

Curriculum Vitae (C.V)

Azim Paksa

Assistant Professor of Medical Entomology and Vector Control

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Education

2019 **Ph.D. in Medical Entomology and Vector Control**, Department of Medical Entomology and Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.

2010 **Master of Medical Entomology and Vector Control**, Department of Medical Entomology and Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.

2007 **Bachelor of Medical Entomology and Vector Control**, Department of Medical Entomology and Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran.

Dissertation Study on genetic diversity, Wolbachia infection, and some ecological features of *Aedes caspius* and *Aedes vexans*, two mains potential arboviral vectors in north, center and south of Iran
Title of Ph.D.
Graduates

Dissertation Detection of organophosphates and carbamates Resistance Mechanisms among German Cockroach *Blattella germanica* (Blattaria: Blattellidae)
Title of MSc
Graduates Collected from Tehran Hospitals, in Iran

Publications & Presentations

Title	Index	Journal	Year
Evaluation of biological control agents for mosquitoes' control in artificial breeding place.	ISI	Asian Pacific Journal of Tropical Medicine	2010
Epidemiology of head lice infestation in primary school pupils, in Khajeh City, east Azerbaijan province, Iran	ISI	Iranian Journal of Arthropod-Borne Diseases	2010
Survey of Optimal Methods for the Control of Cockroaches in Sewers of Qom City	ISC	Iran. J. Health & Environ	2010
Detection of malathion and chlorpyrifos resistance mechanism in German cockroaches (<i>Blattella germanica</i> , Insecta: Blattodea: Blattellidae) using piperonyl butoxide and tributyl phosphorotrichioate	ISC	Hormozgan Medical Journal	2010
Comparing the synergistic effect piperonyl butoxide and tributyl phosphorotrichioate on Carbaryl and Bendiocarb insecticides of creating resistance in the German cockroach by.	ISC	Sci J Kurdistan Univ Med Sci	2012
Detection of Carbamat and Oregano Phosphorus Susceptibility Levels in German Cockroach in Vivo	ISC	Journal of School of Public Health, Yazd	2013
The prevalence of pediculosis capitis and relevant factors in primary school students of Kashan, Central Iran	ISI	Asian Pacific Journal of Tropical Disease	2014
Analysis of Cockroach Fauna and Frequency in Human Residential Habitats of North of Isfahan, Iran	ISC	International Archives of Health Sciences	2014
Detection of cyfluthrin resistance mechanisms among German cockroach strains in vivo in Kashan	ISC	KAUMS Journal (Feyz)	2014
Detection of Bendiocarb and Carbaryl Resistance Mechanisms among German Cockroach <i>Blattella germanica</i> (Blattaria: Blattellidae).	ISI	Journal of Arthropod-Borne Diseases	2016
Chemical Composition and Mosquito Larvicidal Properties of Essential Oil from Leaves of an Iranian Indigenous Plant <i>Zhumeria majdae</i>	ISI	Journal of Essential Oil-Bearing Plants	2016
Baseline susceptibility of filarial vector <i>Culex quinquefasciatus</i> (Diptera: Culicidae) to five insecticides with different modes of action in Southeast of Iran	ISI	Journal of Arthropod-Borne Diseases	2017

Larvicidal effects of essential oil and methanol extract of <i>Achillea wilhelmsii</i> C. Koch (Asteraceae) against <i>Anopheles stephensi</i> Liston (Diptera: Culicidae), a malaria vector	ISI	Journal of Kerman University of Medical Sciences	2017
Phytochemical Profile and Mosquito Larvicidal Activity of the Essential Oil from Aerial Parts of <i>Satureja bachtiarica</i> Bunge Against Malaria and Lymphatic Filariasis Vectors	ISI	Journal of Essential Oil-Bearing Plants	2017
Phytochemical Properties and Insecticidal Potential of Volatile Oils from <i>Tanacetum persicum</i> and <i>Achillea kellalensis</i> Against Two Medically Important Mosquitoes	ISI	Journal of Essential Oil-Bearing Plants	2017
Synergists action of piperonyl butoxide and S, S, S-tributyl phosphorotriothioate on toxicity of carbamate insecticides against <i>Blattella germanica</i>	ISI	Asian Pacific Journal of Tropical Medicine	2017
Identification of common aquatic insects of Jajroud River	ISI	Journal of Entomology and Zoology Studies	2017
Susceptibility status of German cockroaches, <i>Blattella germanica</i> (L.) to carbamate and pyrethroid insecticides within surface contact method in Shiraz city, Iran	ISI	Journal of Entomology and Zoology Studies	2018
Biochemical Basis of Cyfluthrin and DDT Resistance in <i>Anopheles stephensi</i> (Diptera: Culicidae) in Malarious Area of Iran	ISI	Journal of Arthropod-Borne Diseases	2018
Biodiversity and some ecological aspects of mosquitoes (Diptera: Culicidae) with emphasis on potential arbovirus vectors in East Azerbaijan province, northwestern Iran	ISI	Journal of Arthropod-Borne Diseases	2019
Wild chive oil is an extremely effective larvicide against malaria mosquito vector <i>Anopheles stephensi</i>	ISI	Asian Pacific Journal of Tropical Medicine	2019
Determination of baseline susceptibility of <i>Culiseta longiareolata</i> (Diptera: Culicidae) to selected insecticides with different mechanisms of action	ISI	Asian Pacific Journal of Tropical Medicine	2019
First Record of Human Urogenital Myiasis Caused by <i>Psychoda albipennis</i> Larvae (Diptera: Psychodidae), Tabriz, East Azerbaijan Province, Iran: A Case Report	ISI	Journal of Arthropod-Borne Diseases	2020
Evaluation of different attractive traps for capturing sand flies (diptera: Psychodidae) in an endemic area of leishmaniasis, Southeast of Iran	ISI	Journal of Arthropod-Borne Diseases	2020
Diversity of Phlebotomine sand flies (Diptera: Psychodidae) in mountainous and plain areas of an endemic focus of anthroponotic cutaneous leishmaniasis in Iran	ISI	Journal of Arthropod-Borne Diseases	2020

Molecular assay on detection of crimean congo hemorrhagic fever (CCHF) virus in ixodid ticks collected from livestock in slaughterhouse from south of Iran	ISI	Journal of Arthropod-Borne Diseases	2020
Monitoring and mapping of insecticide resistance in medically important mosquitoes (Diptera: Culicidae) in iran (2000-2020): A review	ISI	Journal of Arthropod-Borne Diseases	2021
Mosquito surveillance and the first record of morphological and molecular-based identification of invasive species <i>Aedes (Stegomyia) aegypti</i> (Diptera: Culicidae), southern Iran	ISI	Experimental Parasitology	2022
Biodiversity of mosquitoes (Diptera: Culicidae), vectors of important arboviral diseases at different altitudes in the central part of Iran	ISI	Turkish Journal of Zoology	2023
Monitoring of Dengue Virus in Field-caught Aedes Species (Diptera: Culicidae) by Molecular Method, from 2016 to 2017 in Southern Iran	ISI	Journal of Health Sciences and Surveillance System	2023
Determination of the feeding behavior of <i>Phlebotomus sergenti</i> using multiplex PCR and tent-baited traps in a new focus of Anthroponotic Cutaneous Leishmaniasis in the southeast of Iran	ISI	Experimental Parasitology	2023
Snakebite Envenomation from the Large Palearctic Viper, <i>Macrovipera razii</i> (Squamata: Serpentes; Viperidae), in Fars Province, Southern Iran	ISI	Journal of Tropical Medicine	2024
Faunistic composition and spatial distribution of scorpions in Fars Province, south of Iran	ISI	Invertebrate Zoology	2024
Preliminary monitoring of knockdown resistance (kdr) mutation in <i>Anopheles stephensi</i> : insights from a malarious area in Southeastern Iran	ISI	Malaria Journal	2024
Population genetic structure and phylogenetic analysis of <i>Anopheles hyrcanus</i> (Diptera: Culicidae) inferred from DNA sequences of nuclear ITS2 and the mitochondrial COI gene in the northern part of Iran	ISI	BMC Infectious Diseases	2024
First report on the molecular phylogenetics and population genetics of <i>Aedes aegypti</i> in Iran	ISI	Parasites and Vectors	2024
High Resistance to DDT and Common Pyrethroid Insecticides in <i>Aedes aegypti</i> , From Iran	ISC	Parasites and Vectors	2024
Some epidemiological aspect of scorpion stings and species composition of scorpions in Basht, Kohgiluyeh and Boyer-Ahmad province	ISC	Journal of Preventive Medicine	2024

Insects and COVID-19	ISC	Journal of Jiroft University of Medical Sciences	2024
Screening of Natural Wolbachia Infection in <i>Aedes Caspius</i> and <i>Culex Pipiens</i> as Potential Vectors of Arboviral Diseases in Shiraz, South of Iran	ISI	Journal of Health Sciences and Surveillance System	2025
Innovative trap approaches for studying <i>Phlebotomus papatasi</i> : Emphasizing color and position	ISI	Acta Tropica	2025
Genetic diversity and population structure of <i>Aedes caspius</i> in Iran	ISI	Scientific Reports	2025
Invisible Intruders: A Review of Relationship Between Mite Infestation and Ocular Blepharitis	ISI	Current Ophthalmology Reports	2025
Evaluation of the Larvicidal and Repellency of Extracts and Silver Nanoparticles Biosynthesized with <i>Zataria multiflora</i> (Shirazi Thyme) against <i>Anopheles stephensi</i>	ISI	Journal of Arthropod-Borne Diseases	2025

Presentations

1. **Identification of chemical constituents and Mosquito Larvicidal potential of Essential Oil from areal parts of an Iranian Indigenous Plant *Tanacetum persicum*.** Second Iranian International Congress of Entomology. 2-4 September 2017, Karaj, Iran.
2. **Biochemical basis of DDT resistance in *Anopheles stephensi* (Diptera: Culicidae) in southeastern of Iran.** Second Iranian International Congress of Entomology. 2-4 September 2017, Karaj, Iran.
3. **Identification of chemical constituents and larvicidal properties of Essential Oil from *Zhumeria majdae* against two important vector mosquitoes.** Vector-Borne Diseases and Climate Change & third Iranian National Congress on Medical Entomology. 3-5 December 2017, Tehran, Iran.
4. **Comparison susceptibility of german cockroaches (*Blattella Germanica*) to Carbamate and pyrethroid insecticides on surface contact as proposed by world health organization in Shiraz.** Vector-Borne Diseases and Climate Change & third Iranian National Congress on Medical Entomology. 3-5 December 2017, Tehran, Iran.

- 5. **Study hard tick infestation of livestock transported to Rafsanjan slaughter house.** Vector-Borne Diseases and Climate Change & third Iranian National Congress on Medical Entomology. 3-5 December 2017, Tehran, Iran.
- 6. **Synergists action of piperonyl butoxide and s,s-tributyl phosphorotrichioate on toxicity of Carbamate insecticides against *Blattella Germanica*.** Vector-Borne Diseases and Climate Change & third Iranian National Congress on Medical Entomology. 3-5 December 2017, Tehran, Iran.
- 7. **The Synergism effect of PBO on Bendiocarb and Carbaryl among German cockroach in vivo.** Vector-Borne Diseases and Climate Change & third Iranian National Congress on Medical Entomology. 3-5 December 2017, Tehran, Iran.
- 8. **Detection of cyfluthrin resistance mechanisms among German cockroach strains in vivo in Kashan.** The 23rd Iranian Congress on Infectious Diseases and Tropical medicine. 12-16 Jan 2015, Sary, Iran.
- 9. **The prevalence of pediculosis capitis and relevant factors in primary school students of Kashan, Central Iran.** National Congress on Infectious Diseases. 25 May 2014, Sary, Iran.
- 10. **The distribution map of medically important scorpions of Iran.** The First Regional Congress on Venomous Animals and Toxin. 22-24 November 2011, Karaj, Iran.
- 11. **Integrated Rodents management (IRM) in Shariati hospital, Tehran, Iran.** 6th National Congress in Medical Sciences. Tehran University of Medical Sciences, Tehran, Iran, 12 May 2010.
- 12. **Analysis of the Contents of Iranian newspapers about the arthropods of medical importance.** 5th National Congress in Medical Sciences. Tehran University of Medical Sciences, Tehran, Iran, 22 April 2009.
- 13. **The knowledge level of medical sciences students about nanotechnology.** 4th National Congress in Medical Sciences with focus on nanotechnology. Tehran, Iran, 20 May 2008.
- 14. **The population density of rodents correlated with environmental improvement programs in Valiasr Avenue, Tehran, Iran.** National Conference on Iran's Environment, Tehran, Iran. 9-10 June, 2008.
- 15. **Synergists action of piperonyl butoxide and S, S, S-tributyl phosphorotrichioate on toxicity of carbamate insecticides against *Blattella germanica*.** 4th National Biology Conference, Payame Noor University, Estahban Branch, 2022.
- 16. **Geographic Distribution of the Dangerous Scorpion *Gadim* in Fars Province.** 4th National Biology Conference, Payame Noor University, Estahban Branch, 2022.
- 17. **Report of the Black Widow Spider from Kazeroon County, Fars Province, Iran.** 4th National Biology Conference, Payame Noor University, Estahban Branch, 2022.

Participation in internal conferences without presenting articles:

Title	Location	Year
5th National Congress in Medical Sciences	Tehran University of Medical Sciences	2009
2th National Congress Global Environment Day	Tehran University	2009
4th National Congress in Medical Sciences With focus on nanotechnology.	Tehran University of Medical Sciences.	2008
2th National Congress of Medical Entomology and Vector Control.	Tehran University of Medical Sciences	2006

Research Projects

1. **Detection of Bendiocarb and Carbaryl Resistance Mechanisms among German Cockroach *Blattella germanica* (*Blattaria: Blattellidae*) collected from Tabriz hospitals, East Azerbaijan Province, Iran in 2013.** (2014-2015). Status: finished, Sponsor: Kashan University Medical Sciences, Kashan, Iran (As executive director).
2. **Detection of cyfluthrin resistance mechanisms among German cockroach strains by in vivo method in Kashan.** (2012-2013). Status: finished, Sponsor: Kashan University Medical Sciences, Kashan, Iran (As executive director).
3. **Study on genetic diversity, Wolbachia infection, and some ecological features of *Aedes caspius* and *Aedes vexans*, two mains potential arboviral vectors in north, center and south of Iran.** (2018). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As executive director).
4. **Survey the Insect Pests in Residential Complex and Student Dormitory of Kashan University of Medical Sciences During 2015.** Status: finished, Sponsor: Kashan University Medical Sciences, Kashan, Iran (As executive director).
5. **Survey of head louse infestation in male and female primary students Kashan 2011-2012.** Status: finished, Sponsor: Kashan University Medical Sciences, Kashan, Iran (As executive director).
1. **Identification of CCHF vectors in Livestock of Kerman slaughter house in 1395.** Status: finished, Sponsor: Kerman University of Medical Sciences, Kerman, Iran (As principal collaborator).
6. **Determination of infection of primary school girl students to head lice in Savojbolagh.** (2007). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).
7. **Survey of larvicidal and repellent effects of *Lawsonia inermis* extract on the larval and adult stage of *Anopheles stephensi*.** (2008). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).
8. **Survey of some ecological features of Dirofilariasis vectors in Ahar, East Azerbaijan Province, northwestern of Iran.** (2008). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).

9. **Collection and identification of the marginal weeds of railway lines.** (2008). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).

10. **Identification of *Culex pipiens* complex mosquitoes in Zanjan Province.** (2009). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).

11. **Identification and measurement of cantharidine chemical and its related compounds in *oedemeeridae* Family in Damavand Regions.** (2009). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).

12. **Effect of ultraviolet radiation on the mortality of the immature stages of *Anopheles stephensi* and *Culex pipiens* complex.** (2009). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).

13. **Evaluation of the Efficiency of Ultrasound Technology on the mortality of immature stages of *Culex pipiens* complex.** (2010). Status: finished, Sponsor: Tehran University of Medical Sciences, Tehran, Iran (As principal collaborator).

14. **Chemical composition and Larvicide activity of essential oils from *Tanacetum parthenium*, *Satureja bachtiarica* 'Allium schoenoprasum and *Achillea kellaensis* against *Anopheles stephensi*, the main malaria vector in southern Iran.** Status: finished, Sponsor: Hormozgan University Medical Sceinces, Hormozgan, Iran (As principal collaborator).

15. **Chemical composition and Larvicide activity of essential oils from *Tanacetum parthenium*, *Satureja bachtiarica* 'Allium schoenoprasum and *Achillea kellaensis* against *Anopheles stephensi*, the main malaria vector in southern Iran.** (2015). Status: finished, Sponsor: Hormozgan University Medical Sceinces, Hormozgan, Iran (As principal collaborator).

16. **The distribution of medically important flies in Bandar Abbas hospitals, 20016.** Status: finished, Sponsor: Hormozgan University Medical Sceinces, Hormozgan, Iran (As principal collaborator).

17. **Molecular study on Knockdown resistance among various populations of *Anopheles stephensi* to DDT and pyrethroid insecticides used in malaria elimination program in Hormozgan Province, Iran.** Status: finished, Sponsor: Hormozgan University Medical Sceinces, Hormozgan, Iran (As principal collaborator).

18. **Faunal and genetic study of *Aedes caspius*, a potential vector of arboviruses, using the ND4 gene in Fars and Ardabil provinces.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

19. **Study of Genetic diversity and population structure of *Aedes aegypti*, the main vector of arboviruses, using the ND4 gene in southern Iran.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

20. **Investigation of head lice infestation in elementary school students in Delvar County in 2024.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

21. **Investigation of *Blattella germanica* and *Periplaneta americana* infection with Wolbachia bacteria in Fars Province in 2024.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

22. **Molecular Insights into Shiraz *Simulium* Populations Identification via CO1 and ITS2.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

23. **Investigating the genetic diversity of *Culiseta longiareolata* (Diptera: Culicidae) in Shiraz based on Co1 gene.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

24. **Investigation the *Hepatozoan* infection of hard ticks with emphasis on medically important parasitic species in Zabol city in 2024.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

25. **Epidemiological study of scorpion bites and identification of scorpion's species in Gachsaran and Bashet countries.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

26. **Investigation of Welbasha infection in *Aedes aegypti* the Main Arbovirus Vector and other Aedes species, by molecular method, in the Bandar Abbas city, in Hormozgan province, south of Iran.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

27. **Investigating on Genetic Diversity and Phylogeny of *Aedes aegypti*, the Main Arbovirus Vector in the Hormozgan province, south of Iran.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

28. **Investigating and determining the effectiveness of different types of colored traps in vertical and horizontal conditions on the catch rate of *Phlebotomus papatasi* (Diptera: Psychodidae) in a zoonotic cutaneous leishmaniasis focus in Shiraz County, Fars Province.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

29. **Evaluation absorption rate of German cockroaches to food-based attractants in laboratory and field conditions.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

30. **Investigation of effective factors in head lice infestation among primary school students in rural and urban areas of Shiraz in 2022.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

31. **Identification of blood meal in Phlebotomine sand flies by molecular method in selected cities of Fars province, southern Iran.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

32. **Investigation of faunistic and blood meal preference of the dominant *Culex pipiens* mosquito complex by molecular method in selected areas of Fars province in 2022.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

33. **Investigating the infection of mosquito populations of *Aedes caspius* and *Culex pipiens* with Wolbachia bacteria as potential vectors of WNV virus in the city of Shiraz in 2022.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran. (As executive director).

34. **The effect of ivermectin on the gut microbiome of *Aedes aegypti* and its impact on the biology of this mosquito under laboratory conditions.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

35. **Investigating the effect of ascomycete fungi against the egg, larval and adult stages of the main vector of malaria, *Anopheles stephensi*.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

36. **Investigating the effect of educational intervention based on health belief model on preventive behaviors of diseases transmitted by *Aedes aegypti* mosquito in Bandar Abbas city in 2024-2025.** Status: finished, Sponsor: Shiraz University Medical Sciences, Shiraz, Iran (As executive director).

37. **Investigation of the fauna, genetic diversity and Welbachia infection of Culicidae mosquitoes, potential vectors of arboviruses (*Aedes caspius* and *Culex pipiens*) in Jiroft city, south of Kerman province.** Status: finished, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

38. **Investigating the plant sources (Plant Feeding Preferences) utilized by *Aedes aegypti*, the dengue fever vector in southern Iran, using NGS method.** Status: finished, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

39. **Systematic review of health outcomes of dengue fever in accidents and disasters.** Status: finished, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

40. **Study of Chikungunya and West Nile arboviruses infections in blood donors of the Blood Transfusion Organization and the predominant species of culicidae mosquitoes in selected areas of the south of Fars province using molecular method in 2022.** Status: finished, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

41. **Molecular monitoring of pesticide resistance in *Anopheles dthali*, the key malaria vector in Fars Province, using the genes ace-1, vgsc, and chs-1, 2025.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

42. **Study on some ecological characeristic and biodiversity indices of Culicini mosquitoes (Diptera Culicidae) with emphasis on important medical and veterinary vectors, Bam County, Kerman Province. 2021-2022.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

43. **Modelling the potential areas and environmental conformability for zoonotic cutaneous Leishmaniasis in Fars Province, southern Iran inferring from molecular and MaxEnt output data.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator). (As principal collaborator).

44. **Epidemiological study of snake bites in Fars province in the last ten years and snake fauna of Shiraz.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

45. **DNA Barcoding and taxonomic evaluation of the scorpion species of the Genus *Hottentotta Birula, 1908* from southern Iran using molecular data set of COI gene.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

46. **Study on the blood feeding preference and faunestic of *Anopheles* species in rural areas and suburb of Shiraz city by molecular method in 2022.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

47. **Molecular identification and genetic diversity of *Haemaphysalis* ticks isolated from rodents in Shiraz using CO1 and ITS1 genes.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

48. **Molecular investigation of infection of Shiraz rodents with *Borrelia* and *Salmonella* pathogenic bacteria.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

49. **Identification of Sarcophagid Flies (Diptera Sarcophagidae) in shiraz.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

50. **Molecular survey of Wolbachia infection in mosquitoes of Golestan province.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator). (As principal collaborator).

51. **Investigation of faunistic and blood meal preference of the *Culex pipiens* complex by molecular method in selected areas of Golistan province.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

52. **Molecular phylogeny of *Anopheles hyrcanus* group (Diptera Culicidae) based on mtDNA-COI and rDNA-ITS.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

53. **Integrative systematics of ectoparasitic insects of bats using molecular and morphological approach in Fars Province.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

54. **Molecular phylogeny of medically important snails, the vectors of trematode parasites in selected regions of Iran.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

55. **Study of genetic diversity of *Culex sitiens* mosquito (major vector of Japanese encephalitis) based on mitochondrial CO1 gene data in Iran.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

56. **Molecular identification of *Simulium* mosquitoes in selected rivers of Shiraz using co1 and Its2 genes.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

57. **Molecular Detection of Microsporidia Parasites in *Aedes caspius* and *Aedes aegypti* Using 18S rRNA Gene Sequencing in Southern and Western Iran.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

58. **Investigation of the medically important cockroaches' infestation in Shirazs Parks.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

59. **Genetic diversity and Taxonomic evaluation of the scorpion *Hemiscorpius lepturus* in southwestern Iran using molecular data set of COI gene.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

60. **Evaluation of head lice in elementary school students in Delaware County in 2025.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

61. **A systematic review of scorpion stings worldwide with emphasis on clinical manifestations, control, and treatment, 2025.** Status: finished, Sponsor: Tabriz University Medical Sceinces, Shiraz, Iran (As principal collaborator).

62. **A Study on the Fauna and Ecology of Scorpions in the Northern Part of Kerman Province, 2020.** Status: finished, Sponsor: Kerman University Medical Sceinces, Kerman, Iran (As principal collaborator).

63. **Molecular study of the medically important fly *Pseudolynchia canariensis* based on the COI gene and identification of Wolbachia bacteria with wsp and 16S genes in Shiraz in 2025.** Status: Ongoing, Sponsor: Shiraz University Medical Sceinces, Shiraz, Iran (As executive director).

Member of Organizing Committee in Scientific Congresses and other activities

Member of the Organizing Committee: Vector-Borne Diseases and Climate Change & third Iranian National Congress on Medical Entomology. 3-5 December 2017, Tehran, Iran.

Member of the Organizing Committee: 5th National Congress in Medical Sciences. Tehran University of Medical Sciences, Tehran, Iran, 22 April 2009.

Member of the Scientific Committee: 5th National Congress in Medical Sciences. Tehran University of Medical Sciences, Tehran, Iran, 22 April 2009.

Specialized Training courses

- **Workshop for teaching techniques & strategies.** Organized by Faculty of Health, Tehran University of Medical Sciences, Tehran, Iran. 16-17 May, 2018.
- **The Blowflies (Diptera: Calliphoridae) Identification, Biology, Ecology and Forensic Application.** Organized jointly by the Department of Medical Entomology and Vector Control, School of Public health, Tehran University of Medical Sciences and Department of Animal Ecology, Nicolaus Copernicus University of Poland. 5-6 May, 2014.
- **Workshop for SPSS Statistical software** Organized by Faculty of medical, Kashan University of Medical Sciences, Kashan, Iran. 19 May, 2014.
- **Workshop for Lisrel software.** Organized by Faculty of medical, Kashan University of Medical Sciences, Kashan, Iran. 24 April, 2014.
- **workshop of western blot.** Organized by Faculty of medical, Kashan University of Medical Sciences, Kashan, Iran. 7-8 May, 2014.
- **Workshop on how to Review a scientific paper.** Organized by Faculty of medical, Kashan University of Medical Sciences, Kashan, Iran. 6 March, 2014.
- **National workshop on prevention, treatment and control of toxic bites of animals in Iran.** Organized by Faculty of medical, Kashan University of Medical Sciences, Kashan, Iran. 15 -16 February, 2012.

- **Workshop on how to write ISI articles.** Organized by Faculty of medical, Kashan University of Medical Sciences, Kashan, Iran. 27 December, 2011.
- **Research Methodology.** Organized by Tehran University of Medical Sciences, Tehran, Iran. Jan, 2008.
- **Practical field training course on Medical entomology & Vector control.** Organized by Department of Medical Entomology and Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran. Jun to Sep, 2008.
- **Practical field training course on Medical entomology & Vector control.** Organized by Department of Medical Entomology and Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran. Jul to Sep, 2005.
- **Workshop of first aid and emergency medical services.** Zanjan Red Crescent Society. Iran. 23-29 August, 2004.
- **Participation in the Medical Education Fellowship Program in June & July.** Shiraz University of Medical Sciences.
- **Participation in the 32nd National E-Learning Fellowship Program. 2022,** Shiraz University of Medical Sciences.
- **Participation in the 2022 Civil Defense Training Workshop,** Shiraz University of Medical Sciences.
- **Participation in the 2021 Acarology Training Workshop,** Shiraz University of Medical Sciences.
- **Participation in the 2021 Training Workshop on Ethics in Health Education and Health Promotion,** Shiraz University of Medical Sciences.

Memberships

- **Iranian Society of Medical Entomology. Activity Type: Member (2006- Present)**
- **Iranian Society of Medical Parasitology. Activity Type: Member (2008- Present)**

Thesis Supervisor for Graduate Studies:

- Investigation of species composition, genetic diversity, and ecological characteristics of Culicidae mosquitoes in selected regions of Khuzestan Province, with emphasis on determining their infection status with *dengue*, *Zika*, and *chikungunya* arboviruses in *Aedes* species (**Ph.D. dissertation, 2025–2026**).
- Assessment of the impact of ivermectin on the gut microbiome of *Aedes aegypti* and its subsequent effects on the biology of this mosquito under laboratory conditions (**M.Sc. thesis**).
- Evaluation of the efficacy of the ascomycete fungi *Tolypocladium inflatum* and *Trichoderma reesei* against egg, larval, and adult stages of *Anopheles stephensi*, the primary malaria vector (**M.Sc. thesis**).
- Investigating the effect of a health belief model-based educational intervention on preventive behaviors against *Aedes aegypti*-borne diseases in Bandar Abbas, 2024–2026 (**M.Sc. thesis**).
- Study of the fauna, genetic diversity, and *Wolbachia* infection status of Culicidae mosquitoes—potential vectors of arboviruses—including *Aedes caspius* and *Culex pipiens* in Jiroft County, southern Kerman Province (**M.Sc. thesis**).
- Assessment of head lice infestation among male and female primary school students in Kashan during 2011–2012 (**M.Sc. thesis**).

Thesis Advisor for Graduate Studies:

- Molecular surveillance of concurrent infection with *Toscana* virus and *Leishmania* parasites in dominant sand fly species in selected regions of Fars and Ilam Provinces (**Ph.D. dissertation, 2025–2026**).
- Evaluation of the repellent properties of a nanoliposomal gel formulation containing green tea and clove essential oils against *Anopheles stephensi*, the primary malaria vector (**M.Sc. thesis**).
- Design and development of an Attractive Toxic Sugar Bait (ATSB) trap using human- and plant-derived olfactory chemical attractants encapsulated in chitosan-based hydrogel carriers, combined with the insecticide dinotefuran, for attracting *Aedes aegypti* under laboratory and semi-field conditions (**Ph.D. dissertation**).

- RNA interference (RNAi)-mediated silencing of the Rdl gene encoding the ionotropic γ -aminobutyric acid receptor (GABAR) in a fipronil-resistant strain of the German cockroach (*Blattella germanica*) (**Ph.D. dissertation**).
- Molecular and microscopic investigation of infection with *Wolbachia* bacteria and microsporidian parasites in medically important Culicidae mosquitoes in selected areas of Shiraz County (**M.Sc. thesis**).
- A systematic review of scorpion envenomation worldwide, with emphasis on clinical manifestations, management, and treatment strategies (**M.Sc. thesis**).

Reviewing articles in reputable scientific journals

- Scientific Reports
- Acta Tropical
- Journal of Health Sciences and Surveillance System
- BMC Infectious Diseases
- Malaria Journal
- Journal of Arthropod Borne Diseases
- Journal of Kerman University of Medical Sciences

Genes deposited in gene Bank:

Submission	Title	App	Accession number in GenBank
SUB13375182	Metazoan Mitochondrial COX1 / <i>Aedes aegypti</i>	GenBank	OQ997236-OQ997240
SUB13653519	Metazoan Mitochondrial COX1 / <i>Culiseta longiareolata</i>	GenBank	OR250657-OR250662
SUB13733179	Metazoan Mitochondrial COX1 / Genetic diversity in <i>Aedes aegypti</i> mosquito	GenBank	OR398783-OR398787
SUB13733179	Metazoan Mitochondrial COX1 / Genetic diversity in <i>Aedes aegypti</i> mosquito	GenBank	OR398783-OR398787
SUB14281575	Eukaryotic Nuclear rRNA/ITS / new member of <i>Anopheles hyrcanus</i> group in Iran	GenBank	PP419983-PP419988
SUB14281614	Metazoan Mitochondrial COX1 / new member of <i>Anopheles hyrcanus</i> group in Iran	GenBank	PP422139-PP422145
SUB15365484	Prokaryotic 16S rRNA / <i>Wolbachia pipiensis</i>	GenBank	PV739800-PV739803
SUB15482087	Metazoan Mitochondrial COX1 / <i>Simulium ornatum</i>	GenBank	PV974980-PV974983
SUB15712932	Eukaryotic Nuclear rRNA/ITS / Molecular confirmation of <i>Hepatozoon canis</i> in Iran	GenBank	PX460723-PX460726
BankIt2226384	Metazoan Mitochondrial COX1 / <i>Aedes capius</i>	GenBank	MK962479- MK962511
BankIt1903701	Metazoan Mitochondrial COX1 / <i>Aedes vexans</i>	GenBank	MK962499- MK962505

BankIt1903279	<i>Anopheles stephensi</i> strain Chah-Bahar isolate CHBDR01 voltage-gated sodium channel (VGSC) gene, partial cds	GenBank	KU928311-KU949591
SUB15807617	Eukaryotic Organelle rRNA / <i>Tribolium confusum</i>	GenBank	PX656874-PX656875

PX460723-PX460726 (*Hepatozoon canis*)

PX460723

PX460724

PX460725

PX460726

PV974980-PV974983 (*Simulium ornatum*)

PV974980

PV974981

PV974982

PV974983

PV739800-PV739803 (*Wolbachia pipipientis*)

PV739800

PV739801

PV739802

PV739803

PP422139-PP422145 (*Anopheles hyrcanus*)

PP422139

PP422140

PP422141

PP422142

PP422143

PP422144

PP422145

PP419983-PP419988 (*Anopheles hyrcanus*)

PP419983

PP419984

PP419985

PP419986

PP419987

PP419988

OR398783-OR398787 (*Aedes aegypti*)

OR398783

OR398784

OR398785

OR398786

OR398787

OR250657-OR250662 (*Culiseta longiareolata*)

OR250657

OR250658

OR250659

OR250660

OR250660

OR250652

OQ997236-OQ997240 (*Aedes aegypti*)

OQ997236

OQ997237

OQ997238

OQ997239

OQ997240

MK962479- MK962511 (*Aedes capius*)

MK962479

MK962480

MK962481

MK962482

MK962483

MK962484

MK962485

MK962486

MK962487

MK962488

MK962489

MK962490

MK962491

MK962492

MK962493

MK962494

MK962495

MK962496

MK962497

MK962498

MK962506

MK962507

MK962508

MK962509

MK962510

MK962511

MK962499- MK962505 (*Aedes vexans*)

MK962499

MK962500

MK962501

MK962502

MK962503

MK962504

MK962505

KU928311-KU949591(*Anopheles stephensi*)

KU928311

KU949583

KU949584

KU949585

KU949586

KU949587

KU949588

KU949589

KU949590

KU949591

PX656874-PX656875 (*Tribolium confusum*)

PX656874

PX656875