

# Curriculum Vitae

**Mahmoud Nateghi Rostami, PhD**

**Department of Parasitology, Pasteur Institute of Iran, Tehran, Iran**

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## I- General information

### Contact Details

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- ❖ Address: No. 69, Pasteur St., 1316943551 Tehran, Iran

### Affiliation

- Center for Research and Training in Skin Diseases and Leprosy, Tehran University of Medical Sciences, Tehran, Iran
  
- Department of Microbiology & Immunology, Faculty of Medicine, Qom University of Medical Sciences, Qom, Iran
  
- Department of Parasitology, Pasteur Institute of Iran, Tehran, Iran

## II- Education & scientific activities

### Education

- ❖ PhD of *Medical Parasitology (Immuno-parasitology)* (2003-2009)  
School of Public Health & Institute of Public Health Research, Tehran University of Medical Sciences, Tehran, Iran

**PhD dissertation** "Phenotypic & functional characterization of CD4+/CD8+ memory T cells in human cutaneous leishmaniasis" (**Supervisors:** Dr. Ali Khamesipour; Dr. Hossein Keshavarz; **Advisory committee:** Philip Scott, University of Pennsylvania, Philadelphia, USA; David Sacks, NIAID, NIH, Bethesda, USA; Mehdi Mohebali, TUMS, Iran; Fereydoun Mahboudi, Pasteur Institute of Iran, Tehran, Iran)

- ❖ MSc degree in *Medical Parasitology*, (2000-2003)  
School of Public Health & Institute of Public Health Research, Tehran University of Medical Sciences, Tehran, Iran

**MSc thesis** "Evaluation of the rate of protection and immune response in mice immunized with Alum precipitated autoclaved *Leishmania major* mixed with *Mycobacterium vaccae*" (Supervisors: Dr. Hossein Keshavarz, Dr. Ali Khamesipour)

❖ BSc degree in *Medical Laboratory Technology*, (1992-1995; 1997-2000)  
Iran University of Medical Sciences, Tehran, Iran  
Jondi Shapour University of Medical Sciences, Ahvaz, Iran

### Honors and Awards

❖ Winner of research grant from **TWAS**, the world academy of sciences. No: 13-291  
RG/PHA/AS\_C-UNESCO FR: 3240279217

❖ Winner of research award for PhD dissertation, **the 14<sup>th</sup> Avicenna Festival 2013**; Tehran  
University of Medical Sciences, Tehran, Iran

❖ Winner of award for **best researcher, 2014**; Faculty of Medicine, Qom University of  
Medical Sciences, Qom, Iran

### Thesis Directed

#### As Supervisor

❖ **MSc thesis: Study of TNF- $\alpha$  and Th-17 cytokines in volunteers with active and healed cutaneous leishmaniasis**, MSc thesis, Islamic Azad University, Qom, 2009-2011.

❖ **MSc thesis: Study of *Neisseria spp.* and *Trichomonas vaginalis* in genital infections of women aged 18-45 by using routine laboratory techniques and PCR method**, MSc thesis, Science and Research Branch, Islamic Azad University, Tehran, 2012-2014.

❖ **MSc thesis: Study of *Chlamydia spp.* in genital infections of women aged 18-45 by using routine laboratory techniques and PCR method**, MSc thesis, Islamic Azad University, Qom, 2011-2013.

❖ **MSc thesis: Study of drug resistance genes in *Acinetobacter baumannii* complex isolated from hospitalized patients of Qom city**, MSc thesis, Science and Research Branch, Islamic Azad University, Tehran, 2012-2014.

❖ **MSc thesis: Evaluation of genetic diversity of common Gram-negative bacteria isolated from environmental samples of Qom hospitals by ERIC-PCR**, Payame-noor University, Tehran, 2012-2014.

❖ **MSc thesis: Study of genes involved in Glucantime resistance in amastigote and promastigote stages of *Leishmania spp.* in cutaneous leishmanianisis clinical isolates**, Payame-noor University, Tehran, 2013-2015.

❖ **MSc thesis: Evaluation of the role of enzymatic genes involved in thiol metabolism in drug resistance of clinical isolates of leishmania spp**, Payame-noor University, Tehran, 2014-in progress.

#### As advisory member

- ❖ **PhD thesis: Study of Th1/Th2 immune responses against Leish F1 candidate vaccine in volunteers with history of cutaneous leishmaniasis**, Tehran University of Medical Sciences, Tehran, 2014-continued.
- ❖ **MSc thesis: Study of the relation between different preservatives and the rate of *L. major* infectivity in murine model**, Tabriz University of Medical Sciences, Tabriz, 2011-2013.
- ❖ **MD thesis: Epidemiologic study of needle sticks injuries in health care workers of Qom hospitals**, MD thesis, Qom University of Medical Sciences, Qom, 2012-2013.
- ❖ **MSc thesis: Study of drug resistant genes in *Pseudomonas aeruginosa* isolates of nosocomial infections**, MSc thesis, Islamic Azad University, Qom, 2013-2014.
- ❖ **MSc thesis: Study of drug resistant genes in *Acinetobacter baumannii* isolates of nosocomial infections**. MSc thesis, Islamic Azad University, Qom, 2013-2014.
- ❖ **MSc thesis: Identification of entero toxin genes of *Staphylococcus aureus* in milk samples by PCR**, MSc thesis, Islamic Azad University, Qom, 2012-2013.

## Teaching Assignment

### Regular semester courses

**Total units taught: 150 units**

- ❖ **Medical Parasitology**, for MD program, School of Medicine, Qom University of Medical Sciences. From 2009 to 2015
- ❖ **Medical Parasitology & Mycology**, for MD program, School of Dentistry, Qom University of Medical Sciences. From 2009 to 2015
- ❖ **Pathobiology**, for BSc program, School of Public Health, Qom University of Medical Sciences. From 2009 to 2015
- ❖ **Medical Microbiology**, for BSc program, School of Public Health, Qom University of Medical Sciences. From 2009 to 2015
- ❖ **Medical Parasitology**, for BSc program, School of Nursing and Midwifery, Qom University of Medical Sciences. From 2009 to 2015
- ❖ **Medical Protozoology**, for BSc program, School of Allied Health Sciences, Qom University of Medical Sciences. From 2009 to 2015
- ❖ **Medical Helminthology**, for BSc program, School of Allied Health Sciences, Qom University of Medical Sciences. From 2009 to 2015

### Training workshops (As organizer and lecturer)

- ❖ **Real-time PCR: application in biology sciences**, CRTSDL, Tehran University of Medical Sciences, Iran
- ❖ **Arthropod borne diseases: Malaria**, a training course for medical laboratory technologists, Qom University of Medical Sciences, Iran
- ❖ **Arthropod borne diseases: Leishmaniasis**, a training course for medical laboratory technologists, Qom University of Medical Sciences, Iran
- ❖ **Quality control in parasitology laboratory**, a training course for medical laboratory technologists, Qom University of Medical Sciences, Iran
- ❖ **Search in internet databases: I and II**, training courses for medical laboratory technology students, Qom University of Medical Sciences, Iran

## Research Publications

***h-index***: on Scopus: **8** - on Goggle scholar: **10**

### Books

- ❖ Translation of the book "**Diagnostic Medical Parasitology by L.S.Garcia**" Published by: Tehran University of Medical Sciences Publication, 2006;  
M. Nateghi Rostami, M. Douraghi
- ❖ Translation of the book "**Laboratory Biosafety by WHO**" Published by: National Center for Genetic Engineering and Biotechnology, 2013;  
M. Nateghi Rostami, Y. Sohrabi, A. Baghaee, M. Zare

### Papers

1. "**A multiplex assay of sexually transmitted infections of *Chlamydia trachomatis*, *Neisseria gonorrhoeae* and *Trichomonas vaginalis* in endocervical specimens**" *Journal of Infection in Developing Countries*, 2017.  
M. Nateghi Rostami, B. Hossein Rashidi, R. Nazari, F. Aghsaghloo, A. Habibi  
<http://www.jidc.org/index.php/journal>
2. "**First report of OXA-143-lactamase producing *Acinetobacter baumannii* in Qom, Iran**" *Iranian Journal of Basic Medical Sciences*, 2017; 20(11): 1282-86.  
Z. Sarikhani, R. Nazari, M. Nateghi Rostami,  
<https://www.ncbi.nlm.nih.gov/pubmed/29299207>
3. "**Genital infections and reproductive complications associated with *Trichomonas vaginalis*, *Neisseria gonorrhoeae*, and *Streptococcus agalactiae* in women referred to the referral gynecology hospital in central Iran**" *International Journal of Reproductive Biomedicine*, 2017; 15(6): 357-366.  
M. Nateghi Rostami, B. Hossein Rashidi, A. Habibi, R. Nazari, M. Dolati.  
<http://www.ssu.ac.ir/ijrm/index.php/ijrm>

4. **"Comparison of clinical performance of antigen based enzyme immunoassay (EIA) and major outer membrane protein (MOMP)-PCR in detection of genital *Chlamydia trachomatis* infection"** *International Journal of Reproductive Biomedicine*, 2016; 14(6): 411-20.  
M. Nateghi Rostami, B. Hossein Rashidi, F. Aghsaghloo, M. Dolati  
<http://www.ssu.ac.ir/ijrm/index.php/ijrm>
  
5. **"Tumor necrosis factor-alpha (TNF- $\alpha$ ) and TNF- $\alpha$  soluble receptor type 1 (sTNFR I) in human active and healed leishmaniasis"** *Parasite Immunology*, 2016; 38(4): 255-260.  
M. Nateghi Rostami, E. Seyyedani Jasbi, A. Khamesipour, A. Miramin Mohammadi  
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1365-3024](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-3024)
  
6. **"Comparative in vitro activity of carbapenems against clinical isolates of *Acinetobacter baumannii*"** *Journal of Applied Microbiology*, 2016; 121: 401-7  
M. Douraghi, Z. Ghalavand, M. Nateghi Rostami, H. Zeraati, A. Aliramezani, M. Rahbar, M. Mohammadzadeh, S. Ghourchian, M.A. Boroumand, A. Abdollahi.  
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1365-2672](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-2672)
  
7. **"Prevalence of environmental Gram-negative bacilli in intensive care units of hospitals from the city of Qom"** *Infection, Epidemiology and Medicine*, 2016; 2(2): 5-7.  
F. Mehraban, M. Nateghi Rostami, M. Douraghi, M. Dolati  
<http://ijmpp.modares.ac.ir/article-4-1955-en.html>
  
8. **"Plasma levels of tumor necrosis factor-alpha (TNF- $\alpha$ ), TNF- $\alpha$  soluble receptor type 1 (sTNFR I) and IL-22 in human leishmaniasis"** *Tropical Biomedicine*, 2015; 32(3): 478-84.  
M. Nateghi Rostami, E. Seyyedani Jasbi, A. Khamesipour, A. Miramin Mohammadi  
<http://www.msptm.org/journal.html>
  
9. **"*Isospora belli* associated recurrent diarrhea in a child with AIDS"** *Journal of Parasitic Diseases*, 2014; 38(4): 444-446.  
M. Nateghi Rostami, B. Nikmanesh, M.T. Haghi Ashtiani, M. Monajemzadeh, M. Douraghi, Z. Ghalavand, L. Kashi  
<https://www.ncbi.nlm.nih.gov/pubmed/25320501>
  
10. **"A newly emerged cutaneous leishmaniasis focus in central Iran"** *International Journal of Infectious Diseases*, 2013 Dec; 17(12): 1198-206.  
M. Nateghi Rostami, A. Saghafipour, E. Vesali  
<http://www.journals.elsevier.com/international-journal-of-infectious-diseases/>
  
11. **"Comparison of stool antigen immunoassay and serology for screening for *Helicobacter pylori* infection in intellectually disabled children"** *Microbiology and Immunology*, 2013; 57(11): 772-7.  
M. Douraghi, M. Nateghi Rostami, H. Goudarzi, Z. Ghalavand  
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1348-0421](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1348-0421)

12. **"CCR7+ Central and CCR7- Effector Memory CD4+ T Cells in Human Cutaneous Leishmaniasis"** *Journal of Clinical Immunology*, 2013 Jan; 33(1):220-34.  
H. Keshavarz, M. Nateghi Rostami, M. Tasbihi, A. Miramin Mohammadi, S.E. Eskandari, A. Sarrafnejad, A. Khamesipour  
<http://www.springer.com/biomed/immunology/journal/10875>
  
13. **"Immune responses to *Helicobacter pylori* infection in children with intellectual disabilities"** *Research in Developmental Disabilities*, 2012; 33(2): 663-669.  
M. Douraghi, H. Goudarzi, M. Nateghi Rostami, B. Nikmanesh  
<http://www.journals.elsevier.com/research-in-developmental-disabilities/>
  
14. **"Phenotyping of circulating CD8+ T cell subsets in human cutaneous leishmaniasis"** *Microbes and Infection*, 2012; 14(9): 702-711.  
A. Khamesipour, M. Nateghi Rostami, M. Tasbihi, A. Miramin Mohammadi, T. Shahrestani, A. Sarrafnejad, Y. Sohrabi, S.E. Eskandari, H. Keshavarz Valian  
<http://www.journals.elsevier.com/microbes-and-infection>
  
15. **"Altered serum pro-inflammatory cytokines in children with Down's syndrome"** *European Cytokine Network*, 2012; 23(2): 64-67.  
M. Nateghi Rostami, M. Douraghi, A. Miramin Mohammadi, B. Nikmanesh  
<http://www.springer.com/biomed/human+genetics/journal/40698>
  
16. **"*Helicobacter pylori* seropositivity in institutionalized children with Down syndrome"** *Pediatric Infectious Disease Journal*, 2011; 30(12): 1123-1124.  
M. Douraghi; H. Goudarzi; M. Nateghi Rostami; E. Sadat Mirsamadi  
<http://journals.lww.com/pidj/pages/default.aspx>
  
17. **"CD8+ T cells as a source of IFN- $\gamma$  production in human cutaneous leishmaniasis"** *PLoS Neglected Tropical Diseases*, 2010; 4(10): e845.  
M. Nateghi Rostami, H. Keshavarz, R. Edalat, A. Sarrafnejad, T. Shahrestani, F. Mahboudi, A. Khamesipour  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2953482/>
  
18. **"Immune response of BALB/c mice against an experimental vaccine of Alum precipitated autoclaved *Leishmania major* (Alum-ALM) mixed with BCG or *Mycobacterium vaccae*"** *Tropical Biomedicine*, 2010; 27(1): 89-102.  
M. Nateghi Rostami, A. Khamesipour, H. Keshavarz Valian  
<http://www.msptm.org/journal.html>
  
19. **"Differential *in vitro* CD4+/CD8+ T cell responses to live vs. killed *Leishmania major*"** *Parasite Immunology*, 2010 February; 32:101-110.  
M. Nateghi Rostami, H. Keshavarz, E. Eskandari, A. M. Mohammadi, T. Shahrestani, A. Sarrafnejad, A. Khamesipour  
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1365-3024](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1365-3024)
  
20. **"Role of *Mycobacterium vaccae* in the protection induced by first generation *Leishmania* vaccine against murine model of leishmaniasis"** *Parasitology Research*, 2008; 103:21-28.

H. Keshavarz, L. K. Abdollah Kenedy, M. Nateghi Rostami, A. M. Mohammadi, A. Khamesipour  
<http://link.springer.com/journal/436>

21. "Flow cytometric analysis of *Leishmania* reactive CD4<sup>+</sup>/CD8<sup>+</sup> lymphocyte proliferation in cutaneous leishmaniasis" *Iranian Journal of Parasitology*, 2008; 3(4): 9-18.  
M. Nateghi Rostami, A. Khamesipour, E. Eskandari, A. M. Mohammadi, A. Sarrafnejad, H. Keshavarz  
<https://jcr.incites.thomsonreuters.com/JCRJournalProfileAction.action?pg=JRNLPROF&journalImpactFactor=0.686&year=2015&journalTitle=Iranian%20Journal%20of%20Parasitology&edition=SCIE&journal=IRAN%20J%20PARASITOL>
22. "Intestinal parasitic infections in renal transplant recipients" *Iranian Journal of Parasitology*, 2007; 2(3): 16-23.  
M. Nateghi Rostami, E. Eskandari, H. Keshavarz, E. B. Kia, M. Rezaian  
<https://jcr.incites.thomsonreuters.com/JCRJournalProfileAction.action?pg=JRNLPROF&journalImpactFactor=0.686&year=2015&journalTitle=Iranian%20Journal%20of%20Parasitology&edition=SCIE&journal=IRAN%20J%20PARASITOL>
23. "Serological study of *Toxoplasma gondii* infection using IFA method in renal transplant recipients" *Iranian Journal of Parasitology*, 2006; 1(1): 31-38.  
M. Nateghi Rostami, E. Eskandari, Z. Garousi, N. Mohajeri, M. Rezaian, H. Keshavarz  
<https://jcr.incites.thomsonreuters.com/JCRJournalProfileAction.action?pg=JRNLPROF&journalImpactFactor=0.686&year=2015&journalTitle=Iranian%20Journal%20of%20Parasitology&edition=SCIE&journal=IRAN%20J%20PARASITOL>

۱. بررسی فاکتور نکروز دهنده‌ی تومور آلفا (TNF- $\alpha$ ) و گیرنده‌ی ترشحی آن (sTNFR1) در پلاسمای بیماران مبتلا به لیشمانیوز جلدی فعال و بهبود یافته  
احسان جاسبی، دکتر محمود ناطقی رستمی، دکتر علی خامسی پور، اکرم میرامین محمدی، دکتر محسن آقایی  
مجله دانشگاه علوم پزشکی گلستان، بهار و تابستان ۱۳۹۰، دوره ۱۳ شماره ۱، صفحه ۱۳-۵

۲. فنوتایپینگ لنفوسیت های T خاطره ای در گردش در سالک  
دکتر علی خامسی پور، دکتر محمود ناطقی رستمی، دکتر حسین کشاورز، اکرم میرامین محمدی، مینو تسبیحی، سیده طاهره شهرستانی دکتر عبدالفتاح صراف نژاد  
مجله پوست و زیبایی، پائیز ۱۳۸۹، دوره ۱، شماره ۳، صفحه ۹۹-۱۱۱

۳. بررسی مصنوعیت زایی و ایمنی زایی واکسیناسیون با Alum-ALM مخلوط با *Mycobacterium vaccae* و BCG در لیشمانیازیس مدل موش  
محمود ناطقی رستمی، دکتر حسین کشاورز، اکرم میرامین محمدی، دکتر علی خامسی پور  
فصلنامه بیماریهای پوست، ۱۳۸۴، دوره ۸، شماره ۵، صفحه ۷۲-۳۶۳

۴. تاثیر محلول های ننگه دارنده ی مختلف در فرایند انجماد بر عفونت زایی لیشمانیا ماژور در مدل موشی فرزانه زرین کار، دکتر علی خامسی پور، اکرم میرامین محمدی، ابراهیم اسکندری، دکتر محمود ناطقی رستمی، دکتر اسماعیل فلاح  
فصلنامه بیماریهای پوست، ۱۳۹۱، دوره سوم، شماره ۳، صفحه ۱۳۳-۱۲۵
۵. مقاومت های دارویی در مالاریا (مقاله بازآموزی)  
محمود ناطقی رستمی، دکتر مهدی ناطق پور  
طب و تزکیه، تابستان ۱۳۸۲، شماره ۴۹، صفحه ۹۱-۷۴
۶. مروری بر مطالعات انجام شده در مورد یک تک یاخته نوپدید، *Cyclospora caytanensis*  
محمود ناطقی رستمی، دکتر مهدی محبعلی  
مجله تشخیص آزمایشگاهی، اردیبهشت ۱۳۸۱، شماره ۲۰، صفحه ۴۱-۳۵
۷. تأثیر هورمون های جنسی بر پاسخ سیستم ایمنی در برابر عفونت های تک یاخته ای  
محمود ناطقی رستمی، دکتر مهدی محبعلی  
مجله تشخیص آزمایشگاهی، شهریور ۱۳۸۲، شماره ۲۷، صفحه ۳۱-۲۳
۸. وضعیت اپیدمیولوژیک هیاتیت های ویرال در بیماران مراجعه کننده به مراکز بهداشتی استان قم در سالهای ۱۳۸۸-۱۳۹۲  
دکتر محمود ناطقی رستمی، مینو تسبیحی، پروانه قربانیان، زینب نجفی، زهرا موسوی میاندشتی  
مجله سلامت جامعه، مهرماه ۱۳۹۵، دوره ۱۰، شماره ۱، صفحه ۲۸-۱۹
۹. عفونت دستگاه تناسلی ناشی از تریکوموناس واژینالیس در زنان مراجعه کننده به بیمارستان زنان شهر قم  
اعظم حبیبی، دکتر محمود ناطقی رستمی، دکتر معصومه دورقی، معصومه دولتی، دکتر بتول حسین رشیدی، دکتر رقیه آهنگری  
مجله پوست و زیبایی، زمستان ۱۳۹۴، دوره ۶، صفحه ۱۹۹-۱۹۰

### Gene submission to Genbank

- ❖ *Leishmania tropica* strain Lt-MRPA-IR ABC-thiol transporter gene, partial cds  
312 bp linear DNA. **Accession: KP259617.1 GI: 817373818.**
- ❖ *Trichomonas vaginalis* isolate Tv-Q 93 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence  
339 bp linear DNA. **Accession: KP221674.1 GI: 796674174.**
- ❖ *Leishmania major* p-glycoprotein-like gene, partial sequence  
205 bp linear DNA. **Accession: KM603507.1 GI: 745798921.**

- ❖ *Leishmania tropica* p-glycoprotein-like gene, partial sequence  
212 bp linear DNA. **Accession: KM603508.1 GI: 745798922.**

### Seminar Presentations

- ❖ Poster presentation "*The role of genes involved in thiol metabolism in drug resistance of clinical isolates of Leishmania tropica*"  
Worldleish 6: 6<sup>th</sup> World Congress on Leishmaniasis, 16-20 May 2017, Toledo, Spain
- ❖ Poster presentation "*The prevalence of Klebsiella pneumonia and Escherichia coli in patients with UTI infections in Qom hospitals*"  
The 8th International Congress of Clinical Microbiology, 30 Sep-2 Oct 2014, Tabriz University of Medical Sciences, Tabriz, Iran
- ❖ Poster presentation "*Study of genital chlamydiosis by Ag detection using EIA technique in women referred to gynecology clinics in the city of Qom*"  
The 2<sup>nd</sup> Iranian Congress of Medical Bacteriology, 2-4 Oct 2013, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- ❖ Oral presentation "*Profile and function of central and effector memory CD4+ T cells in human leishmaniasis*"  
Worldleish 5: 5<sup>th</sup> World Congress on Leishmaniasis, 13-17 May 2013, Porto de Galinhas, Pernambuco, Brazil
- ❖ Poster presentation "*CD8+CD45RA-CCR7- effector memory T cells and their role in cutaneous leishmaniasis*"  
20th Iranian Congress on Infectious Diseases and Tropical Medicine, 31 Dec 2011-4 Jan 2012, Iranian Society of Infectious Diseases and Tropical Medicine, Tehran, Iran
- ❖ Oral presentation "*Cytokine profiles of purified CD4+ T cell culture from healed CL individuals using ELISA and ICS*"  
20th Iranian Congress on Infectious Diseases and Tropical Medicine, 31 Dec 2011-4 Jan 2012, Iranian Society of Infectious Diseases and Tropical Medicine, Tehran, Iran
- ❖ Poster presentation "*Identification of Leishmania species isolated from human CL patients from Ghomrood district, Qom using ITS-PCR*"  
20th Iranian Congress on Infectious Diseases and Tropical Medicine, 31 Dec 2011-4 Jan 2012, Iranian Society of Infectious Diseases and Tropical Medicine, Tehran, Iran
- ❖ Poster presentation "*Tracking the proliferation history of purified CD4+/CD8+ T lymphocytes in cutaneous leishmaniasis using flow cytometry*"  
11<sup>th</sup> International Congress of Immunology and Allergy, 26-29 Apr 2012, Iranian Society of Immunology and Allergy, Tehran, Iran
- ❖ Oral presentation "*Circulating CD8+ memory T cells in cutaneous leishmaniasis composed mostly of CD45RA-CCR7- effector memory phenotype*"  
FIMSA 2012 (5th Congress of the Federation of Immunological Societies of Asia-Oceania), 14-17 March 2012, New Delhi, India

❖ Oral presentation "***Alterations in cytokines gene expressions of purified CD4+/CD8+ T cells in cutaneous leishmaniasis using Real-time RT-PCR***"  
8<sup>th</sup> National Iranian Congress of Parasitology and Parasitic Diseases, 27-29 May 2012, Kerman University of Medical Sciences, Kerman, Iran

❖ Oral presentation "***Memory rather than naive CD8+ T cell population produce IFN-g in self-healed cutaneous leishmaniasis individuals***"  
ECCMID 2012 (22<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases) 31 March- 3 April 2012, London, United Kingdom

❖ Poster presentation "***Seropositivity rate of Toxoplasma gondii infection in renal transplant recipients using IFA method***"  
ECCMID 2012 (22<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases) 31 March- 3 April 2012, London, United Kingdom

❖ Oral presentation "***Altered serum pro-inflammatory cytokines in children with Down's syndrome***"  
Congress of Infectious Diseases Immunology, 22-24 Feb 2012, Zahedan University of Medical Sciences, Zahedan, Iran

❖ Poster presentation "***Helicobacter pylori infection in institutionalized children with intellectual disability***"  
4<sup>th</sup> Congress of European Microbiologists, (FEMS), June 26-30, 2011, Geneva, Switzerland

❖ Poster presentation "***Analysis of T lymphocyte proliferation with intracellular staining using flow cytometry***"  
4<sup>th</sup> Congress of Laboratory and Clinic, 21-23 Dec 2011, Shahid Beheshti University of Medical Sciences, Tehran, Iran

❖ Poster presentation "***Functional analysis of magnetically purified CD4+/CD8+ T lymphocytes in cell culture***"  
4<sup>th</sup> Congress of Laboratory and Clinic, 21-23 Dec 2011, Shahid Beheshti University of Medical Sciences, Tehran, Iran

❖ Poster presentation "***Phenotypes and functions of memory T cell subsets in individuals with history of zoonotic cutaneous leishmaniasis due to Leishmania major***"  
International Center for Genetic Engineering & Biotechnology (ICGEB), October 27-29, 2010, Trieste, Italy

❖ Poster presentation "***Risk of neonatal septicemia associated with neonatal-maternal-bacterial determinants***"  
Sepsis 2010, September 1-3, 2010, Institute Pasteur, Paris, France

❖ Oral presentation "***Immunological memory and leishmaniasis***"  
NICOPA 7 (7<sup>th</sup> National and 2<sup>nd</sup> Regional Congress of Parasitology and Parasitic Diseases) October 19-21, 2010, Tehran, Iran

❖ Poster presentation "***A mini review on leishmaniasis and Th17 responses***"  
NICOPA 7 (7<sup>th</sup> National and 2<sup>nd</sup> Regional Congress of Parasitology and Parasitic Diseases) October 19-21, 2010, Tehran, Iran

- ❖ Oral presentation "***Central memory CD4+ T cells as a novel target in vaccine strategy in human cutaneous leishmaniasis***" ICOPA XII (International Congress of Parasitology) August 15-20, 2010, Melbourne, Australia
- ❖ Oral presentation "***Differential induction of in vitro CD4+ and CD8+ T cell responses by live vs. killed Leishmania major***" ECCMID 2010 (20<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases) April 9-12, 2010, Vienna, Austria
- ❖ Poster presentation "***Memory CD4+ T cell subsets in individuals with history of zoonotic cutaneous leishmaniasis***" ICI 2010 (14<sup>th</sup> International Congress of Immunology) 22-27 August 2010, Kobe, Japan
- ❖ Poster presentation "***Evidence for contributing role of IFN- $\gamma$  producing CD8+ T cells in protective Th1 immune response in cutaneous leishmaniasis***" ICI 2010 (14<sup>th</sup> International Congress of Immunology) 22-27 August 2010, Kobe, Japan
- ❖ Poster presentation "***Innate inflammatory response (TNF- $\alpha$ , IL-1 $\beta$ , IL-6) and antioxidant levels in cutaneous leishmaniasis***" ICI 2010 (14<sup>th</sup> International Congress of Immunology) 22-27 August 2010, Kobe, Japan
- ❖ Poster presentation "***CD4+/CD8+ T cells respond to live or killed L. major differently***" WorldLeish 4 (4<sup>th</sup> International Congress on Leishmaniasis) February 2009, Lucknow, India
- ❖ Poster presentation "***Intestinal parasites in renal transplant recipients***" 6<sup>th</sup> National Iranian Congress of Parasitology and Parasitic Diseases, 27-29 May 2008, Razi Serum & Vaccine Research Institute, Karaj, Iran
- ❖ Poster presentation "***Study of the prevalence of intestinal parasitic infections in renal transplant recipients in Iran***" XI International Congress of Parasitology, 6-11 August 2006, Glasgow, Scotland
- ❖ Oral presentation "***Comparative analysis of the adjuvant activity of Mycobacterium vaccae and BCG mixed with Alum precipitated autoclaved L. major vaccine (Alum-ALM) in murine model of leishmaniasis***" IX European Multicolloquium of Parasitology, 18-23 July 2004, Valencia, Spain
- ❖ Oral presentation "***Evaluation of protectivity and immunogenicity of Alum precipitated autoclaved L. major vaccine mixed with M. vaccae in murine model of leishmaniasis***" IX International Congress of Dermatology, 19-22 May 2004, Beijing, China
- ❖ Poster presentation "***Evaluation the infectivity of live L. major parasites mixed with different doses of killed parasites in BALB/c mice***" 4<sup>th</sup> National Iranian Congress of Parasitology and Parasitic Diseases, 13-16 October 2003, Mashhad, Iran

## Contribution to Projects

## As PI

❖ ***“Study of TNF- $\alpha$  and Th17 cell population cytokines in active and healed leishmaniasis patients”*** Cellular and Molecular Research Center, Qom University of Medical Sciences, and Center for Research & Training in Skin Diseases & Leprosy, Tehran University of Medical Sciences, Tehran, Iran, 2011

❖ ***“Study of common causative agents of sexually transmitted infections in women aged 18-45 by using routine laboratory techniques and multiplex-PCR”*** Cellular and Molecular Research Center, Qom University of Medical Sciences, and Vali-e-Asr Reproductive Health Research Center, Tehran University of Medical Sciences, Iran, 2011

❖ ***“Genetic study of MDR efflux pumps in gram negative non-fermentative bacteria from clinical isolates of nosocomial infections from Qom”*** Cellular and Molecular Research Center, Qom University of Medical Sciences, Qom, Iran, 2012

❖ ***“Study of the characteristics of genes involved in drug resistance in clinical isolates of Leishmania spp. (amastigote/promastigote stages) in treatment responder and non-responder cutaneous leishmanianisis patients”*** Tehran University of Medical Sciences (IbnSina Grant), and Cellular and Molecular Research Center, Qom University of Medical Sciences, Iran, 2013

## As Co-worker

❖ ***“Production, standardization, QC and preclinical testing of live Leishmania major as the basis for the establishment of a LZ platform”*** WHO, IVR, 2006-continued

❖ ***“Phase I, II (Safety, immunogenicity) study of 2 doses of Alum-ALM mixed with BCG in healthy volunteers with LST>0”*** Ministry of Health and Medical Education, Iran, 2006-2009

❖ ***“Characterization of Memory T cells in human leishmaniasis”*** Iran National Science Foundation (INSF), Tehran, Iran, 2006-2009

❖ ***“Study of T cell subsets and their roles in protection and healing in human leishmaniasis”*** Tehran University of Medical Sciences, Tehran, Iran, 2006-2010

❖ ***“Study of the prevalence of emerging parasitic infections and T. gondii antibody titer by IFA test in renal transplant recipients in 2003-4, Tehran, Iran”*** School of Public Health & Institute of Public Health Research, Tehran University of Medical Sciences, Tehran, Iran, 2007-2008

❖ ***“Evaluation of antibiotic resistant profile of Stenotrophomonas maltophilia in academic therapeutic centers”*** Tropical Infectious Diseases Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2010

❖ ***“Assessment of genetic profile of Stenotrophomonas maltophilia isolated from blood of hospitalized children in academic medical centers”*** Tropical Infectious Diseases Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2010

❖ **“Analysis of serum secreted cytokines profile in cutaneous leishmaniasis using ELISA method”** Center for Research & Training in Skin Diseases & Leprosy, Tehran University of Medical Sciences, Tehran, Iran, 2010

### Participation in Training Courses

❖ Course on **New technologies for eukaryotic genome editing based on CRISPR/Cas9**, February 2018  
EMGEN, Tehran, Iran

❖ Course on **Clinical analysis of whole exome sequencing data**, February 2018  
EMGEN, Tehran, Iran  
March 2018  
Iranian Molecular Medicine Network, Tehran, Iran

❖ E-Learning course on **Vaccine Safety Basics**, September 2015  
WHO, Geneva

❖ Interactive training course on **Step-by-step guide to reviewing**, 5 February 2016  
Elsevier Publishing Campus, College of Skills Training

❖ Interactive training course on **Structuring your article**, 5 February 2016  
Elsevier Publishing Campus, College of Skills

❖ Interactive training course on **Preparing your manuscript**, 5 February 2016  
Elsevier Publishing Campus, College of Skills

❖ Interactive training course on **Using proper manuscript language**, 5 February 2016  
Elsevier Publishing Campus, College of Skills

❖ Interactive training course on **Authorship and responsibilities**, 5 February 2016  
Elsevier Publishing Campus, College of Skills

❖ Interactive training course on **Plagiarism**, 5 February 2016  
Elsevier Publishing Campus, College of Skills

❖ Interactive training course on **How to respond to reviewers' comments**, 5 February 2016  
Elsevier Publishing Campus, College of Skills

❖ Workshop on **Good Manufacturing Practice (GMP) and Good Laboratory Practice (GLP)**, 25-26 September 2002  
Center for Research & Training in Skin Diseases and Leprosy, Tehran, Iran

❖ Workshop on **Good Clinical Practice (GCP)** March 2008  
Jondi Shapour University of Medical Sciences, Ahvaz, Iran

❖ Theoretical & practical course on **“Molecular Biology of Leishmania”** October 27-29, 2010, International Center for Genetic Engineering & Biotechnology (ICGEB), Trieste, Italy

❖ Electronic coursework and practical laboratory training entitled **"Cloning, Labeling and Hybridization"** March 2003

Institute Pasteur Iran and Center for Cellular and Molecular Biology, Shahid Beheshti University of Medical Sciences, Tehran, Iran

❖ 12<sup>th</sup> workshop on "**Education strategies & Teaching methods**", 24-26 April 2004  
School of Public Health & Institute of Public Health Research, Tehran University of Medical Sciences, Tehran, Iran

❖ Hybrid course in "**Molecular cytogenetics and DNA microarrays**", 13-17 November, 2005  
European Genetic Fundation, Tehran University of Medical Sciences, Iran

❖ Workshop on "**BINASIA**", 8-9 November, 2005  
National Institute of Genetic Engineering and Biotechnology, Tehran, Iran

❖ Workshop on "**Scientific Writing**", 2004-2005  
Tehran University of Medical Sciences, Iran

❖ Workshop on "**Reference Manager Software**", 2006  
Tehran University of Medical Sciences, Iran

❖ 6<sup>th</sup> workshop on "**Bioinformatics**", 2007  
Iranian Molecular Medicine Network, Pasteur Institute of Iran, Tehran

❖ Seminar on "**Nano-biotechnology (INBF)**", December 2005  
University of Tehran, Iran

❖ English proficiency certificate by **Foreign Language Center of Scholarship & Overseas Students Department**, Tehran, Iran

❖ The 3<sup>rd</sup> Royan International Summer School on "**Stem cell and Developmental Biology for Regenerative Medicine**", 14-19 July, 2012  
Royan Institute, Tehran, Iran

❖ E-workshop "**Internet in medicine and medical databases**", 2013  
Organized by Mashhad University of Medical Sciences

## Skills

### Language Skills

❖ English language certificate by **IELTS** overall score **6.5**

### Computer skills

- ❖ Microsoft Office group (Word, Power Point, Excel)
- ❖ Statistics: SPSS statistical program
- ❖ Database: EndNote and Reference Manager software
- ❖ Graphic: GraphPad prism software
- ❖ Bioinformatics: MEGA7, CustalW/X, CRISPOR, Gene Runner, BioEdit softwares
- ❖ Flow cytometry: FlowJo and FloMax softwares

### Laboratory Skills

- ❖ Immune system analysis of mice and human
- ❖ Mice RES organs isolation and culture
- ❖ Human MQ and T cell culture
- ❖ PCR, Real-time qPCR and PCR-based techniques
- ❖ Western blot and hybridization
- ❖ Gene cloning and expression technologies
- ❖ Flow cytometry: Immunophenotyping, Intracellular cytokine staining (ICS), Fluorescent cell proliferation assay
- ❖ ELISA technique in Ab and cytokine assay
- ❖ Cell isolation & purification: MACS (magnetic beads) cell purification system
- ❖ *Leishmania* mass production and *Leishmania* antigen (SLA) preparation
- ❖ LDA (Limiting dilution assay) for quantitation of parasites burden
- ❖ IFA method for *Toxoplasma* and *Leishmania* identification
- ❖ 10 years experience in different medical laboratory units (Hematology, Biochemistry, Serodiagnosis,...)

### Membership of Societies

- ❖ International Society of Infectious Diseases
- ❖ European Society of Clinical Microbiology and Infectious Diseases
- ❖ European Federation of Parasitology
- ❖ Iranian Society of Parasitology
- ❖ Iranian Society of Immunology and Allergy
- ❖ Iranian Biotechnology Society

### Responsibilities

- ❖ معاون پژوهشی دانشکده پزشکی، دانشگاه علوم پزشکی قم
- ❖ مدیر گروه میکروبیولوژی و ایمنولوژی، دانشکده پزشکی، دانشگاه علوم پزشکی قم
- ❖ عضو هیأت ممتحنه آزمون جامع علوم پایه گروه پزشکی
- ❖ عضو کمیته تدوین برنامه های راهبردی و عملیاتی، دانشگاه علوم پزشکی قم
- ❖ عضو شورای پژوهشی مرکزی دانشگاه، دانشکده علوم پزشکی قم
- ❖ عضو شورای توسعه فناوری سلامت دانشگاه، دانشکده علوم پزشکی قم
- ❖ عضو شورای آموزش، دانشکده پزشکی، دانشگاه علوم پزشکی قم
- ❖ عضو شورای تحصیلات تکمیلی دانشکده پزشکی، دانشگاه علوم پزشکی قم
- ❖ عضو کمیسیون ماده ۲۰ آزمایشگاهها، معاونت درمان، دانشگاه علوم پزشکی قم
- ❖ عضو هیأت مؤسس مرکز تحقیقات آلاینده های محیطی، دانشگاه علوم پزشکی قم
- ❖ عضو شورای پژوهش دانشکده پزشکی، دانشگاه علوم پزشکی قم
- ❖ عضو شورای تحصیلات تکمیلی دانشکده بهداشت، دانشگاه علوم پزشکی قم
- ❖ عضو شورای پژوهش مرکز تحقیقات سلولی مولکولی، دانشگاه علوم پزشکی قم
- ❖ عضو شورای پژوهش مرکز تحقیقات آلاینده های محیطی، دانشکده بهداشت، دانشگاه علوم پزشکی قم