

In The Name Of God

NAHID MASPI

E-Mail: nmaspi82@gmail.com

Education

September 2011–October 2015

Tarbiat Modares University, Faculty of Medicine

✦ Ph.D. in Medical Parasitology

September 2006– February 2009

Tarbiat Modares University, Faculty of Medicine

✦ Master of Science in Medical Parasitology

September 2004–July 2006

Hamadan University of Medical Science

✦ Bachelor of Science in Medical entomology

January 2002 – July 2004

Ilam University of Medical Sciences

✦ Associate's degree (Undergraduate degree) in Medical Laboratory Sciences

Teaching experience

Faculty member of Ilam University of Medical Sciences (September 2009– September 2011)

✦ Teaching of Medical Parasitology courses to Nursing and Medical Laboratory Science students

MS.c thesis title, Cloning and detection of GRA4 gene of *toxoplasma gondii* in eukaryotic expression vector pcDNA3.

Dissertation title, Immunization evaluation and efficacy of a DNA Vaccine candidate containing fusion of LeIF, LACK and TSA against cutaneous leishmaniasis due to *Leishmania major* in BALB/c mice

Publications

1. Nahid Maspi, Fatemeh Ghaffarifar , Zohreh Sharifi and Abdolhossein Dalimi. Co-delivery of DNA vaccination encoding LeIF gene and IL-12 increases protection against *Leishmania major* infection in BALB/c mice. Parasite immunology, 2016, 38, 228–235. DOI: 10.1111/pim.12310.

2. **Nahid Maspi***, Amir Abdoli and Fatemeh Ghaffarifar. Pro-and anti-inflammatory cytokines in cutaneous leishmaniasis: a review. *Pathogens and Global Health*, 2016, 110:6, 247-260, DOI: 10.1080/20477724.2016.1232042.
3. **Nahid Maspi**, Fatemeh Ghaffarifar, Zohreh Sharifi and Abdolhossein Dalimi, Mohammad Saaid Dayer. Immunogenicity and efficacy of bivalent DNA vaccine containing LeIF and TSA genes against murine cutaneous leishmaniasis. *APMIS journal*, 2017, 125(3): 249-258.
4. Amir Abdoli, **Nahid Maspi***, and Fatemeh Ghaffarifar. Wound healing in cutaneous leishmaniasis: a double edged sword of IL-10 and TGF- β . *Comparative Immunology, Microbiology & Infectious Diseases*. 2017, 51: 15–26.
5. **Nahid Maspi**, Fatemeh Ghaffarifar, Zohreh Sharifi and Abdolhossein Dalimi. Comparative assessment of induced immune responses following intramuscular immunization with fusion and cocktail of LeIF, LACK and TSA genes against cutaneous leishmaniasis in BALB/c mice. *Archivum Immunologiae et Therapiae Experimentalis*. 2018, 66(1): 55-64.
6. Amir Abdoli, **Nahid Maspi**. Commentary: Collaborators GDD. Estimates of global, regional, and national morbidity, mortality, and aetiologies of diarrhoeal diseases: a systematic analysis for the Global Burden of Disease Study 2015. *Frontiers in Medicine, Infectious Diseases – Surveillance, Prevention and Treatment*. 15 Jan 2018, 29:5:11. doi: 10.3389/fmed.2018.00011.
7. Marjaneh Aghdasi, Fatemeh Ghaffarifar, Fatemeh Forooghi, Abdolhossein Dalimi, Zohreh sharifi, **Nahid Maspi**. Expression of plasmid encoded GRA4 gene Of *Toxoplasma gondii* RH strain in CHO eukaryotic cells. *Iranian Journal of Parasitology*. 2018,13(3):292-298.
8. **Nahid Maspi**, Fatemeh Ghaffarifar, Zohreh Sharifi , Abdolhossein Dalimi and Seyedeh Zahra KHADEMI. DNA based vaccination with a plasmid encoding LACK - TSA fusion against *Leishmania major* infection in BALB/c mice. *Malaysian Journal of Pathology*. 2017; 39(3): 267 – 275.
9. Amir Abdoli*, **Nahid Maspi***, Fatemeh Ghaffarifar1 and Vahid Nasiri. Viscerotropic leishmaniasis: a systematic review of the case reports to highlight spectrum of the infection in endemic countries. *Parasitology Open*, 2018, 4, e11, 1–14. DOI: 10.1017/pao.2018.9

10. Nahid Maspi, Fatemeh Ghaffarifar, Zohreh Sharifi and Abdolhossein Dalimi. Cloning and constructing a plasmid encoding LeIF gene of *Leishmania major* fused with GFP gene as a vaccine candidate. West Indian medical journal, 2015, 65 (6) 256-259. DOI: 10.7727/wimj.2014.201.

11. Nahid Maspi, Fatemeh Ghaffarifar, Zohreh Sharifi and Abdolhossein Dalimi. Cloning and detection of GRA4 gene of *Toxoplasma gondii* in eukaryotic expression vector pcDNA3. journal of Daneshvar.2010, 18(85)1-8(Persian)

12. Nahid Maspi, Fatemeh Ghaffarifar, Ali Mohamad Bahrami, Sayad Bastaminezhad and Morteza Shamsi. Evaluation of Leishmanicidal Effect of Watery & Ethanolic Flowers *Calendula officinalis* Extract on Promastigotes of *Leishmania Major* (MRHO/IR/75/ER) in Vitro. Scientific Journal of Ilam University of Medical Sciences.2010, 18 (1): 28-33 (Persian).

13. Ali Mohammad Bahrami , Afra Khosravi , **Nahid Maspi**. Effects of Drug Combined of Black and White Alum on Cutaneous Leishmaniasis Lesion. Scientific Journal of Ilam University of Medical Sciences.2010, 17 (4): 53-60 (Persian).

14. Asad Mirzaei, Maryam Maleki, Elham Masoumi, **Nahid Maspi***. A historical review of the role of cytokines involved in leishmaniasis. Cytokine. 2020, in press.

15. Aram Mohamadian, Asad Mirzaei, Naser Abbasi, Razi Naserifar, Jalil Feizi, Parviz Karimi, Ali Khorshidi, **Nahid Maspi** and Jahangir Abdi. Efficacy of *Capparis spinosa* linn leaf and fruit extracts on *Giardia lamblia* cysts In vitro. Journal of Pharmaceutical Research International. 2021, 33(29A): 224-230.

16. Mohammad Karimi, Razi Naserifar, Naser Abbasi, Jahangir Abdi, **Nahid Maspi**. In vitro antileishmanial activity of hydroalcoholic *Thymbra spicata* extract on *Leishmania major* promastigotes. Annals of Parasitology. 2021,67(2): 235-239.

Presentations

Nahid Maspi, Fatemeh Ghaffarifar , Zohreh Sharifi and Abdolhossein Dalimi. Cloning of gene encoding LeIF protein of *Leishmania major* fused with GFP gene as a vaccine candidate. Iranian Congress on Infectious Diseases and Tropical Medicine, 2015.

Nahid Maspi, Fatemeh Ghaffarifar , Zohreh Sharifi and Abdolhossein Dalimi. Cloning and detection of GRA4 gene of *Toxoplasma gondii* in eukaryotic expression vector pcDNA3. The Sixth and the First Regional Congress on Parasitology and Parasitic Diseases, 2008.

Nahid Maspi, Fatemeh Ghaffarifar , Zohreh Sharifi and Abdolhossein Dalimi. Tri-gene fusion of LeIF-LACK-TSA(LLT) of *Leishmania major* into pLEXSYNEO2 vector as a new vaccine candidate. 2nd International and 9th National Iranian Congress of Parasitology (NICOPA9).2015.

Nahid Maspi, Fatemeh Ghaffarifar , Zohreh Sharifi and Abdolhossein Dalimi. Construction of a plasmid encoding fusion of LeIF-TSA accompanied with GFP as a vaccine candidate against *leishmania major*. 2nd International and 9th National Iranian Congress of Parasitology (NICOPA9). 2015.

Nahid Maspi, Fatemeh Ghaffarifar, Abdolhossein Dalimi. DNA vaccination with cocktail of LeIF, LACK and TSA genes increases immunogenicity against cutaneous leishmaniasis in murine model. 9th international congress of laboratory and Clinic. 2017(oral presentation)

Fatemeh Ghaffarifar, **Nahid Maspi**, Zohreh Sharifi and Abdolhossein Dalimi. IL-12 adjuvant improves immunity and protection following a DNA vaccine encoding LeIF antigen against cutaneous leishmaniasis in BALB/c mice. 3rd International &10th National Congress of Parasitology &Parasitic Diseases of Iran (NICOPA10)(November, 1-3, 2017).

Nahid Maspi, Abdolhossein Dalimi, Fatemeh Ghaffarifar. Interleukin (IL) 12 effect as an adjuvant on immune responses induced following DNA vaccination against cutaneous leishmaniasis. 3rd International &10th National Congress of Parasitology & Parasitic Diseases of Iran (NICOPA10) (November, 1-3, 2017).

Books

Nahid Maspi, Fatemeh Ghaffarifar, Mehdi Mohebbali, Paniker's medical Parasitology, Ilam University of medical sciences press, 2018.

Honors and Awards

- ⊕ Top student in B.Sc. degree (2006).
- ⊕ Top student in PhD (2015).

Journal Referee

- ⊕ Journal of parasitic diseases (Springer, 2015)
- ⊕ Pathogens and Global Health journal (Taylor & Francis, 2018).

Computer Skills

- ⊕ Softwares of reference managers: ENDNOTE and Mendeley.
- ⊕ Statistic Softwares: SPSS and GraphPad Prism.

Research Interests

- ⊕ Recombinant and polytope Vaccines.
- ⊕ Parasite Immunology
- ⊕ Immunotherapy of parasitic diseases
- ⊕ Treatment of parasitic diseases
- ⊕ Immunoinformatic studies to design vaccines

Skills

- ⊕ Molecular parasitology including recombinant protein, DNA and parasite (Molecular Cloning and transfection); Genotyping (PCR-RFLP, Multiplex PCR, RT-PCR)
- ⊕ Treatment of parasites (culture of parasites (e.g. *Leishmania spp*, *Acanthamoeba spp*, *Toxoplasma gondii*) and MTT assay)
- ⊕ Cell culture
- ⊕ SDS-PAGE and Western blot analysis

⊕ ELISA

⊕ Working with mice (bleeding of eye, injection, dissection)

Languages

⊕ English: Good

⊕ Persian: Native Speaker