

AbdolReza Varasteh, Ph.D.
Professor of Medical school



Bu-Ali Research Institute
Mashed University of Medical Sciences (MUMS)
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UNIVERSITY EDUCATION:

1989	Ph.D. in Biochemistry	Nancy University, Nancy, France
1986	MSc. in Biochemistry	Nancy University, Nancy, France
1984	B. S. in Biochemistry	Nancy University, Nancy, France
1982	DEUG Natural Sciences	Picardie University, Amiens, France
1978	High school of Natural Sciences	Shariati High school, Mashed, Iran

THESIS:

PhD A.VARASTEH
Development de methods de mesure immunochimique de l'aspartate aminotransferase mitochondrial et intérêt Clinique de sa determination, These de PhD, 1 université de Nancy 1, 1989.

Ms A.VARASTEH
Contribution a la purification et dosage immunologique de l'aspartate aminotransferase mitochondrial, Memorie de DEA, Université de Nancy I, 1986.

POSTDOCTORAL FELLOW:

1989-1989	Nancy University, Faculty of Pharmacy, Nancy, France
2002-2002	CHRC, University of Texas, Galveston, Medical Branch
2002-2003	Virginia University and Indoor Biotechnologies, Virginia, USA

FACULTY POSITIONS:

- 2010- Present Professor of Medicine and immunology, Department of allergy and immunology, Medical school, Mashhad University of Medical Sciences
- 2004- 2010 Associate professor of Medicine and immunology, Department of allergy and immunology, Medical school, Mashhad University of Medical Sciences
- 1990-2004 Assistant professor of Medicine and immunology, Department of allergy and immunology, Medical school, Mashhad University of Medical Sciences
- 1998- 2011 Faculty of Immunology Research Center, Bu-Ali Research institute, Mashhad University of Medical Sciences
- 2011-Present Faculty of Allergy Research Center, Bu-Ali Research institute, Mashhad University of Medical Sciences

COMMITTEES, ADMINISTRATION AND PROFESSIONAL APPOINTMENTS:

- 1997- Present Founder and Director, immunobiochemistry Dep., Allergy Research Center
- 2007- Present Founder and Director of Varastegan Institute for Medical Sciences
- 2000- Present Founder and director of medical diagnostic lab Pardis Mashhad
- 2005- Present Member, post graduated studies Council of Medical School, Mashhad University of Medical Sciences
- 2006- Present Member, Research Council of Medical School, Mashhad University of Medical Sciences
- 1997- Present Clinical Biochemistry laboratory Certificate, Ministry of Health, Tehran, Iran
- 1992-1995 Responsible of post graduated study in Immunology group, MUMS
- 1999-2002 Director, Immunology Research Center, Bu-Ali Institute, Mashhad university of Medical Sciences
- 1995- 2007 Founder and Director, Teaching Immunology Laboratory, Medical School, Mashhad University of Medical Sciences
- 1994-1999 Scientific Director, Biogene Biotechnology, Inc
- 1993- 2002 Member, University research council, Mashhad Univ. of Medical Sciences
- 1997-2005 Member, Council of Bu-Ali Research institute, Mashhad University of Medical Sciences
- 2007- 2009 Post-graduate education coordinator of Immunology Dept., Medical School, Mashhad Univ. of Medical Sciences
- 2008- Present Member of Medical Research Councils, Mashhad University of medical Sciences
- 2001-2002 Director of Immunology Research Center

HONORS & AWARDS:

- 2011 Top researcher in the Department of Medical Sciences
- 2010 Top researcher in the Department of Mashhad University of Medical Sciences
- 2010 Top Scholar in the Department of Medical Sciences (ranked first)
- 2007 Top Researcher of the Khorassan State
- 2006 Top Researcher of the Mashhad University of Medical Sciences
- 2001 Selected Researcher of the Mashhad university of Medical science
- 2000 Top Researcher of Mashhad university of Medical Science
- 1999 Award from Khorassan Council of Biotechnology

SOCIETIES MEMBERS:

Iranian Academy of Allergy and Immunology
European Academy of allergy and Clinical Immunology
Iranian Association of Biotechnology
Iranian Association of Specialist in Laboratory Sciences
Iranian Academy of Allergy, Asthma and Clinical Immunology

RESEARCH INTERESTS:

- Allergen Immunotherapy using recombinant molecules
- Effect of environmental factor on the expression of allergens
- Identification and characterization of new allergens

GRANTS REVIEWER:

Mashhad university of Medical sciences
Iranian Network of Biotechnology
Medical school, Mashhad University of Medical Science
Pharmacy school, Mashhad University of Medical science
School of Agriculture, Ferdossi University
Shiraz University of Medical Sciences

JOURNAL REVIEWER:

International archive of allergy and clinical immunology

Iranian journal of basic medical sciences

Scientific Journal of Birjand Medical University

Iranian Biomedical journal

Scientific Journal of Kerman Medical University

Iranian Biomedical Journal

SUPERVISED STUDENTS (PAST AND PRESENT):

	Name	Degree	Affiliation
1	Fatemeh Keifi	PhD of Immunology	Medical school, Mashhad University, 2012
2	Leila Roozbeh	PhD of Food Science	Ferdowsi University of Mashhad 2008
3	Reza Falak	PhD of Immunology	Medical school, Mashhad University, 2007
4	HamidReza nouri	PhD of Immunology	Medical school, Mashhad University, 2007
5	Reihaneh Noorbakhsh	PhD of Food Science	Ferdowsi University of Mashhad 2007
6	Reza Majidzadeh	PhD of Animal Science	Ferdowsi University of Mashhad 2007
7	Mohsen Tehrani	PhD of Immunology	Medical school, Mashhad University, 2006
8	Mohamad Assareh	PhD of Immunology	Medical school, Mashhad University, 2006
9	Iraj Jaffari	PhD of Anatomical Sciences	Medical school, Mashhad University, 2006
10	Farideh Talebi	Ms of Immunology	Medical school, Mashhad University, 2007
11	Jafar Hajavi	Ms of Immunology	Medical school, Mashhad University, 2007
12	Mohsen Bagheri	Ms of Immunology	Medical school, Mashhad University, 2007
13	Zahra Farshadzadeh	Ms of Microbiology	Medical school, Mashhad University, 2007
14	Frough Youssefi	Ms of Microbiology	Medical school, Mashhad University, 2007
15	Reza Zarif	Ms of Microbiology	Medical school, Mashhad University, 2007
16	Iyda Gholubi	Ms of Microbiology	Medical school, Mashhad University, 2007
17	Samaneh Abedini	Ms of Biochemistry	Tehran University of Payam Nour, 2007
18	Nazanin Pazouki	PhD of Molecular Biology	Tehran Azad University
19	Mojtaba Sankian	PhD of Immunology	Medical school, Mashhad University, 2005

SUPERVISED STUDENTS (PAST AND PRESENT):

	Name	Degree	Affiliation
20	Frough Shirazi	Msc of immunology	Medical school, MUMS, 2005
21	Maryam Moghaddassi	Pharm.D	Pharmacy school, Mashhad University, 2005
22	Nargess Baranzadeh	Pharm.D	Pharmacy school, Mashhad University, 2005
23	Human Kaghaziam	Ms of Immunology	Medical school, Mashhad University, 2002
24	Nafisseh Esmail	Ms of Immunology	Medical school, Mashhad University, 2001
25	Omid Rajabi	PhD of Pharmacology	Pharmacy school, Mashhad University, 1999
26	Ali Ghazavi	Ms of Immunology	Medical school, Mashhad University, 1999
27	Teybeh Kermany	PhD of Anatomy	Medical school, Mashhad University, 1999
28	Alireza Modaressi	Pharm.D	Pharmacy school, Mashhad University, 1998
29	Marjan Rahsaz	Ms of Immunology	Medical school, Mashhad University, 1999
30	Maryam Salimi	Pharm.D	Pharmacy school, Mashhad University, 1998
31	Daryoush Tayebi	Ms of Immunology	Medical school, Mashhad University, 1999
32	Amir Safari	Pharm.D	Pharmacy school, Mashhad University, 1998
33	Anahita Saidi	Pharm.D	Pharmacy school, Mashhad University, 1998
34	Anahita Fahim	Pharm.D	Pharmacy school, Mashhad University, 1996
35	Azam Samei	Ms of Immunology	Medical school, Mashhad University, 1994
36	Hossein Safari	Pharm.D	Pharmacy school, Mashhad University, 1994
37	Mohamad Osouki	PMD	Paramedical school, Mashhad University, 1992
38	Afshin Afsharian	Pharm.D	Pharmacy school, Mashhad University, 1993
39	Alireza Bazazan	Pharm.D	Pharmacy school, Mashhad University, 1993
40	M-Ali Nohfalaki	P.MD	Paramedical school, Mashhad University, 1992

TEACHING EXPERIENCES:

	Subject or Course	level
1	Immunochemistry	MS of Immunology
2	Immunochemistry	Ph.D. of immunology
3	Immunobiology	MS of Immunology
4	Laboratory methods in Immunology	MS of Immunology
5	Research methodology	MS of Immunology
6	Antigens	MS of Immunology
7	Biochemistry	MS of Immunology
8	Immunology	MS of Immunology
9	Immunology	Pharm. D.
10	Immunology	Dental
11	Immunology and serology	Medical Technologist
12	Micro anatomical Methods	Ph.D. of Anatomy
13	Vaccination	General Health
14	Immunology	MS of Immunology
15	Molecular Biology	PhD of Immunology
16	Applied Biochemistry	MS of Biochemistry
17	Selected Topics in immunology	PhD of Immunology
18	Clinical Immunology	PhD of Immunology
19	Advanced laboratory methods	PhD of Immunology
20	Immunology	Doctor of Pharmacy
21	Immunology	Medical
22	Radio Biochemistry	Nuclear medicine technician
23	Immunology and serology	Laboratory Sciences

DNA AND PROTEIN (ALLERGEN) REGISTRATION:

Year	Source	Nam or Accession #	Bank
2007	Platanus Orientalis	Pla o1	GenBank
2007	Platanus Orientalis	Pla o2	GenBank
2007	Platanus Orientalis	Pla o3	GenBank
2006	Crocus sativus pollen	Cro S2	IUIS
2005	Cucumis melo	AY879597	GenBank
2005	Crocus sativus pollen	AY923864	GenBank
2005	Crocus sativus pollen	AY898658	GenBank
2005	Cucumis melo	AY879598	GenBank
2004	Cucumis melo	Cuc m2	IUIS
2003	Cucumis melo	AY292385	GenBank
2003	Cucumis melo	AY292386	GenBank
2003	Cucumis melo	AY292387	GenBank
2003	Cucumis melo	AY271295	GenBank
2003	Crocus sativus pollen	Cro S1	IUIS

**DISCOVERIES RECORDED BY THE WORLD BANK IUIS:
GENES AND ALLERGENS:**

TITLE	GI	ACCESSION
Identification of methionine synthase (Sal k 3), as a novel allergen of Salsola kali pollen	225810598	FJ821454
Expression of the Recombinant Major Allergen of Salsola kali Pollen(Sal k 1) and Comparison with Its Low-Immunoglobulin E-Binding	225810596	FJ821453
Cucumis melo var. reticulatus cultivar Mashadi profilin (Cuc m 2) mRNA, complete cds; alternatively polyadenylated 2	57021113	AY292386
Cucumis melo var. reticulatus cultivar Mashadi profilin (Cuc m 2) mRNA, complete cds; alternatively polyadenylated 3	57021111	AY292387
Cucumis melo var. reticulatus profilin (Cuc m 2) mRNA, complete cds	57021109	AY271295
Cucumis melo var. inodorus pathogen-related protein 1 alternative isoform mRNA, complete cds, alternatively spliced	188090892	EU679402
Salsola kali Sal k 4 pollen allergen mRNA, partial cds.	239916565	GQ145223
Chenopodium album, Che a 2 pollen allergen mRNA, partial cds.	238886047	FJ985985
Platanus orientalis pollen allergen Pla o 1 mRNA, complete cds.	162949335	EU296476
Cucumis melo var. reticulatus profilin (Cu m 2) mRNA, complete cds.	57021115	AY292385
Crocus sativus pollen allergen Cro s 1 mRNA, complete cds.	62720369	AY923864
Amaranthus retroflexus Ama r 2 pollen allergen mRNA, partial cds.	227937303	FJ899746
Cucumis melo var. inodorus pathogen-related protein 1 (Cuc m 3)mRNA, complete cds.	171464769	EU556704
Platanus orientalis pollen allergen Pla o 3 mRNA, complete cds.	162949339	EU296478
Platanus orientalis pollen allergen Pla o 2 mRNA, complete cds.	162949337	EU296477
Crocus sativus profilin mRNA, complete cds.	58700650	AY898658
Cucumis melo profilin (m2) mRNA, 5' UTR and partial cds.	58263798	AY879598
Cucumis melo profilin (m2) mRNA, complete cds and 3' UTR	58263792	AY879597

BOOKS:

- Allergy, Edited by Abdol-Reza Varasteh et al, Vagegan Kherad press, 2004
- Prevalent allergenic Plants in Iran, Abdol-Reza Varasteh et al, Vagegan Kherad press, 2007
- Practical immunology, Abdol-Reza Varasteh et al, Payvand Mehr press 2007
- Food allergy, Abdol-Reza Varasteh et Ramin Ghassefi, Payvand Mehr press 2008
- Practical Immunology - Third Edition 2010
- Patients with congenital metabolic disorders 2010
- Organic acids in patients with congenital metabolic disorders 2010
- Fatty acids in patients with congenital metabolic disorders 2010
- Amino acids in patients with congenital metabolic disorders 2010
- Practical Immunology (New EDI Practices Immunology 2010
- Kbohydrat metabolism disorders in patients with congenital metabolic 2011
- Alphabet Practical Immunology 2011
- Alphabet Immunology 2011

METHODS FOR THE FIRST TIME I LAUNCHED BY MASHHAD UNIVERSITY OF MEDICAL SCIENCES:

- Alktrvfvrr vertical SDS-PAGE method
- DOT-IMMUNOBLOTTING method
- WESTERN- BLOTTING method
- ELISA methods designed
- Aymvnhystv methods Kmstry
- Immunoassay methods Sytvkmystry
- Production of polyclonal antibodies
- Construction plats of immunochemical SRID
- BRADFORD method for measuring total protein
- Kromatogrove compensation Uni
- Kromatogrove Elk Molkola
- Aamonowaveneti Kromatogrove
- Akstrakshn methods of proteins by neutral salts
- Proteins isolated by the Alcohol and cold
- Separation of proteins by PEG
- Purified allergens
- Identification of allergens
- Cloning allergens

RESEARCH PROJECTS:

Code	Title
901001	Mutation analysis of the mut gene in affected methyl malonic academia patient
900948	Produce and Study of immunological properties of recombinant lactococcus lactis producing the major of Salsola kali pollen allergen sal k1 as a live vaccines
89617	Study of local probiotic bacteria (Lactobacillus plantarum A7) and commercial probiotic bacteria (Lactococcus lactis) as immunoadjuvant systems for sublingual immunotherapy of type1 allergy
891030	Proteomics study of Pigweed pollen allergens
89624	Determination of sensitization profile to identified Chenopodiacea pollen allergens by recombinants allergens in seasonal allergic patients
89704	Establishment of a Sandwich ELISA for the measurement of the grape chitinase
89207	The frequency of HTLV1 seroposivity in chronic Lupoid Leishmaniasis in patients referred to leishmaniasis clinic of Gaem and Emam Reza hospitals
85146	Molecular evaluation of effects of L-ascorbic acid, glucagon like peptide-I and insulin in prevention of apoptosis in hippocampal region of diabetic type I rats
85192	the effects of some salivary defense factors on severe early childhood caries
86623	Comparison of sensivity of skin prick test , serum and fecal RAST test in patients with food allergy with egg -cow milk -peanut -fish
83093	The Preparation of animal model (Balb/C mice) to investigate the alergenicity of saffron's recombinant allergen (rCro S2)
83093	The Preparation of animal model (Balb/C mice) to investigate the alergenicity of saffron's recombinant allergen (rCro S2)
86377	The prevalence study of allergic rhinitis in patients with chronic otitis media
87224	A study of nutritional survey, cardiovascular risk modification, glycaemic control of type 2 diabetes, asthma control and incidence of renal colic during food and drink abstinence from morning Azan to evening Azan during month of Ramadan
86699	Identification, production and molecular characterization of the major allergen of grape (Vitis vinifera
87180	The Effect of Sesquiterpene Coumarines from Dorema Kopetdaghense on LPS-Activated Macrophages
85120	Evaluation of NKT cells role in Allergic rhinitis and the effect of allergens on

RESEARCH PROJECTS:

Code	Title
	iNKT cells stimulation
85073	Evaluation of methamphetamin effects on the morphology proliferation and apoptosis in the rats testis
85142	Evaluating the effects of fish consumption on serum interleukins 6, 8 and 10 in institutionalized elderly people
85127	Serum and sinonasal mucus study for fungal specific IgE antibody in allergic fungal sinusitis
85135	Construction of a T/A cloning expression vector for protein engineering
85375	Evaluation the effect of prostaglandin inhibitors on serum levels of IFN-d. IL10- IL6 clinical symptoms of Disease in schizophrenic patients
85361	Correlation between serum 25 hydroxy vit D3 and markers of cardiovascular disease in type 2 diabetic patients
84422	study of inhibitory effects of saffran (crocus sativus) on adenocarcinoma of calon and gastric carcinoma line
86016	comparison of plasma levels of Th1 and Th2 cytokines in chronic lupoid leishmaniasis patients with healed cutaneous leishmaniasis
86781	Cloning and expression of Cuc m 3, as a major allergen from persian melon
86782	Cloning and expression of Cuc m1, a major allergen of Persian melon (Cucumis melo)
86041	Identification, production and molecular characterization of the major allergen of Salsola kali pollen
79034	purification of saffron pollen allergen
86049	of formaldehyde effect on Balb/c mice SpermatogenesisImmounohistochemical study
84123	evaluation of successful treatment of immunologic abortion with low-dose intravenous immounoglobulin
84323	Diagnosis of melen sensuization Comparison of natural and Recomparison of natural and Recombinant Melon Profilin
79042	the correlation between in vivo and in vitro diagnoctic tests of saffron pollen sallegy
84207	prevalence of respiratory symptoms in sheep breeders
79040	Evaluation of Khorasanian melon allergens

RESEARCH PROJECTS:

Code	Title
84368	effective factors in response to polycitra-k and hdyrochlorotiazide in children with nephrolithiasis and hypercalciuria
83018	Determinate of allergy incidance in mashad
78141	Preparation of Interfron -a2a using genetic engineering
83014	Monoclonal antibody production against saffron pollen profilin
81060	evaluation of lipoprotein a level in patients with acute coronary events and comparison with healthy population
81060	evaluation of lipoprotein a level in patients with acute coronary events and comparison with healthy population
83067	Thermodynamics and structural studies of B-Lactogloblin(A&B) with interaction of anionic surface active agents
83037	Purification and potency determination of monoamine oxidase from beef serum
83037	Purification and potency determination of monoamine oxidase from beef serum
80036	extraction and purification of human chorionic gonadotropin and study on physicochemical characterization and its stability
86383	Association between CC chemokine receptor 5(CCR5) gene polymorphisms and outcome following HBV infection
86204	Study of diagnostic value of 5-HIAA in the patients suspected for acute appendicitis referring to surgical emergency of Imam Reza hospital.
86206	study of diagnostic value of hs - CRP in the patients suspected for acute appendicitis referring to surgical emergency of Imam Reza hospital.
79100	a comparison among preparation methods of saffron pollen extract
80019	Formulation and stability studies of Anti-Rhd preparation
80019	Formulation and stability studies of Anti-Rhd preparation
80008	Study the effect of Iyophization and ultrafiltration in different conditions on the stability anti-D preparation
86354	evaluation of dermal irritability of drug solution atrineh
86347	Identification, cloning, production and characterization of pistachio recombinant allergens
86420	Study of inflammasome pathway in macrophages infected By Leishmania, causing oriental sore
86424	Comparison of free salivary testosterone versus free serum testosterone in

RESEARCH PROJECTS:

Code	Title
	patients with Hirsutism.
86426	Mutation Analysis of CYP11B1 gene (11- β hydroxylase) in deficient 11-Hydroxylase patients with congenital adrenal hyperplasia
86435	The study of apoptotic effect of Echinococcus granulosus larva stage on lymphocytes
86345	Cloning and Expression and Purification of Mycobacterium tuberculosis Culture Filtrate Protein-10
86422	Evaluation of innate and acquired immune salivary proteins in children with SECC or Caries free by microarray analysis.
86588	evaluation of the usage and costs anti-allergic drug among population covered by tamin ejtemai, khadamt and darmani and niruhaye mosalah insurances
86665	Prevalence of Food allergy among students in Mashhad Universities, 2007-2008
86770	Prooxidant- antioxidant balance in patients with rheumatoid arthritis and its correlation with hematological parameters
87133	The impact of melon contamination with diazinone on blood cholinestrase level of healthy volunteers
86333	Cloning, expression, and purification of the ESAT-6 (Early Secretory Antigenic Target-6) of Mycobacterium tuberculosis.
86356	molecular characterization, cloning and expression of Platanus orientalis allergen
86012	Molecular Cloning, Expression and Purification of Protein TB10.4 Secreted by Mycobacterium tuberculosis
87064	evaluation of cardiovascular effect of vitamin D deficiency in type 2 diabetic patients before and after oral 1,25-dihydroxy vitamin D ₃ replacement therapy
87401	The possible effects of mesenchymal stem cell implantation on damaged hypoglossal motoneurons nucleus in Rat
87521	Identification, molecular characterization and production of the major allergen of Pigweed pollen
88429	Comparison Expression of VEGF and TGF- β 1 mRNA in Record of Atopic and Without Record of Atopic patients with Pterygium
88448	Constructing a recombinant probiotic bacteria producing the major

RESEARCH PROJECTS:

Code	Title
	chenopodium pollen allergen (cha 2)
88449	Production and purification of monoclonal and polyclonal antibodies to major allergenic proteins of grape and designing sandwich ELISA for evaluation of these allergens in different grape cultivars
88452	Expression of grape recombinant allergens in insect cell line
87848	Preparation of LPD nanoparticles containing Her2 peptides as vaccine against breast cancer
88783	Optimization of Production and purification of Salsola kali Allergen in prokaryote expression system
87746	Thyroid disorders in children with chronic renal failure
87542	Production a hybrid protein of Chenopodium Album allergens and evaluation of immunogenicity effect in experimental model of allergy
88800	Production a hybrid protein of Chenopodium Album allergens and evaluation of immunogenicity effect in experimental model of allergy
88801	Optimizing a hybrid molecule production from Chenopodium album allergens in different prokaryotic expression system
87618	DNA vaccine encoding the major Platanus orientalis pollen allergens and its efficacy evaluation in mouse model
88789	Influence of thermal processing on the allergenicity of main pistachio allergens

PUBLICATIONS:

1. Salari F, Vahedi F, Chamani J, **Varasteh A**, Ketabdar H, Sankian M. Efficient expression of a soluble lipid transfer protein (LTP) of *Platanus orientalis* using short peptide tags, and structural comparison with the natural form. *Biotechnol Appl Biochem*. 2014 Apr 18. doi: 10.1002/bab.1235.
2. Falak R, **Varasteh AR**, Ketabdar H, Sankian M. Expression of grape class IV chitinase in *Spodoptera frugiperda* (Sf9) insect cells. *Allergol Immunopathol (Madr)*. 2014 Jul-Aug;42(4):293-301.
3. Zarif R, Sankian M, Gholubi A, Farshadzadeh Z, Soleimanpour S, Youssefi F, **Varasteh A**. Cloning and Expression of Mycobacterium tuberculosis Major Secreted Protein Antigen 85B (Ag85B) in *Escherichia coli*. *Jundishapur Journal of Microbiology*. 2013;6(2):112-6.
4. Nouri HR, Sankian M, Afsharzadeh D, **Varasteh A**. Immunotherapy with a recombinant hybrid molecule alleviates allergic responses more efficiently than an allergenic cocktail or pollen extract in a model of *Chenopodium album* allergy. *International archives of allergy and immunology*. 2013;161(4):325-32.
5. Fata A, Mahmoudian M, **Varasteh A**, Sankian M. Monarch-1 Activation in Murine Macrophage Cell Line (J774 A. 1) Infected with Iranian Strain of *Leishmania major*. *Iranian journal of parasitology*. 2013;8(2):207.
6. Falak R, **Varasteh A**, Ketabdar H, Sankian M. Expression of grape class IV chitinase in *Spodoptera frugiperda*(Sf9) insect cells. *Allergologia et immunopathologia*. 2013;42(4):293-301.
7. Falak R, Sankian M, Noorbakhsh R, Tehrani M, Assarehzadegan MA, Jabbari Azad F, Abdolhasani A, **Varasteh AR**. Identification and characterisation of main allergic proteins in *Vitis vinifera* vitis. *Food and Agricultural Immunology*. 2013;24(3):255-68.
8. Falak R, Sankian M, Ketabdar H, Moghadam M, **Varasteh A-R**. The role of anti-CCD antibodies in grape allergy diagnosis. *Reports of Biochemistry & Molecular biology reports*. 2013;1(2):1-8.
9. **Varasteh A-R**, Sankian M, Midoro-Horiuti T, Moghadam M, Shakeri MT, Brooks EG, et al. Molecular cloning and expression of Cro s 1: an occupational allergen from saffron pollen (*Crocus sativus*). *Reports of Biochemistry & Molecular Bioly*. 2012;1(1):1-8.
10. Tehrani M, **Varasteh A**, Khakzad MR, Mirsadraee M, Sankian M. Decreased levels of soluble Toll-like Receptor 2 in patients with asthma. *Reports of Biochemistry and Molecular Biology*. 2012;1(1):1-7.
11. Spotin A, Mokhtari Amirmajdi M, Sankian M, **Varasteh A**, Vahedi F, Shamsian A. Expression of Apoptosis Inducing-ligands, Trail and Fas-L in Hydatid Cyst Germinal Layer and Normal Tissue. *Journal of Ardabil University of Medical Sciences (JAUMS)*. 2012;12(1(43)):7-16.
12. Spotin A, Majdi MMA, Sankian M, **Varasteh A**. The study of apoptotic bifunctional effects in relationship between host and parasite in cystic echinococcosis: a new

approach to suppression and survival of hydatid cyst. *Parasitology research*. 2012;110(5):1979-84.

13. Sankian M, Vahedi F, Pazouki N, Moghadam M, JabbariAzad F, **Varasteh A-R**. Cloning and expression of cyclophilin from *Platanus orientalis* pollens in *Escherichia coli*. *Reports of Biochemistry and Molecular Biology*. 2012;1(1):1-5.
14. Sankian M, Bagheri Y, Vahedi F, Azad FJ, **Varasteh A-R**. Validity of using recombinant melon profilin, Cuc m 2, for diagnosis of melon allergy. *Reports of Biochemistry & Molecular biology reports*. 2012;1(1):1-7.
15. Pishdadian A, **Varasteh A-R**, Sankian M. Type 2 Innate Lymphoid Cells: Friends or Foes Role in Airway Allergic Inflammation and Asthma. *Journal of allergy*. 2012;2012(2012):13.
16. Nouri HR, **Varasteh A**, Vahedi F, Chamani J, Afsharzadeh D, Sankian M. Constructing a hybrid molecule with low capacity of IgE binding from *Chenopodium album* pollen allergens. *Immunology letters*. 2012;144(1):67-77.
17. Nouri HR, Sankian M, Vahedi F, Afsharzadeh D, Rouzbeh L, Moghadam M, **Varasteh A**. Diagnosis of *Chenopodium album* allergy with a cocktail of recombinant allergens as a tool for component-resolved diagnosis. *Molecular biology reports*. 2012;39(3):3169-78.
18. Norouzy A, Mohajeri S, Shakeri S, Yari F, Sabery M, Philippou E, **Varasteh AR**, Nematy M. Effect of Ramadan fasting on glycemic control in patients with Type 2 diabetes. *Journal of endocrinological investigation*. 2012;35(8):766.
19. Jangjoo A, **Varasteh A-R**, Mehrabi Bahar M, Tayyebi Meibodi N, Esmaili H, Nazeri N, et al. Is urinary 5-hydroxyindoleacetic acid helpful for early diagnosis of acute appendicitis? *The American journal of emergency medicine*. 2012;30(4):540-4.
20. Heravi RM, Nasiraii LR, Sankian M, Kermanshahi H, **Varasteh A**. Optimization and Comparison of Two Electrotransformation Methods for *Lactobacilli*. *Biotechnology*. 2012;11(1).
21. Hamidi-Alamdari D, Reza-Parizadeh M, **Varasteh A**, Bonakdaran S, Honarmand M, Sarrafnejad A, et al. *Gazzetta Medica Italiana Archivio per le Scienze Mediche*. *Gazzetta medica italiana* 2012;17(1):1-5.
22. Falak R, Sankian M, **Varasteh A**. The Possible Role of Organophosphorous Pesticides in Augmentation of Food Allergenicity: A Putative Hypothesis. *Research Journal of Environmental Toxicology*. 2012;6(3).
23. Falak R, Sankian M, Tehrani M, Azad FJ, Abolhasani A, **Varasteh A**. Clinical and laboratory investigation of oral allergy syndrome to grape. *Iranian Journal of Allergy, Asthma and Immunology*. 2012;11(2):147-55.
24. Behmanesh F, **Varasteh A**, Shakeri A, Shahsavand S. Evaluation of Interleukin 1 β in Febrile Convulsion. *Iranian Journal of Allergy, Asthma and Immunology*. 2012;11(4):336-9.
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ABSTRACTS AND PRESENTATIONS:

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RESEARCH INTERESTS:

Identification, characterization and molecular cloning of allergens (including food and pollen allergens) for diagnostic and immunotherapy.

TECHNICAL EXPERTISE:

Protein Analysis Techniques:

Western Blot Analysis, Dot Immunoblotting, Immunoprecipitation, ELISA, SRID, Immunoturbidimetry, Agglutination, Immunofluorescence, Bradford, Immunohistochemistry, Immunocytochemistry, SDS-PAGE, Agarose Gel electrophoresis, immunoinhibition, Immunoelectrophoresis, Cellulose, Acetate Electrophoresis,

Protein purification Techniques

Chromatography (Laboratory and Semi industrial Scale):

Affinity chromatography, immunoaffinity chromatography, Ion Exchange chromatography, Gel Filtration chromatography

Precipitation: Ammonium Sulfate, PEG, Ethanol

FPLC & HPLC and Ultrafiltration

Molecular Biology

PCR, DNA extraction, RNA extraction, CDNA preparation, TA cloning, protein cloning and expression in E. coli, protein cloning and expression in Pichia pastoris,

Additional Techniques:

Polyclonal Antibody Production and Characterization

Monoclonal Antibody production and Characterization

Pollen's allergen extraction

Tissue Culture

Freeze drying

Animal Handling and Surgery

Thin Layer Chromatography

Clinical Diagnostic Laboratory Techniques