

In the name of God

Curriculum Vitae

Personal Information

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Education

1) 2013-2019: Ph.D in Medical Parasitology, Department of Parasitology and Mycology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

2) 2008-2011: MSc. in Medical Parasitology, Department of Parasitology and Mycology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

3) 2004-2006: BSc. in Medical Laboratory Sciences, Tehran University of Medical Sciences, Tehran, Iran.

Professional Experiences

1998-2008: Medical laboratory technician in several laboratories.

2008-2019: Student and researcher in department of parasitology and mycology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Practical Skills

1. Laboratory skills

- ☐ Parasitological methods for parasites diagnosis
- ☐ Molecular methods (standard PCR, RT-PCR, Real-time PCR, Nested and semi-Nested PCR, RFLP, primer designing, blasting, gene sequence analysis)
- ☐ DNA extraction, RNA extraction, cDNA synthesis
- ☐ Cloning using restriction enzymes
- ☐ Culture, passage and maintenance of *Leishmania major*
- ☐ Primary and lined cell culture
- ☐ miRNAs detection
- ☐ miRNAs and Gene expression (*in vitro* studies)
- ☐ Culture, passage of Free-living amoeba
- ☐ Protein analysis (SDS-PAGE, ELISA)
- ☐ Animal experimentation with mouse i.g. BALB/c
- ☐ Cytokine assay (*in vitro* studies)

2. Informatics

Working with the following software programs:

Primer designing and programs such as: Primer Blast using NCBI, Oligo7, Clustal W

Gene expression software such as: REST

Statistical software such as: SPSS, Graph Pad Prism

Office Package (Word, Excel, Powerpoint)

Honors, Prizes and Awards

- The Top Student with 1st rank in MSc. Degree, 2011
- The Top Student with 1st rank in Ph.D Degree, 2019

Teaching Experiences (practical)

For PhD and MS.c students at Shahid Beheshti Medical University, Tehran, Iran:

- 1- Isolation and culture of Free-living amoeba (*Acanthamoeba*)
- 2- In vitro protoscolex culture
- 3- Drug resistance in malaria using *plasmodium berghei*
- 4- Molecular methods (DNA extraction, PCR technique)
- 5- Isolation and maintenance of intestinal protozoa (Axenic culture)
- 6- Intestinal Coccidia staining methods
- 7- Detection of protozoa using serology assay (IFAT)
- 8- Protein analysis (SDS-PAGE)
- 9- Isolation of *Leishmania major* from liver, spleen of mice and parasite culture

Workshop Instructor (practical)

- ☐ Free-living Amoeba workshops held by Department of Parasitology and Mycology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- ☐ PCR workshop held by Department of Parasitology and Mycology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Postgraduate workshops

- 1) PCR workshop**, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 2) Real-Time PCR workshop**, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 3) Cell Culture Methods**, Ebne-Sina Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 4) Leishmania and leishmaniasis workshop**, Pasteur Institute of Iran, Tehran, Iran
- 5) Scientific Writing Methods**, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Scientific Interests

- Study on host-pathogen interactions
- ☐ Study on vaccine for Leishmaniasis and malarious
- ☐ Cell-Molecular biology
- ☐ Cellular-Molecular parasitology
- ☐ New methods of treatment of important human diseases
- ☐ miRNAs and their potential therapeutic applications
- ☐ Cancer research with focusing cancer signaling pathways
- ☐ Gene and Cell therapy

Scientific Activities

- Member of Iranian Society of Parasitology
- Member of executive committee of 3th congress of new laboratory technologies
- Member of executive committee of 4th congress of laboratory and clinic
- Member of executive committee of 3th congress of Brucellosis
- Member of executive committee of the congress of AIDS
- Member of executive committee of 4th congress of Brucellosis
- Member of executive committee of 3th Seminar of infection in transplantation and cancer

Collaborator of projects

- 1- Investigation of contamination of drinking water in water storage tanks by pathogenic amoebae in Kish Island.(Shahid Beheshti University of Medical Sciences, Tehran, Iran).
- 2- Evaluation of multiplex Real-Time PCR in the detection of *Giardia lamblia* and *Cryptosporidium* in the fecal samples of patients with gastrointestinal disorders.
- 3- Detection and differentiation of *Entamoeba histolytica*, *Entamoeba dispar* and *Entamoeba Moskowsky* in stool specimens using Real-Time PCR.
- 4- Application of LAMP-Based Isothermal Proliferation and Comparison with Nested-PCR in Diagnosis of Toxoplasmosis.
- 5- Identification of Acanthamoeba Bacterial Endo-symbionts Isolated from Water Resources.
- 6- Isolation, genotyping and pathogenic study of Acanthamoeba genus isolated from healthy individuals.

- 7- Investigation of contamination of drinking and purified water of Ahwaz city with free amoebae and its species determination.
- 8- Isolation and molecular characterization of free-living amoeba isolated from water sources (drinking water, pool water and stagnant water) and soil of Pakdasht County, Tehran Province.
- 9- Isolation and molecular identification of pathogen free-living amoeba from the mucosa of dialysis patients in selected hospitals of Tehran in 1995.
- 10- Frequency and morphological and molecular identification of free living amoebae isolated from nasal mucosa of HIV patients admitted in selected hospital of Tehran, 2017-2018.
- 11- Frequency and molecular identification of *Acanthamoeba* and *Balamuthia* in cardiac transplant patients in Rajaee hospital in Tehran in 1398.
- 12- Isolation and molecular Identification of *Vermamba Vermiformis* from Environmental Resources in Arak 96-97.
- 13- Evaluation of miR-27a expression on TGF β inhibition and its effect on inflammatory responses in macrophages infected with *Leishmania major*.
- 14- Evaluation the effect of synthetic miRNA inhibitor of IL-10 and TGF- β on *Leishmania major* infected macrophages.

Publications

- 1- **Zohreh Lasjerdi**, Maryam Niyyati, Ali Haghighi, Saed Shahabi, Farid Tahvildar-biderouni, Niloofar Taghipour, Mohammad Eftekhar, Ehsan Nazemalhosseini Mojarad. **Potentially pathogenic Free-living amoebae isolated from hospital wards with immunodeficient patients in Tehran, Iran.** Parasitol Res. 2011 Sep;109(3):575-80.
- 2- **Zohreh Lasjerdi**, Maryam Niyyati, Ali Haghighi, Farid Zaeri, Ehsan Nazemalhosseini Mojarad. **First report of Vannellidae amoebae (*Vannella spp*) isolated from biofilm source in a hospital ward in Tehran, Iran.** Iran J Parasitol. 2011 Dec;6(4):84-9.
- 3- **Zohreh Lasjerdi**, Maryam Niyyati, Jacob Lorenzo Morales, Ali Haghighi, Niloofar Taghipour. **Ophthalmology Hospital Wards contamination to Pathogenic Free Living Amoebae in Iran: a serious health hazard.** Acta Parasitol. 2015 Sep; 60(3):417-22.
- 4- M Niyyati, **Z Lasjerdi**, M Nazar, A Haghighi, E Nazemalhosseini Mojarad . **Screening of recreational areas of rivers for potential pathogenic *Acanthamoeba* and**

- Naegleria spp* in the suburbs of Tehran, Iran. J Water Health. 2012 Mar; 10(1):140-6.
- 5- Fallahi S, Kazemi B, Seyyed Tabaei SJ, Bandehpour M, **Lasjerdi Z**, Taghipour N, Zebardast N, Nikmanesh B, Omrani VF, Ebrahimzadeh F. **Comparison of the RE and B1 gene for detection of *Toxoplasma gondii* infection in children with cancer.** Parasitol Int. 2014 Feb;63(1):37-41.
 - 6- Maryam Niyyati, Firooze Rahimi, **Zohreh Lasjerdi**, Mostafa Rezaian. **Potentially pathogenic Free-living amoebae in contact lenses of the asymptomatic contact lens wearers.** Iran J Parasitol. 2014 Mar;9(1):14-9.
 - 7- Nozhat Zebardast, Ali Haghighi, Farshid Yeganeh, Seyyed Javad Seyyedtabaei, **Zohreh Lasjerdi**, Nilufar Taghipour. **Application of multiplex PCR for detection and differentiation of *Entamoeba histolytica*, *Endameba dispar* and *Endameba moshkovskii*.** Iran J Parasitol. 2014 Oct-Dec;9(4):466-73.
 - 8- Fatemeh Memari, maryam niyyati, Ali Haghighi, Seyyed Javad Seyyed Tabaei, **Zohreh Lasjerdi**. **Occurrence of pathogenic *Acanthamoeba* genotypes in nasal swabs of cancer patients in Iran.** Parasitol Res. 2015 May;114(5):1907-12.
 - 9- Maryam Niyyati, **Zohreh Lasjerdi**, Jacob Lorenzo-Morales. **Detection and Molecular Characterization of Potentially Pathogenic Free-living Amoebae from Water Sources in Kish Island, Southern Iran.** Microbiol Insights. 2015 Apr 9;8(Suppl 1):1-6.
 - 10- Ali Rostami, Masoud Mozafari, Mazaher Gholipourmalekabadi, Hector Hugo Caicedo, **Zohreh Lasjerdi**, Marzieh Sameni, Ali Samadikuchaksaraei. **Optimization of fluoride-containing bioactive glasses as a novel scolicidal agent adjunct to hydatid surgery.** Acta Trop. 2015 Aug;148:105-14.
 - 11- Hamed Behniafar, Maryam Niyyati and **Zohreh Lasjerdi**. **Molecular Characterization of Pathogenic *Acanthamoeba* Isolated from Drinking and Recreational water in East Azerbaijan, Northwest Iran.** Environ Health Insights. 2015 Jun 29;9:7-12.
 - 12- Niyyati M, Karamati SA, Lorenzo Morales J, **Lasjerdi Z**. **Isolation of *Balamuthia mandrillaris* from soil samples in North-Western Iran.** Parasitol Res. 2016 Feb;115(2):541-5.
 - 13- Maryam niyyati, **zohreh lasjerdi**, saeed zarein-dolab, Nazar M, hamed behniafar, mohammad reza mahmoudi, ehsan nazemalhosseini mojarad. **Morphological and**

- Molecular Survey of *Naegleria* spp. in Water Bodies Used for Recreational Purposes in Rasht city, Northern Iran.** Iran J Parasitol. 2015 Oct-Dec;10(4):523-9.
- 14- Latifi AR, Niyyati M, Lorenzo-Morales J, Haghighi A, Seyyed Tabaei SJ, **Lasjerdi Z.** **Presence of *Balamuthia mandrillaris* in hot springs from Mazandaran province, northern Iran.** Epidemiol Infect. 2016 Aug;144(11):2456-61.
 - 15- Niyyati M, Saberi R, Latifi A, **Lasjerdi Z.** **Distribution of *Acanthamoeba* Genotypes Isolated from Recreational and Therapeutic Geothermal Water Sources in Southwestern Iran.** Environ Health Insights. 2016 Apr 19;10:69-74.
 - 16- Alireza Latifi, Maryam Niyyati¹, Naser Valayi, **Zohreh Lasjerdi.** **Frequency survey of Free-living amoebae isolated from improved hot springs of Mazandaran Province, 2014.** Research in Medicine 2015, 38(4): 214-220.
 - 17- Hamed Behniafar, Maryam Niyyati¹, **Zohreh Lasjerdi**, Samira Dodangheh. **High Occurrence of Potentially Pathogenic Free- living amoebae in Water Bodies of Kaleybar and Khodaafarin, East Azerbaijan Province.** Current world environment DOI: <http://dx.doi.org/10.12944/CWE.10.Special-Issue1.87>.
 - 18- Ali rostami, seyyed javad seyyedtabaei, somayeh aghamolaie, hamed behniafar, **zohreh lasjerdi**, Alireza abdolrasouli, saeed mehravar, cosme alvarado-esquivel. **Seroprevalence and risk factors associated with *Toxoplasma gondii* infection among rural communities in northern Iran.** Rev Inst Med Trop Sao Paulo. 2016 Sep 22;58:70.
 - 19- Karamati SA, Niyyati M, Lorenzo-Morales J, **Lasjerdi Z.** **Isolation and molecular characterization of *Acanthamoeba* genotypes isolated from soil sources of public and recreational areas in Iran.** Acta Parasitol. 2016 Dec 1;61(4):784-789.
 - 20- Latifi AR, Niyyati M, Lorenzo-Morales J, Haghighi A, Tabaei SJ, **Lasjerdi Z**, Azargashb E. **Occurrence of *Naegleria* species in therapeutic geothermal water sources, Northern Iran.** Acta Parasitol. 2017 Mar 1;62(1):104-109.
 - 21- Javanmard E, Niyyati M, Lorenzo-Morales J, **Lasjerdi Z**, Behniafar H, Mirjalali H. **Molecular identification of waterborne free living amoebae (*Acanthamoeba*, *Naegleria* and *Vermamoeba*) isolated from municipal drinking water and environmental sources, Semnan province, north half of Iran.** Exp Parasitol. 2017 Dec;183:240-244.

- 22- Niyyati M, Arab-Mazar Z, **Lasjerdi Z**, Lorenzo-Morales J, Espotin A, Yadegarynia D, Gachkar L, Rahmati Roodsari S. **Molecular characterization of Acanthamoeba strains isolated from the oral cavity of hemodialysis patients in Iran.** Parasitol Res. 2017 Nov;116(11):2965-2969.
- 23- Moosazadeh Moghaddam M, Eftekhary M, Erfanimanesh S, Hashemi A, Fallah Omrani V, Farhadhosseiniabadi B' , **Lasjerdi Z**, Mossahebi-Mohammadi M, Pal Singh Chauhan N, Seifalian AM, Gholipourmalekabadi M. **Comparison of the antibacterial effects of a short cationic peptide and 1% silver bioactive glass against extensively drug-resistant bacteria, *Pseudomonas aeruginosa* and *Acinetobacter baumannii*, isolated from burn patients.** Amino Acids. 2018 Nov;50(11):1617-1628.
- 24- Niyyati M, Naghahi A, Behniafar H, **Lasjerdi Z**. **Occurrence of Free-living Amoebae in Nasal Swabs of Patients of Intensive Care Unit (ICU) and Critical Care Unit (CCU) and Their Surrounding Environments.** Iran J Public Health. 2018 Jun;47(6):908-913.
- 25- Latifi A, Niyyati M, Seyyed Tabaei SJ, Tahvildar Biderouni F, Haghighi A, **Lasjerdi Z**. **An Experimental Model of Primary Amoebic Meningoencephalitis Due to *Naegleria australiensis* in Iran.** Iran J Parasitol. 2018 Jul-Sep;13(3):369-372.
- 26- Arab-Mazar Z, Niyyati M' , **Lasjerdi Z**, Spotin A, Alavi Darzam I, Gachkar L. **Isolation, identification, and phylogenetic analysis of potentially pathogenic Free-living amoebae isolated from nasal and oral mucosa of HIV/AIDS patients in Iran.** Parasitol Res. 2019 Oct;118(10):3061-3066.
- 27- Pazoki H, Niyyati M, Javanmard E, **Lasjerdi Z**, Mirjalali H, Behravan MR. **Isolation and Phylogenetic Analysis of Free-Living Amoebae (*Acanthamoeba*, *Naegleria*, and *Vermamoeba*) in the Farmland Soils and Recreational Places in Iran.** Acta Parasitol. 2019 Sep 30.
- 28- **Zohreh Lasjerdi**, Hossein Ghanbarian , Samira Mohammadi Yeganeh, Seyyed Javad Seyyed Tabaei, Mehdi Mohebbi, Niloofar Taghipour, Ameneh Koochaki, Faezeh Hamidi, Mostafa Gholamrezaei, Ali Haghighi. **The Comparative expression profile analysis of apoptosis-related miRNA and its target gene in *Leishmania major*-infected macrophages.**

- 29- Sahar Ghodsian, Niloofar Taghipour, Niloofar Deravi, Hamed Behniafar, **Zohreh Lasjerdi**. **Recent researches in effective antileishmanial herbal compounds: narrative review.**
- 30- Pazoki H, Niyyati M, Javanmard E, **Lasjerdi Z**, Spotin A, Mirjalali H, Karanis P. **Isolation of *N. philippinensis* and *N. americana* strains from irrigation waters of farmland soils in Iran.** Environ Sci Pollut Res Int, 2020 Apr 28.
- 31- Pazoki H, Niyyati M, Javanmard E, **Lasjerdi Z**, Spotin A, Mirjalali H, Karanis P. **Isolation of *N. philippinensis* and *N. americana* strains from irrigation waters of farmland soils in Iran.**
- 32- M. Faraji, A. Maghsood, Sh. Fallahi, A. Chegeni Sharafi, A. Karimi, **Z. Lasjerdi**, M. Fallah **Frequency and Genotyping of Acanthamoeba Species in the Swimming Pools and Ponds of Khoramabad, Iran, in 2016.**
- 33- Mostafa Gholamrezaei, Mehdi Mohebali, Samira Mohammadi-Yeganeh, Mostafa Haji Molla Hoseini, Ali Haghighi, **Zohreh Lasjerdi**, Faezeh Hamidi, Mohammad Kazem Sharifi-Yazdi. **MicroRNAs Expression Induces Apoptosis of Macrophages in Response to Leishmania major (MRHO/IR/75/ER): An In- Vitro and In- Vivo Study.**
- 34- Faezeh Hamidi , Samira Mohammadi Yeganeh , Mostafa Haji Molla Hoseini , Seyyed Javad Seyyed Tabaei , Niloofar Taghipour , Zohreh Lasjerdi , Mostafa Gholamrezaei , Ali Haghighi. **Inhibition of anti-inflammatory cytokines, IL-10 and TGF- β , in *Leishmania major* infected macrophage by miRNAs: A new therapeutic modality against leishmaniasis.**

Conference abstracts/presentation

I published approx. 30 abstracts in both international and national conferences.

Language Skills

Persian: Native

English