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1. DATE OF PREPARATION:

April 6, 2024

2. ABOUT

Mehdi Bamorovat was born in 1981 in Kerman, Iran. Upon graduation from high school, he attended Shahid Bahonar University of Kerman and received his B.S in **Veterinary Laboratory Sciences** in 2006. He continued his higher education at the Shahid Bahonar University of Kerman in 2008 and received his M.Sc. in **Veterinary Parasitology** in 2010. He transferred to the Kerman University of Medical Sciences in 2013 to pursue his Ph.D. in **Medical Parasitology** and received his Ph.D. degree in 2019.

Ever since, he has been teaching and doing research work (publishing about **80** research articles and took about **55** research projects) at the School of Medicine and Leishmaniasis Research Center, Kerman University of Medical Sciences (H-Index in Scopus: **19**, H-Index in Google scholar: **23**).

He obtained the premier researcher in the Kerman province, Iran as well as the premier researcher at the Kerman University of Medical Sciences in the Ph.D. course in 2017. Also, obtained the premier researcher at Leishmaniasis Research Center, Kerman, Iran in 2020.

Now, he is an Assistant Professor of Medical Parasitology at the Leishmaniasis Research Center, Kerman University of Medical Sciences, Kerman, Iran.

3. EDUCATION

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| - Ph.D. (Medical Parasitology) | 2013-2019 |
| School of Medicine, Kerman University of Medical Sciences | Kerman, Iran |
| •Thesis: Risk factors for anthroponotic cutaneous leishmaniasis in unresponsive and responsive patients in a major focus, southeast of Iran | |
| •Supervisor: Prof. Iraj Sharifi | |
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| - M.Sc. (Veterinary Parasitology) | 2008-2010 |
| Department of pathobiology, Shahid Bahonar University of Kerman | Kerman, Iran |
| •Thesis: A comparative evaluation of hematological, biochemical and pathological changes among infected sheep with <i>Cysticercus tenuicollis</i> and non-infected control group | |
| • Supervisor: Prof. Mohammad Hossein Radfar | |
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| - B.Sc. (Veterinary Laboratory Sciences) | 2005-2008 |
| Department of pathobiology, Shahid Bahonar University of Kerman | Kerman, Iran |
| •Thesis: Evaluation of respiratory and gastrointestinal diseases in poultry referred to the veterinary clinic of Shahid Bahonar University of Kerman | |
| • Supervisor: Dr. Hassan Sheybani | |

4. EMPLOYMENT RECORD

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| - Assistant Professor | Since 2019 until now |
| Leishmaniasis Research Center, Kerman University of Medical Sciences | Kerman, Iran |
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| - Research Assistant | 2011 –2019 |
| Leishmaniasis Research Center, Kerman University of Medical Sciences | Kerman, Iran |
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5. PUBLICATIONS

A. BOOK CHAPTER

Veterinary mycology and fungal disease. Translated by: Arash Ashraf, Nasrin Adib, Asma Askari, **Mehdi Bamorovat**, Maziar Jajarmi. 2017, Kerman University of Medical Sciences.

B. PUBLISHED ARTICLES

Google Scholar:

<https://scholar.google.com/citations?user=1GuKBYwAAAAJ&hl=en&oi=sra>

1. **Bamorovat M**, Sharifi I, Khosravi A, Aflatoonian MR, Agha Kuchak Afshari S, Salarkia E, Sharifi F, Aflatoonian B, Gharachorloo F, Khamesipour A, Mohebali M. Global Dilemma and Needs Assessment Toward Achieving Sustainable Development Goals in Controlling Leishmaniasis. *Journal of Epidemiology and Global Health*. 2024 Mar 11:1-3.
2. **Bamorovat M**, Sharifi I, Aflatoonian MR, Salarkia E, Afshari SA, Pourkhosravani M, Karamoozian A, Khosravi A, Aflatoonian B, Sharifi F, Divsalar H. A prospective longitudinal study on the elimination trend of rural cutaneous leishmaniasis in southeastern Iran: Climate change, population displacement, and agricultural transition from 1991 to 2021. *Science of The Total Environment*. 2024 Feb 25;913:169684.
3. Seyedi F, Sharifi I, Khosravi A, Molaakbari E, Tavakkoli H, Salarkia E, Bahraminejad S, **Bamorovat M**, Dabiri S, Salari Z, Kamali A. Comparison of cytotoxicity of Miltefosine and its niosomal form on chick embryo model. *Scientific Reports*. 2024 Jan 30;14(1):2482.
4. **Bamorovat M**, Sharifi I, Shafiei Bafti M, Agha Kuchak Afshari S, Aflatoonian MR, Karamoozian A, Jafarzadeh A, Amirzadeh R, Khosravi A, Babaei Z, Safa F. Cutaneous Leishmaniasis Hampers COVID-19: A Controlled Cross-Sectional Study in High-Burden Endemic Areas of Iran. *Journal of Epidemiology and Global Health*. 2024 Jan 8:1-2.
5. Norozipor S, **Bamorovat M**, Ayatollah Mosavi SA, Salarkia E, Hadizadeh S, Sharifi F, Karamoozian A, Ranjbar M, Agha Kuchak Afshari S. Synergistic activity of crocin and crocin loaded in niosomes alone and in combination with fluconazole against *Candida albicans* isolates: *In vitro* and *in silico* study. *Journal of Medical Mycology*. Volume 34, Issue 2, June 2024, 101478.
6. Derakhshani A, Sharifi I, Salarkia E, Keyhani A, Agha Kuchak Afshari S, Iranmanesh B, Lashkarizadeh M, Nejad Biglari H, Lari Najafi M, **Bamorovat M**. Antileishmanial potentials of azacitidine and along with meglumine antimoniate on *Leishmania major*: In silico prediction and in vitro analysis. *Plos one*. 2023 Sep 8;18(9):e0291321.
7. Salarkia E, Sharifi I, Keyhani A, Tavakoli Oliaee R, Khosravi A, Sharifi F, **Bamorovat M**, Babaei Z. In silico and in vitro potentials of crocin and amphotericin B on *Leishmania major*: Multiple synergistic mechanisms of actions. *Plos one*. 2023 Sep 8;18(9):e0291322.
8. Hajhosseini M, Sharifi I, **Bamorovat M**, Karamoozian A, Amanizadeh A, Agha Kuchak Afshari S. Monitoring of airborne fungi during the second wave of COVID-19 in selected

wards of the referral university hospital in southeastern Iran. *Environmental Monitoring and Assessment*. 2023 Sep;195(9):1132.

9. Shamsi E, Radfar MH, Nourollahifard SR, **Bamorovat M**, Nasibi S, Fotoohi S, Hakimi Parizi M, Kheirandish R. Nasopharyngeal myiasis due to *Cephalopina titillator* in Southeastern Iran: a prevalence, histopathological, and molecular assessment. *Journal of Parasitic Diseases*. 2023 Jun;47(2):369-75.
10. Sharifi I, Khosravi A, Aflatoonian MR, Salarkia E, **Bamorovat M**, Moghadam MN, Gouya MM. Cutaneous leishmaniasis situation analysis in the Islamic Republic of Iran in preparation for an elimination plan. *Frontiers in Public Health*. 2023 Apr 28;11:1091709.
11. **Bamorovat M**, Sharifi I, Afshari SA, Karamoozian A, Tahmouresi A, Heshmatkhah A, Salarkia E, Khosravi A, Parizi MH, Barghi M. Poor adherence is a major barrier to the proper treatment of cutaneous leishmaniasis: a case-control field assessment in Iran. *International Journal for Parasitology: Drugs and Drug Resistance*. 2023 Apr 1;21:21-7.
12. **Bamorovat M**, Sharifi I, Afshari SA, Almani PG. Mutual Role of Patients and the Healthcare System in the Control of Cutaneous Leishmaniasis. *Transboundary and Emerging Diseases*. 2023;2023.
13. Khaksar Baniyadi A, Ayatollahi Mosavi SA, Sharifi I, **Bamorovat M**, Salari S, Ahmadi A, Amanizadeh A, Agha Kuchak Afshari S. Vulvovaginal candidiasis in Iranian women: Molecular identification and antifungal susceptibility pattern. *Journal of Obstetrics and Gynaecology Research*. 2022 Dec;48(12):3292-303.
14. **Bamorovat M**, Sharifi I, Aflatoonian MR, Karamoozian A, Tahmouresi A, Jafarzadeh A, Heshmatkhah A, Sharifi F, Salarkia E, Khaleghi T, Khosravi A. Prophylactic effect of cutaneous leishmaniasis against COVID-19: a case-control field assessment. *International Journal of Infectious Diseases*. 2022 Sep 1;122:155-61.
15. Salari S, **Bamorovat M**, Sharifi I, Almani PG. Global distribution of treatment resistance gene markers for leishmaniasis. *Journal of Clinical Laboratory Analysis*. 2022 Aug;36(8):e24599.
16. Salari S, Taghdiri A, **Bamorovat M**, Sharifi I, Almani PG. A novel rapid LAMP test for identification of cutaneous leishmaniasis: an evaluation and comparative analysis of three molecular methods. *Microbial Pathogenesis*. 2022 Aug 1;169:105612.
17. Khosravi A, Sharifi I, Tavakkoli H, Molaakbari E, Bahraminegad S, Salarkia E, Seyedi F, Keyhani A, Salari Z, Sharifi F, **Bamorovat M**. Cytotoxicity of amphotericin B and AmBisome: In silico and in vivo evaluation employing the chick embryo model. *Frontiers in Pharmacology*. 2022 Jun 8;13:860598.
18. Mohseni F, Sharifi I, Oliace RT, Babaei Z, Mostafavi M, Almani PG, Keyhani A, Salarkia E, Sharifi F, Nave HH, **Bamorovat M**. Antiproliferative properties of Turmerone on *Leishmania major*: Modes of action confirmed by antioxidative and immunomodulatory roles. *Comparative Immunology, Microbiology and Infectious Diseases*. 2022 May 1;84:101797.

19. Aflatoonian M, Sharifi I, Aflatoonian B, Salarkia E, Khosravi A, Tavakoli Oliaee R, **Bamorovat M**, Aghaei Afshar A, Babaei Z, Sharifi F, Taheri Soodejani M. Fifty years of struggle to control cutaneous leishmaniasis in the highest endemic county in Iran: A longitudinal observation inferred with interrupted time series model. *PLoS Neglected Tropical Diseases*. 2022 Apr 29;16(4):e0010271.
20. Javaheri E, Sharifi I, **Bamorovat M**, Barghbani R, Raiesi O, Zarandi MB, Mohammadi MA, Babaei Z. New foci of zoonotic cutaneous leishmaniosis due to *Leishmania major* in the northeastern Iran cities of Sabzevar and Neghaab. (2021): 683-689.
21. Sezavar M, Sharifi I, Ghasemi Nejad Almani P, Kazemi B, Davoudi N, Salari S, Salarkia E, Khosravi A, **Bamorovat M**. The potential therapeutic role of PTR1 gene in non-healing anthroponotic cutaneous leishmaniasis due to *Leishmania tropica*. *Journal of Clinical Laboratory Analysis*. 2021 Mar;35(3):e23670.
22. Mostafavi M, Sharifi I, Asadikaram G, Nakhaee N, Kakooei S, Aflatoonian MR, Bamorovat M, Oliaee RT, Karamoozian A. The impact of diabetes on cutaneous leishmaniasis: a case-control field assessment. *Parasitology Research*. 2021 Nov;120:3865-74.
23. **Bamorovat M**, Sharifi I, Tavakoli Oliaee R, Jafarzadeh A, Khosravi A. Determinants of Unresponsiveness to Treatment in Cutaneous Leishmaniasis: A Focus on Anthroponotic Form Due to *Leishmania tropica*. *Frontiers in Microbiology*. 2021 Jun 1;12:1143.
24. **Bamorovat M**, Sharifi I, Dabiri S, Meymandi SS, Karamoozian A, Amiri R, Heshmatkhah A, Zarandi MB, Aflatoonian MR, Sharifi F, Kheirandish R. Major risk factors and histopathological profile of treatment failure, relapse and chronic patients with anthroponotic cutaneous leishmaniasis: A prospective case-control study on treatment outcome and their medical importance. *PLoS neglected tropical diseases*. 2021 Jan 28;15(1):e0009089.
25. **Bamorovat M**, Sharifi I, Rashedi E, Shafian A, Sharifi F, Khosravi A, Tahmouresi A. A novel diagnostic and prognostic approach for unresponsive patients with anthroponotic cutaneous leishmaniasis using artificial neural networks. *Plos one*. 2021 May 5;16(5):e0250904.
26. Keyhani, A., Sharifi, I., Salarkia, E., Khosravi, A., Oliaee, R. T., Babaei, Z., ... & **Bamorovat, M**. (2021). In vitro and in vivo therapeutic potentials of 6-gingerol in combination with amphotericin B for treatment of *Leishmania major* infection: Powerful synergistic and multifunctional effects. *International Immunopharmacology*, 101, 108274.
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28. Meymandi SS, Dabiri S, Eslammanesh T, Azadeh B, Nadji M, Meymandi MS, Dabiri B, Dabiri D, Parizi MH, **Bamorovat M**. Immunopathology of anthroponotic cutaneous

leishmaniasis and incidental diagnostic tool of metastatic granuloma: A case-control study. *Microbial Pathogenesis*. 2021 Mar 1;152:104654.

29. Naderi A, Sharifi I, Aflatoonian MR, Mostafavi M, Parizi MH, Mashayekhi J, Mashayekhi M, Nikpour S, **Bamorovat M**. Dirofilariosis caused by *Dirofilaria immitis* in the south of Kerman province, Iran. *Microbial Pathogenesis*. 2021 May 1;154:104863.
30. Karimi T, Sharifi I, Aflatoonian MR, Aflatoonian B, Mohammadi MA, Salarkia E, Babaei Z, Zarinkar F, Sharifi F, Hatami N, Khosravi A, Eskandari A, Solimani E, Shafiee M, Mozaffari M, Heshmatkhah A, Amiri R, Farajzadeh S, Kyhani A, Aghaei Afshar A, Jafarzadeh A, **Bamorovat M**. A long-lasting emerging epidemic of anthroponotic cutaneous leishmaniasis in southeastern Iran: population movement and peri-urban settlements as a major risk factor. *Parasites & Vectors*. 2021 Dec;14(1):1-4.1.
31. **Bamorovat M**, Sharifi I, Oliaee RT, Aflatoonian MR, Almani PG, Derakhshani A, Nasibi S, Khedri J, Khirandish R, Mohammadi MA. Linguatulosus in small ruminants in southeastern Iran: Epidemiological, histopathological and phylogenetic findings and its public health importance. *Microbial Pathogenesis*. 2021 Mar 1;152:104600.
32. Salari S, Sharifi I, **Bamorovat M**, Almani PG. The immunity of the recombinant prokaryotic and eukaryotic subunit vaccines against cutaneous leishmaniasis. *Microbial Pathogenesis*. 2021 Feb 18:104807.
33. Ilaghi M, Sharifi I, Sharififar F, Sharifi F, Oliaee RT, Babaei Z, Meimamandi MS, Keyhani A, **Bamorovat M**. The potential role and apoptotic profile of three medicinal plant extracts on *Leishmania tropica* by MTT assay, macrophage model and flow cytometry analysis. *Parasite Epidemiology and Control*. 2021 Feb 1;12:e00201.
34. Parsa R, Sedighi A, Sharifi I, **Bamorovat M**, Nasibi S. Molecular characterization of ocular dirofilariosis: a case report of *Dirofilaria immitis* in south-eastern Iran. *BMC Infectious Diseases*. 2020 Dec;20(1):1-5.
35. Mohammadi MA, **Bamorovat M**, Sharifi I, Mostafavi M, Zarandi MB, Kheirandish R, Karamoozian A, Khatami M, Zadeh SH. Linguatula serrata in cattle in southeastern Iran: Epidemiological, histopathological and phylogenetic profile and its zoonotic importance. *Veterinary Parasitology: Regional Studies and Reports*. 2020 Dec 1;22:100465.
36. Oliaee RT, Sharifi I, Bamorovat M, Keyhani A, Babaei Z, Salarkia E, Tavakoly R, Khosravi A, Mostafavi M, Sharifi F, Mousavi SM. The potential role of nicotinamide on *Leishmania tropica*: An assessment of inhibitory effect, cytokines gene expression and arginase profiling. *International Immunopharmacology*. 2020 Sep 1;86:106704.
37. Tajik S, Aflatoonian MR, Beitollahi H, Shoaie IS, Dourandish Z, Fariba GN, Aflatoonian B, **Bamorovat M**. Electrocatalytic oxidation and selective voltammetric detection of methyl dopa in the presence of hydrochlorothiazide in real samples. *Microchemical Journal*. 2020 Nov 1;158:105182.
38. Khatami M, Alijani HQ, Mousazadeh F, Hashemi N, Mahmoudi Z, Darijani S, **Bamorovat M**, Keyhani A, Abdollahpour-Alitappeh M, Borhani F. Calcium carbonate nanowires:

greener biosynthesis and their leishmanicidal activity. *Rsc Advances*. 2020;10(62):38063-8.

39. Khatami M, Khatami S, Mosazade F, Raisi M, Haghighat M, Sabaghan M, Yaghoubi S, Sarani M, **Bamorovat M**, Malekian L, Naroi A. Greener synthesis of Rod Shaped Zinc Oxide Nanoparticles using *Lilium ledebourii* tuber and evaluation of their Leishmanicidal activity. *Iranian Journal of Biotechnology*. 2020 Jan;18(1):e2196.
40. Ezatkhah F, Sharifi I, Babaei Z, Baneshi MR, Zolala F, Kermanizadeh A, Keyhani A, Sharifi M, Dezaki ES, Aflatoonian MR, Aflatoonian B, Khatami M, **Bamorovat M**. Clinical and laboratory evaluation of cured and non-cured patients with cutaneous leishmaniasis treated by Glucantime. *Journal of Vector Borne Diseases*. 2019 Oct 1;56(4):351.
41. Saduqi M, Sharifi I, Babaei Z, Keyhani A, Mostafavi M, Parizi MH, Ghasemian M, **Bamorovat M**, Sharifi F, Aflatoonian MR, Sharififar F. Anti-Leishmanial and Immunomodulatory Effects of Epigallocatechin 3-O-Gallate on *Leishmania tropica*: Apoptosis and Gene Expression Profiling. *Iranian journal of parasitology*. 2019 Oct;14(4):521.
42. Parizi MH, Pardakhty A, Farajzadeh S, Parizi MH, Sharifi H, Keyhani AR, Mostafavi M, **Bamorovat M**, Ghaffari D. Antileishmanial activity and immune modulatory effects of benzoxonium chloride and its entrapped forms in niosome on *Leishmania tropica*. *Journal of Parasitic Diseases*. 2019 Sep;43(3):406-15.
43. Parizi MH, Sharifi I, Farajzadeh S, Pardakhty A, Parizi MH, Sharifi H, Keyhani AR, Mostafavi M, **Bamorovat M**, Khosravi A, Ghaffari D. Tioxolone niosomes exert antileishmanial effects on *Leishmania tropica* by promoting promastigote apoptosis and immunomodulation. *Asian Pacific Journal of Tropical Medicine*. 2019 Aug 1;12(8):365.
44. Mostafavi M, Sharifi I, Farajzadeh S, Khazaeli P, Sharifi H, Pourseyedi E, Kakooei S, **Bamorovat M**, Keyhani A, Parizi MH, Khosravi A. Niosomal formulation of amphotericin B alone and in combination with glucantime: In vitro and in vivo leishmanicidal effects. *Biomedicine & Pharmacotherapy*. 2019 Aug 1;116:108942.
45. Sharifi I, Aflatoonian MR, Babaei Z, Sharifi F, Keyhani A, Salarkia E, Khosravi A, Khamesipour A, Mohebbi M, Nadim A, **Bamorovat M**. Emerging Epidemics of Cutaneous Leishmaniasis in Iran: Operational Aspects, Management and Implemented Control Approaches. *Journal of Medical Microbiology and Infectious Diseases*. 2019 Jul 10;7(3):52-60.
46. Razavinasab SZ, Sharifi I, Aflatoonian MR, Babaei Z, Mohammadi MA, Salarkia E, Sharifi F, Aghaei Afshar A, **Bamorovat M**. Expansion of urban cutaneous leishmaniasis into rural areas of southeastern Iran: Clinical, epidemiological and phylogenetic profiles explored using 7SL high resolution melting-PCR analysis. *Transboundary and emerging diseases*. 2019 Jul;66(4):1602-10.
47. Aflatoonian MR, Sharifi I, Aflatoonian B, **Bamorovat M**, Heshmatkhah A, Babaei Z, Almani PG, Mohammadi MA, Salarkia E, Afshar AA, Sharifi H. Associated-risk

determinants for anthroponotic cutaneous leishmaniasis treated with meglumine antimoniate: A cohort study in Iran. *PLoS neglected tropical diseases*. 2019 Jun 12;13(6):e0007423.

48. Keyhani A, Sharifi I, **Bamorovat M**, Mohammadi MA, Askari A, Ebrahimipour M, Harandi MF. Epidemiological and molecular studies on *Echinococcus granulosus* from free-roaming dogs in Southeast Iran. *Veterinary world*. 2019 Apr;13(4):739.
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50. Khosravi A, Sharifi I, Tavakkoli H, Keyhani AR, Afgar A, Salari Z, **Bamorovat M**, Sharifi F, Khaleghi T, Varma RS, Dabiri S. Toxicopathological effects of meglumine antimoniate on human umbilical vein endothelial cells. *Toxicology in Vitro*. 2019 Apr 1;56:10-8.
51. **Bamorovat M**, Sharifi I, Fekri A, Keyhani A, Aflatoonian MR, Heshmatkhah A, Oliaee RT, Khosravi A, Naderi A, Parizi MH, Mostafavi M. A single-group trial of end-stage patients with anthroponotic cutaneous leishmaniasis: Levamisole in combination with Glucantime in field and laboratory models. *Microbial pathogenesis*. 2019 Mar 1;128:162-70.
52. Oliaee RT, Sharifi I, Afgar A, Jafarzadeh A, Kareshk AT, **Bamorovat M**, Sharifi H, Babaei Z, Keyhani A, Keyhani A, Abedi L. Differential expression of TLRs 2, 4, 9, iNOS and TNF- α and arginase activity in peripheral blood monocytes from glucantime unresponsive and responsive patients with anthroponotic cutaneous leishmaniasis caused by *Leishmania tropica*. *Microbial pathogenesis*. 2019 Jan 1;126:368-78.
53. Khosravi A, Sharifi I, Tavakkoli H, Keyhani AR, Afgar A, Salari Z, Mosallanejad SS, **Bamorovat M**, Sharifi F, Hassanzadeh S, Sadeghi B. Vascular apoptosis associated with meglumine antimoniate: In vivo investigation of a chick embryo model. *Biochemical and biophysical research communications*. 2018 Nov 2;505(3):794-800.
54. Askari A, Sharifi I, Aflatoonian MR, Babaei Z, Almani PG, Mohammadi MA, Alizadeh H, Hemati S, **Bamorovat M**. A newly emerged focus of zoonotic cutaneous leishmaniasis in South-Western Iran. *Microbial pathogenesis*. 2018 Aug 1;121:363-8.
55. Kareshk AT, Oliaee RT, Mahmoudvand H, Keyhani A, Mohammadi MA, **Bamorovat M**, Hajhosseini MA, Zia-Ali N. The first survey of isolation and molecular typing of *Toxoplasma gondii* by bioassay and PCR method in BALB/c mice in camels (*Camelus dromedarius*) from eastern Iran. *Iranian journal of parasitology*. 2018 Jul;13(3):382
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58. Ramezany M, Sharifi I, Babaei Z, Ghasemi Nejad Almani P, Heshmatkhah A, Keyhani A, Aflatoonian MR, Mohammadi MA, Sharifi F, **Bamorovat M**. Geographical distribution and molecular characterization for cutaneous leishmaniasis species by sequencing and phylogenetic analyses of kDNA and ITS1 loci markers in south-eastern Iran. *Pathogens and global health*. 2018 Apr 3;112(3):132-41.
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63. Mahmoudvand H, Kheirandish F, Mirbadie SR, Kayedi MH, Riabi TR, Ghasemi AA, **Bamorovat M**, Sharifi I. The potential use of methotrexate in the treatment of cutaneous leishmaniasis: in vitro assays against sensitive and meglumine antimoniate-resistant strains of *Leishmania tropica*. *Iranian journal of parasitology*. 2017 Jul;12(3):339.
64. Alizade H, Sharifi H, Naderi Z, Ghanbargpour R, **Bamorovat M**, Aflatoonian MR. High frequency of diarrheagenic *Escherichia coli* in HIV-infected patients and patients with thalassemia in Kerman, Iran. *Journal of the International Association of Providers of AIDS Care (JIAPAC)*. 2017 Jul;16(4):353-8.
65. Ghatee MA, Kanannejad Z, Sharifi I, Askari A, **Bamorovat M**. Survey of False-positive Reactivity of Latex Agglutination Test for Kala-azar (Katex) without Urine Sample Boiling Process in Autoimmune Patients. *Iranian journal of public health*. 2017 Jun;46(6):804.
66. **Bamorovat M**, Sharifi I, Harandi MF, Nasibi S, Sadeghi B, Khedri J, Mohammadi MA. Parasitological, serological and molecular study of *Dirofilaria immitis* in domestic dogs, southeastern Iran. *Iranian journal of parasitology*. 2017 Apr;12(2):260.
67. Mohammadi MA, **Bamorovat M**, Harandi MF, Karimi T, Sharifi I, Aflatoonian MR. Comparison of three PCR-based methods for simplicity and cost effectiveness

identification of cutaneous Leishmaniasis due to *Leishmania tropica*. Iranian journal of parasitology. 2017 Apr;12(2):215.

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77. **Bamorovat M**, Sharifi I, Mohammadi MA, Harandi MF, Mohebbali M, Afshar RM, Babaei Z, Ziaali N, Aflatoonian MR. Canine visceral leishmaniasis in Kerman, southeast of Iran: a seroepidemiological, histopathological and molecular study. Iranian journal of parasitology. 2014 Sep;9(3):342.

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C. ABSTRACTS

Number	Title	Author	Congress
1	Molecular identification of Fasciola species isolated from cattle and sheep in southeastern Iran	Elham Akhlaghi , Mohammad Ali Mohammadi ,Saeid Nasibi , Hosein kamyabi, Mehdi Bamorovat , Naser Zia Ali, Majid Fasihi Harandi	(NICOPA 9) Guilan, Iran; 20-22 May 2015
2	Epidemiology and clinical manifestations of visceral leishmaniasis and species identity in domestic dogs using elisa, nested –pcr and histopathological techniques in southern districts of Kerman province, Iran in 2013	Afsaneh Naderi, Iraj Sharifi, Zahra Babaei, Shahriar Dabiri, Jahangir Mashayekhi, Mehdi Bamorovat , Mahshid Mostafavi	(NICOPA 9) Guilan, Iran; 20-22 May 2015
3	Frequency of theileriosis and anaplasmosis in referred livestock to veterinary clinics in zabol, southeast of iran	Hamed Ganjali, Asma Askari, Mehdi Bamorovat , Seyed Hadi Hashemi, Masoud Sargolzaei	(NICOPA 9) Guilan, Iran; 20-22 May 2015
4	The tiger tooth croaker (Otolithes ruber), a paratenic host of the zoonotic anisakid nematodes from persian gulf	Masoumeh Ghadam, Asma Askari, Poulin Shohreh, Hoseinali Ebrahimzade Mousavi, Mehdi Bamorovat	(NICOPA 9) Guilan, Iran; 20-22 May 2015

5	A survey of reservoir hosts in two foci of cutaneous leishmaniasis in Kerman province, southeast of Iran	Marayam Hakimi Parizi, Dariush Ghaffari, Mohammad Reza Yaghoobi Ershadi, Iraj Sharifi, Amir Ahmad Akhavan Mehdi Bamorovat	(NICOPA 9) Guilan, Iran; 20-22 May 2015
6	Frequency of Trypanosoma evansi in camel in the city of Rafsanjan, Kerman province, 2011	Bamorovat M. , Borhani Zarandi M., Fasihi Harandi M., Asgary Nezhad H., Moghami M.	First international and 8th National Congress of Parasitology and Parasitic Diseases in Iran, Kerman, Oct, 16-18, 2012
7	Prevalence of Trychomonas vaginalis and other Causes of vaginitis in women referred to Kerman health care Centers	Borhani Zarandi M., Bamorovat M. , Radfar M.H., nourollahifard S.R., Asgary Nezhad H., hozhe S	First international and 8th National Congress of Parasitology and Parasitic Diseases in Iran, Kerman, Oct, 16-18, 2012
8	A comparative evaluation of the cutaneous leishmaniasis severity in patients with diabetes in comparison with control group	Mostafavi M, Sharifi I, Asidikaram Gh, Nakhaei N, Kakooei, Bamorovat M , Zamani Z	First international and 8th National Congress of Parasitology and Parasitic Diseases in Iran, Kerman, Oct, 16-18, 2012
9	Successful treatment of patients with anthroponotic cutaneous leishmaniasis by levamisole in combination with glucantime	Bamorovat Mehdi , Iraj Sharifi	2 nd International Congress of Climate Change & vector borne Diseases and 4 th National Congress of Medical Entomology. Shiraz University of Medical Sciences, Shiraz, IRAN; Nov. 13-15, 2019.

10	Canine heartworm in domestic dogs in south of Kerman, Iran	Afsaneh Naderi. Iraj Sharifi. Mohammad Reza Aflatoonian. Mojtaba Mashayekhi, Mehdi Bamorovat , Jahangir Mashayekhi	(NICOPA 10) Shiraz, Iran; 1-3 November, 2017
11	In vitro antileishmanial activity of methanolic and aqueous extracts of Eucalyptus camaldulensis against Leishmania major	Iraj Sharifi, Seyyed Jafar Nosratabadi, Fariba Sharififar, Mehdi Bamorovat , Hamid Daneshvar and Mohammad Mirzaie	3RD WORLD CONGRESS ON Medicinal Plants and Natural Products Research
12	Invitro effectiveness of piroction olamine on the protoscolexes of Echinococcus granulosus	Ghasemi Nejad Almani P , Fasihi Harandi M, Shakibaie M., Tohidi F , Saedi Dezaki E , Sharifi I., Zia Ali N., Babaei Z, Kamyabi H., Bamorovat M	First international and 8th National Congress of Parasitology and Parasitic Diseases in Iran, Oct, 16-18, 2012
13	Risk factors for anthroponotic cutaneous leishmaniasis in responsive and unresponsive patients in a major focus in southeast of iran	Iraj Sharifi, Mehdi Bamorovat , Mohammad Reza Aflatoonian, Ali Karamoozian, Zahra Babaei, Fatemeh Sharifi, Razieh Tavakoly, Saeid Nasibi	World 6 LESH, TOLEDO, SPAIN, TOLEDO CONFERENCES CENTER, 16-22 May 2017
14	Risk factors and histopathological profile for unresponsive cases with anthroponotic cutaneous leishmaniasis: A case-control study on treatment outcome	Mehdi Bamorovat , Iraj Sharifi, Setare Agha Kuchak Afshari	Iran's international congress of microbiology, Tehran 30 August- 1 September, 2023

6. RESEARCH PROJECTS

A. RESEARCH PROJECTS IN KERMAN UNIVERSITY OF MEDICAL SCIENCES

1. Evaluation of an artificial intelligence method to detect of skin lesions in unresponsive and responsive cases with anthroponotic cutaneous leishmaniasis in major foci of southeastern Iran. Project no. 402000993, 2024.
2. Evaluation and production of lysis solution for DNA extraction from agarose gel using in-housed magnetic nanoparticles compared to column base method. Project no. 402000877, 2024.
3. Determination and comparison of microRNA 410 and microRNA 340 in macrophages infected with the standard strain of *Leishmania tropica* in exposure to glucantim and amphotericin B drugs: in silico and in vitro analysis. Project no. 402000779, 2023.
4. Geographical distribution and associated factors of anthroponotic cutaneous leishmaniasis (urban type) in Kerman city. Project no. 402000691, 2023.
5. Exploring miRNA-mRNA interactions in human macrophages cell line infected with meglumine antimoniate sensitive and resistant isolates of *Leishmania tropica*. Project no. 402000690, 2023.
6. Synthesis of nanoniosomal of hydroxychloroquine and CdS/MIL-125 (Ti) nanocomposite to determine their application in photodynamic therapy on amastigotes and promastigotes of *Leishmania tropica* using bioinformatics, in vitro and in vivo methods. Project no. 402000402, 2023.
7. Investigating histopathological and immunohistochemical changes and related microRNAs in response and unresponse isolates of urban cutaneous leishmaniasis parasite in endemic foci of Kerman province. Project no. 402000358, 2023.
8. Evaluation and comparison of the effect of the simple and noisomal forms of crocin alone and in combination with fluconazole against clinical *Candida albicans* isolates: in vitro. Project no. 401000628, 2022.
9. Evaluation of the effect of the essence and active ingredients (cuminaldehyde and gamma-terpinene) of black cumin alone and in combination with fluconazole against clinical *Candida albicans* isolates: in vitro. Project no. 401000559, 2022.
10. Evaluation and comparison of recurrence and re-infection forms of anthroponotic cutaneous leishmaniasis during the last 30 years in the major foci in southeastern Iran. Project no. 401000559, 2022.
12. Evaluation of cutaneous leishmaniasis species in Bam County zones during the last 30 years: The role of climate change, urbanization, and agriculture. Project no. 401000243, 2022.
13. Evaluation of morbidity and mortality of coronavirus in persons with a history of cutaneous leishmaniasis compared with persons without a history of cutaneous leishmaniasis in Bam. Project no. 400000704, 2022.

14. Evaluation of 50-year historical observation of human-made and natural events on anthroponotic cutaneous leishmaniasis in Iran. Project no. 99001203, 2021.
15. Fabrication of magnetic and functionalized nanostructures with light-sensitive nanomaterials on glucantime anti-leishmaniasis drug to evaluate their application in photodynamic therapy on *Leishmania major* in comparison with the simple form of glucantime in a mouse model. Project no. 99000899, 2020.
16. Synthesis fabrication of magnetic and functionalized nanostructures with light-sensitive nanomaterials of glucantime as anti-leishmanial drug to evaluate their application in photodynamic therapy on amastigotes and promastigotes of *Leishmania major* s compared to conventional form of glucantime in vitro. Project no. 99000897, 2020.
17. Evaluation of garlic organosulfur compound (diallylsulfide) alone and in combination with meglumine antimoniate on the *Leishmania major* stages in vitro and murine model and the *Leishmania infantum* stages in vitro and transcriptome profiling of *L. infantum* promastigote. Project no. 98001181, 2020.
18. Evaluation of therapeutic effect of allyl methyl sulfide alone and in combination with amphotericin B on standard and resistant strains of *Leishmania tropica* in invitro and in vivo models. Project no. 98001115, 2019.
19. Evaluation of antileishmanial effects of nisomal and liposomal forms of Cotton extract (*Gossypium hirsutum*). Project no. 8000961, 2019.
20. Evaluation of parasitic infestations (animal, plant and environment) in Kerman and Baft cities (high risk for Multiple Sclerosis), Jiroft and Kahnoj cities (low risk for Multiple sclerosis). Project no. 98000867, 2019,
21. Evaluation and comparison of the trypanoxin and trypanoxin peroxidase expression produced by responsive and nonresponsive *Leishmania magoor* isolates. Project no. 98000765, 2019.
22. Evaluation of ornithine decarboxylase and cystathione b-synthase genes expression in unresponsive and sensitive clinical isolates of anthroponotic cutaneous leishmaniasis in endemic foci of Kerman province. Project no. 98000753, 2019.
23. Evaluation of a novel diagnostic and prognostic method for unresponsive cases with anthroponotic cutaneous leishmaniasis by an artificial neural network model. Project no. 98000673, 2019.
24. In vitro evaluation of the effect of amphotericin B, selenium and glucantime along with niosome alone or in combination on *Leishmania major*. Project no. 98000476, 2019.

25. Evaluation of antimony-resistant genes expression profile in axenic promastigote and intracellular amastigote in unresponsive, lopoid and sensitive clinical isolates of anthroponotic cutaneous leishmaniasis in endemic foci of Kerman province. Project no. 98000474, 2019.
26. Evaluation of the antileishmanial effects of niosomal form of tioxolone, benzoxonium chloride and tioben on *Leishmania major* in in vitro. Project no. 98000424, 2019.
27. Evaluation of poor treatment adherence in unresponsive and responsive patients with anthroponotic cutaneous leishmaniasis in the major focous, southeastern Iran. Project no. 98000240, 2019.
28. Evaluation of cytotoxicity of different forms of amphotericin-B on the chick embryo model. Project no. 98000235, 2019.
29. Evaluation and comparision of risk related factors for chronic, relapse and healed forms of anthroponotic cutaneous leishmaniasis in the major foci, southeastern Iran (Bam and Kerman). Project no. 97001076, 2018.
30. Designing, production and application of Nano/oligonucleotide nanocomplex in diagnosis of *Leishmania tropica* and *Leishmania major* in clinical specimens. Project no. 97000965, 2018.
31. Evaluation Geographic distribution and phylogeny in cutaneous leishmaniasis species in endemic regions of Iran (2016-2018). Project no. 96000957, 2017.
32. In vitro evaluation of crocin alone or in combination with Glucantime on anti-leishmanial of promastigote & amastigote stages. Project no. 96000779, 2017.
33. Identification of Taeniidae Species in Canids by using melting curve analysis of microsatellites in rDNA region. Project no. 96000490, 2017.
34. Development of a quantitative molecular detection technique for Taeniidae family in the mitochondrial cox1 region. Project no. 96000489, 2017.
35. Antileishmanial effect of levamisole alone and in combination with Glucantime on *Leishmania tropica* promastigotes and amastigotes in experimental models. Project no. 96000161, 2017.
36. Evaluation of the effect of biologically synthesized Ni and Ag nanoparticles against Iranian strains of *Leishmania tropica* and *L. major* promastigotes and amastigotes. Project no. 96000160, 2017.
37. Identification and presentation tow new focie of CL in south and southeasth Kerman city 1395-1396. Project no. 95000121, 2016.
38. Comprehensive Nucleotide difference protected genome *leishmania tropica* in Bam and Kerman cities with new focie round of Kerman 2016. Project no. 95000120, 2016.

39. Identification of anthroonotic cutaneous leishmaniasis by microscopic , LAMP , Real time PCR methods. Project no. 950240, 2016.
40. dentification of two new foci of leishmaniasis and determination of disease transmission cycle in Sarasiab and Allahabad regions in the south and southeast of Kerman, 2016-2017. Project no. 950190, 2016.
41. Evaluation and comparison of nucleotide variations in genes of protected genome regions (7SL-RNA / ITS / Miniexon rDNA) of *Leishmania tropica* in Bam, Kerman suburbs and Kerman. Project no. 950189, 2016.
42. Evaluation of the effect of niosome containing amphotericin B, glucantime and selenium nanoparticles and apoptosis on *Leishmania tropica* in vitro and the determine of best formulation for clinical trial. Project no. 940685, 2015.
43. Evaluation of the effect of tioxolone, benzoxonium chloride, thiophene and their niosormal forms on *Leishmania tropica* in invitro and selecting the appropriate dose for clinical trial. Project no. 940649, 2015.
44. Evaluation of risk-related factors in unresponsivee and responsive forms of anthroponotic cutaneous leishmaniasis in the main foci of southeastern Iran. Project no. 940615, 2014.
45. Prevalence and molecular and serological diagnosis of giardiasis in thalassemia patients compared with non-thalassemia group in Kerman. Project no. 940390, 2014.
46. Prevalence of *Toxoplasma gondii* in the meat of slaughtered animals (sheep, goats) by molecular method (B1 gene) and isolation of *Toxoplasma gondii* from the meat of slaughtered camels by bioassay and determination of genotypes of isolates in Kerman. Project no. 940386, 2014.
47. Seroepidemiological study of *Dirofilaria imitis* parasite by ELISA method in stray dogs in the south of Kerman province in 2014. Project no. 930427, 2014.
48. Study of frequency distribution and molecular identification of protected regions of the genome of *Linguatula* isolates in ruminants of slaughterhouses in Kerman province. Project no. 930323, 2014.
49. Isolation and culture of inflammatory cell lines from acute, chronic and lupoid forms of anthroonotic cutaneous leishmaniasis and evaluation of their histopathology, immunohistochemistry, cellular and molecular profile. Project no. 930084, 2013.
50. Evaluation and comparison of expression of vital genes in the development of adult and larval stages of *Echinococcus granulosus* in vitro by Real time-PCR method. Project no. 920273, 2012.
51. Investigation of important zoonotic parasites in stray dogs in the city and suburbs of Kerman by parasitological, serological and molecular methods in 2011. Project no. 910056, 2011.

52. Determining the frequency of causal agents of fungal infections, molecular identification, and drug susceptibility pattern of isolates in diabetic patients in Kerman City. 402000954, 2024.

B. RESEARCH PROJECTS IN NIMAD

National proposals presented in National Institute for Medical Research Development (NIMAD)

Number	No. Proposal	Title	Year	Role
1	957777	Evaluation of live recombinant vaccine against experimental cutaneous leishmaniasis due to <i>L.major</i>	1395	Project partner
2	971413	Antileishmanial effect of Gingeraol on <i>Leishmania major</i> stages, its cytotoxicity, antioxidant activity, apoptosis and gene expression profiling	1397	Project partner
3	4002435	Differential regulation of mRNA profile of human macrophages infected by <i>Leishmania tropica</i>	1401	Project partner

7. JOURNAL REVIEW

- PLOS One, Impact factor: 3.7, ISSN: 1932-6203, Publisher: PLOS
- International Journal of Molecular Sciences, Impact factor: 6.208, ISSN: 1422-0067, Publisher: ProQuest
- BMC Infectious Diseases, Impact factor: 3.667, ISSN: 1471-2334, Publisher: ProQuest
- Archives of Microbiology, Impact factor: 2.667, ISSN: 0302-8933, Publisher: Springer, ProQuest
- Tropical Medicine and International Health, Impact factor: 3.918, ISSN: 1365-3156, Publisher: Wiley, ProQuest.
- Frontiers in Public Health, Impact factor: 6.461, ISSN: 2296-2565, Publisher: Frontiers Media

- Transboundary and Emerging Diseases, Impact factor: 4.521, ISSN: 18651674, 18651682, Publisher: Wiley-Blackwell Publishing Ltd
 - Veterinary Parasitology, Impact factor: 2.821, ISSN: 0304-4017, Publisher: Elsevier
 - International Journal of Microbiology, ISSN: 16879198, 1687918X, Publisher: Hindawi Limited
 - Journal of Parasitic Diseases, ISSN: 09717196, 09750703, Publisher: Springer India
 - Comparative Clinical Pathology, ISSN: 1618565X, 16185641, Publisher: Springer London
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8. AWARDS

- The premier researcher in the Ph.D. student course 2017
In Kerman province, Iran
 - The premier researcher in the Ph.D. student course 2017
In Kerman University of Medical Sciences
 - The premier researcher 2020
In Leishmaniasis Research Center, Kerman, Iran
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9. TEACHING

- Shahid Bahonar University of Kerman (about 2 years): Courses: Microbiology Laboratory, Physiology laboratory and Meat hygiene and inspection
 - Islamic Azad University of Shahrabak Branch (about 2 year), Courses: Parasitology, Parasitic diseases, Zoonosis, Histopathology and Laboratory methods of parasitology
 - Applied Science University of Kerman (about 4 year): Courses: Parasitology, Parasitic diseases, Zoonosis, Microbiology, Laboratory methods of parasitology, Pathology and Histopathology
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10. STUDENTS

Current Students/Fellows

- Einollah Shamsi, Ph.D. student of Veterinary Parasitology, Thesis: Epidemiological, pathological and phylogenetic study of *Cephalopina titillator* in slaughtered camels in Kerman province (Advisor).
 - Shirin Jahanbakhshian, D.V.M student of Veterinary, Thesis: The effects of long-term administration of meglumine antimoniate on morphometrically and histopathological changes of mouse testis (Advisor).
 - Hamid Karami Robati, M.Sc student of Veterinary Parasitology, Thesis: Prevalence and molecular identification of cutaneous leishmaniasis in Orzuieh city of Kerman province during 2013 to 2020 (Advisor).
 - Mahsa Askar, M.Sc student of Medical Mycology, Thesis: Inhibitory effect of the essence and active ingredients (cuminaldehyde and gamma-terpinene) of the black cumin alone and in combination with fluconazole against clinical *Candida albicans* isolates: in vitro (Advisor).
 - Sara Norozipour, M.Sc student of Medical Mycology, Thesis: Evaluation and comparison of the inhibitory effect of the simple and noisome forms of crocin alone and in combination with fluconazole against clinical *Candida albicans* isolates, in vitro study (Advisor).
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11. ACADEMIC EDITOR

- PLOS One, Impact factor: 3.7, ISSN: 1932-6203, Publisher: PLOS

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