

In The Name of God



Curriculum Vitae

Last Update: June 2026

Parisa Soltan-Alinejad

Ph.D. in Medical Entomology

Personal Information:

First Name: Parisa

Surname: Soltan-Alinejad

Birth Date: 22 Nov 1990

Birth Place: Urmia, West Azerbaijan Province, Iran

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Qualification:

Ph.D. Medical Entomology and vector Control. School of Public Health, Shiraz University of Medical Sciences (SUMS), **Shiraz, Iran**, (2017-2022).

M.Sc. Medical Entomology and vector Control. School of Public Health, Urmia University of Medical Sciences (UMSU), **Urmia, Iran**, (2013-2017).

B.Sc. Plant Pathology. School of Agricultural Sciences, Urmia University, **Urmia, Iran**, (2009-2013).

Title of Thesis:

Doctoral Thesis: Characterization, expression and production of recombinant protein of phospholipase A2 coding gene in Iranian scorpion, *Scorpio maurus* and investigation of its leishmanacidal activity against *Leishmania major*, 2022

Master of Science Thesis: The utility of mitochondrial molecular marker for identification of some of scorpion species of West Azerbaijan Province, 2015

Experiences:

1- Teaching:

- **Molecular Entomology, Laboratory courses** (for M.Sc. of Vector Biology and Control of Disease)
- **Co-teaching in Medical Entomology, Laboratory courses** (for M.Sc. of Vector Biology and Control of Disease and Medicine)
- **Co-teaching in Malariology, Laboratory courses** (for M.Sc. of Vector Biology and Control of Disease)
- **Morphology and Physiology of insects, Laboratory courses** (for B.Sc. of Vector Biology and Control of Disease)
- **Malaria** (for M.Sc. of Vector Biology and Control of Disease)
- **Insect behavioral biology** (for B.Sc. of Vector Biology and Control of Disease)
- **Biology** (for B.Sc. of Vector Biology and Control of Disease)
- **Introduction to Laboratory Equipment and Instruments** (for B.Sc. of Vector Biology and Control of Disease)
- **Ecology** (for B.Sc. of Public Health)
- **Geographical pathology** (for B.Sc. of Public Health)
- **Medical Entomology** (for B.Sc. and M.Sc. of Vector Biology and Control of Disease, and B.Sc. of Public Health)

2- Research:

- **MRecombinant Protein**
- **Molecular cloning**
- **Venomous Arthropods**
- **Venom of Arthropods**
- **Molecular Entomology**
- **Molecular systematic of Disease Vectors**
- **Basic Medical Entomology**

Research experiences and skills

1. Basic Entomology techniques:

- **Sample collection** from field using different methods
- **Sample preparation** and Morphological Identification using standard keys

2. Technical Experiences:

- **DNA and RNA Extraction**
- **Different PCR amplification methods** (RT-PCR, Nested-PCR, ...), Data Analysis (Gel Electrophoresis, ...)
- **T/A cloning** (PCR Cloning)
- **Genetic Manipulation** (Competent cell preparation, Gene Digestion, Plasmid Preparation, Data Analysis,...)
- **Bacterial Transformation**
- **Gene Cloning**
- **Protein Expression in Prokaryotes**
- **Recombinant Protein**
- **Protein Purification**
- **Protein Expression Assay**
- **SDS-PAGE**
- **Dot blotting**
- **Western blotting**
- **ELISA**
- **MTT Assay**
- **Flowcytometry**
- **Cell Culture**

3. Bioinformatics

- **DNA, RNA Sequences analysis**
- **Protein Sequences and structure analysis**
- **Primer Designing**
- **Phylogenetic Analysis**
- **Genetic Distance Analysis**
- **Using Related Softwares** (MEGA7, BioEdit, Oligo7, GeneRunner, Chimera, Clustal W, Chromas ...)

Scientific Training Courses:

- 1) **Dynamic of vector born disease in mosquitoes'** online workshop, October 14th, Shiraz University of Medical Sciences, 2021.
- 2) **Identification, management and treatment of scorpion sting** online workshop, July 27th, Ahvaz Jondishapur University of Medical Sciences, 2021
- 3) **Utilization of biological and microbial factors in vector borne disease control** online workshop, September 15th, Ahvaz Jondishapur University of Medical Sciences, 2021
- 4) **Maggot therapy** online workshop, July 12th, Ilam University of Medical Sciences, 2021
- 5) **Primer Designing** workshop, February 4th, Shiraz University of Medical Sciences, 2021
- 6) **Rapid response to vector-borne disease** workshop, May 29th to June 2nd, Pasture Institution of Iran, 2021
- 7) **Primer Designing** workshop, February 4th, Shiraz University of Medical Sciences, 2021

- 8) **GraphPad Prism V8** workshop, December 20th, Shiraz University of Medical Sciences, 2020.
- 9) **Advanced Statistical Analysis of Data with SPSS Software** workshop, September 30th, Shiraz University of Medical Sciences, 2020.
- 10) **Plagiarism types and how to avoid theme in written English** workshop, October 12th, Shiraz University of Medical Sciences, 2020.
- 11) **How to write a paragraph** workshop, September 9th, Shiraz University of Medical Sciences, 2020.
- 12) **How to write a Credible Letter and Prepare a Convincing Curriculum Vitae** workshop, August 17th, Shiraz University of Medical Sciences, 2020.
- 13) **Basic and Advanced Statistical Analysis of Data with SPSS Software** workshop, February 18th and 19th, Shiraz University of Medical Sciences, 2019.
- 14) **Activities of business accelerator centers** workshop, October 23th, Shiraz University of Medical Sciences, 2019.
- 15) **How to choose a topic with an emphasis on changes in the research process in the last two years** workshop, December 9th, Shiraz University of Medical Sciences, 2019.
- 16) **Teaching methods** workshop, January 15th, Shiraz University of Medical Sciences, 2019.
- 17) **Principles of HSE in laboratory** workshop, May 9th, Shiraz University of Medical Sciences, 2019.
- 18) **Iran at great risk of emerging arboviral diseases** workshop, February 25th, Shiraz University of Medical Sciences, 2018.
- 19) **Scorpions: capture, identification, farming, and venom milking** workshop, May 24th, Shiraz University of Medical Sciences, 2018.
- 20) **Professional Ethics** workshop, February 1st, Shiraz University of Medical Sciences, 2018.
- 21) **Primer Designing** workshop, April 25th and 26th, Urmia University of Medical Sciences, 2015.

Research Projects:

- 1) **Investigation of secondary complications of Kalaazar treatment in recovered people in Meshkin Shahr from 2014 to 2023**, Ardabil University of Medical Sciences, Ardabil, Iran
- 2) **Standardization and construction of a questionnaire to Investigating Knowledge, Attitudes, and Practice towards Cutaneous leishmaniasis in selected endemic and non-endemic regions of Iran**, Ardabil University of Medical Sciences, Ardabil, Iran
- 3) **Molecular investigation of contamination of Culicidae mosquitoes with *Dirofilaria immitis* and *D. repens* microfilariae as main agents of dirofilariasis in Ardabil Province**, Ardabil University of Medical Sciences, Ardabil, Iran
- 4) **Investigation of the natural infection of Dengue virus in Aedes Mosquitoes collected from Ardabil Province using RT-PCR assay, 2024**, Ardabil University of Medical Sciences, Ardabil, Iran
- 5) **Molecular investigation on Aedes aegypti and Aedes albopictus species, collected from Iran**, Ardabil University of Medical Sciences, Ardabil, Iran
- 6) **Investigation of the bacterial microbiome in the telson and venom of *Hemiscorpius lepturus* scorpion, an Iranian medically important scorpion**, Ardabil University of Medical Sciences, Ardabil, Iran
- 7) **Molecular Identification and Phylogenetic Analysis of Ticks in Ardabil Province Based on the Mitochondrial COI Marker**, Ardabil University of Medical Sciences, Ardabil, Iran
- 8) **Knowledge, Attitude and Practice of Residents in Ardabil Regarding Scorpion and Scorpion Stings in 2025**, Ardabil University of Medical Sciences, Ardabil, Iran
- 9) **Uncommon Complications of Scorpion Sting Worldwide: a review study**, Ardabil University of Medical Sciences, Ardabil, Iran
- 10) **Unmasking Borrelia species: A Comprehensive Review of its Prevalence and Presence in Iran**, Ardabil University of Medical Sciences, Ardabil, Iran
- 11) **Investigating the relationship between meteorological variables and predicting**

- the spread of pediculosis in Ardabil province from the year 1395 to 1403,**
Ardabil University of Medical Sciences, Ardabil, Iran
- 12) The Impact of Environmental Factors on The Midgut Microbiome Structure in Mosquitoes: A Narrative Review,** Ardabil University of Medical Sciences, Ardabil, Iran
 - 13) Analysis of Crimean-Congo Hemorrhagic Fever Surveillance Data in Ardabil Province: Temporal Trends, Patient Characteristics, and Prognosis,** Ardabil University of Medical Sciences, Ardabil, Iran
 - 14) Spatio-temporal analysis of mortality due to arthropod contact and the impact of climatic factors on it in Iran from 2016-2023.** Ardabil University of Medical Sciences, Ardabil, Iran
 - 15) Assessing Vector competence of Aedes aegypti and Aedes albopictus for dengue virus: A systematic review and meta-analysis** , Ardabil University of Medical Sciences, Ardabil, Iran
 - 16) Establishment of a Medical Entomology Insectarium at Ardabil University of Medical Sciences** , 2025, Ardabil University of Medical Sciences, Ardabil, Iran
 - 17) The relationship between parental education and family income level with the risk of head lice infestation in children: A systematic review and meta-analysis,** 2026, Ardabil University of Medical Sciences, Ardabil, Iran
 - 18) Scientific Evaluation of the Academic Advisors' Program Regarding Educational Counseling and Their Duties at Ardabil University of Medical Sciences,** 2026, Ardabil University of Medical Sciences, Ardabil, Iran
 - 19) Investigation of Borrelia infection, the causative agent of endemic relapsing fever, in ticks and livestock blood in northwest Iran in 2026,** Ardabil University of Medical Sciences, Ardabil, Iran
 - 20) Study of telson histology in five species of Iranian scorpions of Buthidae, Hemiscorpiidae and Scorpionidae to evaluate the structure of venom glands apparatus** 2021, Shiraz University of Medical Sciences, Shiraz, Iran
 - 21) Morphometric study and sexual dimorphism analyses of Iranian population of Scorpio maurus (Scorpiones Scorpionidae) in selected parts of Fars Province,** 2021, Shiraz University of Medical Sciences, Shiraz, Iran
 - 22) Faunistic study and biodiversity on venomous Arachnidas in Assaluyeh county**

- of Bushehr province and Parsian county of Hormozgan province, 2021, Shiraz University of Medical Sciences, Shiraz, Iran
- 23) **Genetic Diversity and taxonomic evaluation of the Large-Clawed scorpion species *Scorpio maurus* L., 1758 (Scorponida: Scorpionidae) from southwestern parts of Iran using molecular data set of COI gene, 2020, Shiraz University of Medical Sciences, Shiraz, Iran**
 - 24) **Characterization, expression and production of recombinant protein of phospholipase A2 coding gene in Iranian scorpion, *Scorpio maurus* and investigation of its leishmanacidal activity against *Leishmania major*, 2020, Shiraz University of Medical Sciences, Shiraz, Iran.**
 - 25) **The effects of color and some climatic factors on oviposition rate of mosquitoes under semi-field condition in Shiraz County, 2019, Shiraz University of Medical Sciences, Shiraz, Iran**
 - 26) **Physico -chemical characteristics of larval habitats and biodiversity of Culicidae mosquitoes in Shiraz, 2018, Shiraz University of Medical Sciences, Shiraz, Iran**
 - 27) **The identification of flea species of human and animal dwelling and evaluation of their molecular systematics based on COI fragment in West Azerbaijan Province, 2016, Urmia University of Medical Sciences, Urmia, Iran**
 - 28) **Molecular characterization of dirofilariasis vectors and investigation of their infection with *Dirofilaria immitis* by molecular method in West Azerbaijan Province, 2016, Urmia University of Medical Sciences, Urmia, Iran**
 - 29) **The utility of mitochondrial molecular marker for identification of some of scorpion species of West Azerbaijan Province, 2015, Urmia University of Medical Sciences, Urmia, Iran**
 - 30) **Evaluation of the Chikungunya and Sindbis virus infection by RT-PCR (Reverse Transcription) method in Culicidae mosquitoes of West Azerbaijan province, 2015, Urmia University of Medical Sciences, Urmia, Iran.**

Publications:

1. Motevasseli M, Moradi-Asl E, **Soltan-Alinejad P***. Genetic variation and evolutionary relationships of dominant ticks in Northwestern Iran utilizing COI and ITS2. *Parasitol Res.* 2026;125(1):27.
2. **Soltan-Alinejad, P.**, Ramezani, A., Asgari, Q., Alipour, H., Soltani, A., Bahreini, M.S., Nikbakhtzadeh, M. and Azizi, K., 2025. The recombinant protein of scorpion venom phospholipase A2 exhibits potential anti-leishmanial activity. *Scientific Reports*.
3. **Soltan-Alinejad P**, Kargar-Jahromi H, Karimi F, Azizi K. Comparative histological characterization of the venom apparatus in five Iranian scorpion species. *J Arthropod Borne Dis.* 2025.
4. **Soltan-Alinejad P**, Nikbakhtzadeh M, Moradi-Asl E. Unmasking *Borrelia* species: A comprehensive review of their presence in Iran. *Int J Parasitol Parasites Wildl.* 2025:101123.
5. **Soltan-Alinejad, P.**, Rezaei, F., Babazadeh, S., Akhtari, A., Fakour, S., Kamrani, S., Abbasi-Ghahramanloo, A., Adham, D., & Moradi-Asl, E. (2025). Assessment of knowledge, attitude, and practice of livestock farmers in northwest Iran regarding myiasis. *BMC Veterinary Research*, 21(1), 436.
6. **Soltan-Alinejad, P.**, Bahrami, S., Keshavarzi, D., Shahriari-Namadi, M., Hosseinpour, A. and Soltani, A., 2023. Physicochemical characteristics of larval habitats and biodiversity of mosquitoes in one of the most important metropolises of southern Iran. *Heliyon*.
7. Moazzeni, P., Tangsiri, M., **Soltan-Alinejad, P.**, Shahriari-Namdadi, M., Daghighi, E., & Soltani, A. (2023). The effect of color and environment on mosquito oviposition and biodiversity under semi-field conditions. *International Journal of Tropical Insect Science*, 43, 1–9.

8. **Soltan-Alinejad P**, Alipour H, Soltani A, Asgari Q, Ramezani A, Mehrabani D, Azizi K. Molecular Characterization and In Silico Analyses of Maurolipin Structure as a Secretory Phospholipase A_2 (sPLA $_2$) from Venom Glands of Iranian *Scorpio maurus* (Arachnida: Scorpionida). J Trop Med. (2022) Oct 3;2022:1839946. doi: 10.1155/2022/1839946.
9. **Soltan-Alinejad P**, Soltani A., (2021) Vector-borne diseases and tourism in Iran: Current issues and recommendations, Travel Medicine and Infectious Disease. 2021/09/01/;43:102108. ***(IF: 20.44)**
10. **P. Soltan-Alinejad**, H. Alipour, D. Mehrabani and K. Azizi, (2021) Therapeutic Potential of Bee and Scorpion Venom Phospholipase A $_2$ (PLA $_2$): A Narrative Review, Iranian Journal of Medical Sciences,10.30476/IJMS.2021.88511.1927.
11. **Soltan-Alinejad, P.**, Parsaei, S., Dianat, A., Nikbakhtazadeh, M., & Azizi, K. (2021) Morphometric study and sexual dimorphism analyses of Iranian population of *Scorpio maurus* (Scorpiones Scorpionidae), Ecology and Evolution, 11, 15630–15638. <https://doi.org/10.1002/ece3.8211>
12. **Soltan-Alinejad, P.**, Rafinejad, J., Dabiri, F., Onorati, P., Terenius, O., Chavshin, A. (2021) Molecular analysis of the mitochondrial markers COI, 12S rDNA and 16S rDNA for six species of Iranian scorpions, BMC Res Notes 14, 40 (2021). <https://doi.org/10.1186/s13104-021-05449-3>
13. **Soltan-Alinejad, P**, Vahedi, M, Turki, H, Soltani, A,. (2021) A comprehensive entomological survey and evaluation of the efficacy of different therapies on a suspected delusional parasitosis case (2021), Brain and behavior, 11(1):e01945.
14. **Soltan-Alinejad, P**, Ramezani, Z, Edalat, H, Telmadarraiy, Z, Dabiri, F, Vatandoost, H, *et al.* (2020) Molecular characterization of Ribosomal DNA (ITS2) of hard ticks of Iran, in understanding the conspecificity of *Dermacentor marginatus* and *D. niveus* , BMC Research Notes.2020, 10.21203/rs.3.rs-60239/v1.
15. Farrokh Dabiri, Ehsan Radi, Kamran Akbarzadeh, **Parisa Soltan-Alinejad**, Mehdi Khoobdel and Seyed Javad Seyedzadeh, (2020) The Survey of Medically-Important Blowfly (Diptera: Calliphoridae) in Urmia County, Northwest of Iran, Environmental Research Journal, 14: 76-79.

English Abstracts (International and National Conferences):

1. **A comprehensive entomological survey on a suspected delusional parasitosis case in Shiraz**, November 13-15th , 2nd International Congress of Vector –Born Disease and Climate Change & The 4th National Congress of Medical Entomology, Shiraz University of Medical Sciences, Shiraz, Iran, 2019 **(Poster)**.
2. **Evaluation of the scorpion venom anti-cancer peptides function on breast cancer cells**, November 14th, The 3th Provincial Congress of Researcher in Medical and Biological Sciences ,Urmia, Iran 2016 **(Oral)**.
3. **Utilization of semi-chemicals in the disease vector control to reduce the side effects of chemical insecticides**, November 14th, The 3th Provincial Congress of Researcher in Medical and Biological Sciences ,Urmia, Iran 2016 **(Poster)**.
4. **Investigation of parasitoids of Synanthropic flies in order to biological control in Iran**, April 15th, National Congress on Food and Health, Mazandaran University of Medical Sciences, Sari, 2016 **(Poster)**.
5. **Utilization of plant-based products in the control of agricultural and health pests to reduce the side effects of chemical insecticides**, April 15th, National Congress on Food and Health, Mazandaran University of Medical Sciences, Sari, 2016 **(Poster)**.

Submitted Sequences in GenBank:

	Title	Accession number	Date
1	<i>Trichomonas vaginalis</i> isolate Met-E22 ferredoxin gene, partial cds	KU738860.1	2016
2	<i>Trichomonas vaginalis</i> isolate Met-E21 ferredoxin gene, partial cds	KU738859.1	2016
3	<i>Trichomonas vaginalis</i> isolate Met-E20 ferredoxin gene, partial cds	KU738858.1	2016
4	<i>Trichomonas vaginalis</i> isolate Met-E19 ferredoxin gene, partial cds	KU738857.1	2016
5	<i>Trichomonas vaginalis</i> isolate Met-E4 ferredoxin gene, partial cds	KU738850.1	2016
6	<i>Trichomonas vaginalis</i> isolate Met-E18 ferredoxin gene, partial cds	KU738856.1	2016
7	<i>Trichomonas vaginalis</i> isolate Met-E28 ferredoxin gene, partial cds	KU738855.1	2016
8	<i>Trichomonas vaginalis</i> isolate Met-E3 ferredoxin gene, partial cds	KU738849.1	2016
9	<i>Trichomonas vaginalis</i> isolate Met-E9 ferredoxin gene, partial cds	KU738851.1	2016
10	<i>Trichomonas vaginalis</i> isolate Met-E26 ferredoxin gene, partial cds	KU738853.1	2016
11	<i>Trichomonas vaginalis</i> isolate Met-E16 ferredoxin gene, partial cds	KU738852.1	2016
12	<i>Trichomonas vaginalis</i> isolate Met-E27 ferredoxin gene, partial cds	KU738854.1	2016
13	<i>Androctonus crassicauda</i> isolate Urmia 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705366.1	2016
14	<i>Mesobuthus caucasicus</i> isolate Makoo 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705360.1	2016
15	<i>Mesobuthus caucasicus</i> isolate Makoo 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705360.1	2016
16	<i>Mesobuthus eupeus</i> isolate Makoo 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705363.1	2016
17	<i>Odontobuthus doriae</i> isolate WAS302 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial	KT972142.1	2016

18	<i>Scorpio maurus</i> isolate Mahabad 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705359.1	2016
20	<i>Mesobuthus eupeus</i> isolate WAS300 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial	KT972140.1	2016
21	<i>Mesobuthus eupeus</i> isolate WAS301 cytochrome c oxidase subunit I (COI) gene, partial cds; mitochondrial	KT972141.1	2016
22	<i>Mesobuthus caucasicus</i> isolate Sardasht 16S ribosomal RNA gene, partial sequence; mitochondrial	KU705355.1	2016
23	<i>Scorpio maurus</i> isolate Mahabad 16S ribosomal RNA gene, partial sequence; mitochondrial	KU705354.1	2016
24	<i>Mesobuthus caucasicus</i> isolate Sardasht 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705361.1	2016
25	<i>Androctonus crassicauda</i> isolate Sardasht 16S ribosomal RNA gene, partial sequence; mitochondrial	KU705358.1	2016
26	<i>Hottentotta saulcyi</i> isolate Sardasht 16S ribosomal RNA gene, partial sequence; mitochondrial	KU705357.1	2016
27	<i>Androctonus crassicauda</i> isolate Urmia 16S ribosomal RNA gene, partial sequence; mitochondrial	KU705356.1	2016
28	<i>Hottentotta saulcyi</i> isolate Sardasht 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705364.1	2016
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29	<i>Mesobuthus eupeus</i> isolate Shahin-Dej 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705362.1	2016
30	<i>Androctonus crassicauda</i> isolate WA-UKN 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705365.1	2016
31	<i>Androctonus crassicauda</i> isolate WAS100 16S ribosomal RNA gene, partial sequence; mitochondrial	KT972136.1	2016
32	<i>Androctonus crassicauda</i> isolate WAS200 12S ribosomal RNA gene, partial sequence; mitochondrial	KT972133.1	2016
33	<i>Mesobuthus eupeus</i> isolate WAS201 12S ribosomal RNA gene, partial sequence; mitochondrial	KT972134.1	2016
34	<i>Mesobuthus eupeus</i> isolate WAS101 16S ribosomal RNA gene, partial sequence; mitochondrial	KT972137.1	2016

35	<i>Odontobuthus doriae</i> isolate WAS202 12S ribosomal RNA gene, partial sequence; mitochondrial	KT972135.1	2016
36	<i>Mesobuthus eupeus</i> isolate WAS102 16S ribosomal RNA gene, partial sequence; mitochondrial	KT972138.1	2016
37	<i>Androctonus crassicauda</i> isolate Makoo 12S ribosomal RNA gene, partial sequence; mitochondrial	KU705367.1	2016
38	<i>Odontobuthus doriae</i> isolate WAS103 16S ribosomal RNA gene, partial sequence; mitochondrial	KT972139.1	2016
39	<i>Mesobuthus caucasicus</i> isolate 7D-Urmia cytochrome oxidase subunit I (COI) gene, partial cds; mitochondrial	MN017360.1	2019
40	<i>Dermacentor marginatus</i> isolate Ardabil-P10 cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK863424.1	2019
41	<i>Dermacentor niveus</i> isolate Khorasan-Shomali-L3 cytochrome oxidase subunit I gene, partial cds; mitochondrial.	MK863423.1	2019
42	<i>Dermacentor marginatus</i> isolate Ardabil-L2 cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK863422.1	2019
43	<i>Dermacentor marginatus</i> isolate Ardabil-1L cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK863421.1	2019
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44	<i>Androctonus crassicauda</i> isolate 13D-Sardasht cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK814934.1	2019
45	<i>Androctonus crassicauda</i> isolate 1D-Makoo cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK814933.1	2019
46	<i>Mesobuthus eupeus</i> isolate 5W-Sardasht cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK814932.1	2019
47	<i>Odontobuthus doriae</i> isolate 18D-Qom cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK814931.1	2019
48	<i>Scorpio maurus</i> isolate 2D-Sardasht cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK814930.1	2019
49	<i>Hottentotta saulcyi</i> isolate 6W-Sardasht cytochrome oxidase subunit I gene, partial cds; mitochondrial	MK814935.1	2019

50	<i>Dermacentor niveus</i> voucher Khorsan-Shomali-b3 internal transcribed spacer 2, partial sequence	MK848411.1	2019
51	<i>Dermacentor niveus</i> voucher Khorsan-Shomali-b6 internal transcribed spacer 2, partial sequence	MK848410.1	2019
52	<i>Dermacentor marginatus</i> voucher Ardebil-b5 internal transcribed spacer 2, partial sequence	MK848409.1	2019
53	<i>Dermacentor marginatus</i> voucher Ardebil-b2 internal transcribed spacer 2, partial sequence	MK848408.1	2019
54	<i>Dermacentor marginatus</i> voucher Ardebil-b1 internal transcribed spacer 2, partial sequence	MK848407.1	2019
55	<i>Lucilia sericata</i> netrin-1 mRNA, partial cds	MG891747.1	2022
56	<i>Scorpio maurus</i> phospholipase A2 (PLA2) mRNA, partial cds	MW241004.1	2022

Software abilities:

- **Bioinformatics analysis software's** (MEGA 7, BioEdit, ClustalW, Oligo7, ...)
- **Using Molecular Biology Databases** (NCBI, Uniprot, EMBL, Swiss-Model, ...)