



**First name:** Saied Reza

**Surname:** Naddaf

**Degree:** Medical entomologist (PhD)

**Language:** Farsi (native), English (proficient), Spanish (working knowledge)

**Specialization:**

1. Molecular systematics of *Anopheles* populations.
2. Genetics of resistance mechanisms of insects to insecticides
3. Epidemiology of malaria, leishmaniasis and Borreliosis
4. Vector host- parasite interaction

**Academic position:** Head of Parasitology Department

**Publication:**

1. Mowlavi G, Farzbod F, Kheirkhah A, Mobedi I, Bowman DD, **Naddaf SR** (2013) Human ocular onchocerciasis caused by *Onchocerca lupi* (Spirurida, Onchocercidae) in Iran. *Journal of Helminthology* **6(1-6)**: [Epub ahead of print]
2. **Naddaf SR**, Oshaghi MA, Vatandoost H (2012) Confirmation of two sibling species among *Anopheles fluviatilis* mosquitoes in South and Southeastern Iran by analysis of cytochrome oxidase I gene. *Journal of Arthropod Borne Diseases* **6(2)**: 144-150.
3. **Naddaf SR**, Ghazinezhad B, Bahramali G, Cutler SJ (2012) Phylogenetic analysis of the spirochete *Borrelia microti*, a potential agent of relapsing fever in Iran. *Journal of Clinical Microbiology* **50(9)**: 2873-2876.
4. Kassiri H, **Naddaf SR**, Mohebbali M, Javadian E (2012) Molecular characterization of *Leishmania* infection in sand flies from Sistan Va Baluchistan Province, Southeastern Iran *Jundishapur Journal of Microbiology* **5(2)**: 430-433.
5. Chinikar S, Ghiasi SM, **Naddaf S**, Piazak N, Moradi M, Razavi MR, Afzali N, Haeri A, Mostafavizadeh K, Ataei B, Khalilifard-Brojeni M, Husseini SM, Bouloy M (2011) Serological evaluation of Crimean-Congo Hemorrhagic Fever (CCHF) in humans with

high risk professions living in enzootic regions of Isfahan Province of Iran and genetic analysis of circulating strains. *Vector Borne and Zoonotic Diseases* **12(9)**: 733-738.

6. Siadat SD, **Naddaf SR**, Zangeneh M, Arfa Moshiri A, Sadat SM, Shafiee Ardestani M, Pouriayevali MH, Amini S, Aghasadeghi MR (2011) Outer membrane vesicle of *Neisseria meningitidis* serogroup B as an adjuvant in immunization of rabbit against *Neisseria meningitidis* serogroup A. *African Journal of Microbiology Research* **5(19)**: 3090-3095.
7. Sefidgar SAA, Mirzae M, Assmar M, **Naddaf SR** (2011) Occurrence of aflatoxin M<sub>1</sub> in pasteurized milk in Babol city, Mazandaran Province. *Iranian Journal of Public Health* **40** (1):115-118.
8. **Naddaf SR**, Kishdehi M, Siavashi M (2011) Comparison of different PCR assays with centrifuged-based enrichment method for detection of *Borrelia* spp. in animal Blood samples. *Journal of Arthropod Borne Diseases* **5(1)**:7-12.
9. Parvizai P, Alae Novin E, **Naddaf SR** (2010) Molecular typing and phylogenetic analysis of some species belonging to *Phlebotomus (Larroussius)* and *Phlebotomus (Adlerius)* subgenera (Diptera, *Psychodidae*) from two locations in Iran. *Journal of Arthropod Borne Diseases* **4(2)**:1-10.
10. **Naddaf SR**, Razavi MR, Bahramali G (2010) Molecular variation and distribution of *Anopheles fluviatilis* (Diptera: Culicidae) complex in Iran. *Korean Journal Parasitology* **48** (3): 231-236.
11. Zare-Bidaki M, Mobedi I, Sadeghieh Ahari S, Habibzadeh S, **Naddaf SR**, Siavashi MR (2010) Prevalence of zoonotic intestinal helminths of canids in Moghan Plain, Northwestern Iran, *Iranian Journal of Parasitology* **5(2)**:42-51.
12. Hami A, **Naddaf SR**, Mobedi I, Zare-Bidaki M, Athari SS, Hajimohammadi B, Anaraki-Mohammadi G (2009) Prevalence of *Linguatula serrata* infection in domestic bovinds slaughtered in tabriz abattoir, Iran. *Iranian Journal of Parasitology* **4(3)**:25-31.
13. Mowlavi G, **Naddaf SR**, Rezaian M, Najafi N, Lucio-Forster A, Bowman DD (2009) Apparent pseudoparasitism of alimentary canal of a 5-Year-old child by the millipede *Brachyiulus lusitanus* (Diplopoda). *Parasite* **16(2)**:161-163.
14. Zare-Bidaki M, Mobedi I, **Naddaf SR**, Kia EB, Mahmoudi M, Piazak N, Nekouei H, Sadeghieh S, Habibzadeh Sh Siavashi M (2009) Prevalence of *Echniococcus* spp.

infection using Coproantigen ELISA among canids of Moghan Plain, Iran. *Iranian Journal of Public Health*, **38(1)**: 112-118.

15. Zamani Z, Razavi MR, Sadeghi S, **Naddaf SR**, Pourfallah F, Mirkhani F, Arjmand M, Feizhadad H, Ebrahimi Rad M, Tameemi M, Assmar M (2009) Sequence diversity of The C-terminal region of Plasmodium *falciparum* Merozoite surface Protein 1 in southern Iran. *Southeast Asian Journal of Tropical Medicine and Public Health*, **40(1)**: 1-9.
16. Esmaeili Rastaghi AR, Nateghpour M, Assmar M, Razavi MR, Kanbara H, Uemura H, **Naddaf SR**, Keshavarz H, Raeisi A, Mohebbali M (2008) Detection of K76T mutation in pfcrt gene as an applicable genetic marker for prediction of chloroquine resistant falciparum malaria in isolates from an endemic district of Iran. *Iranian Journal of Parasitology* **3(2)**: 48-56.
17. Razavi MR, **Naddaf SR**, Le Bras J, Raesi A, Esmaeili AR, Assmar M (2008) Frequency of PfcrtT76 and Pfdhfr Asn-108 mutations in southeastern malaria endemic areas of Iran. *Iranian Journal of Public Health* **37(1)**: 31-34.
18. Amoozgar MA, Salehghamari E, Khajeh Kh, Kabiri M, **Naddaf S** (2008) Production of an extracellular thermohalophilic lipase from a moderately halophilic bacterium, *Salinivibro* Sp. Strain SA-2. *Journal of Basic Microbiology* **48(3)**: 160-167.
19. Amozegar MA, Ghasemi A, Razavi MR, **Naddaf S** (2007) Evaluation of hexavalent chromium reduction by chromate-resistant moderately halophile, *Nesterenkonia* sp. Strain MF2. *Process Biochemistry* **42(10)**: 1475-1479.
20. Amoozgar MA, Morahem Ashengroph M, Malekzadeh F, Razavi MR, **Naddaf SR**, Kabiri M (2007) Isolation and initial characterization of tellurite reducing moderately, *Salinicoccus* sp strain QW6. *Microbiological Research* **163(4)**:456-465.
21. Razavi M R, **Naddaf SR**, Assmar M, Raesi A, Arshi Sh (2006) Analysis of *Plasmodium vivax* Merozoite Surface Protein-1 Gene sequence in isolates from Dashteh Moghan, Iran. *Iranian Journal of Public Health* **35 (4)**: 28-32.
22. Nekouie H, Assmar M, Razavi MR, **Naddaf SR** (2006) a study on *Leishmania* infection rate among *Phelebotomus* spp. collected from Abardej District, Iran. *Iranian Journal of Veterinary Research* **7(4)**: 77-81.

23. Aghasadeghi MR, Sadat SM, Budkowska A, Khabiri AR, Amini S, Bahramali G, **Naddaf SR**, Roohvand F (2006) Evaluation of a native preparation of HCV core protein (2-122) for potential application in immunization , diagnosis and mAb production . *Iranian Journal of Public Health* **35**(1): 1-10.
24. Khabiri AR, Bagheri F, Alimohammadian MH, Assmar M, **Naddaf S** (2005) Leishmanin skin test in guinea pig with a single purified protein of *Leishmania major*. *Experimental Parasitology* **111**(4): 239-243.
25. Khabiri A R, Bagheri F, **Naddaf SR**, Assmar M, Hosseini Taghavi A (2004) Characterization of a monoclonal antibody specific for the parasite surface antigen-2 of *Leishmania major*. *Iranian Journal of Public Health* **33** (3): 10-14.
26. Riazi Esfahani M, Hovanesian H, Lashay A R, **Naddaf SR**, Assmar M (2004) Rapid diagnosis of ocular toxoplasmosis by using polymerase chain reaction. *Iranian Journal of Ophthalmology* **17**(2):102-104.
27. Assmar M, Yassaei F, Terhovanesian A, Esmaeili AR, Hassan N, Farzanehnezhad Z, **Naddaf SR** (2004) Prenatal diagnosis of congenital toxoplasmosis: validity of PCR using amniotic fluid against indirect fluorescent antibody assay in mothers. *Iranian Journal of Public Health* **33** (1): 1-4.
28. **Naddaf SR**, Oshaghi MA, Vatandoost H, Assmar M (2003) Molecular characterization of *Anopheles fluviatilis* species complex in the Islamic republic of Iran. *Eastern Mediterranean Health Journal* **9**(3): 257-265.
29. **Naddaf SR**, Oshaghi MA, Vatandoost H, Assmar M (2003) rDNA-ITS2 based species-diagnostic polymerase chain reaction assay for identification of sibling species of *Anopheles fluviatilis* in Iran. *Southeast Asian Journal of Tropical Medicine and Public Health Supl.2* **34**: 56-61
30. **Naddaf SR**, Oshaghi MA, Vatandoost H, Djavadian E, Telmadarei Z (2002) Use of Random amplified polymorphic DNA polymerase chain reaction (RAPD-PCR) and ITS2-PCR assays for differentiation of populations and putative sibling species of *Anopheles fluviatilis* (Diptera: Culicidae) in Iran. *Iranian Journal of Public Health* **31** (3&4):133-137.
31. Assmar M, Terhovanesian A, Fajrak H, **Naddaf SR** (2000) Detection of *Toxoplasma gondii* in dead fetuses by polymerase chain reaction. *Iranian Journal of Medical Sciences* **25**(1&2):59-61.

32. Assmar M, Hajizadeh Manjili M, Esmaeili AR, Farahmand M, Piazak N, Rafati S, **Naddaf SR** (1997) Immunogenicity of Gamma-Irradiated *Toxoplasma gondii* Tachyzoites in mice. *Iranian Biomedical Journal* **3 (3&4):** 93-97.
33. Ladoni H, Baniardalani M, **Naddaf SR** (1992) Genetic mechanism of malathion resistance in *Anopheles stephensi* from Bandar abbas, Iran and its cross-resistance spectrum to DDT, Dieldrin and primiphos methyl. *Iranian Journal of Public Health* **21(1-4):** 38-52.

### **Research projects**

1. A survey on incidence and prevalence of Leptospirosis in suspected cases from Mazandaran and Golestan Provinces using IFA, ELISA, PCR and Real time PCR (Principle investigator).
2. Molecular identification of relapsing fever causative agent in febrile patients, blood from Hormozgan Province, Iran based on 16SrDNA and GIpQ genes (Principle investigator).
3. Seroepidemiology of Crimean- Congo hemorrhagic fever (CCHF) in domestic animals (Bovine and Caprine) and high risk human groups and genetic analysis of probable ticks associated virus genome in Isfahan Province, Iran. (Principle investigator).
4. A study on sublethal dose effects of four anticoagulant agents Bromadiolone, Brodifacoum, Warfarin and Chlorophacinone on laboratory *Rattus norvegicus* (Principle investigator).
5. Identification of different populations of *Anopheles fluviatilis* (Diptera: Culicidae) in six south and south eastern provinces of Iran using cytochrome oxidase I gene (Principle investigator).
6. Discrimination of human and animal *Giardia* species using PCR (co-investigator).
7. Epidemiology of human alveolar echinococcosis (AE) and ecological investigation of the causative agent, *Echinococcus multilocularis*, (EM), in Moghan Plain, Ardebil, Iran (co-investigator).
8. Molecular identification and typing of *Leishmania* species in endemic foci of Iran (Khorasan, Fars, Esfahan, Khuzestan, Ardebil, Damghan, Qom Provinces) (co-investigator).
9. Detection of polymorphisms in *Plasmodium falciparum* Pfctr, pfmd2 dhfr and dhps genes and pyrimethamine clinical response to chloroquine, Pyrimethamine sulfadoxine in endemic areas of Iran (co-investigator).

**Supervisor for MSC thesis:**

1. PCR detection of tick-borne relapsing fever spirochetes in *Ornithodoros* tick vectors.
2. Detection of Tick-borne relapsing fever *Borrelia* in bloods of animal models by using PCR and plasma enrichment method.
3. Differentiation of Relapsing Fever *Borrelia persica* and *Borrelia microtti* by polymerase chain reaction based on Flagellin (*flaB*) DNA sequences.
4. Comparative evaluation of IFA, ELISA, and PCR for diagnosis of leptospirosis in suspected individuals.

**Co-supervisor for PhD thesis:**

1. Prevalence of *Echinococcus multilocularis* in definitive hosts in Dashte Moghan area using Coproantigen-ELISA and PCR techniques.

**Co-supervisor for MSc thesis:**

1. Genetic variation of the apical membrane antigen-1 (AMA-1) gene in *Plasmodium vivax* isolates from Sistan va Baluchestan
2. In vivo evaluation of *Eucalyptus camaldulensis* and *Zataria mutiflora* essential oils and *Artemisia arboratnum* water extract on acute toxoplasmosis in Balb/c mice.
3. Microsatellite analysis of prevalent *Leishmania* species in Iran.
4. Identification of *Leishmania* species using RAPD-PCR analysis.
5. Detection of *Shigella* spp. in food stuff using Polymerase chain reaction assay.
6. Evaluation of killing effect of delta-endotoxin of *Bacillus thuringiensis* H14 on *Musca domestica* larvae.

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