

CURRICULUM VITAE

(December 2009)

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Faculty position: Associate Professor in Microbiology

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ACADEMIC QUALIFICATION

1996: PhD. Graduated from the School of Biomedical Sciences at Murdoch University. Project title: "Genetic relationships, subspecific differentiation and molecular epidemiology of mycobacteria"

Positions Held

1996-1998: Assistant professor in Microbiology, Pasteur Institute of Iran

1998 : Member of National Committee for Eradication of Tuberculosis
Assistant Professor in Microbiology, Alzahra University, Faculty of Basic Sciences.

2000-2005: Director of University International Relations Office

Member of Research Council, Alzahra University

2004: Promoted as Associate Professor in Microbiology

2005: Associate Professor in Microbiology, Faculty of Medicine, Tehran University of Medical Science

2006: Member of Post-Graduate committee in the School of Medicine

Elected as Vice-President of Iranian Society for Microbiology

2007: Member of Editorial Board of Iranian Journal of Medical Microbiology
(Persian)

2008: President and editor of Iranian Journal of Microbiology (English)

TEACHING ACTIVITIES

Under graduate students: General Microbiology, Systematic Bacteriology,

Post graduate students: The Genetics of Prokaryotes, Genetic Engineering, Antibiotics and their mechanisms of resistance, Advanced Microbiology

Workshops

I have organized three workshops during 2007-2008 and these are as follows:

1-The first workshop on PFGE using the Iranian apparatus (3 days workshop in June 2007)

2-The first workshop for analysis of DNA fingerprints using Zhenegar software (June 2008)

3-Application of Bioinformatics in Microbiology (2 days workshop Mehr mah 1387)

Supervision of post graduate students:

I was the principle supervisor co-advisor of following post-graduate students who took their theses with me and got their degrees:

1. Mojgan Shahriari (MSc December 1998).

Shahriari did DNA finger printing using pTBN12 RNA probe on he Iranian strains of M. Tuberculosis. She is continuing her researches and finished her PhD at the Kolen University, Germany.

2-Mitra Safavi (MSc, October 2000).

Mitra Safavi applied RFLP to analyze multi drug resistant tuberculosis isolated from patients in southern suburbs of Tehran.

3-Atusa Aliahmadi (MSc, May 2002), Aliahmadi used Multilocus Enzyme Electrophoresis to analyze the population of Enterococcus sp. She is completing her PhD from Isfahan University.

4-Razieh Parastan (MSc , October 2003),

She used PCR techniques including RAPD and Rep-PCR for identification and typing of Enterococci.

5- Maryam Zohari (MSc , October 2003)

Her thesis title was "plasmid profiling on the High level aminoglycoside resistant strains of Enterococci isolated " from Patients in Tehran She works at Jahrom

University (School of Medicine).

6-Maryam Shayegh (MSc July 2004)

Mrs. Shayegh worked on penicillin binding protein of ampicillin resistant isolates of *E. faecium* by sequencing. She is working as assistant research at Queensland University in Australia.

7- Samaneh Dolatabadi (MSc, March 2005)

Her thesis title is: Isolation of *Campylobacter jejuni* from feces of patients with diarrhea in Tehran. She is now working in Neishaboor Azad University.

8-Sepideh Khatibi (MSc. 2005) Miss Khatibi's project has been focused on the genes involved in resistance to aminoglycosides (gentamicin, amikacin, tobramycin, netilmicin, kanamycin and streptomycin) using PCR.

9-Farah Farahani (MSc, finished in July 1999). Using multi locus enzyme electrophoresis F. Farahani analyzed Atypical mycobacteria including *M. fortuitum*, *M. kansasii* and *M. chelonae* cultured from patients in Tehran.

10-Ahmad Asgharzadeh (PhD, finished in 2001). He is head of research laboratory in Iranian soil and water research Institute.

11-Ramin Abiri (PhD, finished in March 2004). Ramin Abiri studied population genetics of *pseudomonas aeruginosa* isolated from burned patients. He is now Faculty member at Kermanshah University of Medical Science

12-Jalal Habibi (MSc finished in March 2004). Habibi studied the drug resistant patterns of *Streptococcus pneumoniae* and used PCR typing method targeting surface protein genes.

13-Akram Shahrabi Farahani, (MSc, completed in June 2004)

Miss Shahrabi was working on *Klebsiella pneumoniae* isolates recovered from patients in Tehran, their identification, drug susceptibility patterns and plasmid profiling.

14- Alimohammad Behroozikhah (PhD. finished in January 2005). Behroozikhah has optimized PCR techniques for differentiation of *Brucella* species. He is Head of Brucellosis Department at Razi Institute

15-Mohammad Mohammad Taheri. (MSc, March 2005) He used different

molecular marker including IS6110, DR and PGRS probes. He works at TB Department at Razi Institute

16-Narges Dargahi, (MSc. Finished in March 2005).

Dargahi found MICs and MBCs (minimal bactericidal concentration) of ampicillin, gentamicin and imipenem against low level gentamicin resistant isolates of *E. faecalis*.

17-Vajihesadat Nickbin. (MSc September 2005)

Nickbin used PFGE and plasmid profiling analysis to characterize the genetic relationships between isolates of *Pseudomonas aeruginosa* with different resistant patterns at two hospitals in Tehran. She works at Pasteur Institute

18-Marveh Rahmati (MSc). Marveh was working on *Klebsiella pneumoniae*.

Genetic analysis of ESBL (Extended Spectrum Beta Lactamase) strains was the main task of her thesis. She defended her thesis in September 2006

19-Leila Shokrzadeh (MSc). Shokrzadeh was looking for transposons in the genome of *Enterococcus faecalis*. She defended her thesis in September 2006

20-Shiveh Shabanpour (MSc). Shiveh used Ribotyping technique to analyze the population of *Klebsiella pneumoniae*. She defended her thesis in October 2006

21-Sara Sayadi (MSc). Sara will use ribotyping to analyze the population of *Enterococcus faecium*. She defended her thesis in October 2006. She is doing her PhD

22. Nader Mossavari (PhD Student). Nader has done lots of work on bovine tuberculosis and its causative agent "*Mycobacterium bovis*". Nader defended his thesis in December 2006. He is head of Tuberculin Department at Razi Research Institute for Vaccine and Serum.

23-Mohammad Taheri Kalani (Defended in May 2008) Mohammad Taheri has focused on *Acinetobacter* cultured from cases with nosocomial infections at Tehran Hospitals. He works as Faculty member at Ilam University of Medical Science.

24-Samira Mohammadi Yeganeh (Defended in February 2008). Samira's project involved in drug-susceptibility testing of *Klebsiella pneumoniae* isolated from NICU and children hospitals in Tehran. She is now a PhD student at Pasteur

Institute of Iran.

25-Mohammad Emaneini (Defended in May 2008) Mohammad worked on Methicillin resistant Staphylococcus aureus isolated from patients at Tehran Hospitals. He has been approved as Faculty member in our Department.

2. Somayeh Delfani (Msc Defended in September 2009) . Serotyping of Klebsiella pneumoniae isolated from patients at Tehran Hospitals by PCR

27-Parvin Heidarieh (PhD, Defended in October 2009). Thesis title “ non-tuberculous mycobacteria: isolation, identification, drugsusceptibility patterns, molecular identification.

Current post graduates students to whom I am principle supervisor:

28. Bijan Nemanpour (PhD). He is going to develop rapid techniques for detection of Bacterial pathogens involved in community acquired pneumoniae

29. Araz mazhnooni (MSc). He is developing real time-PCR for detection of acinetobacter and pseudomonas from patients with hospital acquired pneumoniae

30. Zahra Yasiliani (PhD) . MS Yasilini is trying to isolate Legionella from patients and environment using Bacteriology technique and detect the organism from the specimens by Real Time PCR. Subsequently she will analyze them by PFGE

31: Davood Darban (PhD). Mr. Darban is using Real-time PCR for detection of M. tuberculosis directly from Tuberculous patients. Same technology will be developed to detect resistant mutant to isoniazid and Rifampicin

32-Mitra ashayeri (Msc.). MS ashayeri is using PFGE to characterize the clinical isolates of Klebsiella pneumoniae isolated from patients at Labbafinejad.

PUBLICATION

Books:

1) Laboratory Standards for Diagnosis of Tuberculosis Volume 1 (Microscopy). 1998, Published by Center for Disease Control , Ministry of Health, Tehran, Iran

- 2) Laboratory Standards for Diagnosis of Tuberculosis Volume 2 (Culture). 1999, Published by Center for Disease Control , Ministry of Health, Tehran, Iran
- 3) Lecture Notes in Infectious Disease, 2003. Padisan publication, Tehran, Iran

Publications in International Journals

Shahcheraghi F, Badmasti F, **Feizabadi MM**. Molecular characterization of class 1 integrons in MDR *Pseudomonas aeruginosa* isolated from clinical settings in Iran, Tehran. *FEMS Immunol Med Microbiol*. 2009 Nov 24. [Epub ahead of print]

Feizabadi MM, Delfani S, Raji N, Majnooni A, Aligholi M, Shahcheraghi F, Parvin M, Yadegarinia D. Distribution of bla(TEM), bla(SHV), bla(CTX-M) Genes Among Clinical Isolates of *Klebsiella pneumoniae* at Labbafinejad Hospital, Tehran, Iran. *Microb Drug Resist*. 2009 Dec [Epub ahead of print]

Mirsalehian A, **Feizabadi M**, Nakhjavani FA, Jabalameli F, Goli H, Kalantari N. Detection of VEB-1, OXA-10 and PER-1 genotypes in extended-spectrum beta-lactamase-producing *Pseudomonas aeruginosa* strains isolated from burn patients. *Burns*. 2009 Jun 11. [Epub ahead of print]

Mahboubi M, **Feizabadi MM**. Antimicrobial Activity of *Ducrosia anethifolia* Essential Oil and Main Component, Decanal Against Methicillin-Resistant and Methicillin-Susceptible *Staphylococcus aureus*. *Jeobp* 12 (5) 2009 pp 574 - 579

Dabiri H, Maleknejad P, Yamaoka Y, **Feizabadi MM**, Jafari F, Rezadehbashi M, Nakhjavani FA, Mirsalehian A, Zali MR. Distribution of *Helicobacter pylori* cagA, cagE, oipA and vacA in different major ethnic groups in Tehran, Iran. *J Gastroenterol Hepatol*. 2009 Aug;24(8):1380-6.

Fatholahzadeh B, Emaneini M, Aligholi M, Gilbert G, Taherikalani M, Jonaidi N, Eslampour MA, **Feizabadi MM**. Molecular Characterization of Methicillin-Resistant *Staphylococcus aureus* Clones from a Teaching Hospital in Tehran. *Jpn J Infect Dis*. 2009 Jul;62(4):309-11.

Fatholahzadeh B, Emaneini M, **Feizabadi MM**, Sedaghat H, Aligholi M, Taherikalani M, Jabalameli F. Characterisation of genes encoding

- aminoglycoside-modifying enzymes among methicillin-resistant *Staphylococcus aureus* isolated from two hospitals in Tehran, Iran. *Int J Antimicrob Agents*. 2009 Mar;33(3):264-5. Epub 2008 Dec 11.
- Shahcheraghi F, Nikbin VS, **Feizabadi MM**. Prevalence of ESBLs Genes Among Multidrug-Resistant Isolates of *Pseudomonas aeruginosa* Isolated from Patients in Tehran. *Microb Drug Resist*. 2009 Mar;15(1):37-9.
- Feizabadi MM**, Shahrabai- Farahani A, Rahmati M, Asadi S. (2008) Phenotypic characterization and plasmid analysis of *Klebsiella pneumoniae* strains from Iranian patients. *R. Ci. méd. biol., Salvador, v.7, n.3, p. 273-279, set./dez. 2008*
- Hekmatdoost A, **Feizabadi MM**, Djazayeri A, Mirshafiey A, Eshraghian MR, Yeganeh SM, Sedaghat R, Jacobson K. The effect of dietary oils on cecal microflora in experimental colitis in mice. *Indian J Gastroenterol*. 2008 Sep-Oct;27(5):186-9.
- Feizabadi MM**, Shokrzadeh L, Sayady S, Asadi S. (2008). Transposon Tn5281 is the main distributor of the aminoglycoside modifying enzyme gene among isolates of *Enterococcus faecalis* in Tehran hospitals. *Can J Microbiol*. 54(10):887-890.
- Fathollahzadeh B, Emaneini M, Gilbert G, Udo E, Aligholi M, Modarressi MH, Nouri K, Sedaghat H, **Feizabadi MM**. (2008) Staphylococcal Cassette Chromosome mec (SCCmec) Analysis and Antimicrobial Susceptibility Patterns of Methicillin-Resistant *Staphylococcus aureus* (MRSA) Isolates in Tehran, Iran. *Microb Drug Resist* 14(3):217-20
- Feizabadi MM**, Fathollahzadeh B, Taherikalani M, Rasoolinejad M, Sadeghifard N, Aligholi M, Soroush S, Mohamadi-Yeganeh S. (2008). Antimicrobial susceptibility patterns and distribution of *bla_{OXA}* genes among *Acinetobacter* spp. isolated from patients at Tehran Hospitals. *J. J. Infect. Dis* 61: 274-278
- Mahboubi M, **Feizabadi MM**, Safara M. (2008) Antifungal activity of essential oils from *Zataria multiflora*, *Rosmarinus officinalis*, *Lavandula stoechas*, *Artemisia sieberi* Besser and *Pelargonium graveolens* against clinical isolates of *Candida albicans*. *Pharmacognosy Magazine* 4 (12), S15-S18.

- Mahboubi M , **Feizabadi MM**. (2008). Antifungal activity of essential oil from *Oliveria decumbens* Vent and its synergy with amphotricin B. International Journal of Essential Oil Therapeutics2, 26-28.
- Omid Madadgar, Hassan Tadjbakhsh, Taghi Zahraei Salehi, Mouhammad Mahzounieh, Mehdi Feizabadi (2008). Evaluation of random amplified polymorphic DNA analysis and antibiotic susceptibility application in discrimination of salmonella typhimurium isolates in Iran. New Microbiologica, . 31, 211-216.
- Morrovat Taherikalani, Gelavizh Etemadi, Keramat N. Geliani, Bahram Fatollahzadeh, Setareh Soroush, Mohammad M. Feizabadi.(2008). Emergence of multi and pan-drug resistance Acinetobacter baumannii carrying blaOXA-type-carbapenemase genes among burn patients in Tehran, Iran. Saudi Medical Journal. 29 (4) 623-624.
- Mahboubi M, Mohammady-Yeganeh S, Bokae S, Dehdashti H, and **Feizabadi MM**. Antimicrobial activity of essential oil from *Oliveria decumbens* and its synergy with vancomycin against *Staphylococcus aureus*. Herba Plonica. 2007. 53:69-77.
- Shahcheraghi F, Moezi H, **Feizabadi MM**. Distribution of TEM and SHV Beta lactamase genes among Klebsiella pneumoniae strains isolated from patients in Tehran. Med Sci Monit. 2007 Nov;13(11):BR247-250.
- Nikbin VS, Abdi-Ali A, **Feizabadi MM**, Gharavi S. Pulsed field gel electrophoresis & plasmid profile of Pseudomonas aeruginosa at two hospitals in Tehran, Iran. Indian J Med Res. 2007 Aug;126(2):146-51.
- Feizabadi MM**, Dolatabadi S, Zali MR. Isolation and drug-resistant patterns of Campylobacter strains cultured from diarrheic children in Tehran. Jpn J Infect. 2007 Jul;60(4):217-9.
- Feizabadi MM**, Maleknejad P, Asgharzadeh A, Asadi S, Shokrzadeh L, Sayadi S. (2006) Prevalence of Aminoglycoside-Modifying Enzymes Genes Among Isolates of Enterococcus faecalis and Enterococcus faecium in Iran. Microb Drug Resist. 12(4):265-8.

- Mosavari N, Jamshidian M, **Feizabadi MM**, Mohammad Taheri, M, Arefpajoochi R, Tadayon K. DNA fingerprinting of *Mycobacterium tuberculosis* complex isolated from cattle and a buffalo in Western Azarbaijan, Iran. Arch Razi Inst. (2007). 62: (2) 75-82.
- Feizabadi MM**, Etemadi G, Rahmati M , Mohammadi-Yeganeh S, Shabanpoor S, Asadi S. Antibiotic Resistance Patterns and Genetic Analysis of Klebsiella Pneumoniae Isolates from the Respiratory Tract Tanaffos (2007) 6(3), 20-25
- Feizabadi MM**, Etemadi G, Yadegari D, Rahmati M, Shabanpoor S, Bokaei S (2006). Antibiotic-resistance patterns and frequency of extended-spectrum beta-lactamase-producing isolates of Klebsiella pneumoniae in Tehran. Med Sci Monit. 2006 Oct 27;12(11):BR362-365.
- Behroozikhah, AM., Keyvanfar,H., Feizabadi, MM., Tabatabaei, AM., and Alamian, S (2005).Differentiation of Iranian strains of *Brucella spp.* by Random Amplification of Polymorphic DNA (RAPD-PCR). Arch Razi Inst.59: 11-23.
- Abiri R, Badami N, Shahcheraghi F, **Feizabadi MM**, Hosseini M (2004). Determination of resistance profile and serotypes of pseudomonas aeruginosa isolated from burn infections. Journal of Isfahan. No 73. 1-4 . Medical School
- Feizabadi MM**, Asadi S, Zohari M, Gharavi S and Etemadi G (2004). Genetic characterization of high-level gentamicin-resistant strains of *Enterococcus faecalis* in Iran. Can J Microbiol.. 50: 869-872
- Feizabadi MM**, Asadi S, Aliahmadi A, Parvin M, and Parastan R (2004). Drug resistant Patterns of Enterococci recovered from Patients in Tehran during 2000-2003. Int J. Antimicrob Agents. 24: 521-523.
- Farnia P, Masjedi MR, Mohammadi F, Nasehi M, Foroozesh M, Salek S, Kaviani M, Abbasi M, Abbasi M, Bahrmand MR, Ghazisaidi K, **Feizabadi M**, Zia Zarif A, Bahadori M, Velayati AA (2003). The results of three years surveillance on sputum smear microscopy in 285 district and regional tuberculosis laboratories of Iran. Tanaffos 2: 29-36.
- Oskoui M, **Feizabadi M.M** and Amirkhani A. (2003). Drug susceptibility of Streptococcus pneumoniae strains isolated in Tehran, Iran. Archives of Iranian

Medicine 6:192-195.

Shahcheraghi F, **Feizabadi MM**, Yamin V, Abiri R, Abedian Z. (2003). Serovar determination, drug resistance patterns and plasmid profiles of *Pseudomonas aeruginosa* isolated from burn patients at two hospitals of Tehran (IRAN). *Burns* 29(6):547-51.

Feizabadi MM, Aliahmadi A, Mobasheri F, Asgharzadeh A, Asadi S, Etemadi G (2003). Phenotypic characteristics and population genetics of *Enterococcus faecalis*

cultured from patients in Tehran during 2000-2001. *Can J Microbiol* 49(10):645-9.

Feizabadi M.M, M. Shahriari, M. Safavi, S. Gharavi, and M. Hamid (2003). Multidrug-resistant strains of *Mycobacterium tuberculosis* isolated from patients in Tehran belong to a genetically distinct cluster. *Scandinavian Journal of Infectious Disease* 35: 47-41.

S. Simani, P. Malek-Nejad, A. Amirkhani, **Feizabadi M.M**, E. Elahi, and A. Fayaz. (2000). Comparison of three serological tests for titration of rabies in immunized individuals. *Archives of Iranian Medicine* 2:54.

Bahrmand, A.A. Velayati, **Feizabadi M.M**, A. Sanami, M.R. Babaei, V.V. Bakayev (1998). Rapid Detection of Resistance to Rifampin in *Mycobacterium tuberculosis* by Single Strand Conformation Polymorphism *Archives of Iranian Medicine* 1.

Ahmad R. Bahrmand, Mehrdad H. Babaei, Nader Shahrokhi, **Feizabadi M.M** and Valery V. Bakayev (1998). Species specific DNA profiling mycobacterial genomes using polymerase chain reaction with single universal primer (UP-PCR). *Iranian Biomedical Journal* 2:1-8.

Feizabadi, M. M., Robertson I. D., Cousins. D. V., Hope A., Hampson. D. J. (1997). Differentiation of Australian isolates of *Mycobacterium paratuberculosis* by pulsed-field gel electrophoresis. *Australian Veterinary Journal* 75:887-889.

Feizabadi, M. M., Robertson I. D., Cousins. D. V., Edwards R., Hampson. D. J. (1997). Genetic differentiation of Australian isolates of *Mycobacterium tuberculosis* by pulsed field gel electrophoresis *Journal of Medical Microbiology*

46:501-505.

Feizabadi, M. M., I. D. Robertson, D. V. Cousins, D. J. Dawson, and D. J. Hampson (1997). use of multilocus enzyme electrophoresis to examine genetic relationships amongst isolates of *Mycobacterium intracellulare* and related species. *Microbiology* 143: 1461-1469.

Feizabadi, M. M., I. D. Robertson, D. V. Cousins, and D. J. Hampson (1996). Genomic analysis of *Mycobacterium bovis* and other members of the *Mycobacterium tuberculosis* complex by isoenzyme analysis and pulsed field gel electrophoresis. *Journal of Clinical Microbiology*. 134: 1136-1142.

Feizabadi, M. M., I. D. Robertson, D. V. Cousins, D. J. Dawson, W. Chew, L. G. Gilbert, and D. J. Hampson (1996). Genetic Characterization of *Mycobacterium avium* isolated from humans and animals. *Epidemiology and Infection*. 116:41-49

NUCELOTIDE SEQUENCES IN GGENE BANK:

Sequencing of protein binding protein 5 (pbp5) of *Enterococcus faecium*

Accession numbers AY968693 to AY968699 and AY626970 to AY626976 .

The following accession numbers have also acquired from gene Bank for 16SrDNA of Non-tuberculous *Mycobacteria*:

GU142932, GU121551, GU121552, GU142917, GU142918, GU142919,
GU142931

PUBLISHED PAPERS IN PERSIAN

Feizabadi MM, Asadi S, Shokrzadeh L, Sayadi S (2007). Evaluation of synergistic effect of gentamicin and ampicillin against Iranian strains of *Enterococcus faecalis*.
Pajoohandeh 11 (5):331-334.

Ramezani A, Mohraz M, **Feizabadi MM,** Asgharzadeh A, Parastan R, Aliahmadi A, Velayati AA (2005). Molecular epidemiology of *Enterococcus faecium* in Tehran Hospitals (In Persian). *Iranian Journal of Infectious Disease and Tropical Medicine*. **10**: 5-12

- Abdi-ali A, Nikbin V, **Feizabadi MM**, Gharavi S, and Fallahi Z (2005). Study of plasmid profiles and antibiotic resistance in Clinical isolates of *Pseudomonas aeruginosa* (In Persian). *Iranian J. Biol.* 18:141-149
- Etemadi G, Sadeghian S, Asadi S, Amirkhani A, Shahrabi Farahani A, Rahmati M and **Feizabadi MM**. (2005). Drug resistance patterns and prevalence of extended spectrum betalactamase (ESBL) producers among isolates of *Klebsiella pneumoniae* cultured from patients at Tehran Hospitals during 2003-2004. *J. Faculty. Med.* 63 (7):543-550
- Feizabadi MM, Asadi S, Khatibi S, Etemadi G, Parvin M, and Oskoui M (2004). Assesment of drug resistant pattern species about *Enterococcus faecalis* and *Enterococcus faecium* of two hospitals in Tehran (In Persian). *Pajoohandeh.* 9: 333-340
- Feizabadi MM**, Dolatabai S, Salmnzadeh S, Zali MR and Ardalan S. (2004). Isolation, identification and drug susceptibility patterns of *Campylobacter* strains cultured from children with diarrhea at two Children Hospitals in Tehran during October 2003-October 2004. *Pajoohesh Darpezeshli* **29** (3): 219-224
- Feizabadi M.M**, Atusa Aliahamadi, Razieh Parastan, Ametis Ramezani, Soror Asadi and Shirin Afhami (2002). Identification and phenotype characterization of *Enterococcus faecium* strains isolated from patients at two hospitals in Tehran (In Persian). *Iranian Journal of Infectious Disease and Tropical Medicine* **18**: 1-6
- Feizabadi M.M**, Atusa Aliahamadi, Fatemeh Mobasheri, Monoo Mohraz, and Ametis Ramezani (2002). Identification and drug susceptibility patterns of *Enterococcal* strains isolated from patients at Hospitals in Tehran. *Iranian Journal of Infectious Disease and Tropical Medicine* **16**: 8-13