



OBJECTIVE

Name: Bita Bakhshi

Positions: 1- Professor of Medical Bacteriology

2- Director of International Campus of Tarbiat Modares University

Address: Department of Bacteriology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran.

Marital State : Married

Children: 1

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EDUCATIONS

- **Post-Doctoral Fellowship** 2009- 2010
R &D Department, Production complex, Pasteur Institute of Iran, Tehran, Iran.
Construction and Production of Recombinant Cholera Toxin B Subunit (rCTB) in order to Manufacture WC-CTB Vaccine Against Cholera
 - **Ph.D in Medical Bacteriology** 2003- 2008
Department of Bacteriology and Virology, Faculty of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran
Thesis title: Investigation of the genotyping pattern of clinical and environmental isolates of *Vibrio cholerae* serotype O1 and study of genetic structure of CTX and VPI clusters of them
 - **M.Sc. in Medical Microbiology** 2000-2003
Department of Bacteriology, Faculty of Public Health, Tehran University of Medical Sciences, Tehran, Iran
Thesis title: Comparison of culture and polymerase chain reaction in detection of *mycoplasma* in the synovial fluid of patients with arthritis.
 - **B.Sc. in Microbiology** 1994-1998
Faculty of Sciences, Alzahra University, Tehran, Iran
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LANGUAGE SKILLS

- 1992-1996: Graduated from Level 12 of Iran Language Institute (ILI) in English
- Senior Document in English Language from ILI
- English Skills: Excellent

RESEARCH PROJECTS FUNDED

- **Eastern Mediterranean Health Genomics and Biotechnology Network Grant (EMHGBN) (2008)**
Genotyping of the *Salmonella enterica* serotypes.
- **Iran National Science Foundation Grant Number: 8802358 (2009)**
Comparison of the Structure of O-Antigen Biosynthesis Genes among *Vibrio cholerae* O1 Ogawa and Inaba Serotypes Isolated from Patients in Iran During 2004-2008 and IS1004 Profiling of the Strains Using Southern Blot Hybridization Technique. Iran National Science Foundation.
- **Iran National Science Foundation Grant Number: 90007471 (2011)**
Executive of the research project entitled: Investigation of Immunological responses against recombinant cholera toxin B subunit produced in *Escherichia coli* and Whole cell-CTB as a candidate of vaccine against cholera disease in rabbit model, Iran National Science Foundation.
- **National Institute for Medical Research Development Grant Number: 942608 (2015)**
Design, fabrication and evaluation of a gold plasmonic nanobiosensor for *Campylobacter* spp. detection in children with bacterial gastroenteritis symptoms
- **Iran National Science Foundation Grant Number: 96000794 (2017)**
Investigation of genetic diversity of CTX phage genome integrated in *Vibrio cholerae* strains isolated from patients with cholera and investigation of dominant clones in Iran
- **Iran Nanotechnology Innovation Council Grant Number Grant (2018)**
Design a nanobiosensor for detection of *Mycobacterium tuberculosis* in the sputum samples
- **National Institute for Medical Research Development Grant Number: 989368 (2019)**
Design and evaluation of a nanobiosensor based on gold plasmonic resonance for detection of *Vibrio cholerae* in water and stool specimens

FULL ARTICLES PUBLISHED IN REFEREED JOURNALS

- 1. High prevalence of *Campylobacter jejuni* CC21 and CC257 clonal complexes in children with gastroenteritis in Tehran, Iran.**
Sarhangi, M., **Bakhshi, B.**, Peeraeyeh, S.N.
BMC Infectious Diseases, 2021, 21(1), 108
- 2. Clonal diversity and genomic characterization of Panton-valentine Leukocidin (PVL)-positive *Staphylococcus aureus* in Tehran, Iran.**
Najafi olya, Z., Najar-Peerayeh, S., Yadegar, A., **Bakhshi, B.**
BMC Infectious Diseases, 2021, 21(1), 372
- 3. Effects of strontium ions with potential antibacterial activity on in vivo bone regeneration.**
Baheiraei, N., Eyni, H., **Bakhshi, B.**, Najafloo, R., Rabiee, N.
Scientific Reports, 2021, 11(1), 8745
- 4. Prevalence of intestinal parasitic infections and *Campylobacter* spp. among children with gastrointestinal disorders in Tehran, Iran.**
Barati, M., Taghipour, A., **Bakhshi, B.**, Shams, S., Pirestani, M.
Parasite Epidemiology and Control, 2021, 13, e00207
- 5. Fabrication, tuning and performance analysis of polyacrylonitrile (PAN)-derived microfiltration membranes for bacteria removal from drinking water.**
Hosseini, S.S., Khodadadi, H., **Bakhshi, B.**
Korean Journal of Chemical Engineering, 2021, 38(1), pp. 32–45
- 6. The effect of subinhibitory concentration of chlorhexidine on the evolution of vancomycin-intermediate *Staphylococcus aureus* and the induction of mutations in *walKR* and *vraTSR* systems.**
Baseri, N., Najar-Peerayeh, S., **Bakhshi, B.**
Infection, Genetics and Evolution, 2021, 87, 104628
- 7. Hidden carbapenem resistance in the community-and hospital-associated OXA-48 gene-carrying uropathogenic *Escherichia coli*.**
Talebi, M., Najar-Peerayeh, S., **Bakhshi, B.**
Gene Reports, 2020, 21, 100897
- 8. In silico analysis of epitope-based CadF vaccine design against *Campylobacter jejuni*.**
Moballeghe Naseri, M., Shams, S., Moballeghe Naseri, M., **Bakhshi, B.**
BMC Research Notes, 2020, 13(1), 518
- 9. A genomic concept in cellular interaction of clinical *Campylobacter* spp. with human epithelial colorectal adenocarcinoma cells.**
Ohadi, E., **Bakhshi, B.**, Talebi, M., Irajian, G.
Infection, Genetics and Evolution, 2020 86, 104596

- 10. Modulatory effect of *Vibrio cholerae* toxin co-regulated pilus on mucins, toll-like receptors and NOD genes expression in co-culture model of Caco-2 and Peripheral Blood Mononuclear Cells (PBMC).**
Ghasemi M, **Bakhshi B**, Khashei R, Soudi S.
Microbial Pathogenesis. 2020 149: 104566
- 11. *Lactobacillus acidophilus* attenuates toxin production by *Vibrio cholerae* and shigella dysenteriae following intestinal epithelial cells infection.**
Alamdary SZ, **Bakhshi B**.
Microbial Pathogenesis. 2020 Oct 1:104543.
- 12. Global Sequence Analysis and Expression of Azurin Gene in Different Clinical Specimens of Burn Patients with *Pseudomonas aeruginosa* Infection.**
Barzelighi HM, **Bakhshi B**, Daraei B, Fazeli H, Esfahani BN.
Infection and Drug Resistance. 2020;13:2261.
- 13. Evaluation of the Antimicrobial and Antibiofilm Effect of Chitosan Nanoparticles as Carrier for Supernatant of Mesenchymal Stem Cells on Multidrug-Resistant *Vibrio cholerae*.**
Saberpour M, **Bakhshi B**, Najar-Peerayeh S.
Infection and Drug Resistance. 2020;13:2251.
- 14. Molecular characterization and diagnosis of nosocomial clostridium difficile infection in hospitalized patients.**
Majidpour A, Boustanshenas M, Koohi SR, **Bakhshi B**, Rahbar M, Kiani P, Dinyari A, Afshar M. Archives of Clinical Infectious Diseases. 2020;15(2).
- 15. Isolation and Kinetic Modeling of New Culture from Compost with High Capability of Degrading n-Hexadecane, Focused on *Ochrobactrum Oryzae* and *Paenibacillus Lautus*.**
Samaei MR, Jalili M, Abbasi F, Mortazavi SB, Jonidi Jafari A, **Bakhshi B**.
Soil and Sediment Contamination: An International Journal. 2020 May 18;29(4):384-96.
- 16. Graphene/CuO₂ Nanoshuttles with Controllable Release of Oxygen Nanobubbles Promoting Interruption of Bacterial Respiration.**
Jannesari M, Akhavan O, Madaah Hosseini HR, **Bakhshi B**.
ACS Applied Materials & Interfaces. 2020 Jul 15;12(32):35813-25.
- 17. The anti-adhesive and anti-invasive effects of recombinant azurin on the interaction between enteric pathogens (invasive/non-invasive) and Caco-2 cells.**
Bakhshi B, Barzelighi HM, Daraei B.
Microbial pathogenesis. 2020 Oct 1;147:104246.
- 18. A sensitive gold-nanorods-based nanobiosensor for specific detection of *Campylobacter jejuni* and *Campylobacter coli*.**
Shams S, **Bakhshi B**, Tohidi Moghadam T, Behmanesh M.
J Nanobiotechnology. 2019 Mar 26;17(1):43. doi: 10.1186/s12951-019-0476-0.

- 19. The roles of mesoporous silica and carbon nanoparticles in antigen stability and intensity of immune response against recombinant subunit B of cholera toxin in a rabbit animal model.**
Karimi Bavandpour A, **Bakhshi B**, Najar-Peerayeh S.
Int J Pharm. 2020 Jan 5;573:118868. doi: 10.1016/j.ijpharm.2019.118868. Epub 2019 Nov 22.
- 20. The anti-apoptotic and anti-inflammatory effect of Lactobacillus acidophilus on Shigella sonnei and Vibrio cholerae interaction with intestinal epithelial cells: A comparison between invasive and non-invasive bacteria.**
Alamdary SZ, **Bakhshi B**, Soudi S.
PLoS One. 2018 Jun 6;13(6):e0196941. doi: 10.1371/journal.pone.0196941. eCollection 2018.
- 21. Hospital clones of Panton-Valentine leukocidin positive and methicillin-resistant Staphylococcus aureus are circulating in the community of Tehran.**
Tajik S, Najar-Peerayeh S, **Bakhshi B**.
J Glob Antimicrob Resist. 2019 Dec 21. pii: S2213-7165(19)30324-8. doi: 10.1016/j.jgar.2019.12.010. [Epub ahead of print]
- 22. The roles of mesoporous silica and carbon nanoparticles in antigen stability and intensity of immune response against recombinant subunit B of cholera toxin in a rabbit animal model.**
Karimi Bavandpour A, **Bakhshi B**, Najar-Peerayeh S.
Int J Pharm. 2020 Jan 5;573:118868. doi: 10.1016/j.ijpharm.2019.118868. Epub 2019 Nov 22.
- 23. Molecular Characterization of Community-Associated Methicillin-Resistant Staphylococcus aureus in Iranian Burn Patients.**
Tajik S, Najar-Peerayeh S, **Bakhshi B**, Golmohammadi R.
Iran J Pathol. 2019 Fall;14(4):284-289. doi: 10.30699/ijp.2019.94189.1917. Epub 2019 Sep 22.
- 24. Antibacterial and antibiofilm activity of bone marrow-derived human mesenchymal stem cells secretome against Vibrio cholerae.**
Bahroudi M, **Bakhshi B**, Soudi S, Najar-Peerayeh S.
Microb Pathog. 2020 Feb;139:103867. doi: 10.1016/j.micpath.2019.103867. Epub 2019 Nov 9.
- 25. Whole cell FRET immunosensor based on graphene oxide and graphene dot for Campylobacter jejuni detection.**
Dehghani Z, Mohammadnejad J, Hosseini M, **Bakhshi B**, Rezayan AH.
Food Chem. 2020 Mar 30;309:125690. doi: 10.1016/j.foodchem.2019.125690. Epub 2019 Oct 31.
- 26. Electroactive cardiac patch containing reduced graphene oxide with potential antibacterial properties.**
Norahan MH, Pourmokhtari M, Saeb MR, **Bakhshi B**, Soufi Zomorrod M, Baheiraei N.
Mater Sci Eng C Mater Biol Appl. 2019 Nov;104:109921. doi: 10.1016/j.msec.2019.109921. Epub 2019 Jun 27.
- 27. Heterogeneity of Highly Susceptible Yersinia enterocolitica Isolates of Clinical and Environmental Origin: A 5-Year Survey from Iran (2011-2016).**

Kiani P, **Bakhshi B**, Soltan-Dallal MM, Najar-Peerayeh S.
Microb Drug Resist. 2020 Jan;26(1):46-53. doi: 10.1089/mdr.2018.0469. Epub 2019 Aug 16.

28. Influence of Heterologously Expressed azurin from *Pseudomonas aeruginosa* on the Adhesion and Invasion of Pathogenic Bacteria to the Caco-2 Cell Line.

Barzelighi HM, Esfahani BN, **Bakhshi B**, Daraei B, Moghim S, Fazeli H.
Probiotics Antimicrob Proteins. 2019 Jul 30. doi: 10.1007/s12602-019-09573-2. [Epub ahead of print]

29. Analysis of antibacterial and antibiofilm activity of purified recombinant Azurin from *Pseudomonas aeruginosa*.

Mohammadi-Barzelighi H, Nasr-Esfahani B, **Bakhshi B**, Daraei B, Moghim S, Fazeli H.
Iran J Microbiol. 2019 Apr;11(2):166-176.

30. Molecular typing of cytotoxin-producing *Klebsiella oxytoca* isolates by 16S-23S internal transcribed spacer PCR.

Soltan Dallal MM, Validi M, Douraghi M, **Bakhshi B**.
New Microbes New Infect. 2019 Apr 9;30:100545. doi: 10.1016/j.nmni.2019.100545.
eCollection 2019 Jul.

31. A sensitive gold-nanorods-based nanobiosensor for specific detection of *Campylobacter jejuni* and *Campylobacter coli*.

Shams S, **Bakhshi B**, Tohidi Moghadam T, Behmanesh M.
J Nanobiotechnology. 2019 Mar 26;17(1):43. doi: 10.1186/s12951-019-0476-0.

32. Pulsed-field gel electrophoresis fingerprinting of *Campylobacter jejuni* and *Campylobacter coli* strains isolated from clinical specimens, Iran.

Ghorbanalizadgan M, **Bakhshi B**, Shams S, Najar-Peerayeh S.
Int Microbiol. 2019 Sep;22(3):391-398. doi: 10.1007/s10123-019-00062-8. Epub 2019 Mar 14.

33. Genomic insights into the 2016-2017 cholera epidemic in Yemen.

Weill FX, Domman D, Njamkepo E, Almesbahi AA, Naji M, Nasher SS, Rakesh A, Assiri AM, Sharma NC, Kariuki S, Pourshafie MR, Rauzier J, Abubakar A, Carter JY, Wamala JF, Seguin C, Bouchier C, Malliavin T, **Bakhshi B**, Abulmaali HHN, Kumar D, Njoroge SM, Malik MR, Kiiru J, Luquero FJ, Azman AS, Ramamurthy T, Thomson NR, Quilici ML.
Nature. 2019 Jan;565(7738):230-233. doi: 10.1038/s41586-018-0818-3. Epub 2019 Jan 2.
Erratum in: Nature. 2019 Feb;566(7745):E14.

34. Versatile nano-platform for tailored immuno-magnetic carriers.

Bonaiuto E, Magro M, Fasolato L, Novelli E, Shams S, Piccirillo A, **Bakhshi B**, Moghadam TT, Baratella D, Vianello F.
Anal Bioanal Chem. 2018 Nov;410(29):7575-7589. doi: 10.1007/s00216-018-1382-2. Epub 2018 Sep 28.

35. Colorimetric aptasensor for *Campylobacter jejuni* cells by exploiting the peroxidase like activity of Au@Pd nanoparticles.

Dehghani Z, Hosseini M, Mohammadnejad J, **Bakhshi B**, Rezayan AH.
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- 36. The anti-apoptotic and anti-inflammatory effect of *Lactobacillus acidophilus* on *Shigella sonnei* and *Vibrio cholerae* interaction with intestinal epithelial cells: A comparison between invasive and non-invasive bacteria.**
Alamdary SZ, **Bakhshi B**, Soudi S.
PLoS One. 2018 Jun 6;13(6):e0196941. doi: 10.1371/journal.pone.0196941. eCollection 2018.
- 37. Cumulative protective efficacy of rZot and rAce combination in challenge experiments with wild type *Vibrio cholerae* in mouse model.**
Anvari S, Najar-Peerayeh S, Behmanesh M, **Bakhshi B**.
Hum Vaccin Immunother. 2018;14(9):2323-2328. doi: 10.1080/21645515.2018.1469593. Epub 2018 Jun 19.
- 38. Synthesis of Silica-coated Iron Oxide Nanoparticles: Preventing Aggregation without Using Additives or Seed Pretreatment.**
Sharafi Z, **Bakhshi B**, Javidi J, Adrangi S.
Iran J Pharm Res. 2018 Winter;17(1):386-395.
- 39. Enterobacterial repetitive intergenic consensus (ERIC)-PCR analysis as a reliable evidence for suspected *Shigella* spp. outbreaks.**
Bakhshi B, Afshari N, Fallah F.
Braz J Microbiol. 2018 Jul - Sep;49(3):529-533. doi: 10.1016/j.bjm.2017.01.014. Epub 2018 Feb 8.
- 40. Heterogeneity of Multidrug-Resistant *Salmonella enterica* Isolates with Increasing Frequency of Resistance to Ciprofloxacin During a 4-Year Period in Iran.**
Bakhshi B, Dehghan-Mouriaabadi A, Kiani P.
Microb Drug Resist. 2018 May;24(4):479-488. doi: 10.1089/mdr.2017.0135. Epub 2018 Jan 2.
- 41. Heterogeneity of cytolethal distending toxin sequence types of *Campylobacter jejuni* and correlation to invasion/cytotoxicity potential: The first molecular survey from Iran.**
Ghorbanalizadgan M, **Bakhshi B**, Najar-Peerayeh S.
Microb Pathog. 2018 Jan;114:213-218. doi: 10.1016/j.micpath.2017.11.035. Epub 2017 Nov 23.
- 42. Antimicrobial resistance, virulence genes and genetic relatedness of *Salmonella enterica* serotype Enteritidis isolates recovered from human gastroenteritis in Tehran, Iran.**
Fardsanei F, Soltan Dallal MM, Douraghi M, Memariani H, **Bakhshi B**, Zahraei Salehi T, Nikkhahi F.
J Glob Antimicrob Resist. 2018 Mar;12:220-226. doi: 10.1016/j.jgar.2017.10.005. Epub 2017 Oct 16.
- 43. The role of CTX and RS1 satellite phages genomic arrangement in *Vibrio cholera* toxin production in two recent cholera outbreaks (2012 and 2013) in IR Iran.**
Rezaie N, **Bakhshi B**, Najar-Peerayeh S.
Microb Pathog. 2017 Nov;112:89-94. doi: 10.1016/j.micpath.2017.09.032. Epub 2017 Sep 18.
- 44. Multi-locus sequence type analysis of *Shigellas* pp. isolates from Tehran, Iran.**

Shahsavan S, Nobakht M, Rastegar-Lari A, Owlia P, **Bakhshi B**.
Iran J Microbiol. 2016 Oct;8(5):298-306.

45. Distribution of resistance genetic determinants among *Vibrio cholerae* isolates of 2012 and 2013 outbreaks in IR Iran.

Rezaie N, **Bakhshi B**, Najar-Peerayeh S.
Microb Pathog. 2017 Mar;104:12-16. doi: 10.1016/j.micpath.2017.01.005. Epub 2017 Jan 3.

46. Investigation of Efflux-Mediated Tetracycline Resistance in *Shigella* Isolates Using the Inhibitor and Real Time Polymerase Chain Reaction Method.

Shahsavan S, Owlia P, Rastegar Lari A, **Bakhshi B**, Nobakht M.
Iran J Pathol. 2017 Winter;12(1):53-61. Epub 2017 Feb 5.

47. Multiple-Locus Variable Number Tandem Repeat Analysis of *Klebsiella pneumoniae*: Comparison with Pulsed-Field Gel Electrophoresis.

Derakhshan S, Najar-Peerayeh S, **Bakhshi B**.
Microb Drug Resist. 2017 Jul;23(5):626-632. doi: 10.1089/mdr.2016.0107. Epub 2016 Dec 13.

48. Multiple- locus variable-number tandem-repeat analysis (MLVA) of *Shigella sonnei* isolates of 2012 outbreak I. R. Iran.

Bakhshi B, Bayat B, Lari AR.
Microb Pathog. 2017 Jan;102:69-73. doi: 10.1016/j.micpath.2016.10.021. Epub 2016 Nov 30.

49. PFGE genotyping and molecular characterization of *Campylobacter* spp. isolated from chicken meat.

Bakhshi B, Kalantar M, Rastegar-Lari A, Fallah F.
Iran J Vet Res. 2016 Summer;17(3):177-183.

50. NRAMP1 gene polymorphisms and cutaneous leishmaniasis: An evaluation on host susceptibility and treatment outcome.

Fattahi-Dolatabadi M, Mousavi T, Mohammadi-Barzelighi H, Irian S, **Bakhshi B**,
Nilforoushzadeh MA, Shirani-Bidabadi L, Hariri MM, Ansari N, Akbari N.
J Vector Borne Dis. 2016 Jul-Sep;53(3):257-63.

51. Molecular characterization of *Salmonella enterica* serotype Enteritidis isolates from food and human samples by serotyping, antimicrobial resistance, plasmid profiling, (GTG)₅-PCR and ERIC-PCR.

Fardsanei F, Nikkhahi F, **Bakhshi B**, Salehi TZ, Tamai IA, Soltan Dallal MM.
New Microbes New Infect. 2016 Aug 4;14:24-30. doi: 10.1016/j.nmni.2016.07.016.
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52. Association Between Presence of Virulence Genes and Antibiotic Resistance in Clinical *Klebsiella Pneumoniae* Isolates.

Derakhshan S, Najar Peerayeh S, **Bakhshi B**.
Lab Med. 2016 Nov;47(4):306-311. Epub 2016 Aug 7.

53. ALS1 and ALS3 gene expression and biofilm formation in *Candida albicans* isolated from vulvovaginal candidiasis.

Roudbarmohammadi S, Roudbary M, **Bakhshi B**, Katirae F, Mohammadi R, Falahati M.
Adv Biomed Res. 2016 Jun 8;5:105. doi: 10.4103/2277-9175.183666. eCollection 2016.

54. The curli biogenesis genes expression level is unassociated with Enterobacter cloacae hsp60 clusters and PFGE genotypes.

Akbari M, **Bakhshi B**, Najar-Peerayeh S, Behmanesh M.
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55. Multi-locus variable number tandem repeat analysis of Vibrio cholerae isolates from 2012 to 2013 cholera outbreaks in Iran.

Ranjbar R, Sadeghy J, Shokri Moghadam M, **Bakhshi B**.
Microb Pathog. 2016 Aug;97:84-8. doi: 10.1016/j.micpath.2016.05.023. Epub 2016 May 28.

56. In Silico Analysis of the cadF Gene and Development of a Duplex Polymerase Chain Reaction for Species-Specific Identification of Campylobacter jejuni and Campylobacter coli.

Shams S, **Bakhshi B**, Tohidi Moghadam T.
Jundishapur J Microbiol. 2016 Feb 9;9(2):e29645. doi: 10.5812/jjm.29645. eCollection 2016 Feb.

57. The trend of enteropathogenic Escherichia coli towards atypical multidrug resistant genotypes.

Mahmoudi-Aznavah A, **Bakhshi B**, Najar-Peerayeh S.
J Chemother. 2017 Feb;29(1):1-7. doi: 10.1080/1120009X.2016.1154683. Epub 2016 Apr 11.

58. Molecular characterization of Vibrio cholerae isolates from Iran 2012 and 2013 outbreaks.

Bakhshi B.
Lett Appl Microbiol. 2016 Jun;62(6):466-71. doi: 10.1111/lam.12571.

59. Comparison of Biofilm Formation between Methicillin-Resistant and Methicillin-Susceptible Isolates of Staphylococcus aureus.

Ghasemian A, Najar Peerayeh S, **Bakhshi B**, Mirzaee M.
Iran Biomed J. 2016 Jul;20(3):175-81. Epub 2016 Mar 8.

60. PCR-RFLP Provides Discrimination for Total flaA Sequence Analysis in Clinical Campylobacter jejuni Isolates.

Ghorbanalizadgan M, **Bakhshi B**, Najar-Peerayeh S.
Jpn J Infect Dis. 2016 Sep 21;69(5):373-7. doi: 10.7883/yoken.JJID.2015.386. Epub 2016 Jan 8.

61. A luminescent hybridoma-based biosensor for rapid detection of V. cholerae upon induction of calcium signaling pathway.

Zamani P, Sajedi RH, Hosseinkhani S, Zeinoddini M, **Bakhshi B**.
Biosens Bioelectron. 2016 May 15;79:213-9. doi: 10.1016/j.bios.2015.12.018. Epub 2015 Dec 11.

- 62. Prevalence of the bla CTX-M-1 group and their transferability in resistant clinical isolates of Salmonella serogroups from several hospitals of Tehran.**
Salimian Rizzi K, Najar Peerayeh S, **Bakhshi B**, Rahbar M.
Iran J Microbiol. 2015 Aug;7(4):203-7.
- 63. Comparison of Antimicrobial Susceptibility of Campylobacter Strains Isolated from Food Samples and Patients with Diarrhea.**
Bakhshi B, Naseri A, Alebouyeh M.
Iran Biomed J. 2015 Nov 25. pii: Pii-IBJ-A-10-837-3. [Epub ahead of print]
- 64. Particular Distribution of Enterobacter cloacae Strains Isolated from Urinary Tract Infection within Clonal Complexes.**
Akbari M, **Bakhshi B**, Najar Peerayeh S.
Iran Biomed J. 2016;20(1):49-55. Epub 2015 Oct 25.
- 65. The Microbial Surface Components Recognizing Adhesive Matrix Molecules (MSCRAMMs) Genes among Clinical Isolates of Staphylococcus aureus from Hospitalized Children.**
Ghasemian A, Najar Peerayeh S, **Bakhshi B**, Mirzaee M.
Iran J Pathol. 2015 Fall;10(4):258-64.
- 66. Clonal dissemination of a single Shigella sonnei strain among Iranian children during Fall 2012 in Tehran, I.R. Iran.**
Alizadeh-Hesar M, **Bakhshi B**, Najar-Peerayeh S.
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- 67. Resistance-Gene Cassettes Associated With Salmonella enterica Genotypes.**
Bakhshi B, Ghafari M, Pourshafie MR, Zarbakhsh B, Katouli M, Rahbar M, Hajia M, Hosseini-Aliabad N, Boustanshenas M.
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- 68. Clonal Dissemination of a Single Vibrio cholerae O1 Biotype El Tor Strain in Sistan-Baluchestan Province of Iran During 2013.**
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- 69. Genotyping and characterization of CTX-M-15 -producing Klebsiella pneumoniae isolated from an Iranian hospital.**
Derakhshan S, Peerayeh SN, **Bakhshi B**.
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- 70. Assessing clonal correlation of epidemic Vibrio cholerae isolates during 2011 in 16 provinces of Iran.**
Hajia M, Rahbar M, Farzami MR, Asl HM, Dolatyar A, Imani M, Saburian R, Mafi M, **Bakhshi B**.
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- 71. Phylogenetic grouping and pathotypic comparison of urine and fecal Escherichia coli isolates from children with urinary tract infection.**
Navidinia M, Peerayeh SN, Fallah F, **Bakhshi B**, Sajadinia RS.
Braz J Microbiol. 2014 Aug 29;45(2):509-14. eCollection 2014.
- 72. Genetic elements associated with antimicrobial resistance among intestinal bacteria.**
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- 73. A triple fouling layers perspective on evaluation of membrane fouling under different scenarios of membrane bioreactor operation.**
Pourabdollah M, Torkian A, Hashemian SJ, **Bakhshi B**.
J Environ Health Sci Eng. 2014 Jun 6;12:91. doi: 10.1186/2052-336X-12-91. eCollection 2014.
- 74. Molecular characterization of enterohemorrhagic Escherichia coli isolates from cattle.**
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J Vet Med Sci. 2014 Sep;76(9):1195-9. Epub 2014 Jun 10.
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Ghorbanalizadgan M, **Bakhshi B**, Kazemnejad Lili A, Najari-Peerayeh S, Nikmanesh B.
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Bakhshi B, Boustanshenas M, Ghorbani M.
Iran Biomed J. 2014 Jul;18(3):130-5.
- 77. The hows and whys of constructing a native recombinant cholera vaccine.**
Boustanshenas M, **Bakhshi B**.
Bioengineered. 2014 Jan-Feb;5(1):53-5. doi: 10.4161/bioe.26420. Epub 2013 Sep 16.
- 78. Emergence of Vibrio cholerae O1 classical biotype in 2012 in Iran.**
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COURSES THOUGHT

1. PhD level, Bacterial Toxins
2. PhD level, Medical Bacteriology
3. PhD level, The Role of Bacteria in Medical Biotechnology
4. PhD level, Advanced Genetic of Bacteria
5. PhD level, Bioinformatics
6. PhD level, Advanced Bacteriology
7. PhD level, Molecular Epidemiology
8. MSc level, Molecular Cell Biology of Eukaryotes and Prokaryotes
9. MSc level, Host-parasite Interactions
10. MSc level, Structure and Physiology of Microorganisms
11. MSc level, Systematic Bacteriology
12. MSc level, Molecular Diagnostic Bacteriology
13. Molecular Epidemiology

THESIS, SUPERVISED OR ADVISED

1. Supervised, MSc.: 19 Thesis
2. Supervised, PhD: 10 Thesis
3. Advised, MSc.: 24 Thesis
4. Advised PhD: 12 Thesis

DEPOSITS IN GENE BANK

- Total Sequences Deposited in GenBank Database: 286

<https://www.ncbi.nlm.nih.gov/nucleotide/?term=bakhshi+b>

Laboratory Skills (Experts)

- 1. Bacterial Culture and Diagnostics**
- 2. DNA and RNA Extraction**
- 3. PCR and RT PCR**
- 4. Real-Time PCR**
- 5. Cell Culture techniques**
- 6. Cloning**
- 7. Gene Expression**
- 8. Probe design and synthesis**
- 9. Southern Blot Hybridization**
- 10. Western Blot Hybridization**
- 11. Genotyping Techniques**
- 12. Bioinformatics**
- 13. ELISA**
- 14. Immunological Techniques**