

Seyed Isaac Hashemy

hashemyi@mums.ac.ir
isaac.hashemy@gmail.com

D.O.B.: Apri 18, 1973; Tehran-Iran



Address: Department of Clinical Biochemistry, Faculty of Medicine, Azadi square, Paradise Daneshgah, Mashhad, Iran.

Email: hashemyi@mums.ac.ir

Tel: +98 915 8112664

ORCID ID

orcid.org/0000-0002-1323-5250

Educational Qualifications

Postgraduate

2008 **PhD in Clinical Biochemistry**
Department of Medical Biochemistry and Biophysics, Karolinska Institutet
Stockholm, Sweden

Dissertation: “**Regulation of human thioredoxin and glutaredoxin systems by oxidation and s-nitrosylation**”

Supervisor: Professor Arne Holmgren

Opponent for my thesis defense: Professor Dean P Jones - Emory University School of Medicine, USA

Undergraduate

1998 **Doctor of Medicine (GP)**
Faculty of Medicine
Mashhad University of Medical Sciences
Mashhad, Iran

Dissertation: **The analysis of the results of exercise test in 1000 cases with chest pain and comparison of results with respect to age, sex, and the kind of chest pain (typical or atypical)**

Diploma

1991 **Diploma in Mathematics and Physics, Mashhad, Iran**

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Academic Employment	
2017 – Present	Head of Department, Department of Clinical Biochemistry, Faculty of Medicine, Mashhad University of Medical Sciences Mashhad, Iran
2017 – Present	Associate Professor of Clinical Biochemistry, Department of Clinical Biochemistry, Faculty of Medicine, Mashhad University of Medical Sciences Mashhad, Iran
2008 – 2017	University Lecturer - Assistant Professor of Clinical Biochemistry, Department of Clinical Biochemistry, Faculty of Medicine, Mashhad University of Medical Sciences Mashhad, Iran

Memberships	
Since 2012	Founding member of Addiction Research Center - Mashhad University of Medical Sciences
2011	Both Executive and Scientific Committees of 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry & Molecular Biology Mashhad, Iran
2011	Scientific Committee of 11th Congress of Iranian Society of Toxicology Mashhad, Iran
2011	Scientific Committee of 12th National Conference on Medical Education Mashhad, Iran
2011 – Present	Board of Reviewers of <i>Ofogh -e Tose'eye Amouzesh -e Pezeshki</i> (an Iranian Journal of Medical Education)
2010 – Present	EDC(Educational Development Center), Mashhad University of Medical Sciences Mashhad, Iran
2010 - Present	Surgical Oncology Research Center, Faculty of Medicine Mashhad University of Medical Sciences Mashhad, Iran
1998 - Present	Medical Council, I. R. IRAN

Scientific Publications

Books in English

- Hashemy, S.I., **Regulation of human thioredoxin and glutaredoxin systems by oxidation and s-nitrosylation**, 2008. (Thesis book)
ISBN: 978-91-7357-563-8
Karolinska Institute, Stockholm, Sweden

Books in Persian

- بیوشیمی برای پرستاران (**Biochemistry for Nurses**)، با ضمیمه های بالینی – حافظ حیدری زرنق، سید اسحاق هاشمی، امیر آدینه داغیان؛ زیر نظر سید اسحاق هاشمی – چاپ اول؛ ۱۳۸۹ – شابک: ۹۷۸-۶۰۰-۱۰۱-۰۵۹-۰
- ارزشیابی آموزشی دانشجو در علوم پزشکی (**Student Educational Evaluation in Medical Sciences**) - چاپ اول؛ ۱۳۹۰ – شابک: ۹۷۸-۶۰۰-۶۳۳۱-۱۸-۸

Papers in English

- Rahmani F, Avan A, **Hashemy SI**, Hassanian SM
Role of Wnt/ β -catenin signaling regulatory microRNAs in the pathogenesis of colorectal cancer.
J Cell Physiol. 2017 Mar 7. doi: 10.1002/jcp.25897. [Epub ahead of print] Review.
- Ghasemi A, **Hashemy SI**, Aghaei M, Panjehpour M.
RhoA/ROCK pathway mediates leptin-induced uPA expression to promote cell invasion in ovarian cancer cells.
Cell Signal. 2017 Apr;32:104-114.
- Ebrahimi S, Rezaei S, Seiri P, Ryzhikov M, **Hashemy SI**, Hassanian SM.
Factor Xa Signaling Contributes to the Pathogenesis of Inflammatory Diseases.
J Cell Physiol. 2017 Aug;232(8):1966-1970.
- Akbari M, Nejat AH, Farkhondeh N, Mehraban Moghadam S, **Hashemy SI**, Mohammadipour HS.
Does at-home bleaching induce systemic oxidative stress in healthy subjects?
Aust Dent J. 2017 Mar;62(1):58-64. doi: 10.1111/adj.12425. Epub 2016 Dec 14.
- Sobhani M, Taheri AR, Jafarian AH, **Hashemy SI**.
The activity and tissue distribution of thioredoxin reductase in basal cell carcinoma.
J Cancer Res Clin Oncol. 2016 Nov;142(11):2303-7.
- Toloue Pouya V, **Hashemy SI**, Shoeibi A, Nosrati Tirkani A, Tavallaie S, Zahedi Avval F, Soukhtanloo M, Mashkani BA, Hamidi Alamdari D.
Serum Pro-Oxidant-Antioxidant Balance, Advanced Oxidized Protein Products (AOPP) and Protein Carbonyl in Patients With Stroke
Razavi International Journal of Medicine. 2016 June; 4(2): 1-6.
- Amirchaghmaghi M, **Hashemy SI**, Alirezaei B, Jahed Keyhani F, Kargozar S, Vasigh S, Gharaei S, Pakfetrat A.

Evaluation of Plasma Isoprostane in Patients with Oral Lichen Planus.

J Dent (Shiraz). 2016 Mar;17(1):21-5.

● **Hashemy SI**, Gharaei S, Vasigh S, Kargozar S, Alirezaei B, Keyhani FJ, Amirchaghmaghi M.

Oxidative stress factors and C-reactive protein in patients with oral lichen planus before and 2 weeks after treatment.

J Oral Pathol Med. 2016 Jan;45(1):35-40. doi: 10.1111/jop.12326. Epub 2015 Jun 8.

● Taheri AR, Tanipour MH, Kafami Khorasani Z, Kiafar B, Layegh P, **Hashemy SI**.

Serum protein carbonyl and total antioxidant capacity levels in pemphigus vulgaris and bullous pemphigoid

Iranian Journal of Dermatology. 2015; 18, No. 74 (156-162).

● Khodabakhshi A, Ghayour-Mobarhan M, Rooki H, Vakili R, **Hashemy SI**, Mirhafez SR, Shakeri MT, Kashanifar R, Pourbafarani R, Mirzaei H, Dahri M, Mazidi M, Ferns G, Safarian M.

Comparative measurement of ghrelin, leptin, adiponectin, EGF and IGF-1 in breast milk of mothers with overweight/obese and normal-weight infants.

Eur J Clin Nutr. 2015 May;69(5):614-8.

● Mohammadi SH, Pakrouh Z, Teimouri M, Hagipour S, Karimi M, Mohammadi M, Mohammadpour A, Tanipour MH, **Hashemy SI**, Sookhtanlu M, Tavakkoli K, Mohammadzadeh F.

Effects of drug substance crystal (methamphetamine) on histopathology and biochemical parameters of kidney in adult male mice.

Scientific Journal of Kurdistan University of Medical Sciences . 2015; 78.

● Bahreyni S, Mazidi M, Rezaie P, Vakili R, Norouzy R, **Hashemy SI**, Ebrahimi M, Esmaeili H, Razavi Ebrahimi P, Akhavan-rezayat A, Nematy M.

The Effects of Ramadan Fasting on the Level of Sex Hormones in Pre-menarche Girls in Mashhad, Iran.

J Fasting Health. 2015; 3(1): 43-49.

● Boroumand N, **Hashemy SI**.

The Effect of Ramadan Fasting on Endocrine System.

J Fasting Health. 2015; 3(4):148-155.

● Manavifar L, Keramati MR, Jamali J, Tavakkoli S, Mansouritorghabeh H, **Hashemy SI**.

The association between neutrophilic hypersegmentation and iron deficiency with regard to folate status in 16-30 year-old women.

Clin Lab. 2014;60(3):517-22.

● Akbari M, Afshari R, Sharif M, **Hashemy SI**, Majidinia S.

Evaluation of the effect of diacetyl morphine on salivary factors and their changes after methadone therapy.

J Contemp Dent Pract. 2014 Nov 1;15(6):730-4.

● Taghizadeh Kermani A, Esmaeili S, Vakili R, **Hashemy SI**.

The Serum C-reactive Protein and Prooxidant-antioxidant Balance in Patients with Esophageal Cancer Compared to Healthy Subjects

Journal of Cardio-Thoracic Medicine. 2014 2(1): 118-22.

- Peivandi Yazdi A, **Hashemy SI**, Salehi M, Masoumzadeh M, Razavi M.
Evaluation of the Prevalence of Hypomagnesemia in the First 24 th Hour after Selective Operations in Intensive Care Unit Patients
Quarterly of the Horizon of Medical Sciences. 20 (1): 29-33
- Nazouri Mahdabadi M, Khabjavid Z, Tafakori Baghdarian N, Lookian F, Javid A, Mousavi SH, **Hashemy SI**.
Rhus Coriaria Effect On Serum Uric Acid Level And In Vivo Xanthine Oxidase Activity In Oxonate-Induced Hyperuricemic Mice
Journal of Pharmaceutical and Biomedical Sciences. 2013 3(12): 1-6.
- Zahedi Avval F, Pourhaji F, Youssefi M, Pourhaji F, **Hashemy SI**.
A Study of PhD Students' Perspectives Concerning Pedagogic Training in Doctoral Program
Future of Medical Education Journal. 2013 Summer; 3(2):29-32.
- Bahrayni Sh, Vakili V, Nematy N, Norouzy A, **Hashemy SI**, Ebrahimi M, Masoumi E, Esmaeili H.
The Effect of Ramadan Fasting on Thyroid Hormones in 9-13 Years Old Pre-Menarche Girls.
J Fasting Health. 2013; 1(2):46-52.
- **Hashemy SI**.
The Human Thioredoxin System: Modifications and Clinical Applications
Iranian Journal of Basic Medical Sciences. 2011 May-June; 14(3):191-204.
- **Hashemy SI**, Holmgren A.
Regulation of the Catalytic Activity and Structure of Human Thioredoxin 1 via Oxidation and S-Nitrosylation of Cysteine Residues.
J Biol Chem. 2008 Aug 8; 283(32):21890-8.
- Carvalho CM, Chew EH, **Hashemy SI**, Lu J, Holmgren A.
Inhibition of human thioredoxin system: A molecular mechanism of mercury toxicity.
J Biol Chem. 2008 May 2; 283(18):11913-23.
- **Hashemy SI**, Johansson C, Berndt C, Lillig CH, Holmgren A.
Oxidation and S-nitrosylation of cysteines in human cytosolic and mitochondrial glutaredoxins: effects on structure and activity.
J Biol Chem. 2007 May 11; 282(19):14428-36.
- **Hashemy SI**, Ungerstedt JS, Zahedi Avval F, Holmgren A.
Motexafin gadolinium, a tumor-selective drug targeting thioredoxin reductase and ribonucleotide reductase.
J Biol Chem. 2006 Apr 21; 281(16):10691-7.

Published Abstracts in International Seminars

- Evaluation of the oxidant –antioxidant balance, isoprostane and quantitative CRP in cutaneous leishmaniasis patients
Author(s): Esmaeeli S; Rajabian R; **Hashemy SI**
Conference Information: **13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology**, Date: **Apr 16-19, 2013 Yazd, Iran**
Source: **Iranian Journal of Biotechnology** Volume: **11**, No. **42S** Page: **S351** Published:

2013

● The association between neutrophilic hypersegmentation and iron deficiency with regard to folate status in 16-30 years old women

Author(s): Manavifar L; **Hashemy SI**; Keramati MR; Jamali J

Conference Information: **13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology**, Date: **Apr 16-19, 2013 Yazd, Iran**

Source: **Iranian Journal of Biotechnology** Volume: **11**, No. **42S** Page: **S319** Published: **2013**

● Dental bleaching-induced redox perturbation

Author(s): **Hashemy SI**; Akbari M; Farkhondeh N; Nejat AH; Mehraban Moghadam S

Conference Information: **13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology**, Date: **Apr 16-19, 2013 Yazd, Iran**

Source: **Iranian Journal of Biotechnology** Volume: **11**, No. **42S** Page: **S313** Published: **2013**

● Study of Rhus coriaria effect on serum uric acid level and in vivo xanthin oxidase activity in oxonate-induced hyperuricemic mice

Author(s): Khabjavid Z; **Hashemy SI**; Nazouri M; Tafakori Baghdarian N; Mousavi SH

Conference Information: **13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology**, Date: **Apr 16-19, 2013 Yazd, Iran**

Source: **Iranian Journal of Biotechnology** Volume: **11**, No. **42S** Page: **S290** Published: **2013**

● Survey efficacy of polymorphism of leptin receptor (Lys 109 Arg) in susceptibility to breast cancer

Author(s): Tavakkol Afshari J; Homaei Shandiz F; Sanglakh P; Brook A, Ganjali R; Afzalaghvae M; Nematy M; Emami Sh, **Hashemy SI**; Aghamohammadian J

Conference Information: **13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology**, Date: **Apr 16-19, 2013 Yazd, Iran**

Source: **Iranian Journal of Biotechnology** Volume: **11**, No. **42S** Page: **S77** Published: **2013**

● Glutathione changes in consequence of burn injury

Author(s): **Hashemy, SI**; Askarian, R; Safarian, M; Beiraghi Toosi, A

Conference Information: **12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology**, Date: **Sep 6-9, 2011 Mashhad, Iran**

Source: **Clinical Biochemistry** Volume: **44**, No. **13S** Page: **S1** Published: **2011**

● Study of liver function tests in HIV-infected patients, with or without co-infection of HBV or HCV

Author(s): **Hashemy, SI**; Mansouri, S; Omidian Rad, R; Riazi, Z; Sadeghian, MH

Conference Information: **12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology**, Date: **Sep 6-9, 2011 Mashhad, Iran**

Source: **Clinical Biochemistry** Volume: **44**, No. **13S** Page: **S126** Published: **2011**

● Thioredoxin and glutaredoxin systems in cellular thiol redox homeostasis

Author(s): **Hashemy, SI**; Holmgren, A

Conference Information: **European Meeting of the Society-for-Free-Radical-Research-Europe (SFRR-Europe)**, Date: **OCT 10-13, 2007 Vilamoura PORTUGAL**

Source: **FREE RADICAL RESEARCH** Volume: **41** Page: **S7** Published: **2007**

● Iron-cofactors in members of the Thioredoxin-family of proteins

Author(s): Berndt, C; **Hashemy, SI**; Hudemann, C, et al.

Conference Information: **13th Biennial Meeting of the Society-for-Free-Radical-Research-International**, Date: **AUG 15-19, 2006 Davos SWITZERLAND**

Source: **FREE RADICAL RESEARCH** Volume: **40** Page: **S52** Published: **2006**

Supervisor in the following theses

- 2011 - Master thesis – Roya Askarian

Evaluation of oxidative stress and its relationship with the prognosis of burn injuries.

- 2012 - Master thesis – Bahareh Barkhidarian

Effects of arginine and citrulline supplementation on prognosis of critically ill patients in intensive care unit receiving enteral nutrition.

- 2013 – Master thesis – Mahdi Nazoori

The in vivo and in vitro antioxidant activity of ghrelin

- 2013 - Master thesis - Sara Esmaeeli

Evaluation of the prooxidant-antioxidant balance ,serum isoprostane, and CRP in patients with cutaneous leishmaniasis, and its comparison with normal people.

- 2013 - Medical doctorate - Zahra Kafaami

Evaluation of serum protein carbonyl and total antioxidant capacity in patients with pemphigus vulgaris.

- 2013 - Medical doctorate – Morteza Behnamfard

Evaluation of serum protein carbonyl and total antioxidant capacity in patients with pemphigus vulgaris.

- 2014 - Master thesis – Shima Lorestani

Evaluation of the activity and gene expression of glutathione reductase enzyme in inflammatory bowel disease.

Co-supervisor in the following theses

- 2012 - Medical doctorate – Seyed Mostafa Mansouripour

The effect of cyproheptadine and chlordiazepoxide in prevention of serotonin syndrome due to tramadol overdose.

- 2012 - Dentistry doctorate – Nematollah Farkhondeh Aghideh

Comparison of serum level of oxidative stress factors, before and after using dental bleaching agents.

- 2013 – Master thesis – Mohammad Keyvanlou

Production and expression of Single Chain Fragment Variable antibody (Sc-FV) against human Carcinoembryonic Antigen (CEA) in E.coli.

- 2013 - Master thesis – Fatemeh Alavian

Comparison effect of chewing flavourless and flavored with mint gum on stress and anxiety the first stage of labor in nulliparous women.

- 2013 – Specialty in internal medicine – Ghazal Javadmoosavi

Comparison of serum adiponectin before and after renal transplantation.

- 2013 – Specialty in cosmetic dentistry – Hamideh Sadat Mohammadipour

Evaluation the effect of ascorbic acid on urinary level of oxidative stress factors, during dental bleaching procedures.

- 2013 – Specialty in oral diseases – Atekeh Movaghari Poor

Evaluation of serum level of oxidated and reduced glutathione and oxidant-anti oxidant balance in patient with head and neck squamous cell carcinoma.

- 2013 - Master thesis – Elham Heydari

Measurement of 25-hidroxy vitamin D serum level in new cases of children with type 1 diabetes mellitus and compration with control.

- 2013 - Master thesis – Shohreh Bahreyni

The effects of Ramadan fasting on biochemical tests in girls between 9-13years

before age of menarch in Mashhad.

● 2012 - Dentistry doctorate – Marzieh Abdollahnezhad

Comparative investigation of Matrix Metallo Proteinase 2, 9 (MMP-2, 9) levels in saliva and serum of patients with Head and Neck squamous cell carcinoma (HNSCC) and healthy subjects (a case control study).

Research Interests

- Redox Signaling and Oxidative stress
- Enzymology
- Molecular Mechanisms of Diseases
- Tumor Biology

Some of Research projects (Scientific Projects/ Clinical Trials):

Projects in process

- **The effect of ascorbic acid administration on level of serum oxidative stress factors of patients with hepatic hydatid cyst.**
- **Evaluation of oxidative stress in burn blister fluids and its relationship with oxidative stress in plasma.**
- **Comparison of hsCRP and oxidative stress factors in patients with oral lichen planus, before and one-month after treatment.**
- **Evaluation of serum isoprostane in patients with oral lichen planus.**
- **To evaluate the correlation between oxidative stress and prognostic factors of thyroid cancer**
- **To evaluate the correlation between oxidative stress and prognostic factors in patients with stroke**
- **The comparison of tissue distribution and activity of thioredoxin reductase in dermal basal cell carcinoma with normal skin**
- **The evaluation of relationship between tissue Glutathione peroxidase activity and the psoriasis area and severity index (PASI)**
- **Investigation the Correlation between serum protein carbonyl levels with disease activity in patients with rheumatoid arthritis**
- **Antioxidant effect of curcumin on pulmonary complications in victims of chemical weapons**
- **Evaluation of serum substance p levels and tissue distribution of NK-1 receptors in thyroid cancer prognosis**

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Presentations		
Date	Location	Title
● 16-19 April, 2013	The 13th Iranian Congress of Biochemistry and 5th International Congress of Biochemistry and Molecular Biology, Yazd, Iran	Dental bleaching-induced redox perturbation
● 6-9 September, 2011	The 12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology, Mashhad, Iran	Glutathione changes in consequence of burn injury
● 6-9 September, 2011	The 12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology, Mashhad, Iran	Study of liver function tests in HIV-infected patients, with or without co-infection of HBV or HCV
● 20-23 April, 2011	The 4 th international & 9 th National Congress on Quality Improvement in Clinical Laboratories, Tehran, Iran	Analysis of the Role of Diabetes Screening in Identifying Diabetics Conducted in Biochemical Laboratory of Imam Reza Hospital, Mashhad, in Nov.2010
● 29 October – 1 November, 2007	The 9 th Iranian Congress of Biochemistry & the 2 nd International Congress of Biochemistry and Molecular Biology, Shiraz, Iran	Oxidation and S-nitrosylation of human cytosolic thioredoxin: a possible role in cell signaling
● 10-13 October, 2007	The Society for Free Radical Research (SFRR) Europe 2007 Meeting, Vilamoura, Algarve, Portugal	Thioredoxin and glutaredoxin systems in cellular thiol redox homeostasis
● 27-28 April, 2006	MBB-Conference 2006, Nynäshamn, Sweden	Iron-cofactors in members of the Thioredoxin-family of proteins
● 9-11 November, 2005	International Redox Network (IRN Kyoto 2005), Kyoto, Japan	The first member of the thioredoxin family of proteins containing an [FeS]-cluster: human Glutaredoxin 2
● 9-11 November, 2005	International Redox Network (IRN Kyoto 2005), Kyoto, Japan	Motexafin gadolinium: A tumor selective drug targeting thioredoxin reductase and ribonucleotide reductases

Teaching Contributions		
Date	University / Students	Title
● 2003-2008	Karolinska Institute , Sweden / Medical and Biomedical Students	Physiology and Biochemistry of Digestive tract Hemoglobin Lab.

		Microsoft Office
● Since 2008 (all of teachings are not included)	MUMS, Iran / Faculty of Medicine; Residents of Pathology	Clinical and Lab-oriented Biochemistry
	MUMS, Iran / Faculty of Medicine; MSc Students of Biochemistry	General Biochemistry
		Clinical Biochemistry
		Enzymology
		Tissue Biochemistry
	MUMS, Iran / Faculty of Medicine; MSc Students of Physiology & Immunology	General Biochemistry
	MUMS, Iran / Faculty of Medicine; PhD Students of Microbiology	Applied Biochemistry
	MUMS, Iran / Faculty of Pharmacy; Doctorate Students of Pharmacy	General Biochemistry
Clinical Biochemistry		
MUMS, Iran / Faculty of Nursing; Bachelor Students of Nursing	General Biochemistry	
MUMS, Iran / Faculty of Paramedicine; Bachelor Students of Laboratory Sciences	Clinical Biochemistry	
	Medical Biochemistry	
	Endocrinology	

Honors & Awards

2003	A full Scholarship (51 months) from the Iranian Ministry of Health and Medical Education to get my PhD from Karolinska Institute - Sweden
2007	Travel grant from Karolinska Institutet (1500 \$) to attend in the "9th Iranian Congress of Biochemistry and the 2nd International Congress of Biochemistry and Molecular Biology", Shiraz, Iran.

Referees

Dr Christopher Horst Lillig	Institute for Medical Biochemistry and Molecular Biology Universitätsmedizin Greifswald Ernst-Moritz Arndt-Universität Greifswald DE-17475 Greifswald, Germany phone (office): +49 3834 865407 phone (lab): +49 3834 865431 E-mail: horst@lillig.de
Dr CHEW Eng Hui	Department of Pharmacy National University of Singapore 18 Science Drive 4

	Singapore 117543 Tel: +65 6516 1995 Fax: +65 6779 1554 Email: phaceh@nus.edu.sg
Professor Arne Holmgren	Karolinska Institutet (KI), Department of Medical Biochemistry and Biophysics (MBB), Scheeles Väg 2 17177 Stockholm, Sweden Phone: +46 8524 876 86 E-mail : arne.holmgren@ki.se
Professor Elias Arner	Karolinska Institutet (KI), Department of Medical Biochemistry and Biophysics (MBB), Scheeles Väg 2 17177 Stockholm, Sweden Phone: +46-8-524 869 83 Fax: +46-8-31 15 51 E-mail : elias.arner@ki.se

Languages	
Persian	Native
English	Fluent
Arabic	Intermediate

Interests, Hobbies, Family
Working with computer, learning new softwares, and surfing on the web
Married, 2 daughters