



First name: Saied Reza

Surname: Naddaf

Degree: Medical entomology, and vector-borne diseases (Ph.D.), Associate Professor

Language: Farsi (native), English (Proficient), Spanish (intermediate)

Specialization:

1. Vector-borne diseases
2. Tick-borne diseases
3. Tick-borne borreliosis
4. Molecular systematics of arthropod vectors and pathogens.
5. Vector host-parasite interaction
6. Diagnosis of leptospirosis

Academic position:

1. Associate Professor, Department of Parasitology, Pasteur Institute of Iran.
2. Editor-in-Chief, Journal of Medical Microbiology and Infectious Diseases, Pasteur Institute of Iran.

Publication:

1. **Naddaf SR**, Mahmoudi A, Ghasemi Rohani M, Mohammadi A, Ziapoure SP, Nemati AH, Mostafavi, E (2020). Infection of hard ticks in the Caspian Sea littoral of Iran with Lyme borreliosis and relapsing fever borreliae. *Ticks and Tick-borne Diseases*. 11 (6). <https://doi.org/10.1016/j.ttbdis.2020.101500>.
2. Houmansadr F, Soleimani M, **Naddaf SR** (2020). Development of a Loop-Mediated Isothermal Amplification (LAMP) Assay for Detection of Relapsing Fever Borreliae. *Journal of Arthropod-borne Diseases* **14**(1): 47–55.
3. Meigouni, M, Makki M, Haniloo A, Askari Z, Mobedi I, **Naddaf SR**, Boenke N., Stollner T, Aali A, Heidari Z, Mowlavi G (2020). "Herbivores Coprolites from Chehrabad Salt Mine of Zanjan, Iran (Sassanid Era, 224-651 AD) Reveals Eggs of Strongylidae and Anoplocephalidae Helminths. *Iranian Journal of Parasitology* **15**(1): 109-114.

4. Hasanpour H, Falak R, **Naddaf SR**, Mas-Coma S, Rokni MB, Badirzadeh A, Mokhtarian K, Mohebali M, Jafarpour Azami S, Fadavi A, Gharagozlou MJ, Mohammad K. Mowlavi G (2020) Molecular Characterization of *Fasciola* spp. from Some Parts of Iran. *Iranian Journal of Public Health* **49**(1): 157-166.
5. Tajik, S, Sadeghi S, Iravani A, Khalili M, Arjmand M, Din N U, Vahabi F, Feiz-Haddad H, Lame-Rad B, Naddaf S R, Zamani Z. (2019) Characterization of Glycoproteins of Native 19kDa C-terminal Merozoite Surface Protein-1 from Native Antigen of Plasmodium falciparum. *Journal of Arthropod-borne Diseases* **13**(3): 324-333.
6. Teimoori S, Arimatsu Y, Mobedi I, **Naddaf SR**, Sharifdini M, Banchob S, Mowlavi G (2019) *Haplorchis taichui* (Trematoda: Heterophyidae) in a Road-killed Jackal in Southwest Iran. *Iranian Journal of Parasitology* **14**(1):120-126
7. Vahid G, **Naddaf SR**, Aghighi Z, Hassan N, Pooya M, Mostafavi E (2018) Leptospirosis in Caspian Sea littoral, Gilan Province, Iran. *Acta Tropica* **181**:11-15. Doi: 10.1016/j.actatropica.2018.01.010.
8. **Naddaf SR** (2018) Lice, Humans, and Microbes. *Iranian Biomedical Journal* **22**(5): 292–293.
9. Momeni S, Najafi F, **Naddaf SR**, Zahabiun F, Hosseini M, Mohammadi Z, Aliabadian M, Mowlavi M (2018) Infection of Afghan Pika (*Ochotona rufescens*) with Oxyurid Worms in Northeastern Iran. *Journal of Medical Microbiology and Infectious Diseases* **6** (1): 31-34
10. **Naddaf SR**, Ghazinezhad B, Kazemirad E, Cutler SJ (2017) Relapsing fever causative agent in Southern Iran is a closely related species to East African borreliae. *Ticks and Tick-borne Diseases* **8**(6):882-886.
11. Makki M, Dupouy-Camet J, Sajjadi SMS, Moravec F, **Naddaf SR**, Mobedi I, Malekafzali H, Rezaeian M, Mohebali M, Kargar F, Mowlavi G (2017), Human Spiruridiasis due to Physaloptera spp. (Nematoda: Physalopteridae) in a grave of the Shahr-e Sukhteh Archeological Site of Bronze Age (2800-2500 BC) in Iran. *Parasit* **24**: 170024.
12. Makki M, Dupouy-Camet J, Sajjadi SMS, **Naddaf SR**, Mobedi I, Rezaeian M, Mohebali M, Mowlavi G (2017). First Paleoparasitological Report on the Animal Feces of Bronze Age Excavated from Shahr-e Sukhteh, Iran. *Korean Journal of Parasitology* **55**(2):197-201.
13. Makki MS, Mowlavi Gh, Shahbazi F, Abai MR, Najafi F, Hosseini-Farash BR, Teimoori S, Hasanpour H, **Naddaf SR** (2017). Identification of *Hymenolepis diminuta*

Cysticeroid Larvae in *Tribolium castaneum* (Coleoptera: Tenebrionidae) Beetles from Iran. *Journal of Arthropod-borne Diseases* **11(2)**: 338-342.

14. Najafi F, **Naddaf SR**, Rezaie S, Kia EB, Mowlavi Gh (2016) *In Vitro* Ovicidal Activity of Nematophagous Fungus *Paecilomyces lilacinus* on the Eggs of Parasitic Helminths. *Journal of Medical Microbiology Infectious Diseases* **4 (3-4)**: 52-55.
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18. Shirani D, Rakhshanpoor A, Cutler SJ, Ghazinezhad B, **Naddaf SR** (2016) A case of canine borreliosis in Iran caused by *Borrelia persica*. *Ticks and Tick-borne Diseases* **7(3)**: 424-426.
19. **Naddaf SR**, Ghazinezhad B, Sedaghat MM, Masoumi Asl H, Cutler SJ (2015) Tick-borne Relapsing Fever in Southern Iran, 2011–2013. *Emerging Infectious Diseases* **21 (6)**: 1078-1080.
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21. Aghaei A, Ghazinezhad B, **Naddaf SR** (2014) Detection of *Borrelia* DNA in *Ornithodoros tholozani* ticks and their eggs. *Journal of Medical Microbiology and Infectious Diseases* **2 (3)**: 118-120.
22. Mowlavi G, Farzbod F, Kheirkhah A, Mobedi I, Bowman DD, **Naddaf SR** (2014) Human ocular onchocerciasis caused by *Onchocerca lupi* (Spirurida, Onchocercidae) in Iran. *Journal of Helminthology* **88 (2)**: 250–255.

23. Borhani Dizaji N, Basseri HR, **Naddaf SR**, Heidari M (2014) Molecular characterization of calreticulin from *Anopheles stephensi* midgut cells and functional assay of the recombinant calreticulin with *Plasmodium berghei* ookinetes. *Gene* **550(2)**: 245-52.
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28. Hajjarana H, Mohebalia M, Mamishi S, Vasigheh F, Oshaghi MA, **Naddaf SR**, Teimouri A, Edrissian GH, Zabihollah Zarei Z (2013) Molecular Identification and Polymorphism Determination of Cutaneous and Visceral Leishmaniasis Agents Isolated from Human and Animal Hosts in Iran. *BioMed Research International*.
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38. **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.
39. Zare-Bidaki M, Mobedi I, Sadeghieh Ahari S, Habibizadeh 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.

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45. Razavi MR, **Naddaf SR**, Le Bras J, Raesi A, Esmaeili AR, Assmar M (2008) Frequency of *Pfprt*T76 and *Pfdhfr* Asn-108 mutations in southeastern malaria-endemic areas of Iran. *Iranian Journal of Public Health* **37(1)**: 31-34.
46. 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.
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Anopheles fluviatilis in Iran. *Southeast Asian Journal of Tropical Medicine and Public Health Supl.2* **34**: 56-61

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Research projects

1. Molecular characterization and genetic population of hard ticks of Iran (principal investigator).
2. A survey on infection of hard ticks from north and northwest of Iran to *Borrelia burgdorferi*, *Francisella tularensis*, and *Coxiella burnetii* (principal investigator).
3. Rodent-borne emerging and re-emerging zoonotic diseases in north-western Iran: molecular epidemiology, taxonomy, population genetics, and phylogeny of the reservoir hosts and pathogens (co-investigator).
4. Molecular characterization of relapsing fever borreliae in soft ticks of Khorasan Shomali Province using sequence analysis of *glpQ* and *IGS* genes (principal investigator).
5. Cloning and expression of glycerophosphodiester phosphodiesterase (*glpQ*) gene from *Borrelia microti* and using the recombinant *glpQ* for serodiagnosis of relapsing fever patients in South Iran (principal investigator).
6. An investigation on the expression of genes involved in thiol metabolism in sensitive and resistant *Leishmania tropica* isolates to pentavalent antimonial compound (Glucantime) using Real-Time RT-PCR (co-investigator).

7. A survey on incidence and prevalence of Leptospirosis in suspected cases from Mazandaran and Golestan Provinces using IFA, ELISA, PCR, and Real-time PCR (principal investigator).
8. Seroepidemiological survey of Q fever, CCHF, Leptospirosis, and Brucellosis in butchers and slaughterhouses workers of Sistan and Baluchestan Province (co-investigator)
9. Molecular identification of relapsing fever causative agent in febrile patients, blood from Hormozgan Province, Iran based on 16SrDNA and *glpQ* genes (principal investigator).
10. 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. (principal investigator).
11. In vitro/in vivo efficacy testing of colicine against different *Leishmania* species (co-investigator).
12. Identification of different populations of *Anopheles fluviatilis* (Diptera: Culicidae) in six south and southeastern provinces of Iran using cytochrome oxidase I gene (principal investigator).
13. Discrimination of human and animal *Giardia* species using PCR (co-investigator).
14. Epidemiology of human alveolar echinococcosis (AE) and ecological investigation of the causative agent, *Echinococcus multilocularis*, (EM), in Moghan Plain, Ardebil, Iran (co-investigator).
15. Molecular identification and typing of *Leishmania* species in endemic foci of Iran (Khorasan, Fars, Esfahan, Khuzestan, Ardebil, Damghan, Qom Provinces) (co-investigator).
16. Detection of polymorphisms in Plasmodium falciparum *PFctr*, *pfmd2*, *dhfr*, and *dhps* genes and pyrimethamine clinical response to chloroquine, Pyrimethamine sulfadoxine in the endemic areas of Iran (co-investigator).

Supervisor for Ph.D. thesis projects

1. Multilocus sequence typing (MLST) of Lyme borreliosis agents detected in *Ixodes ricinus* ticks of northern Iran.
2. Molecular characterization and population structure of *Trichinella* species of the wildlife of east and northeast Iran.

Co-supervisor for Ph.D. thesis projects

1. Metagenomics characterization of intestinal microflora (fungal-bacterial) of adult *Ixodes ricinus* tick isolated from domestic animals in northern provinces (Mazandaran, Gilan, and Golestan) and North West of Iran.
2. Paleoparasitology of helminths of medical importance at Boronz age (3200-1800 BC) in Shahr-e sokhte, Zabol, Sistan va Baluchistan Province
3. Prevalence of *Echinococcus multilocularis* in definitive hosts in Dashte Moghan area using Coproantigen-ELISA and PCR techniques.

Supervisor for MSC thesis:

1. Diagnosis of leptospirosis by serology and PCR in Gilan Province, Caspian Sea Littoral, Iran.
2. Cloning and expression of glycerophosphodiester phosphodiesterase (*glpQ*) gene from *Borrelia microti* and using the rGLPQ protein for serology of relapsing fever patients in Iran.
3. PCR detection of tick-borne relapsing fever spirochetes in *Ornithodoros* tick vectors.
4. Detection of Tick-borne relapsing fever *Borrelia* in the blood of animal models by using PCR and plasma enrichment method.
5. Differentiation of Relapsing Fever *Borrelia persica* and *Borrelia microti* by polymerase chain reaction based on Flagellin (*flaB*) DNA sequences.
6. Comparative evaluation of IFA, ELISA, and PCR for diagnosis of leptospirosis in suspected individuals.

Co-supervisor for MSc thesis:

1. Development of A Loop-Mediated Isothermal Amplification (LAMP) Assay for Detection of Relapsing Fever *Borreliae*
2. Genetic variation of the apical membrane antigen-1 (AMA-1) gene in *Plasmodium vivax* isolates from Sistan va Baluchistan
3. In vivo evaluation of *Eucalyptus camaldulensis* and *Zataria multiflora* essential oils, and *Artemisia abrotanum* water extracts on acute toxoplasmosis in Balb/c mice.
4. Microsatellite analysis of common *Leishmania* species of Iran.
5. Identification of *Leishmania* species using RAPD-PCR analysis.
6. Detection of *Shigella* spp. in foodstuff by PCR.
7. Evaluation of killing effect of delta-endotoxin of *Bacillus thuringiensis* H14 on *Musca domestica* larvae.

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