



Ali Hematian, Academic CV

(last update :2025,4)

PERSONAL INFORMATION

Ali Hematian, Ilam University of Medical sciences, Pazhohesh Blvd., Ilam, Iran

Tel: +98 8432235714

Mobile: +98 9183400205

Email: hematianali@yahoo.com ,hematianali@gmail.com, Hematian-a@medilam.ac.ir

Date of Birth:31. December.1982

Marital Status: Married

EDUCATIONAL BACKGROUND

1- B.Sc. (2004) - Medical Laboratory Technology (Arak University, Arak, Iran)

2- M.Sc. (2007) – Medical microbiology (Kermanshah University of Medical Sciences, School of medicine, Kermanshah, Iran)

3- Ph.D. (2021) – Medical bacteriology (Shahid beheshti University of Medical Sciences, School of Medicine, Tehran, Iran)

EDUCATIONAL INFORMATION

1. Ranking the 1st in PhD entrance exam of Medical Microbiology (2017).

2. Ph.D graduation score (20 out of 20)

3. Ph.D Thesis title: Survey of heteroresistant to colistin and relation with toxin-Antitoxin systems in *Acinetobacter baumannii* isolated from Hospitalized patients in Tehran hospitals

PUBLICATION

A) JOURNAL PAPERS

1. S Hosseini, N Mahdian, L Gheitani, M Mahmoudi, M Raftari, **A Hematian**. Prevalence of heteroresistant *Helicobacter pylori* and treatment follow-up in patients in Ilam, Iran. *GMS Hygiene and Infection Control* 19, Doc24.
2. Maryam Asadinezhad, Saeed Khoshnood, Parisa Asadollahi, Sobhan Ghafourian, Nourkhoda Sadeghifard, Iraj Pakzad, Yasaman Zeinivand, **Ali Hematian**, Behrooz Sadeghi Kalani. Development of innovative multi-epitope mRNA vaccine against *Pseudomonas aeruginosa* using in silico approaches. *Briefings in Bioinformatics* 25 (1), bbad502
3. I Pakzad, F Yarkarami, BS Kalani, M Shafieian, **A Hematian**. Inhibitory Effects of Carvacrol on Biofilm Formation in Colistin Heteroresistant *Acinetobacter baumannii* Clinical Isolates. *Current Drug Discovery Technologies* 21 (1), 119-124.
4. Ali Shivaee, Sara Bahonar, Mehdi Goudarzi, **Ali Hematian**, Bahareh Hajikhani, Behrooz Sadeghi Kalani. Investigating the effect of the inhibitory peptide on *L.monocytogenes* cell invasion: an in silico and in vitro study. *Gut Pathogens* 15 (1), 51.
5. F Latifi, A Hashemi, BS Kalani, I Pakzad, **A Hematian**. abkBA Toxin–Antitoxin System May Act as Antipersister Modules in *Acinetobacter Baumannii* Clinical Isolates. *Future Microbiology* 18 (11), 707-714.
6. F Latifi, R Pakzad, P Asadollahi, **A Hematian**, I Pakzad. Worldwide Prevalence of Colistin Resistance among Enterobacteriaceae: A Systematic Review and Meta-Analysis. *Clin. Lab* 69, 657-669.
7. A Fadaeipour, M Nazari, **A Hematian**. Inhibitory effect of *Syzygium aromaticum* L. and *Coffea arabica* L. extract on *Staphylococcus aureus* in vitro and comparing it with selected antibiotics. *Journal of Current Biomedical Reports* 1 (1).
8. Fatemeh Yarkarami, Hossein Kazemian, Nourkhoda Sadeghifard, Reza Pakzad, Farid Azizi Jalilian, Parisa Asadollahi, **Ali Hematian**, Iraj Pakzad. Inhibitory Effects of Carvacrol on Biofilm Formation and Expression of Biofilm Related Genes in Clinical Isolates of *Enterococcus faecalis*. *Clinical Laboratory* 68 (6).
9. **Hematian A**, Goudarzi H, Ghalavand Z, Goudarzi M, Shafieian M, Hashemi A, Ghafourian S. The relationship between *phoH* and colistin-heteroresistant in clinical isolates of *Acinetobacter baumannii*. *Gene Reports*. 2021 Dec 1;25101356.
10. Hajikhani B, Nasiri MJ, Hosseini SS, Khalili F, Karimi-Yazdi M, **Hematian A**, Nojookambari NY, Goudarzi M, Dadashi M, Mirsaedi M. Clofazimine susceptibility testing of *Mycobacterium avium* complex and *Mycobacterium abscessus*: a meta-analysis study. *Journal of Global Antimicrobial Resistance*. 2021 Sep 1;26188-93.
11. Nasiri MJ, Calcagno T, Hosseini SS, **Hematian A**, Nojookambari NY, Karimi-Yazdi M, Mirsaedi M. Role of Clofazimine in Treatment of *Mycobacterium avium* Complex. *Frontiers in medicine*. 2021;8
12. Rad ZR, Rad ZR, Goudarzi H, Goudarzi M, Alizade H, **Hematian A**, Ardebili A, Ezadi F, Mazraeh FN, Hashemi A. Detection of New Delhi Metallo- β -lactamase-1 among *Pseudomonas aeruginosa* isolated from adult and pediatric patients in Iranian hospitals. *Gene Reports*. 2021 Jun 1;23101152.

13. Bimanand L, Taherikalani M, Jalilian FA, Sadeghifard N, Ghafourian S, Mahdavi Z, Mohamadi S, Sayehmiri K, **Hematian A**, Pakzad I. Association between biofilm production, adhesion genes and drugs resistance in different SCCmec types of methicillin resistant *Staphylococcus aureus* strains isolated from several major hospitals of Iran. *Iranian journal of basic medical sciences*. 2018 Apr;21(4):400.
14. **Hematian A**, Monjezi A, Abiri R, Mohajeri P, Farahani A, Soroush S, Taherikalani M. Clonal lineage diversity, antibiotic resistance, and virulence determinants among methicillin-resistant and methicillin-susceptible *Staphylococcus aureus* isolated from nurses at a teaching hospital in Ilam, Iran: Successful nares decolonization by mupirocin. *Journal of Global Infectious Diseases*. 2018 Apr;10(2):67.
15. **Hematian A**, Sadeghifard N, Mohebi R, Taherikalani M, Nasrolahi A, Amraei M, Ghafourian S. Traditional and modern cell culture in virus diagnosis. *Osong public health and research perspectives*. 2016 Apr 1;7(2):77-82.
16. Asadollahi P, Delpisheh A, Maleki MH, Jalilian FA, Alikhani MY, Asadollahi K, Soroush S, **Hematian A**, Emaneini M, Taherikalani M. Enterotoxin and exfoliative toxin genes among methicillin-resistant *Staphylococcus aureus* isolates recovered from Ilam, Iran. *Avicenna Journal of Clinical Microbiology and Infection*. 2014 Aug 1;1(2):20208-.
17. Razieh A, Heidari Moghadam R, Soleimani S, Madihi SV, **Hematian A**, Pakzad I, Heidarzadi K, Karami N, Karimi Z, Azizi Jalilian F. Disinfection and general cleaning practices used in health care centers and hospitals. *Journal of Basic Research in Medical Sciences*. 2014 Dec 10;1(3):1-3.
18. Yasemi M, Peyman H, Asadollahi K, Feizi A, Soroush S, **Hematian A**, Jalilian FA, Emaneini M, Alikhani MY, Taherikalani M. Frequency of bacteria causing urinary tract infections and their antimicrobial resistance patterns among pediatric patients in Western Iran from 2007-2009. *Journal of biological regulators and homeostatic agents*. 2014 Jul 1;28(3):443-8.
19. Heidarzadi K, Jalilian FA, Rekabi AR, Amini R, Khorshidi A, Ghobadian Z, Bouchani M, **Hematian A**, Taherikalani M. SURVEY OF MICROBIAL CONTAMINATION PREVALANCE AND THE EFFECTIVE FACTORS IN ILAM UNIVERSITY OF MEDICAL SCIENCES STUDENT'S TOOTHBRUSHES. *Iranian Journal of Public Health*. 2014;43(2):229.
20. Nazari M, Pakzad I, Maleki A, **Hematian A**. Comparison of in vitro inhibitory effects of different extracts of *Scrophularia striata* plant on *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Helicobacter pylori*. *Journal of Ilam University of Medical Sciences*. 2014;22(3):67-72.
21. Amini R, Abdulamir AS, Mustaffa NA, Jahanshiri F, Ling BP, **Hematian A**, Taherikalani M, Amini Y, Pakzad I, Sekawi Z, Jalilian FA. Isolation and identification of methicillin-resistance *staphylococcus aureus* (MRSA) from nasal of college students. *Journal of Pure and Applied Microbiology*. 2013;7(4):3155-62.
22. Dolat E, Hasanzadeh H, Rezaei Tavirany M, Heidari keshel S, Jabbari Arfaee A, Seyyedi SS, Akbari Eidgahi M.R, **Hematian A**. Evaluation of synergistic effect of TiO₂ nanoparticles and gamma rays on human breast cancer cell line. *Scientific Journal of Ilam University of Medical Sciences* 2013.
23. Amini R, Sahib AA, Wong CB, Jahansiri F, Chung C, **Hematian A**, Sekawi Z, Jalilian FA. Identification and screening of methicillin-resistant *Staphylococcus*

aureus from fingernails among university students in Malaysia. *Asia Life Sci.* 2013 Jul 1;2:323-40.

24. Zamanian Azodi M, Ardashiri Lajimi A, Ahmadi N, Gilanchi S, Abbasi N, **Hematian A**. The study of antibiotic properties of scrophularia striata aqueous extract on *Staphylococcus aureus*. *HBI Journals*. 2013;20:51-8.
25. Pakzad I, Zadegan HH, Ghafurian S, **Hematian A**, Fooladi AA. Microbiological Pattern and Antibiotic Susceptibility of Isolates from Bronchiectasis. *Journal of Pure and Applied Microbiology*. 2012;6(3):1127-32.
26. Amini R, Abdulamir AS, Beh PL, Jahanshiri F, **Hematian A**, Zargar M, Sekawi Z, Jalilian FA. Isolation and identification of methicillin-resistant *Staphylococcus aureus* from keys of college students using different detection methods. *British Biotechnology Journal*. 2012 Jan 1;2(1):13.
27. Amini R, As A, Chung C, Jahanshiri F, Wong CB, Poyling B, **Hematian A**, Sekawi Z, Zargar M, Jalilian FA. Circulation and transmission of methicillin-resistant *Staphylococcus aureus* among college students in Malaysia (cell phones as reservoir). *Asian Biomedicine*. 2012 Oct 1;6(5):659-73.
28. Amini R, Abdulamir AS, Jahanshiri F, Shan LC, Amini Y, Sekawi Z, Jalilian FA. Isolation and identification of methicillin-resistant *Staphylococcus aureus* from students' coins. *African Journal of Biotechnology*. 2012;11(50):11143-9.
29. Maleki A, Ghafourian S, Sadeghifard N, Shafiean M, **Hematian A**, Khosravi M, Mohebi R. Prevalence of Intestinal Parasitic Infections among Suspected Referred Patients to Reference Laboratory of Ilam, West Iran. *Journal of Pure and Applied Microbiology*. 2012 Jun 1;6(2):803-5.
30. Ghafourian S, bin Sekawi Z, Sadeghifard N, Mohebi R, Neela VK, Maleki A, **Hematian A**, Rahbar M, Raftari M, Ranjbar R. The prevalence of ESBLs producing *Klebsiella pneumoniae* isolates in some major hospitals, Iran. *The open microbiology journal*. 2011;5:91.
31. Sadeghifard N, Ghafourian S, Sekawi ZB, Neela VK, **Hematian A**, Pakzad I, Galehdari EA, Mohebi R. Extended spectrum beta-lactamases among hospitalized patients in surgery wards, Ilam, Iran. *Journal of Microbial and Biochemical Technology*. 2011;3(1):18-20.
32. Mahdi A, Mohammad N, Morovat T, Mhammad-Mahdi F, Namam-Ali A, Setareh S, Mohammad E, Amir A, Abbas M, **Ali H**. Rapid identification of Iranian *Acinetobacter baumannii* strains by single PCR assay using BLA oxa-51-like carbapenemase and evaluation of the antimicrobial resistance profiles of the isolates. *Acta microbiologica et immunologica Hungarica*. 2010 Jun 1;57(2):87-94.
33. Ghafouryan S, Sadeghifard N, Neela V, Mariana NS, Mohebi R, Rahbar M, **Hematian A**, Bin Sekawi Z, Raftari M, Pakzad I. Occurrence of *Klebsiella oxytoca* producing extended-spectrum beta-lactamases in different seasons in Ilam Hospitals, Iran. *African Journal of Microbiology Research*. 2010 Nov 18;4(22):2381-7.
34. SADEGHIFARD NK, RANJBAR R, GHASEMI A, Pakzad I, ZAEIMI YJ, Zaheri A, **HEMATIAN A**, Ghafourian S. A study of antimicrobial resistance of *acinetobacter baumannii* and non-*acinetobacter baumannii* strains isolated from three hospitals in Tehran.

35. Mohebi R, Pakzad I, SADEGHIFARD NK, Maleki A, **HEMATIAN A**, GHAFOURIAN S. A study of antibiotic resistance pattern and plasmid profile of uropathogenic *Escherichia coli* isolated in Ilam (western Iran).
36. SADEGHIFARD NK, RANJBAR R, GHASEMI A, Pakzad I, ZAEIMI YJ, Zaheri A, **HEMATIAN A**, Ghafourian S. A STUDY OF ANTIMICROBIAL RESISTANCE OF *ACINETOBACTER BAUMANNII* AND NON-*ACINETOBACTER BAUMANNII* STRAINS ISOLATED FROM THREE HOSPITALS IN TEHRAN. JOURNAL OF ILAM UNIVERSITY OF MEDICAL SCIENCES. 2006 [cited 2021 November 10]; 14 (3): 29-34. Journal of Antimicrobial Chemotherapy. 2002;49(3):479-87.

B) Presentation in Congresses:

- 1- A. Hematian, S. Ghafourian, I. Pakzad; Unconceivable prevalence of Toxin-Antitoxin systems in *Acinetobacter baumannii* 17th International Congress of Microbiology 23-25 August 2016 - Tehran, Iran.
- 2- A. Hematian: Frequency investigation of HCV and HBV among addicted person through 2011-2012. 28-30 August 2013- Tehran-Iran

C) Book

۱. اصول و تفسیر آزمایش‌های کاربردی در مامایی: به همراه آزمایش‌های غربالگری سلامت جنین، آنالیز اسپرم و تشخیص جنسیت (قابل استفاده برای دانشجویان مامایی، پرستاری، بهداشت و ماماها‌ی شاغل در مطب و مراکز بهداشتی درمانی). مهناز شفیعیان، علی همتیان، صفورا طاهری. ۱۴۰۲. انتشارات ونوس. شابک: ۹۷۸۶۲۲۷۹۲۱۵۱۹

TEACHING EXPERIENCE

2012– Present Microbiology, Faculty of Medicine, Ilam University of Medical Sciences, Ilam, Iran. (for medical students, MSc Microbiology students, Dentist students and clinical laboratory student).

PROFESSIONAL EXPERIENCES

- Microbiological techniques: Culture of bacteria, clinical laboratory diagnostic, western blotting, ELISA
- Standard molecular biology techniques including: DNA and RNA extraction, PCR, Real Time PCR, RT-PCR Cloning, Expression, PFGE, MLST.
- Biochemistry techniques: PAGE, SDS-PAGE.

EMPLOYMENT HISTORY

2006- Present Ilam University of Medical Sciences, Medicine Faculty, Medical microbiology Department, Ilam, Iran

Occupation/Position

Academic and Research member