



Curriculum vitae:

Name: Hasan **Last name:** Hosainzadegan **Birth Date:** 24
/05/1967

Nationality: Iranian citizen (Azerbaijan State, Marand City)

Language: Spoken Turkish and Persian (fluent), English (Medium)

Marital Statuse: Married, 2 children

Address: Department of Basic Sciences, Maragheh Faculty of Medical Sciences, Maragheh, Iran (Assistant Prof. from 2004- 2012, Associate Prof. of Medical Bacteriology since 2012)

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Academic Training: M.A, 1989-1992 : Faculty of Science, Isfahan University.

M.Sc. Of Bacteriology: 1996-1998 , Faculty of Medical Sciences, Tarbiat Modarres University (TMU)

Ph.D of Bacteriology: 1999-2003 , Faculty of Medical Sciences, TMU

Courses Taught:

Virology, Medical Bacteriology, Food Microbiology, General Microbiology for medical and paramedical students and Immunology, Mycology and Parasitology for general Health students.

Research Activities and Professionals:

1-Synthesis of Pseudomonas aeruginosa CIP 1310 Polysaccharide –O conjugate with Tetanus toxoid and evaluation of Antibody titer in Rabbit.(1996-

1998 as my M.Sc thesis and published in Journal Of medical faculty of Modarres)

2-Comparative preparation and purification of LPS from Verotoxigenic strains of *E.coli*, and *Pseudomonas aeruginosa* CIP 1310 by different methods (Johnson et al:Can. J . Micro. 1976:22,29-34 ,Edward et al:Infection and Immunity,1994 ,vol 62,No 11 p:5048-54 and Hitchcock method:J .Of Bacteriology,1983,155:813-38) and comparison of LPS silver staining profiles by the Tsai and Frasch (Anal .Biochemistry,119:115-19,1982) and purity comparisons.

3-Bacteriophage detection assays in VTEC strains.

4-Lysogenization of *E.coli* DH5 α for producing high levels of verotoxin1 (presented in 6th congress of Microbiology at Iran).

5- Study of the effects of temperatures higher than 37° on verotoxin1 neutralization.

6- Purification of verotoxin1 as a section of my Ph.D thesis and cytotoxic study on vero and MCF-7 cells(published in Hakim and Daneshvar and other journals).

7- Partial purification of Gb3 for affinity purification of verotoxin1 by Folch extraction and Silica gel filtration and evaluation by TLC overlays.

8-Preparation of monophosphoryl lipidA from LPS of verotoxigenic *E.coli* .

9- I worked with routine bacteriology laboratory techniques, SDS-PAGE, PCR Affinity chromatography, cell culture, tumor induction with tumor lines in mouse, Genotypic and phenotypic screening methods of antibiotic resistance in hospital acquired infections including ESBL, MRSA and VRSA, LPS and protein purification and conjugation techniques. And have passed workshops of primer designing, Information Technology, Research methods, SPSS, Powerpoint, Excell, Ethic in research, Evidence based medicine, EPI software, Scientific writing, The art of presentation, course planning, Life skills, endnote,

Student evaluation, Internal evaluation, entrepreneurship, and scholarship, etc....

Publications:

1-Pakzad I, **Hosainzadegan H**, Abtahi H etal. Human Brucellosis in Iran: Incidence, Complication, Diagnosis, Treatment and Prevention. *Journal of Pure and Applied Microbiology*. 2013;7(2)

2-Adeli M, **Hosainzadegan H**, Pakzad I, Zabihi F, Alizadeh M, Karimi F. Preparation of silver nanoparticle containing starch foods and evaluation of antimicrobial activity. *Jundishapur J. Of Microbiology*.2013; 6(4): e5075.

3- **Hosainzadegan H** , Ramazanzadeh R, Hasany A. Cross-sectional study of extended spectrum beta-lactamase producing gram-negative bacilli from clinical cases in Khorramabad, *Iranian Journal Of Microbiology*, 2009, 1(3): 16 - 19

4- **Hosainzadegan H**, Sattari M, Zahir MH, Allame AA. Simultaneous effects of shaking and temperature on verotoxin1 phage induction from verotoxigenic *E.coli* strains. *Iran. J. Environ. Health. Sci. Eng.*, 2005, 3(1): 19-22.

5- **Hosainzadegan H**, Ezzet por B, Abdollah por F, Motamedy M, Rashidipor M. Study of Cytotoxic Activity of Olive and Green Tea Extracts on Breast Tumor Cell Line. *J Ardabil Univ Med Sci*. 2010; 10(4): 287-294. (Full text in Persian)

6- **Hosainzadegan H**, Sattari M, Allame AA, Zahir MH, Asgarian S. Study of cytotoxic effects of verotoxin1 and Monophosphoryl lipid A on MCF-7 cell culture. *Yafte-E*, 2003, 5(10):15-21 (In Persian)

7- Mohammdi M, **Hosainzadegan H**, Falahi Sh, Birjandi M, Azadpoor M, Movahedi F. Study of HIV & HCV coinfection in suspected patients referred to Khorramabad Shohadaye Ashayer hospital in 2007. *Yafteh*, 2008,11 (1) :55-63(In Persian)

8- **Hosainzadegan H**, Baharvand B, Mardani M, Ebrahimzadeh F, Gadiri MM. Study of Anti-Chlamydia pneumoniae IgG and IgM, and risk factors in

suspected cardiac ischemic, s referred to Shahid Madany angiography center, Khorramabad.. *Yafteh*; 2008,11 (2): 3-11.(In Persian).

9-Sattari M, Allame AA, Zahir MH, **Hosainzadegan H**. Comparative study of cytotoxic effects of verotoxin1 on Vero and MCF-7 cells. *Hakim*; 2003,8(2): 41-47.(In Persian).

10-Sattari M, Allame AA, Zahir MH, **Hosainzadegan H**. Affinity chromatography purification of verotoxin1 from verotoxigenic strains of *E.coli*(VTEC). *Daneshvar*; 2003; no.5: 31-36.(In Persian).

11- **Hosainzadegan H**, Ramazan Zadeh R, Hasany, A Cross-sectional study of extended spectrum beta-lactamase producing gram-negative bacilli from clinical cases in Khorramabad, *Iranian Journal of Microbiology*, 2009; 1(3): 16-20.

12-**Hosainzadegan H**, Menati Sh, Tarrahi MJ, Mohammadi F. Screening of Methicillin and Vancomycin resistant *S.aureus* in the nasal of hospital personnel. *Medical laboratory Journal*, 2008, 2(1): 26-32.(In Persian).

13-**Hosainzadegan H**, Hassani A, Azadpoor M, Soleimannejad S, Mohammadi F. Screening of extended spectrum beta lactamase producing gram negative bacilli isolated from clinical cases. *Medical laboratory Journal*, 2008, 1(2): 20-25.(In Persian).

14- Ali P, Masomi M, Rafiee E, Sabzi F, Rezaee M, **Hosainzadegan H**, Salehi M, Mozaffari P. Relationship between *Chlamydia pneumonia* and *Helicobacter pylori* with atherosclerosis. *Yafteh*, 2009, 10(2):3-11.(In Persian).

15-Mirhossaini H, Mohammdi M, Birjandi M, Moharreri A, Kamarehi B, Jafari A, **Hosainzadegan H**. Contamination of water reservoirs to legionella in Khorram Abad hospitals. *Yafteh*; 2008,11 (2): 27-33.(In Persian).

- 16- **Hosainzadegan H**, Tarrahi MJ, Asgharian S. Comparative evaluation of modified team member teaching method and lecture in microbiology course. *Strides in Development of Medical Education*, 2010, 7(2):161-163.
- 17- **Hosainzadegan H**, Mohammadi M, Pajohy N, Ebrahim Zade F. Study of lytic phage and alkaline phosphatase on treatment of burn infections caused by *E.coli* in Mouse. *Iranian journal of Medical Microbiology*, 2008, 2(1):37-45.
- 18- Sheikhian A, Zohair MH, **Hosainzadegan H**. Study of immunomodulating effects of shark cartilage in Human and mouse. *Yafteh*, 2007,8(2):39-45. (In Persian).
- 19- **Hosainzadegan H**, Delfan B. Evaluation of Antibiofilm Activity of Dentol. *Acta Medica Iranica*, 2009; 47(1): 35-40.
- 20- **Hosainzadegan H**, Menati S. The prevalence of methicillin and vancomycin resistant *S. aureus* nasal carriage in large teaching hospital personnel. *African Journal of Microbiology Research*, 2011, 5(22): 3716-3719.
- 21- **Hosainzadegan H**, Sattari M, Zahir m.H, Allame AA. Synergistic Effect of Verotoxin 1 with Monophosphoryl Lipid A on Induced Fibrosarcoma in Balb/c. *Medical Journal Tabriz University of Medical Sciences*. 2008,29(4):21-26.
- 22- **Hosainzadegan H**. Study of causes of emerging and reemerging diseases. *Health and Paramedical Journal*, 2006, 10 &11:30-33. (In Persian).
- 23- **Hosainzadegan H**, Golshan A, Lak S, Beiranvand A. Retrospective study of antibiograms of urinary infections of patients referring to Tamin Ejtemaee hospital of Khorram Abad, Iran. *Health and Paramedical Journal*, 2004,8 &9 :30-34. (In Persian).
- 24- Behzadian Nejad G, **Hosainzadegan H**, Moazzeny A M. Purification of *P.aeruginosa* LPS and conjugation of derived polysaccharide with Tetanus toxoid and evaluation of immunogenicity in mouse. *Modarres Medical Journal*, 1998, 2(1):13-17. (In Persian).
- 25- Pakzad I, Bahmani S, Ghafouryan S, **Hosainzadegan H**. Diagnosis of human brucellosis by PCR using 17/112 and 16srRNA genes compared with

- common serological tests. *Arak Medical University Journal (AMUJ)*. 2012, 14(6), Suppl 3): 31-39
- 26- Azizian M., Pakzad I., Arabi H., Nasrollahi A., **Hosainzadegan H.**, Azizi Jalilian F. etal. Prevalence of *dfr*, *int* and *sul* Genes in Cotrimoxazole Resistance *Klebsiella pneumoniae* Isolated from Two Hospitals of Iran. *Journal of pure and applied microbiology*, 2014, 8(4):2655-2658 .
- 27- Pakzad I, **Hosainzadegan H**, Ghafurian S, Hematian A, Imani Fooladi AA. Microbiological pattern and antibiotic susceptibility of isolates from bronchiectasis. *Journal of pure and applied microbiology*, 2012, 6(3):1127-1132.
- 28- Pakzad I, Bahmani S, Ghafouryan S, **Hosainzadegan H**. Diagnosis of human brucellosis by PCR using 17/112 and 16srRNA genes compared with common serological tests. *Arak Medical University Journal (AMUJ)* , 2012, 14(6, Suppl 3): 31-39.
- 29- Pakzad I, **Hosainzadegan H**, Abtahi H, Taherikalani M, Azizi Jalilian F, Sadeghifard N. Human brucellosis in iran: incidence, complication, diagnosis, treatment and prevention. *Journal of pure and applied microbiology*, 2013, 7(2): 1177-1188 .
- 30- Pakzad I, Sadeghifard N, Azizi Jalilian F, **Hosainzadegan H**, Ghafouryan S. E-test antibiotic susceptibility of *Staphylococcus aureus* strains isolated from hospital acquired infections of Imam Khomeini hospital, Ilam, Iran. *Prime Journal of Microbiology Research*, 2012, 2(1): 93-98.
- 31- Nasser Samadi, Iraj Pakzad, Alireza Monadi Sefidan, **Hasan HosainZadegan**, Asghar Tanomand. Study of aminoglycoside resistance genes in enterococci and salmonella strains, Isolated from Ilam and Milad hospital, final accepted in *Jundishapur J. Of Microbiology*.
- 32- Arabi H, Pakzad i, Nasrollahi A, **Hosainzadegan H**, Azizi Jalilian F, Taherikalani M, Samadi N , Monadi Sefidan A. Sulfonamide resistance genes (Sul) in ESBL and non-ESBL producing E. coli

isolated from Iranian hospitals. Final accepted in *Jundishapur J. Of Microbiology*.

Submitted articles:

1- **Hasan Hosainzadegan**, Hadis Arabi, Iraj Pakzad, Farid Azizi Jalilian, Morvat Taherikalani, Ahmad Nasser, Reza Azizian, Mohamad Reza Havasian, Jafar Panahi, Reza Pakzad, Asghar Tanomand, Alireza Monadi Sefidan, **The role of dihydropteroate synthase gene (*sul*) to cotrimoxazole resistance in *Salmonella enterica* isolated from Iran** . submitted to JMII.

Books:

1- **Hosainzadegan H.** Hospital Infections (with emphasize on laboratory screening and management and infection control), Iran , Qum Tazohor Publication, 2009.

2- **Verotoxin1 in pathogenesis of E.coli and tumor eradication in Balb/c.** Hosainzadegan H. Germany, Lambert Academic Publishing Center, 2012.