

Curriculum Vitae

Name: Mona Roozbehani



Education:

1. **Ph.D.** of Medical Parasitology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran, 2013- November 18, 2018.
2. **M.Sc.** of Medical Parasitology, Faculty of Public Health, Tehran University of Medical Sciences, Tehran, Iran, 2011- 2013.
3. **B.Sc.** of Medical Laboratory Sciences, Faculty of Allied Medicine, Iran University of Medical Sciences, Tehran, Iran, 2007-2009.

Dissertations:

1. **Ph.D.** Multi-epitope protein vaccine of SAG1, GRA4, ROP2, AMA1 immunogens antigens of *Toxoplasma gondii* RH strain and evaluation of the immune response in BALB/c. (**Supervisor:** Prof. Mohamad Javad Gharavi) 2016-2018.
2. **M.Sc.** Serology & molecular survey on toxoplasmosis on pregnant women in Medical laboratories. (**Supervisor:** Prof. Mohamad Javad Gharavi) 2012-2013.

Academic Experience:

Sabbatical, Department of Infectious Diseases and Pathobiology, Faculty of vetsuisse, university of Bern, Switzerland, (Prof. Andrew Hemphill), April 1 – September 30, 2018.

Current Position:

1. Assistant Professor of Medical Parasitology & boss of medicine department, School of medicine, Azad University of Medical Sciences, Qom branch.

Teaching Experiences:

2. Teaching in protozoology courses, Faculty of Allied medicine, Iran University of Medical Sciences, 2011-2016.
3. Teaching in practical parasitology in laboratory of Faculty of Allied medicine, Iran University of Medical Sciences, 2011-2016
4. Teaching in work with Animal Laboratory in Faculty of Allied medicine, Iran University of Medical Sciences, 2011-2016.

Technical Experiences:

Nano Particle synthesis

Mice organ isolation and culture

Molecular Biology Methods such as DNA Extraction, PCR .

Immunochemistry Methods such as Developing of ELISA, Dot Blotting, SDS –PAGE, Western Blotting, Cell Culture, Cloning, Protein Purification, Immunofluorescence.

Favorite research:

Vaccine and Immunoparasitology.

Scholarship, Awards & Honors:

1. Prize of a short-term scholarship by the Iran Ministry of Health & Medical Education as a period of 6 month sabbatical, university of Bern, Switzerland, April 2018.
2. A Letter of Appreciation of the 3th congress on novel & innovative laboratory techniques Oct 2015.
3. A Letter of Appreciation as a member of the Executive Committee from the first conference of the Unity of Industry and the University, Alborz University of Medical Sciences, Nov 2014.
4. Achievement the first rank in entrance exam of M.Sc. in medical Parasitology 2011.
5. A Letter of Appreciation from Student Scientific Research Committee, Faculty of Allied medicine, Iran University of Medical Sciences, March 2009.
6. A Letter of Appreciation as a member of the Executive Committee from the 10th Iranian Medical

Students Research Congress, Iran University of Medical Sciences, May 2009.

7. A Letter of Appreciation as a researcher student from the Faculty of Allied medicine, Iran University of Medical Sciences, Dec 2008.

Books:

1. Mohammad Javad Gharavi, Mona Roozbehani. Translational of Pagana. Andisherafee press, Tehran, Iran, 2014 (Persian).
2. Mohammad Javad Gharavi, Mona Roozbehani. Clinical Parasitology Laboratory. 2nd Edition. Teimurzadenovin press, Tehran, Iran 2012 (Persian).
3. Mohammad Javad Gharavi, Mona Roozbehani. Text Book of Clinical Protozoology. 4th Edition, Mirmah press, Tehran, Iran, 2011 (Persian).
4. Mohammad Javad Gharavi, Mona Roozbehani. Principle of Clinical Laboratory Management. Mirmah press, Tehran, Iran, 2009 (Persian).

Publications:

1. Mohsen Mohammadi, Moradi, Hasan-Abad, Parva Dehghani, Iraj Nabipour, **Mona Roozbehani** Andrew Hemphill, Marzieh Taherzadeh. Dicentracin-Like from Asian sea bass Fish and Moronecidine-Like from Hippocampus Comes: Two Candidate Antimicrobial Peptides Against *Leishmania major* Infection International Journal of Peptide Research and Therapeutics 2020.
2. kourosh Cheraghipour, Leila Masoori, Behrooz Ezzatpour, **Mona Roozbehani**, Vahid Malekara, Massumeh Niazi, Omid Mardanshah, Kobra Moradpour. The Experimental Role of Medicinal Plants in Treatment of *Toxoplasma gondii* Infection: A Systematic Review. Acta Parasitologica 2020.
3. Mohsen Mohammadi, Parva Dehghani, Atefeh Mohseninia, **Mona Roozbehani**, Andrew Hemphill Khashayar Hesamizadeh. Incorporation of the Tat cell-penetrating peptide into nanofibers improves the respective antitumor immune response. J Cell Physiol. 2020;1–17.
4. Maryam Moradi, Ahmad Reza Meamar, Lame Akhlaghi, **Mona Roozbehani**, Elham Razmjou. Detection of *Echinococcus granulosus* DNA in serum of cystic echinococcosis patients and

- genetic characterization based on mitochondrial gene sequencing in human sera and formalin-fixed paraffin embedded cyst tissue. PLOS ONE 2019, 0224501, 1-16.
5. Leila Masoori, Ahmad Reza Meamar, Mojgan Bandehpour, Andrew Hemphill, Elham Razmjou, Kobra Mokhtarian, **Mona Roozbehani**, Nahid Jalalou, Lame Akhlaghi, Alireza Badirzadeh, Reza Falak. Fatty acid and retinol-binding protein: a novel antigen for immunodiagnosis of human strongyloidiasis. PLOS ONE 2019.
 6. Maryam moradi, Zahra Rampisheh, **Mona Roozbehani**, Elham Razmjou.
A retrospective study of Hydatid Cysts in Patients undergoing Liver and Lung Surgery in Tehran, Iran. Heliyon 5 2019.
 7. Behrooz taheri, Mohsen Mohammadi, Zahra Farshadzadeh, **Mona Roozbehani**, Sobhan hajian. Substitution of lysine for isoleucine at the center of the nonpolar face of the antimicrobial peptide piscidin-1 leads to an increase in the rapidity of bactericidal activity and a reduction in cytotoxicity. Infection and Drug Resistance 2019:12 1629–1647.
 8. **Mona Roozbehani**, Jebreil Shamseddin, Maryam Moradi and Leila Masoori.
Myiasis of Mandible Due to *Lucilia sericata*, in Diabetic Woman Patient: A Case Report
Arch Clin Infect Dis 2019: 14 (1).
 9. **Mona Roozbehani**, Reza Falak, Mohsen Mohammadi, Andrew Hemphill, Elham Razmjou, Ahmad reza Meamar, Leila Masoori, Maryam Moradi, Mohammad Javad Gharavi. Characterization of a multi-epitope peptide with selective MHC-binding capabilities encapsulated in PLGA nano particles as a novel vaccine candidate against *Toxoplasma gondii* infection. Vaccine 36 (2018) 6124-6132.
 10. Andrew Hemphill, Nicoleta Anghel, Vreni Balmer, Joachim Müller, Pablo Winzer, Adriana Aguado-Martinez, **Mona Roozbehani**, Sovitj Pou, Aaron Nilsen, Michael Riscoe, J Stone Dogget. Endochin-Like Quinolones Exhibit Promising Efficacy against *Neospora Caninum* in vitro and in Experimentally Infected Pregnant Mice. Frontiers in Veterinary Science, 2018: 5.
 11. **Mona Roozbehani**, Mohammad Javad Gharavi, Maryam Moradi, Elham Razmjou. Detection of acute *Toxoplasma gondii* infection in pregnant women by IgG avidity and PCR analysis. Tropical Biomedicine 2018: 35(4): 1–7.
 12. Behrouz Taheri, Mohsen Mohammadi, Iraj Nabipour, **Mona Roozbehani**. Identification of novel antimicrobial peptide from Asian sea bass (*Lates calcarifer*) by in silico and activity characterization. PLOS ONE 2018:1-22.

13. Mohammad Javad Gharavi, **Mona Roozbehani**, Mojgan Oshaghi, Behnaz Gharegozlou, et al. Prevalence of Anti-*Toxoplasma gondii* Antibodies in Young Iranians. Archives of Pediatric Infectious Diseases 2018; 6 (1):e61640.
14. Mohammad Javad Gharavi, **Mona Roozbehani**, Zienat Mandeh. Detection of anti-*Toxoplasma gondii* antibodies in chronic myeloid leukemia and acute myeloid leukemia patients. Veterinary World 2017 10 (9): 1063-1065.
15. Maryam Moradi, **Mona Roozbehani**, Jibreil Shamseddin. Frequency of intestinal parasites in patients referred to Milad hospital, Tehran, Iran in 2015-2016. Hormozgan Medical Journal, 2018; 22 (1): 33-36.
16. Mohammad Javad Gharavi, Malihe Nobakht, Shahram Khademvatan, **Mona Roozbehani**. The Effect of Garlic Extract on Expression of INF- and iNOS genes in Macrophages Infected with *Leishmania major*. Iranian J Parasitology, 2011 6(3); P:74-81.
17. Mohammad Javad Gharavi, Malihe Nobakht, Shahram Khademvatan, Freshteh Fani, **Mona Roozbehani**. Aqueous Garlic Extract induce the Interleukin-12 as a useful Reagent for Prevention of *Leishmania major* infectious. Iranian J Publ Health, 2011 40(4); P: 105-111.

۱- محمد جواد غروی، ملیحه نوبخت، شهرام خادم وطن، اسحاق بندانی، مونا روزبهانی، معصومه بخشایش، علی صمدی کوچکسرایبی. (۱۳۹۱). اثر عصاره سیر بر بیان ژن های iNOS IFN در رده سلولی آلوده به لیشمانیا ماژور. مجله دانشگاه علوم پزشکی رفسنجان، دوره یازدهم، مهر و آبان ۱۳۹۱، ۳۱۳-۳۲۲.

۲- محمد جواد غروی، مونا روزبهانی، امیرحسین آجودانی. فراوانی عفونت انگلی در مراجعه کنندگان به بیمارستان بقیه الله تهران ۱۳۹۰ مجله علوم آزمایشگاهی، دوره هفتم (شماره ۴) زمستان ۹۲.

۳- محمد جواد غروی، مونا روزبهانی، حسین بخشکار. مقایسه روش های تشخیص معمول در انگل های روده ای (ژیاردیا-هیستولیتیکا) با روش های جستجوی آنتی ژن و آنتی بادی در خون و مدفوع. مجله علوم آزمایشگاهی، دوره هشتم، شماره ۵، زمستان ۹۳.

۴- مونا روزبهانی، محمدجواد غروی، حسین کشاورز. تشخیص توکسوپلاسموز در مادران باردار با روش سرولوژی IgG avidity. نشریه علمی پژوهشی دانشگاه علوم پزشکی البرز، دوره ۴، شماره ۱، زمستان ۱۳۹۳.

۵- محمدجواد غروی، مونا روزبهانی، زینت مانده. بررسی مقایسه‌ای میزان فراوانی آنتی‌بادی‌های IgM و IgG ضد توکسوپلازما گوندی در بیماران لوسمی. نشریه علمی پژوهشی دانشگاه علوم پزشکی البرز، دوره ۴، شماره ۴، پاییز ۱۳۹۴ - صفحات ۲۱۷-۲۲۲.

۶- محمدجواد غروی، مونا روزبهانی، خادم وطن، شهرام. (۱۳۸۸).

روش‌های تشخیصی پنوموسیستیس کارینی، ماهنامه تشخیص آزمایشگاهی، سال دوازدهم، شماره ۶۳، آذر ۱۳۸۸.

۷- محمدجواد غروی، مونا روزبهانی، جهانی محمد رضا (۱۳۹۰).

بلاستوسیستیس هومینیس، فصلنامه علمی خبری نظام پزشکی کرج بزرگ- سال هفتم، شماره ۲۱، بهار ۹۰.

۸- جوادی ابراهیم، روزبهانی مونا، شریفی فرزانه. (۱۳۹۰).

سیستاتین C جدیدترین بیومارکر ارزیابی عملکرد کلیه

فصلنامه علمی خبری نظام پزشکی کرج بزرگ- سال هفتم، شماره ۲۲، تابستان ۹۰.

۹- علیمحمدیان مینا، روزبهانی مونا، شریفی فرزانه. (۱۳۹۰).

سقط مکرر با تاکید بر سندرم فسفولیپید و سندرم ترومبوفیلیک

فصلنامه علمی خبری نظام پزشکی کرج بزرگ- سال هفتم، شماره ۲۳، پاییز ۹۰.

۱۰- جوادی ابراهیم، روزبهانی مونا، شریفی فرزانه (۱۳۹۰).

آلرژی. فصلنامه علمی خبری نظام پزشکی کرج بزرگ- سال هفتم، شماره ۲۴، زمستان ۹۰.

۱۱- محمد جواد غروی، مونا روزبهانی، مینا علیمحمدیان (۱۳۹۱).

هلیکوباکتر پیلوری و روش‌های تشخیصی آن

فصلنامه علمی خبری نظام پزشکی کرج بزرگ- سال هشتم، شماره ۲۵، بهار و تابستان ۹۱.

۱۲- محمد جواد غروی، مونا روزبهانی، شهرام خادم وطن، آرزو کولیوند (۱۳۹۲).

گذری بر روش‌های ورود انگل لیشمانیا به درون ماکروفاژ (مکانیسم اسب تروجان).

ماهنامه تشخیص آزمایشگاهی، سال پانزدهم، شماره ۸۷، فروردین ۹۲.

۱۳- مونا روزبهانی، ابراهیم جوادی، مینا علیمحمدیان، (۱۳۹۲).

NGAL و تشخیص سریع آسیب حاد کلیوی

ماهنامه تشخیص آزمایشگاهی، سال پانزدهم، شماره ۹۳ و ۹۲، شهریور، مهر ۹۲.

۱۴- مونا روزبهانی، مینا علیمحمدیان (۱۳۹۲).

NT- pro BNP . ماهنامه تشخیص آزمایشگاهی، سال شانزدهم، شماره ۹۶ و ۹۷، بهمن، اسفند ۹۲.

Participation in Workshops:

1. **Epitope Mapping**, Iran University of Medical Sciences, Dec 2018.
2. **Ethics in research**, School of medicine, Iran University of Medical Sciences, Dec 2018.
3. **Endnote & Reference Manager Software**, Iran University of Medical Sciences, Feb 2018.
4. **Biosafety in Medical laboratory**, Iran University of Medical Sciences, Nov 2017.
5. **Planning educational and teaching Methods**, Iran University of Medical Sciences, June 2014.
6. **Working animal's laboratory**, 10th Iranian Medical Students Research Congress, May 2009.
7. **Scientific Writing**, Faculty of Allied medicine, Iran University of Medical Sciences, Dec 2008.
8. **Internet in Medicine & Medical databases**, Iran University of Medical Sciences, Nov 2008.
9. **Methodology Research**, Iran University of Medical Sciences, May 2008.

Abstract in Scientific Meeting:

1. **Mona Roozbehani**, Mohammad Javad Gharavi.
Oral presentation "Diagnostic Approach To parasites". The 12th International and 17th National Congress on Quality Improvement in Clinical Laboratories, 18-21 April, 2019, Tehran, Iran.
2. **Mona Roozbehani**, Mohammad Javad Gharavi. Elham Razmjou.
Poster presentation "Detection of acute *Toxoplasma gondii* infection in pregnant women by IgG avidity and PCR analysis". The 3rd International & 10th National Congress of Parasitology & Parasitic Diseases of Iran (NICOPA10), 1-3 November 2017, Shiraz, Iran.

3. **Mona Roozbehani**, Mohammad Javad Gharavi.
Poster presentation “Comparison between routine diagnostic methods in intestinal protozoa (*Giardia & E.histolitica*) with copro antibody and antigen and blood antibody assay”. The 8th International congress of laboratory & Clinic. 6-8 Feb 2016, Tehran, Iran.
4. **Mona Roozbehani**, Mohammad Javad Gharavi, Zienat Mandeh.
Poster presentation “Significant of anti-*Toxoplasma gondii* antibodies in Leukemia patients”. The 3rd congress on novel & innovative laboratory technologies”. 4- 6 Oct. 2015, Tehran, Iran.
5. **Mona Roozbehani**, Mohammad Javad Gharavi.
Poster presentation “Diagnosis of toxoplasmosis in pregnant women by IgG Avidity assay. The 2nd congress on novel & innovative laboratory technologies”. 1- 3 Oct. 2014, Tehran, Iran.
6. Mohammad Javad Gharavi, Hossien Fatemi, **Mona Roozbehani**.
Poster presentation “Assessment criteria of quality of Iranian Clinical Laboratories”. The 3rd International & 8th National Congress on Quality improvement in Clinical Laboratories, 21-23 April, 2010, Tehran, Iran.

Contribution to Projects:

1. Survey Antimicrobial Peptides Against *Leishmanina major* Infection, Moronecidine-Like & Dicentracin-Like in vitro. 2018-2020.
2. Multi-epitope protein vaccine of SAG1, GRA4, ROP2, AMA1 immunogens antigens of *Toxoplasma gondii* RH strain and evaluation of the immune response in BALB/c, Iran University of Medical Sciences, as the second executer 2016-2018.
3. Serology & molecular survey on toxoplasmosis on pregnant women in Medical laboratories, Iran University of Medical Sciences, as the second executer 2013-2014.
4. Significant of anti-*Toxoplasma gondii* antibodies in Leukaemia patients, Iran University of Medical Sciences, as the main co-worker 2013-2014.
5. Comparison between routine diagnostic methods in intestinal protozoa (*Giardia & E.histolitica*) with copro antibody and antigen and blood antibody assay, Iran University of Medical Sciences, as the main co-worker, 2011-2012.
6. Audit of quantitative and qualitative indicators of Iran's medical laboratories from the Vice President of Science and Technology of the Presidency and cooperation with the Association of Iranian Clinical Laboratories as the main co-worker, 2009.

Participation in Congresses:

1. International Virtual ApicoWplexa Meeting November 12, 2020.
2. The 12th International & 17th National Congress on Quality improvement in Clinical Laboratories, 18-21 April, 2019, Tehran, Iran.
3. The 3rd International & 10th National Congress of Parasitology & Parasitic Diseases of Iran (NICOPA10), 1-3 November 2017, Shiraz, Iran.
4. Seminar on Transitional Knowledge, Intellectual Property Protection and International Treaties, January 2016 Tehran, Iran.
5. The 8th International congress of laboratory & Clinic. 6-8 Feb 2016, Tehran, Iran.
6. The 3th congress on novel & innovative laboratory technologies. 1- 3 Oct 2015, Tehran, Iran.
7. The 1st International Reproduction Congress, June 2015, Tehran, Iran.
8. The 1st seminar of researchers at the Iran University of Medical Sciences, April 2015.
9. The 2nd congress on novel & innovative laboratory technologies. 1- 3 Oct 2014, Tehran, Iran.
10. Conference on the role of nutrition in the treatment of genetic diseases, Alborz University of Medical Sciences, Sep 2014.
11. The 1st congress on novel & innovative laboratory technologies. 1- 3 Oct 2013, Tehran, Iran.
12. Innovative Conference, April 2012, Tehran, Iran.
13. MBA-Biotechnology, Dec 2011, Tehran, Iran.
14. The 11th Microbiology Congress, May 2010, Gilan, Iran.
15. The 3rd International & 8th National Congress on Quality improvement in Clinical Laboratories, 21-23 April, 2010, Tehran, Iran.
16. The 7th National & 2nd Regional Congress of Parasitology & Parasitic Diseases in Iran (NICOPA7), Oct 2010, Tehran, Iran.
17. The 3rd congress of laboratory & Clinic. Dec 2010, Tehran, Iran.

Memberships of committees:

1. Member of Iranian Society of Parasitology, 2014- present.
2. Brilliant talent center of Tehran University of Medical Sciences, 2011- present.
3. Iranian Association of Clinical Laboratories 2007- present.
4. Central Council and Public Relations Officer of the Student Scientific Research Committee of the Faculty of Allied medicine, Iran University of Medical Sciences, 2007 - 2009.

Professional Experience:

1. Secretary of the Scientific and Executive Committee of the congress on novel & innovative laboratory techniques 2013- 2015.
2. Working in Fardis Central Laboratory as employer, 2009-2014.
3. Secretary of the Scientific Committee of the Fardis Central Laboratory, 2011-2014.
4. Internet network manager of the Fardis Central Laboratory, 2011-2014.

Referees:

1. **Prof. Mohammad Javad Gharavi**, Department of Parasitology, Iran University of Medical Sciences, Tehran, Iran. Email: gharavi_m_j@yahoo.com
2. **Dr. Reza Falak**, Associate Professor, Department of Immunology, Iran University of Medical Sciences, Tehran, Iran. Email: falak.r@iums.ac.ir
3. **Prof Andrew Hemphill**, Department of Infectious Diseases and Pathobiology, faculty of vet Suisse, university of Bern, Switzerland. Email: andrew.hemphill@vetsuisse.unibe.ch