

Curriculum Vitae

Updated: 12 April 2018

General information

First name: Naseh

Last name: Maleki-Ravasan

Date and Place of Birth: 13 Oct 1980; Tabriz, East Azerbaijan, Iran.

Marital Status: Married, One child.

Degree: PhD in Medical Entomology and Vector Control

Academic Position: Assistant Professor

2014-2017: MVRG, Biotechnology Research Center, Pasteur Institute of Iran

2017-Present: Department of Parasitology, Pasteur Institute of Iran

Language: Turkish (mother tongue), Farsi (native), English (good)



Contacts

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Skills and Interests

Field activity: Visceral Leishmaniasis (Ardabil), Zoonotic Cutaneous Leishmaniasis (Isfahan), Plague (Hamadan), West Nile Virus (Gilan and Mazandaran), *Paederus* Dermatitis (Gilan and Mazandaran), and Malaria (Hormozgan, Sistan and Baluchestan)

Expertise: Various Fields of Medical Entomology, Parasitology, Microbiology of Insect Vector and Genetic Engineering, Bioinformatics Software used in Molecular Analysis

Specialization: Microbiology of Arthropods, Paratransgenesis

Interests: Genetics and Genomics of Insect Vectors, Vector Host-Feeding Preferences, Vector-Host-Parasite Interactions, Symbiosis, Pharmaceutical and Therapeutic Applications of Arthropods

Honors and awards

1. First rank student in the entrance exam and graduation in all BSC, MSC and PhD Courses.
2. Patent: Fabrication of a device to study of excito-repellency behavior of mosquitoes where it has been registered in the Iran Intellectual Property Office, under the No. of 91585.
3. Awarded from Iran's National Elites Foundation
4. Member of the Iranian Scientific Society of Medical Entomology
5. Member of the Research Center of the Islamic Consultative Assembly
6. Outstanding presentations/posters in congresses
 - a. 10th Iranian Congress of Biochemistry and 3rd International Congress of Biochemistry and Molecular Biology
 - b. Iranian Air Transportation Pathology and Challenges
 - c. The 17th International and Iranian Congress of Microbiology
7. Registration of more than 800 eukaryotic/prokaryotic genes/genomes at the GenBank
8. H-index=10 with more than 320 referrals
9. Receive appreciation letters from the Minister of Health of the time, President of Tarbiat Modares University, the Office of the Supreme Leader, etc.
10. As the first person who defend his thesis with score of 20 in the parasitology department (after 17 years of the establishment of this group in TMU)
11.

Teaching

Medical entomology, Apprenticeship, Genetic and Integrated Control of Insect Vectors, Advance Malaria, Advance Leishmaniasis, Rodents with medical Importance, Insect Systematics, Advance Systematics of Bacteria, etc.

Training Courses

Advance Leishmaniasis, Real Time-PCR, Laboratory Animals, Primer designing, NGS, Summer School of Field Epidemiology, Several courses of professorship, etc.

Publications

- 1- Oshaghi MA, **Maleki-Ravasan N**, Javadian EA, Mohebbali M, Hajjaran H, Zare Z, Mohtarami F, Rassi Y. 2009. Vector incrimination of sand flies in the most important visceral leishmaniasis focus in Iran. *The American journal of tropical medicine and hygiene*. 81 (4), 572-577.
- 2- Oshaghi MA, **Maleki-Ravasan N**, Hide M, Javadian EA, Rassi Y, Sadraei J, Mohebbali M, Sedaghat MM, Hajjaran H, Zarei Z, Mohtarami F. 2009. *Phlebotomus perfiliewi transcaucasicus* is circulating both *Leishmania donovani* and *L. infantum* in northwest Iran. *Experimental parasitology*. 123 (3), 218-225.
- 3- Oshaghi MA, **Maleki-Ravasan N**, Hide M, Javadian EA, Rassi Y, Sedaghat MM, Mohebbali M, Hajjaran H. 2009. Development of species-specific PCR and PCR-restriction fragment length polymorphism assays for *L. infantum/L. donovani* discrimination *Experimental parasitology*. 122 (1), 61-65.
- 4- **Maleki-Ravasan N**, Oshaghi MA, Javadian EA, Rassi Y, Sadraei J, Mohtarami F. 2009. Blood meal identification in field-captured sand flies: comparison of PCR-RFLP and ELISA assays *Iranian journal of arthropod-borne diseases* 3 (1), 8-18.
- 5- Oshaghi MA, **Maleki Ravasan N**, Javadian EA, Rassi Y, Sadraei J, Enayati AA, Vatandoost H, Zare Z, Emami SN. 2009. Application of predictive degree day model for field development of sandfly vectors of visceral leishmaniasis in northwest of Iran. *Journal of Vector Borne Diseases*. 46: 1-8.
- 6- **Maleki-Ravasan N**, Oshaghi MA, Afshar D, Arandian MH, Hajikhani S, Akhavan AA, Yakhchali B, Shirazi MH, Rassi Y, Jafari R, Aminian K, Fazeli-Varzaneh RA, Durvasula R. 2015. Aerobic bacterial flora of biotic and abiotic compartments of a hyperendemic Zoonotic Cutaneous Leishmaniasis (ZCL) focus *Parasites & vectors*. 8 (1), 63.
- 7- **Maleki-Ravasan N**, Oshaghi MA, Hajikhani S, Saeidi Z, Akhavan AA, Gerami-Shoar M, Shirazi MH, Yakhchali B, Rassi Y, Afshar D. 2014. Aerobic microbial community of insectary population of *Phlebotomus papatasi*. *Journal of arthropod-borne diseases*. 8(1): 69 –81.

- 8- Oshaghi MA, Rafinejad J, Choubdar N, Piazak N, Vatandoost H, Telmadarraiy Z, Mohtarami F, **Maleki-Ravasan N**. 2011. Discrimination of Relapsing Fever *Borrelia persica* and *Borrelia microtti* by Diagnostic Species-Specific Primers and Polymerase Chain Reaction–Restriction Fragment Length Polymorphism. *Vector-Borne and Zoonotic Diseases*. 11 (3), 201-207.
- 9- Karimian F, Oshaghi MA, Sedaghat MM, Waterhouse RM, Vatandoost H, Hanafi-Bojd AA, **Maleki-Ravasan N**, Chavshin AR. 2014. Phylogenetic analysis of the oriental-Palearctic-Afrotropical members of *Anopheles* (Culicidae: Diptera) based on nuclear rDNA and mitochondrial DNA characteristics *Japanese journal of infectious diseases*. 67 (5), 361-367.
- 10- Soltani A, Vatandoost H, Oshaghi MA, **Maleki-Ravasan N**, Enayati AA, Asgarian F. 2015. Resistance mechanisms of *Anopheles stephensi* (Diptera: Culicidae) to temephos. *Journal of arthropod-borne diseases*. 9(1): 71–83.
- 11- **Maleki-Ravasan N**, M Shayeghi, B Najibi, MA Oshaghi. 2012. Infantile nosocomial myiasis in Iran. *Journal of arthropod-borne diseases*. 6(2): 156–163.
- 12- **Malekei-Ravasan N**, Bahrami A, Shayeghi M, Oshaghi MA, Malek M, Mansoorian AB, Vatandoost H. 2013. Notes on the Iran Caddisflies and Role of Annulipalpien *Hydropsychid* Caddisflies as a Bio-monitoring Agent. *Journal of arthropod-borne diseases*. 7(1): 71 –82.
- 13- Bahrami A, Rassi Y, **Malekei-Ravasan N**, MA Oshaghi, A Akhavan, MR Yagoobi-Ershadi, S Rafizadeh. 2014. *Leishmania infantum* DNA detection in *Phlebotomus tobbi* in a new northern focus of visceral leishmaniasis in Iran. *Asian Pacific journal of tropical disease* 4 (2): 110-114.
- 14- **Maleki-Ravasan N**, Solhjoui-Fard S, Beaucournu JC, Laudisoit A, Mostafavi E. 2017. The Fleas (Siphonaptera) in Iran: diversity, host range, and medical importance. *PLoS neglected tropical diseases*. 11 (1), e0005260.
- 15- Karami M, Moosa-Kazemi SH, Oshaghi MA, Vatandoost H, Sedaghat MM, Rajabnia R, Hosseini M, **Maleki-Ravasan N**, Yahyapour Y, Ferdosi-Shahandashti E. 2016. *Wolbachia* endobacteria in natural populations of *Culex pipiens* of Iran and its phylogenetic congruence. *Journal of arthropod-borne diseases*. 10(3): 349 –365.

- 16- Bakhshi H, Oshaghi MA, Abai MR, Rassi Y, Akhavan AA, Mohebali M, Hajaran H, Mohtarami F, Mirzajani H, **Maleki-Ravasan N**. 2013. MtDNA cytb structure of *Rhombomys opimus* (Rodentia: Gerbellidae), the main reservoir of cutaneous leishmaniasis in the borderline of Iran-Turkmenistan. *Journal of arthropod-borne diseases*. 7(2): 173–184.
- 17- Dehghan H, Oshaghi MA, Moosa-Kazemi SH, Yakhchali B, Vatandoost H, **Maleki-Ravasan N**, Rassi Y, Mohammadzadeh H, Abai MR, Mohtarami F. 2017. Dynamics of Transgenic *Enterobacter cloacae* Expressing Green Fluorescent Protein-Defensin (GFP-D) in *Anopheles stephensi* under Laboratory Condition. *Journal of Arthropod-Borne Diseases*. 11 (4): 515-532.
- 18- Bahrami A, Heidari A, Barati H, **Maleki-Ravasan N**. 2017. Survey of the Main Vectors of Leishmaniasis, Fauna of Phlebotomine Sand Flies (Diptera: Psychodidae) in Alborz Province, Iran. *European Journal of Biomedical AND Pharmaceutical sciences*. 4 (4), 116-120.
- 19- Hoosh-Deghati H, Dinparast-Djadid N, Moin-Vaziri V, Atta H, Raz AA, Seyyed-Tabaei SJ, **Maleki-Ravasan N**, Alipour H, Zakeri S, Azar-Gashb E. 2017. Composition of *Anopheles* Species Collected from Selected Malarious Areas of Afghanistan and Iran. *Journal of arthropod-borne diseases*. 11(3): 354–362.
- 20- **Maleki-Ravasan N**, Bahrami A, Vatandoost H, Shayeghi M, Koosha M, Oshaghi MA. 2017. Molecular Characterization and Phylogenetic Congruence of *Hydropsyche sciligra* (Tricoptera: Hydropsychidae) Using Mitochondrial and Nuclear Markers. *Journal of arthropod-borne diseases*. 11(1): 60–77.
- 21- Agh-Atabay MD, Sofizadeh A, Ozbaki GM, **Maleki-Ravasan N**, Ghanbari MR, Mozafari O. 2016. Ecoepidemiological characteristics of a hypoendemic focus of zoonotic cutaneous leishmaniasis in north Iran (southeast of Caspian Sea). *J Vector Borne Disease*. 53, 248-256.
- 22- Gholami-Parizad E, **Maleki-Ravasan N**, Gholami-Parizad E, Karimian F, Karimian B. 2015. Frequency and Molecular Identification of *Leishmania* Parasites in Smears Prepared from Skin Lesions of Patients Referred to Health Centers of Ilam Province by Digestion of the rDNA-ITS1 Gene. *Modares Journal of Medical Sciences: Pathobiology*, 18 (2015-201 6): 75-85 (in Persian).

- 23- **Maleki-Ravasan N**, Javadian EA, Mohebbali M, Dalimi Asl AH, Sadraei J, Zarei Z, Oshaghi MA. 2008. Natural infection of sand flies *Sergentomyia dentata* in Ardebil to Lizard Leishmaniasis. Modarres Journal of Medical Sciences. 10: 65-73 (in Persian).
- 24- **Maleki-Ravasan N**, Hide M, Javadian EA, Oshaghi MA, Sadraei J. 2010. First report on the shortest CPB peptide chain in the *Leishmania donovani* complex and bioinformatical interpretations in relation with this mutation. Journal of Gorgan University of Medical Sciences 12 (2):1-9 (in Persian).
- 25- Mazloumi Gavvani AS, **Maleki-Ravasan N**, Mazloumi Gavvani F. 2011. Comparison of Nomadic and non-Nomadic Lifestyles in Transmission of Visceral Leishmaniasis Journal of Gorgan University of Medical Sciences; 13(1):94-100 (in Persian).
- 26- Oshaghi MA, Rafinejad J, Choubdar N, Barmaki A, Piazak N, Mohtarami F, Satvat T, Banafshi O, Taghiloo B, **Maleki-Ravasan N**. 2009. Evaluation of PCR and Xenodiagnosis assays for detection of *Borrelia persica* in soft ticks *Ornithodoros tholozani*. Modarres Journal of Medical Sciences. 12 (3) :9-16 (in Persian).
- 27- **Maleki-Ravasan N**, Javadian EA, Mohebbali M, Dalimi Asl AH, Sadraei J, Zarei Z, Oshaghi MA. 2008. Natural Infection of Sand Flies *Sergentomyia dentata* in Ardebil to Lizard *Leishmania*. Modarres Journal of Medical Sciences. 10:65-73 (in Persian).
- 28- **Maleki-Ravasan N**, Javadian EA, Rassi Y., Mohebbali M., Sadraei J., Zarei Z, Mohtarami F. Oshaghi MA. 2008. Detection and identification of *Leishmania* parasites within sand flies using kDNA, rDNA and CPB loci. Modarres Journal of Medical Sciences. 11(1-2) 81-89 (in Persian).

Conference presentations

1. **Maleki-Ravasan N**, Oshaghi MA. Javadian EA, Rassi Y, Mohtarami F. 2007. Age determination methods in the adult insects. **Poster**, Second National Conference on Zoological Sciences (Rasht).
2. **Maleki-Ravasan N**, Rasoolian M, Nikbakhtzadeh MR, Javadian EA, Sadraei J. 2007. The new pictorial key to 4th larvae of *Anopheles* (Dip: Culicidae) in Iran. **Oral**, Second National Conference on Zoological Sciences (Rasht).

3. Oshaghi MA, **Maleki-Ravasan N**, Javadian EA. 2008. Developing a predictive degree day model for field development of sandfly vectors of visceral leishmaniasis in northwest of Iran. **Poster**, International Congress of Entomology (South Africa).
4. **Maleki-Ravasan N**, Javadian EA, Rassi Y, Oshaghi MA, Sadraei J, Rafinedjad J. 2008. Study of the Genetic Diversity of *Leishmania donovani* complex Parasites in the Germe district. **Oral**, 6th Convention of Iranian Veterinary Clinicians. (Tabriz).
5. **Maleki-Ravasan N**, Javadian EA, Rassi Y, Sadraei J, Oshaghi MA. 2008. First report on the isolation of F-copy of the *Leishmania danvanni* complex from *Phlebotomus perfiliewi* in Iran. **Oral**, 6th Convention of Iranian Veterinary Clinicians. (Tabriz).
6. **Maleki-Ravasan N**, Hide M, Javadian EA, Oshaghi MA, Sadraei J. 2009. Discrimination between main causing visceral leishmaniasis *L. infantum/L. donovani* using two molecular assays: species-specific PCR and PCR-RFLP. **Poster**, 10th Iranian Congress of Biochemistry and 3rd International Congress of Biochemistry and Molecular Biology (Tehran).
7. **Maleki-Ravasan N**, Hide M, Javadian EA, Oshaghi MA, Sadraei J. 2009. First report on the shortest CPB peptide chain in the *Leishmania donovani* complex and bioinformatical interpretations in relation with this mutation. **Oral**, 10th Iranian Congress of Biochemistry and 3rd International Congress of Biochemistry and Molecular Biology (Tehran).
8. Oshaghi MA, **Maleki-Ravasan N**, Hide M, Javadian EA, Rassi Y, Sedaghat MM, Mohebbi M, Hajjarian H. 2009. Development of species-specific PCR and PCR-restriction fragment length polymorphism assays for *L. infantum /L. donovani* discrimination. **Oral**, Molecular and population biology of mosquitoes and other disease vectors (Greece).
9. **Maleki-Ravasan N**, Vatandoost H, Shayeghi M. 2011. *Polypedilum vanderplanki* (Dip: Chironomidae), the largest Extremophile. **Poster**, 11th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology.
10. **Maleki-Ravasan N**, Oshaghi MA, Akhavan AA, Yakhchali B, Rassi Y, Durvasula R. 2015. Bacterial Communities Associated with Phyllospheres of Haloxylon and Salsola Plants. **Poster**, The 16th International and Iranian Congress of Microbiology (Tehran).
11. **Maleki-Ravasan N**, Oshaghi MA, Akhavan AA, Yakhchali B, Rassi Y, Durvasula R. 2015. Possible Routes of Bacterial Acquisition by Adult *Phlebotomus papatasi* (Dip: Phlebotomidae). **Poster**, The 16th International and Iranian Congress of Microbiology (Tehran).

12. **Maleki-Ravasan N**, Koosha M, Oshaghi MA. 2014. Vector Borne, Zoonotic Diseases and Bioterrorism Agents three Health Medical Challenges in Global Air Transportation Network. **Oral**, Iranian Air transportation Pathology & Challenges Conference (Tehran).
13. **Maleki-Ravasan N**, Nasouri A, Raz AA, Bakhshi H, Alipour H, Torabi A, Dinparast Djadid N. 2015. Mass rearing of *Lucilia sericata* (Insecta: Diptera: Calliphoridae) for medical, veterinary and legal applications in the national insectary of Iran (NII). **Oral**, The first congress on applied zoology (Mashhad)
14. Biabangard-Esfahani E, **Maleki-Ravasan N**, Biabangard-Esfahani E. 2015. Arthropods and their related medical importance in the holy Quran. **Poster**, 2nd International and 9th National Congress of Parasitology and Parasitic Diseases of Iran (Rasht).
15. Hoosh Deghati Fooman H, Dinparast Djadid N, Moin Vaziri V, Raz AA, **Maleki-Ravasan N**, Alipour H, Seyyed Tabaei SJ. 2015. Morphological identification of *Anopheles* species in selected malarious areas of Afghanistan. **Poster**, 2nd International and 9th National Congress of Parasitology and Parasitic Diseases of Iran (Rasht).
16. Hoosh Deghati Fooman H, Dinparast Djadid N, Moin Vaziri V, Raz AA, **Maleki-Ravasan N**, Alipour H, Seyyed Tabaei SJ. 2015. Importance of vector incrimination in *Anopheles* mosquito for malaria control and prevention. **Poster**, The third national seminar on the role of medical basic sciences in health promotion (Tehran).
17. Ahmadi N, **Maleki-Ravasan N**, Dinparast Djadid N, Zakeri S, Soroushzadeh Z, Torabi MG. 2016. *Proteus mirabilis* as real symbiotic bacterium of *Lucilia sericata*. **Poster**, 2nd international & 14th Iranian Genetic Congress (Tehran).
18. Ahmadi N, **Maleki-Ravasan N**, Nemati-Mansoor F, Dinparast-Djadid N. 2016. Antibigram pattern of *Proteus mirabilis* strains retrieved from digestive tract of *Lucilia sericata*. **Poster**, The 17th International and Iranian Congress of Microbiology (Tehran).
19. Akhavan N, **Maleki-Ravasan N**, Dinparast Djadid N, Nemati Mansoor F. 2016. *Wolbachia* endobacteria in natural population of *Paederus fuscipes*: the agent of human dermatitis. **Poster**, The 17th International and Iranian Congress of Microbiology (Tehran).
20. Rahimi M, **Maleki-Ravasan N**, Nemati Mansoor F. 2016. Microbiology of pre-diuresis in *Anopheles stephensi*, the Asian malaria mosquito. **Poster**, The 17th International and Iranian Congress of Microbiology (Tehran).

21. Soroushzadeh Z, **Maleki-Ravasan N**, Raz A, Nemati Mansoor F. 2016. The usefulness of hypervariable regions of 16s rRNA gene for Identification of bacterial microflora of *Lucilia sericata*. **Poster**, The 17th International and Iranian Congress of Microbiology (Tehran).
22. **Maleki-Ravasan N**, Oshaghi MA, Akhavan AA, Saeidi Z, Koosha M. 2016. Oviposition inducer bacteria of gravid *Phlebotomus papatasi*. **Poster**, The 17th International and Iranian Congress of Microbiology (Tehran).
23. **Maleki-Ravasan N**, Oshaghi MA, Akhavan AA, Arandian MH. 2016. Aerobic gut bacteria of *Phlebotomus papatasi* from different ecotopes. **Poster**, The 17th International and Iranian Congress of Microbiology (Tehran).
24. **Maleki-Ravasan N**, Oshaghi MA, Akhavan AA. 2017. The Normal Bacterial Flora of The great gerbil. **Poster**, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).
25. **Maleki-Ravasan N**, Oshaghi MA. 2017. Evaluation of bacteria in a ZCL focus to find suitable candidates for paratransgenesis. **Oral**, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).
26. Tahghighi A, **Maleki-Ravasan N**, Ahmadvand R, Dinparast Djadid N. 2017. Larvicidal activity of Juniperus essential oil against *Anopheles stephensi*. **Poster**, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).
27. Ahmadvand R, Maleki-Ravasan N, Tahghighi A, Dinparast Djadid N. 2017. Pupicidal activity of Geranium essential oil against *Anopheles stephensi*. **Poster**, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).
28. Khanzadeh F, **Maleki-Ravasan N**. 2017. A rare case of adverse effects caused by hippoboscid bite. **Poster**, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).
29. Karami M, **Maleki-Ravasan N**. 2017. Environmental changes and vector-borne diseases: a case study on the faunistic shift. **Poster**, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).
30. Karimian F, Oshaghi MA, Sedaghat MM, Vatandoost H, **Maleki-Ravasan N**, Chavshin AR, Koosha M, Choubdar C. 2017. Molecular phylogeny of *Anopheles* (Culicidae: Diptera) in Iran

Poster, 1st International Congress on Vector-Borne Diseases and Climate Change & 3rd Iranian National Congress on Medical (Tehran).

Research Projects

1. Detection of natural *Leishmania infantum* infection in *Phelebotomus* spp. in an endemic region for visceral leishmaniasis in Ardebil, Iran: WHO grant, **Co-investigator**
2. Investigation of leptomonidal infection of sand flies from Shiraz city to *Leishmania major* and *L. tropica* parasites by semi-nested PCR in 2008-2009, Tehran/Shiraz University, **Co-investigator**
3. Epidemiological study on reservoirs of visceral leishmaniasis in endemic areas of East Azarbaijan province. Tabriz University, **Co-investigator**
4. The study of the vectors of visceral leishmaniasis through detection of *Leishmania infantum* using the latest molecular methods of semi-nested PCR, nested PCR, nested microsalat and phylogenetic analysis in East Azarbaijan province. Tabriz University, **Co-investigator**
5. Development of Geographic Information system to inform surveillance and control activities for visceral leishmaniasis and other vector borne and or zoonotic disease in northwest Iran. WHO grant, Tabriz University, **Co-investigator**
6. Identification of gut bacterial flora of *Anopheles stephensi* of non-infected and infected to the *Plasmodium falciparum* to identify potential candidate for use in the paratransgenesis approach, Pasteur Institute of Iran, **Principal investigator**
7. Faunistic study on vectors of Visceral and Cutaneous Leishmaniasis in Alborz province. Alborz University, **Co-investigator**
8. Identification and Comparison of Bacterial flora associated with different life stages of *Lucilia sericata* (Alborz Province- Garmdarreh strain) feeding on the sterile and non-sterile diets and their effects on maggot therapy. Pasteur Institute of Iran, **Co-investigator**
9. Cloning, expression, evaluation of the immunogenicity and transmission blocking activity of Plasmodium falciparum CelTOS formulated with adjuvants, CpG, MPL and QS-21. Pasteur Institute of Iran, **Co-investigator**
10. Investigation on parasitism of *Anopheles* mosquitoes by larvae of aquatic mites as a potential candidate for biological control of mosquito control in Amol city. Babol University, **Co-investigator**

11. Study on the *Wolbachia* infection in Culicidae mosquitoes and their ectoparasitic mites to explain effects of Wolbachia-induced cytoplasmic incompatibility in mosquito host population, Pasteur Institute of Iran, **Principal investigator**

Student theses (supervision or advisory)

Supervision

1. Molecular identification of bacteria in different physiological status of *Anopheles stephensi*, an important Asian malaria vector, to identification of suitable bacterial candidate for paratransgenesis (MSC thesis)
2. Molecular identification of bacteria associated with *Lucilia sericata* larvae used in the maggot therapy (MSC thesis)
3. Metagenomic investigation of bacteria associated with *Lucilia sericata* used in chronic wounds debridement (MSC thesis)
4. Investigation of the larvicidal activity of different Nanoemulsions of *Pelargonium roseum* (Geraniaceae) essential oil against Culicidae mosquitoes and its possible killing mechanisms (MSC thesis)

Advisory

1. Development of paratransgenic strains of *Anopheles stephensi* to reduce transmission capacity of malaria using recombinant *Enterobacter cloacae* bacteria expressing Defensin and Prochitinase proteins (PhD thesis)
2. Study on microflora and species richness of Hyalomma ticks, the vectors of CCHF virus, to determine an appropriate bacterial candidate for paratransgenesis in the main loci diseases in Iran (PhD thesis)
3. Investigation of inter and intra cellular symbionts in the digestive tracts of sandfly vectors of visceral leishmaniasis in northeastern, northeastern and southern Iran to find a suitable paratransgenesis candidate (PhD thesis)
4. Molecular Identification of *Wolbachia* endosymbionts of *Paederus* species in Northern Iran (MSC thesis)
5. Morphological and molecular identification of black flies (Dip: Simuliidae) and their vertebrate host preference using molecular methods in the Khoda-Afarin region (MSC thesis)

Refereeing

Theses, Books, Patents, Papers, Projects etc.

References

1. Dr. Mohammad Ali Oshaghi, Professor in Medical Entomology, Department of Medical Entomology and Vector Control, School of Public Health and Institute of Health Research, Tehran University of Medical Sciences, Tehran 14155-6446, Iran. Tel/Fax: +98 21 88951393. E-mail addresses: moshaghi@sina.tums.ac.ir, oshaghima@yahoo.com.
2. Dr. Hassan Vatandoost, Professor in Medical Entomology, Department of Medical Entomology and Vector Control, School of Public Health and Institute of Health Research, Tehran University of Medical Sciences, Tehran 14155-6446, Iran. Tel/Fax: +98 21 88951393. E-mail addresses: hvatandoost1@yahoo.com, vatando@tums.ac.ir
3. Dr. Amir Ahmad Akhavan, Associate Professor in Medical Entomology, Department of Medical Entomology and Vector Control, School of Public Health and Institute of Health Research, Tehran University of Medical Sciences, Tehran 14155-6446, Iran. Tel/Fax: +98 21 88951393. E-mail addresses: aaakhavan@yahoo.com, aaakhavan@tums.ac.ir