

## CURRICULUM VITAE:



### I. PERSONAL INFORMATION

**Surname :** Ghaffarifar

**First Name :** Fatemeh

**Gender:** Female

**Nationality :** Iranian

**Place of Birth :** Abadan, Iran

**Languages :** Persian, English, Arabic

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### II. EDUCATION RECORDS

Bachelor in Public health	Tehran University	1987-1990
MSc. in Medical Parasitology	Tarbiat Modarres University	1991 - 1994
Ph.D in Medical Parasitology	Tarbiat Modarres University	1995 - 2000

1. On-going research grants

Cloning and Expression of LACK and KMPII genes of *Leishmania major*(MHRO/IR/75/ER) in CHO cells and evaluation of immunity of inserted plasmid and IL-12 in BALB/c mice.

2. Completed research grants

Immunogenicity evaluation survival assay induced by DNA vaccine cocktail expressing rhoptry protein 2( ROP2) , surface antigen1 (SAG1), and dense granule antigens, GRA4, GRA5 and GRA7 genes of *Toxoplasma gondii* in BALB/c mice.

Replication of *Toxoplasma gondii*(RH Strain) in HeLa and Vero Cell Culture.

Expression of Rhoptry Protein 1 (ROP1) *Toxoplasma gondii* in Prokaryote System.

Evaluation of sensitivity and specificity of nucleic acid sequence-based amplification (NASBA) for diagnosis of cutaneous leishmaniasis.

3. Postgraduate students 30

4. Current postgraduate students 7

<b>Educational Level</b>	<b>Title of Thesis and Dissertation</b>
<b>MSc</b>	Evaluation of intestinal parasitic disease in pregnant women, and effect of parasitic infection on mothers and new- borns.
<b>PhD</b>	Evaluation of the role of hydatid antigenic fractions in cell mediated immunity(CMI) stimulation and cytokine production in hydatid patients.

**Techniques:**

I have been working with the following field and laboratory techniques:

- 1- Parasites culture
- 2-Cell culture
- 3- Blotting techniques
- 4-PCR
- 5-ELISA
- 6-Cell mediated immunity
- 7-Cytokine Assay
- 8-Cloning
- 9-Recombinant Antigen Expression
- 10-DNA vaccine in animal models
- 11-Drug assay

### **III. ACADEMIC EXPERIENCES**

Assistant Professor	Tarbiat Modarres University	2000 – 2007
Associated Professor	Tarbiat Modarres University	2007-2013
Professor	Tarbiat Modarres University	2013-present

**I was the head of Parasitology Department in the period of 2003-2006.**

### **IV. MEMBERSHIP OF SCIENTIFIC SOCIETIES**

- 1- Member of Iranian Parasitology Society.
- 2- Member of Iranian Red Crescent Society.
- 3-Member of Malaysian Society of Parasitology
- 4- PhD Thesis Examiners, Department of Parasitology, University of Veterinary & Animal Sciences, Lahore , Pakistan .
- 5- Collaborating with College of Medical and Health Technology, Department of Public Health, Baghdad, Iraq.

### **V. RESEARCH INTEREST**

- 1- Immunoparasitology.
- 2- Molecular parasitology
- 3- Photodynamic Therapy
- 4- Treatment of parasitic infection
- 5- DNA vaccine

## REFEREE OF JOURNALS

- 1-Vaccine
- 2- Expert Reviews of vaccine
- 3-Modarres Journal of Medical Sciences
- 4-Pajouhesh-va-Sazandegi
- 5-Iranian Journal of Parasitology
- 6-Yakhte
- 7-Iranian Journal of Biotechnology
- 8- Journal of Archive Razi
- 9-African Journal of Biotechnology
- 10- Indian journal of Dermatology, Venerology and Leprology

### **Invention:**

Application of Photodynamic therapy for treatment cutaneous leishmaniasis.

### **Awards:**

- 1) As the first prize in the category of treatment of infectious disease for work entitle: Effect of herbal drug, Peganum harmala and Alkanna tincturia on Leishmania sore in Balb/C mice. In 21<sup>st</sup> Century Bio-Award-2007 for young Scientists.
- 2) As the third prize in the category of treatment of infectious disease for work entitle: The effect of Betamethazone and IFN-gamma on replication of Toxoplasma gondii (RH strain ) and nitric oxide production in HeLa cell culture. In 21<sup>st</sup> Century Bio-Award-2007 for young Scientists.
- 3) The 6<sup>th</sup> prize of Jashnvareh Razi in New Technology field. 2012.

## VI. JOURNAL PAPERS

- 1- Dalimi A. and **Ghaffarifar F.** A study on Giardiasis in pregnancy. Medical Journal of the Islamic Republic of Iran. Vol 10, 1997. No 4 , P.267-269.
- 2- **Ghaffarifar F.**, Dalimi A. and Zavarani Hosseini A. A simple method for preparation of hydatid cyst B-group antigens. Modarres. Journal of Medical Sciences. 2001. 3(2):115-120 ( In persian).
- 3- Dalimi A., Motamedi Gh., Hosseini M., Mohammadian B., Malaki H., Ghamari Z. and **Ghaffarifar F.** Echinococcosis / hydatidosis in western Iran. Veterinary Parasitology, 2002. 105(2): 161-171.

- 4- **Ghaffarifar F.**, Dalimi A. and Zavarani Hosseini A. Evaluation of B-group antigens for the diagnosis of human hydatidosis in ELISA. *Pajoohesh & Sazandegi* , 2000. 45: 83-85.
- 5- **Ghaffarifar F.**, Jalosian F. and Dalimi A. Evaluation of DIG-ELISA test for diagnosis of human hydatidosis. *Modarres Journal of Medical Science*. 2001. Vol 4(2) :145-155.
- 6- Solhjo K., Dalimi A. and **Ghaffarifar F.** Evaluation of DIG-ELISA for diagnosis of Toxoplasmosis in Rat. *Pajoohesh & Sazandegi* , 55: 60-64.
- 7- Dalimi A., Solhjo K. and **Ghaffarifar F.** Comparison the sensitivity of ELISA and DOG-ELISA for serodiagnosis of human Toxoplasmosis. *Scientific Journal of Hamadan University of Medical Science and Health Services*. Vol. 10(1) :25-29.
- 8- Shahbazi F., Dalimi A. and **Ghaffarifar F.** "Comparison of protoscolex hooks of hydatid cyst resolved from sheep, cow, camel and human in Esfahan". *Pajoohesh & Sazandegi* , Vol. 54: 78-81.
- 9- Fatahi A., Zavarani A., Dalimi A., Mahmoodzadeh A. **Ghaffarifar F.**, "Purification and structural characterization of the major glycoconjugate from *Leishmania major*, *Journal of Shahid Sadoughi Medical science University of Yazd*. 2003.11(2) :60-66.
- 10- **Ghaffarifar F.**, Dalimi A. and Zavarani Hosseini A. Jalosian F., Evaluation of produced antibody against hydatid cyst by immunoblotting. *Journal of Shahid Sadoughi Medical science University of Yazd*. 2004.12(2):33-37.
- 11- Tabatabaie F., **Ghaffarifar F.**, Dalimi Asl A., Ebrahimian H., Effect of herbal drug, *Peganum harmala* and *Alkanna tinctoria* on *Leishmania* sore in Balb/C mice. *Journal of Daneshvar*.
- 12- Aflaki A., **Ghaffarifar F.**, Dalimi Asl A., "Seroepidemiological survey of hydatidosis by Dot- ELISA in Ilam province" *Journal of Medical science of Modarres*.
- 13- Abdollah Poor M., **Ghaffarifar F.** , Dalimi A. and Zavarani A. Solhjoo K., Ghasemi N. S. "Effect of vitamin D3 and INF $\gamma$  on proliferation of *Toxoplasma gondii* and NO production in Balb/c macrophages" *Journal of Medical science of Mazandaran University*.
- 14- Tabatabaie F., Ghaffarifar, F., Dalimi A., A study on effect of some herbal drugs on sore and progressive forms of leishmaniasis in BALB/c mice infected experimentally with *Leishmania major*. *Medical Daneshvar J*. 2005. 57:37-46.
- 15- **Ghaffarifar F.**, Jorjani O., Mirshams M., Miranbeigi M. H., Hosseini Z., "Photodynamic therapy as a new method for the treatment of cutaneous

- leishmaniasis” eastern Mediterranean Health Journal. 2006.Vol. 12, No 6 p:902-908,
- 16- Khademi R., **Ghaffarifar F.**, Dalimi A. A., “ In vitro effect of Folic acid and cobalamin ( vitamin B12 ) on adhesion and growth of Giardia lamblia” Iranian Journal of Parasitology, Vol 1. No 1 , 2006, pp: 47-52.
- 17- Solhjoo, K., **Ghaffari far, F.**, Dalimi, A. and Sharifi, Z. “ Enhancement of antibody immune response to a Toxoplasma gondii SAG1-encoded DNA vaccine by formulation with aluminium phosphate. Journal of Medical Sciences. Vol 7, No 3, 2007, pp: 361-367.
- 18- Solhjoo, K., **Ghaffari far, F.**, Dalimi, A. and Sharifi, Z. Cloning and Sequencing of *Toxoplasma gondii* Major Surface Antigen (SAG1) gene. Journal of Archive Razi. (2006) Vol: 61(2), 73-79.
- 17- Hosseinian Khosroshahi K., **Ghaffarifar F.**, Sharifi Z., Dalimi Asl A., Solhjoo K. Cloning and transformation of Toxoplasma gondii surface antigen 1 (SAG1) in E.coli (TG1 & DH5A). J. Iran University of Medical Sciences. 2006. 13(53):73-81.
- 18- Sadraei J, Jabaraei, F **Ghaffarifar**, AH Dalimi, SM Nikbakhtzadeh Vitamin B12 and Serum Mineral Levels in Children with Enterobius vermicularis Infection, Iranian J Parasitol: Vol.2, No.1, 2007, pp. 35-38
- 19- Jalousian Fatemeh, Dalimi Abdolhossein, Mirab Samiee Siamak, **Ghaffarifar** Fatemeh, Soleymanloo Faramarz and Naghizadeh Ramin, Application of Real-Time PCR for Detection of *pfcr1* Single Nucleotide Polymorphisms in *Plasmodium falciparum* in Southeast Iran, Journal of Medical Sciences - 2007 12-JMS-DOI.
- 20- Askari F., **Ghaffarifar F.**, Dalimi A.A., Haghi-Ashtiani M.T., Delavari M., “Study on variation of the sera folic acid, vitamin B12 and iron level in the 6-12 years old patients infected with Giardia lamblia in South Tehran” Iran J Pediatr 2007, Vol:17(2) 149-154.
- 21- Zare F., Dalimi-Asl A., **Ghaffarifar F.**, “ detection of active Toxoplasma gondii (RH strain) in the different body tissues of experimentally infected rats” Modares Journal of Medical Sciences 2006, Vol: 9(1) 19-23.
- 22- Safar-Harandi M. M., Dalimi-Asl A., **Ghaffarifar F.**, “In vitro and in-vivo effects of garlic (*Allium sativum*) extract on Giardia lamblia and Giardia muri. 2006. Hakim, Vol 9(3)58-64.
- 23- Marofi Y., Dalimi-Asl A., **Ghaffarifar F.**, Khoshzaban F., Delavari M., “ Effect of adding monosaccharides on the virulence of Acanthamoeba pathogenicity isolates from patients with amoebic keratitis in the HeLa cell culture. . Scientific Journal of Hamadan University of Medical Science and Health Services. 2007. Vol: 14(1) 17-21.

- 24- Tabatabaie F., **Ghaffarifar F.**, Dalimi Asl A., Sharifi Z., Zuhair M Hassan, "Enhancement of cellular and antibody immune responses to Leishmania major TSA-encoded DNA vaccine following immunization and after challenging with Leishmania major" Biochem Cell Arch. 2008 vol 8(1) pp.35-43.
- 25- Tabatabaie F., **Ghaffarifar F.**, Dalimi Asl A., Sharifi Z., Zavarani Hosseini A. "Cloning and sequencing of Leishmania major Thiol-Specific-Antioxidant Antigen (TSA) Gene" Iranian Journal of Parasitology Vol 2 (4) 2007 pp.29-42.
- 26- Delavari M., Dalimi Asl A., **Ghaffarifar F.**, Khoshzaban F., Maroufi Y. "A study on the effect of Propamidin isethionate and Polymixin B on Acanthamoeba isolated from patients infected with acanthamoeba keratitis in HeLa cell culture" Daneshvar (2007) vol 14(70) pp. 27-32.
- 27- Arshad M., Dalimi Asl A., **Ghaffarifar F.** "Comparative study on sarcocystis in meat of slaughtered sheep in Tabriz" Pajoohesh & Sazandegi ,(2007) vol 75 pp.68-72.
- 28- **Ghaffarifar F.**, Dalimi Asl A., Sharifi Z., Solhjoo, K., Ghasemi Nikou S., Roudbar Mohammadi Sh. "The effect of Betamethazone and IFN-gamma on replication of Toxoplasma gondii (RH strain ) and nitric oxide production in HeLa cell culture. Iranian journal of Allergy Asthma and Immunology (2006) vol 5(2) pp. 75-78.
- 29- Edalatzadeh M, Dalimi Asl A., **Ghaffarifar F.** Sayad B., "Evaluation of Blood and liver factors in patients with fascioliasis after treatment with Triclabendazole. Scientific Journal of Hamadan University of Medical Science and Health Services. (2006) Vol:13(2) pp.29-35.
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- 31- Jalousian Fatemeh, Dalimi Abdolhossein, Mirab Samiee Siamak, **Ghaffarifar Fatemeh**, Soleymanloo Faramarz and Naghizadeh Ramin, Evaluation of *pfprt* Single Nucleotide Polymorphisms in *Plasmodium falciparum* in Southeast Iran. Modares journal in Medical Sciences. 2009. 11(3): 41-48.
- 32- Roudbar Mohammadi Sh., Zavarani Hoseini A., Khosravi A., Yadegari M.H., Shokpuh Amiri M., **Ghaffarifar F.**, "Immunologic evaluation of the effect of catalase and conidia of Aspergillus fumigatus on nitric oxide production by murine monocytes" 2007 Kousar j., Vol: 12(3) p 307-312.
- 33- Jalousian Fatemeh, Abdolhossein Dalimi, Siamak Mirab Samiee, Fatemeh **Ghaffarifar**, Faramarz Soleymanloo, Ramin Naghizadeh Mutation in *pfmdr1* gene in chloroquine-resistant Plasmodium falciparum isolates, Southeast Iran. International journal of infectious diseases. 2008. 12(6):567-574.

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- 35- Jalousian Fatemeh, Dalimi Abdolhossein, Mirab Samiee Siamak, **Ghaffarifar** Fatemeh, Soleymanloo Faramarz and Naghizadeh Ramin. Application of Real-Time PCR for Detection of *pfcr1* Single Nucleotide Polymorphisms in *Plasmodium falciparum* in Southeast Iran. *Journal of Medical Sciences* 7 (7): 1082-1087, 2007.
- 36- Hosseinian Khosroshahi K., F. **Ghaffarifar**, Z. Sharifi, A. Dalimi, Expression of complete rhoptry protein 2 (ROP2) gene of *Toxoplasma gondii* in eukaryotic cell. *African Journal of Biotechnology* Vol. 7 (24), pp. 4432–4436, 17 December 2008.
- 37- khoshzaban F., Ghazanfari T., **Ghaffarifar** F. Sharafi M., Ghasemi Nikoo. S., “The effect of garlic on Acute toxoplasmosis in mice” *Journal of research in medicine plants*. 2007. 23(3):295-306.
- 38- Al-Kawaz E., **Ghaffarifar** F., Evaluation of Schistosoma haematobium Adult and egg antigen by ELISA in diagnosis of urinary schistosomiasis. *Iranian Journal of Parasitology*.2009, 4(4): 55-60.
- 39- **Ghaffarifar** Fatemeh., Leishmania major: In vitro and invivo antileishmanial effect of cantharidin. *Experimental Parasitology*. 2010, 126:126-129.
- 40- Eslamirad Z., Dalimi A., **Ghaffarifar** F., Sharifi Z., Cloning rhoptry protein 1 gene of *Toxoplasma gondii*(RH) in expression vector. *Archives of Razi Institute*. 2008, 63(2): 11-17.
- 41- Tabatabaai, F., **Ghaffarifar**, F., Dalimi A., Sharifi Z. A Survey on the Effects of Leishmania Major TSA -Encoded DNA Vaccine Against Experimental Leishmaniasis in BALB/c Mice . *International Journal of Infectious Diseases*, Volume 12, Supplement 1, December 2008, 12(1): 374-375.
- 42- Yousefi R., **Ghaffarifar** F., Dalimi A. **The Effect of *Alkanna tinctoria* and *Peganum harmala* Extracts on *Leishmania major* (MRHO/IR/75/ER) in vitro.** *Iranian J Parasitol*. 4(1): 45-52.
- 43- **Ghaffarifar** F. Abdolah Poor M., Sharifi Z. , Dalimi A. Al-Kawaz E., The Effect of Vitamin D3 Alone and Mixed With IFN- $\gamma$  on Tachyzoites of *Toxoplasma gondii* (RH Strain) Proliferation and Nitric Oxide (NO) Production in Infected Macrophages of BALB/C Mice. *Iranian J Parasitol: Vol. 5, No.3, 2010, pp. 48-56.*
- 44- Seyyed –Tabaei, S. J., Dalimi A., Kazemi, B., Sadraii, J., **Ghaffarifar**, F. The production of molecular clones of *Toxoplasma gondii*-drived heat shock protein 70



- kDa. International Journal of Veterinary Research. 2010. 4(1): 41-44.
- 45- Hoseinian Khosroshahi, K., **Ghaffarifar** F., D'Souza S., Sharifi, Z., Dalimi. A. Evaluation of the immune response induced by DNA vaccine cocktail expressing complete SAG1 and ROP2 genes against *Toxoplasma gondii*. 2011. *Vaccine*. 29:778-783.
- 46- Tabatabaie, F., **Ghaffarifar**, F., Dalimi A., Sharifi Z. A Survey on the Effects of Leishmania Major TSA -Encoded DNA Vaccine Against Experimental Leishmaniasis in BALB/c Mice . *International Journal of Infectious Diseases*, Volume 12, Supplement 1, December 2008, 12(1): 374-375.
- 47- **Ghaffarifar**, F., Rahmah N., Sharifi Z., Dalimi A., Roudbar Mohammadi Sh., Ghasemi, S. Cloning and sequencing of Granular antigen 7 of *Toxoplasma gondii*. . *Modarres Journal of Medical Science*. 2008. 11(3): 73-80.
- 48- Roudbar Mohammadi Sh., Khosravi A., Sasani F., Dalimi A., **Ghaffarifar**, F., Katiraii F., Banasadeh S. Evaluation of immunization and immunosuppression on Experimental sporothricosis lesions. *Pajooheh & Sazandegi*. 2007. 79:108-114.
- 49- Jorjani O., **Ghaffarifar** F., Sharifi Z., Dalimi A., Massan, Z. M., Cloning and sequencing of Leishmania homologue of receptors for activated C kinase (LACK) of Iranian strain of *Leishmania major*. *Modarres Journal of Medical Science*. 2008. 11(3): 19-30.
- 50- Khoshzaban F., **Ghaffarifar** F., Sharafi, Ghasemi S. Evaluation of Peganum harmala effect on acute toxoplasmosis in mice. *Medical Daneshvar Journal*. 2008. 75: 27-36.
- 51- Dalimi A., Shirbazou Sh., **Ghaffarifar** F., Khosroshahi K., Jorjani O., Sharifi Z., Hosseinzadeh N. Molecular diagnosis of *Trichomonas vaginalis* by using PCR for 18SrRNA. 2008. *Kousar Med. j.* 13(3): 179-183.
- 52- Norouzi R., Dalimi A., Foruzandeh M., **Ghaffarifar** F. Application of PCR-ELISA method based on RE domain for diagnosis of toxoplasmosis in experimentally infected rat (*Rattus norvegicus*). *Modarres Journal of Medical Science*. 2008. 11(1-2):99-107.
- 53- Dalimi A., Jalousian F., Tahvildari F., **Ghaffarifar** F. Identification of *Sarcocystis gigantean* by PCR-RFLP. *J. Vet. Res.* 64(5): 459-462.
- 54- Shirbazou S. Dalimi A., Foruzandeh M., **Ghaffarifar** F. Standardization of NASBA method by using 18s rRNA gene for identification of *Leishmania major* parasite. 2009. *Kousar Med. j.* 14(3):137-142.
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- characterization of *Toxoplasma gondii* granular antigen 4 gene expression in eukaryotic plasmid pcDNA3. *Medical Daneshvar Journal*. 2010. 85:1-9.
- 56- Yousefi R., **Ghaffarifar F.**, Dalimi A. The effect of *Alkanna tinctoria* and *Peganum harmala* extraction on *Leishmania major* (MRHO/IR/75/ER) *in vitro*. *Iranian Journal of Parasitology*. 2009. 4(1): 40-47.
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non-genetic adjuvant on the efficiency of the cocktail DNA vaccine containing plasmids encoding SAG-1 and ROP-2 of *Toxoplasma gondii*. *Parasitol Res* (2012) 111:403–411.

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**MOLECULAR DETECTION OF *CRYPTOSPORIDIUM SP* IN HUMAN AND CATTLE FECES USING HSP 70 GENE.** XIIth International Congress of Parasitology. Melbourne, Australia. 2010.

#### **IX. TEACHING EXPERIENCE**

I have been engaged in teaching Medical Helminthology , Immunoparasitology, Parasitic culture media ,and training in Helminthology and Protozoology for MSc course.

Application of Immunology and serology in parasitology, Taxonomy of parasites and advance helminthology for Ph.D course.