfahan Cardiovascular Research Center. Updates on Arteriosclerosis, Nutrition and Lipids. Jan. 2000. Isfahan, Iran.
16. "Bioavailability of Trace Elements." 5<sup>th</sup> Iranian Nutrition Congress. Household Food and Nutrition Security. Sept. 1999. Tehran, Iran.
17. "Determination of Plasma Trans-fatty acids with F-T IR Spectrophotometer." 5<sup>th</sup> Biochemistry Congress of Iran. Urumia, Iran.
18. "Zn Status in Hair of Mentally Retarded Children under 14 Years of Age." 3<sup>rd</sup> Iranian conference on Nutrition. March 1994. Isfahan, Iran.
19. "Effect of Nickel Exposure on Biochemical Parameters: A Study of Iranian Workers." 2<sup>nd</sup> Biochemistry Congress. Nov. 1993. Tehran, Iran.
20. "Effects of Work-environment Factors on Biochemical Parameters. XII World Congress on Occupational Safety and Health. April 1993. New Delhi, India.
21. "Effects of Electromagnetic Fields as a Basic Environmental Problem in Health of the Population in Markazi Province." 1<sup>st</sup> Seminar on Development of Markazi Province. Oct. 1993. Arak, Iran.
22. "Effect of Electromagnetic Fields on Human Health: Investigation of Blood and Urine Parameters." 7<sup>th</sup> International Power Systems Conference. Nov. 1992. Tehran, Iran.
23. "Molecular aspects of Mental Health." Multi-country Study Mission on Mental Health of Workers. Asian Productivity Organization. May 1991. Tokyo, Japan.
24. "Study of Some Clinical Factors and the Effect of Theophylline on Serum Alkaline Phosphate in Persons contaminated with Tin." 1<sup>st</sup> International Conference on Drug Levels in Clinical Evaluation. Feb. 1991. Isfahan, Iran.
25. "Update on Trace Elements and Vitamins." 1<sup>st</sup> Conference of Nutrition. Dec. 1990. Tehran, Iran.
26. "Cardiovascular Disease in Iranian Subjects. Part I. Risk Factors." 2<sup>nd</sup> International Congress on Cardiovascular Nutrition and Update in Cardiology. Feb. 1990. New Delhi, India.
27. "Serum and Urine Levels of Cu, Zn, Mg and Ca in Iranian Patients Exposed to Chemical War Gases." 2<sup>nd</sup> Meeting of the International Society for Trace Element Research in Humans. Aug. 1989. Tokyo, Japan.
28. "Nutritional Evaluation of Starches Isolated from *Cucurbita digitata* and *Apondanthera undulata* Roots." 14<sup>th</sup> International Congress of Nutrition. Aug. 1989. Seoul, Korea.
29. "Preliminary Studies on the Effect of Mustard Gas on the Levels of Zinc, albumin and Alkaline Phosphates in Serum." International Congress on Applied Criminology. Sept. 1988. Gent, Belgium.
30. "Dehydroascorbic Acid Levels in Diabetics." World Congress on Clinical Nutrition. Feb. 1988. New Delhi, India.
31. "Changes in Ascorbic Acid Levels in Patients Injured by Chemical War Gases." 1<sup>st</sup> International Medical Conference on War Gases. June 1987. Mashad, Iran.
32. "Lead Poisoning in Children of Tehran and its Effect on Hemoglobin Content and Glucose-6-phosphate Dehydrogenase Activity in Red Blood Cells." 20<sup>th</sup> Annual Convention, Islamic Medical Association of North America. July 1987. Srinagar, Kashmir, India.
33. "Zinc Levels in Iranian Patients Exposed to Chemical War Gases." 1<sup>st</sup> International Medical Conference on War Gases. June 1987. Mashad, Iran.

#### Areas of Research: Completed and Ongoing

1. Study of metallothionein 1M and 1G Isoform Polymorphisms in infertile men and the relationship with zinc in cultured TM4 sertoli cells. (Ph.D student research- ongoing research)
2. Apo E gene polymorphism frequencies in AMD Iranian patients and control group. (MS student- ongoing research)
3.  $\alpha$ -F2\_Isoprostas in complicated pregnancy and healthy control( residence student (gynecology) research program)

4. Antioxidants Vitamin A,E,C and other natural body antioxidants in preeclamptic and healthy control (MS. Student ongoing research program )
5. Evaluating serum Zn and Cu concentration in patients with bipolar I disorder (BID) (completed 2006)
6. Endothelial nitric oxide synthase polymorphisms frequency in CAD patients (completed 2006)
7. Effect of chromium supplementation on lipid profile of diabetics (Type II) (completed 2006)
8. Prevalence of mutations in P53 and APC in low and high grade colic adenomas (completed in 2005)
9. Seroepidemiology of HTLV-1 antibody in multi-transfused thalasmic patients (completed in 2005)
10. Analysis of the relation between infertile sperm and its content of phospholipids, fatty acid and malondealdehyde (completed 2005)
11. Zinc serum status of Hospital workers. Completed (2005)
12. Levels of Zn in aqueous humor and serum in patients with cataract (completed in 2004).
13. Trace element status (Zn, Cu, Se, Mg) in pregnant women with PROM (completed in 2004)
14. Status of trace elements Zn, Cu, Se and Mg in pregnant women with preeclampsia (completed in 2004).
15. Assessment of Vitamins A, E and C in relation to cataract (completed in 2004)
16. Zn and Cu levels in three trimesters of pregnancy (completed in 2003)
17. Designing a method for determination of Al levels in different stages of albumin production and storage (completed in 2003)
18. Relation of serum levels of Zn and Se on normal pregnancy and miscarriage (completed in 2003)
19. Zn levels in 3<sup>rd</sup> trimester of normal pregnancy (completed in 2002)
20. Preparation of hemoglobin controls (completed in 2001)
21. New method for production of 5% albumin using cold ethonol (completed in 2000)
22. Prevalence of clinical and subclinical hypothyroidism in pregnant women (ongoing)
23. Effect of vitamin C supplementation on serum lipid profile and peroxidation in hemodialysis patients (completed 2005)
24. Investigation on determination of Pb serum levels with ion voltometry (ongoing)
25. Plasma, leukocyte vitamins A, E and C concentration in uncontrolled type II diabetics (completed 2005)
26. Comparative analysis of trans-fatty acid levels in adipose tissue and serum in patients with CAD and normal subjects (ongoing)
27. Effect of proxisome proliferator activator-Y- in apoptosis induced by docosahexaenoic Acid in garcat cells (ongoing)

**Professional Affiliations:**

Member, Iranian Biochemistry Society

Member, Iranian Nutrition Society

Member, Iranian Trace Element Society

Member, Iranian Molecular Network Society

Member, Editorial Board, Journal of Age and Aging (Lebanon)

Vice president, Iranian Atherosclerosis, Lipids, Nutrition society

English, scientific Editor of Medical (social security Journal)

Member, Editorial Board, Blood (the scientific Journal of Iranian Blood transfusion organization-research center)