CURRICULUM VITAE

# PERSONAL DETAILS

Name: Mohammad Saeid Hejazi

Date of Birth: 21-March-1966

Nationality: Iranian

Sex: Male

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Department of Pharmaceutical Biotechnology,

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# EDUCATION AND QUALIFICATION

1999-2002 PhD in Molecular Medicine from King’s College London, with a thesis entitled “Cytoplasmic Fusagene Vectors” under the supervision of Prof. Farzin Farzaneh and Dr Joop Gäken.

1998-1999 MSc in Immunology from King’s College London. Conducted research and presented a thesis entitled “Development of Tumour Cell Vaccination for Acute Myeloid Leukaemia (a murine model)” in AML immunogene therapy field under the supervision of Prof. Farzin Farzaneh.

1984-1990: Pharm.D; Doctorate of pharmacy from Faculty of Pharmacy at Tabriz University of Medical Sciences. Conducted research and presented a thesis entitled “Formulation of nalidixic acid suspension” under the supervision of Prof. Barzegar Jalali.

# EMPLOYMENTS

1990-present:

Full-time junior lecturer at Faculty of Pharmacy, Tabriz University of Medical Sciences. Awarded a scholarship in order to study PhD from 1999-2002.

Full-time assistant-professor at Pharmaceutical Biotechnology Department, Faculty of Pharmacy, Tabriz University of Medical Sciences, 2003-2008.

Full-time associate-professor at Pharmaceutical Biotechnology Department, Faculty of Pharmacy, Tabriz University of Medical Sciences, 2008-2012.

Full-time professor at Pharmaceutical Biotechnology Department, Faculty of Pharmacy, Tabriz University of Medical Sciences, February 2012- present.

Head and professor of Molecular Medicine Department, School of Advanced Biomedical Sciences, Tabriz University of Medical Sciences.

Affiliated professor at Medical Biotechnology Department, School of Advanced Biomedical Sciences, Tabriz University of Medical Sciences.

Affiliated professor at Medical Nanotechnology Department, School of Advanced Biomedical Sciences, Tabriz University of Medical Sciences

**ESTABLISHMENTS**

Department of Pharmaceutical Biotechnology in Faculty of Pharmacy, Tabriz University of Medical Sciences. 2003.

Department of Molecular Medicine in Faculty of Advanced Biomedical Sciences, Tabriz University of Medical Sciences. 2008.

Cell Culture laboratory in Faculty of Pharmacy, Tabriz University of Medical Sciences. 2004.

Pharmaceutical Biotechnology laboratory in Faculty of Pharmacy, Tabriz University of Medical Sciences. 2004

Molecular Biology laboratory in Drug Applied Research Center, Tabriz University of Medical Sciences. 2003.

Molecular Medicine PhD course in Faculty of Advanced Biomedical Sciences, Tabriz University of Medical Sciences. 2007.

Pharmaceutical Biotechnology PhD course in Faculty of Pharmacy, Tabriz University of Medical Sciences. 2009.

Collaboration in nationwide establishment of Pharmaceutical Nanotechnology PhD course (in Iran).

Collaboration in establishment of Pharmaceutical Biomaterials PhD course in Faculty of Pharmacy, Tabriz University of Medical Sciences.

Collaboration in establishment of Medical Biotechnology PhD course in Faculty of Advanced Biomedical Sciences, Tabriz University of Medical Sciences.

# CURRENT POSITIONS

# Head of Pharmaceutical Biotechnology Department at Faculty of Pharmacy, Tabriz University of Medical Sciences, 2004-2018.

# Head of Molecular Medicine Department at Faculty of Advanced Biomedical Sciences, Tabriz University of Medical Sciences, 2011-present.

# Member of Medical Biotechnology and Molecular Medicine national board, 2007-2104.

# Member of Pharmaceutical Biotechnology national board, 2010-present.

# Dean of Molecular Medicine Research Center, Tabriz University of Medical Sciences, 2016-present.

# TEACHING EXPERIANCE

Biological Products,

Physico-chemical Control of Pharmaceutical Products.

Cell Culture,

Molecular Biology,

Genetic Engineering and Biotechnology,

Biological Products.

# BACTERIAL SPECIES DISCOVERY

# Discovery of a novel bacterial species called *Rhodobacter thermarum.* The corresponding article is accepted for publication in Antonie Van Leeuwenhoek, International Journal of General and Molecular Microbiology as “*Rhodobacter thermarum* sp. nov., a novel phototrophic bacterium isolated from sediment of a hot spring".

# Discovery of a novel bacterial species called *Anoxybacillus sediminis*. The corresponding article is published in Antonie Van Leeuwenhoek, International Journal of General and Molecular Microbiology as “*Anoxybacillus sediminis* sp. nov., a novel moderately thermophilic bacterium isolated from a hot spring”.

## Discovery of a novel bacterial species called *Halomonas tabrizica*. The corresponding article is published in Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology as “*Halomonas tabrizica* sp. nov., a novel moderately halophilic bacterium isolated from Urmia Lake in Iran”.

# Discovery of a novel bacterial genus called *Tabrizicola* *aquatica*. The corresponding article is published in Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology as “*Tabrizicola aquatica* gen. nov. sp. nov., a novel alphaproteobacterium isolated from Qurugöl Lake nearby Tabriz city, Iran”.

# Discovery of a novel bacterial species called *Alishewanella tabrizica*. The corresponding article is published in International Journal of Systematic and Evolutionary Microbiology as “*Alishewanella tabrizica* sp. nov., isolated from Qurugöl Lake in mountainous region of Azerbaijan at northwest of Iran”.

# PUBLICATIONS

**Books:**

Hejazi MA, Mehdizade Aghdam E, Arami S, Mahmoudzadeh Hosseini H, **Hejazi MS**. **Probiotics principles and applications in food, pharmaceutics and medicine**. 2014, Sotodeh, Tabriz. ISBN : 978-600-325-036-9.

**Hejazi MS**. **Biological products in prevention, diagnosis and treatment of diseases**. 1999, Nashre Tabib, Tehran. ISBN: 964-456-129-5.

**Articles:**

93. Yazdani, P., et al., Layered double hydroxide nanoparticles as an appealing nanoparticle in gene/plasmid and drug delivery system in C2C12 myoblast cells. Artificial Cells, Nanomedicine and Biotechnology, 2019. 47(1): p. 436- 442.10.1080/21691401.2018.1559182

92. Tarhriz, V., et al., Emended description of the genus Tabrizicola and the species Tabrizicola aquatica as aerobic anoxygenic phototrophic bacteria. Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology, 2019.10.1007/s10482-019-01249-9

91. Soozangar, N., et al., Decreased expression of the Keap1 gene and its clinicopathological significance in gastric cancer: Correlation with promoter DNA methylation. Gazzetta Medica Italiana Archivio per le Scienze Mediche, 2019. 178(5): p. 292-300.10.23736/S0393-3660.18.03799-3

90. Montazersaheb, S., et al., Downregulation of TdT expression through splicing modulation by antisense peptide nucleic acid (PNA). Current Pharmaceutical Biotechnology, 2019. 20(2): p. 168-178.10.2174/1389201020666190206202650

89. Khan, I.U., et al., Rhodobacter thermarum sp. nov., a novel phototrophic bacterium isolated from sediment of a hot spring. Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology, 2019. 112(6): p. 867-875.10.1007/s10482-018-01219-7

88. Kahroba, H., M.S. Hejazi, and N. Samadi, Exosomes: from carcinogenesis and metastasis to diagnosis and treatment of gastric cancer. Cellular and Molecular Life Sciences, 2019. 76(9): p. 1747-1758.10.1007/s00018-019-03035-2

87. Eyvazi, S., et al., CDK9 as an appealing target for therapeutic interventions. Current Drug Targets, 2019. 20(4): p. 453- 464.10.2174/1389450119666181026152221

86. Vahed, S.Z., et al., Halomonas tabrizica sp. nov., a novel moderately halophilic bacterium isolated from Urmia Lake in Iran. Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology, 2018. 111(7): p. 1139-1148.10.1007/s10482-018-1018-8

85. Tarhriz, V., et al., CDK9 Regulates Apoptosis of Myoblast Cells by Modulation of microRNA-1 Expression. Journal of Cellular Biochemistry, 2018. 119(1): p. 547-554.10.1002/jcb.26213

84. Montazersaheb, S., M.S. Hejazi, and H.N. Charoudeh, Potential of peptide nucleic acids in future therapeutic applications. Advanced Pharmaceutical Bulletin, 2018. 8(4): p. 551-563.10.15171/apb.2018.064

83. Khan, I.U., et al., Anoxybacillus sediminis sp. nov., a novel moderately thermophilic bacterium isolated from a hot spring. Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology, 2018. 111(12): p. 2275-2282.10.1007/s10482-018-1118-5

82. Golabi, F., et al., Development of a new sequential block finding strategy for detection of conserved sequences in riboswitches. BioImpacts, 2018. 8(1): p. 13- 22.10.15171/bi.2018.03

81. Zaheri Abdehvand, A., et al., Removal of U(VI) from aqueous solutions using Shewanella sp. RCRI7, isolated from Qurugöl Lake in Iran. Radiochimica Acta, 2017. 105(2): p. 109-120.10.1515/ract-2016-2628

80. Soofiyani, S.R., et al., siRNA-mediated silencing of CIP2A enhances docetaxel activity against PC-3 prostate cancer cells. Advanced Pharmaceutical Bulletin, 2017. 7(4): p. 637-643.10.15171/apb.2017.076

79. Soofiyani, S.R., M.S. Hejazi, and B. Baradaran, The role of CIP2A in cancer: A review and update. Biomedicine and Pharmacotherapy, 2017. 96: p. 626- 633.10.1016/j.biopha.2017.08.146

78. Molavi, O., et al., Silibinin sensitizes chemo-resistant breast cancer cells to chemotherapy. Pharmaceutical Biology, 2017. 55(1): p. 729- 739.10.1080/13880209.2016.1270972

77. Mehdizadeh Aghdam, E., et al., TPP riboswitch characterization in Alishewanella tabrizica and Alishewanella aestuarii and comparison with other TPP riboswitches. Microbiological Research, 2017. 195: p. 71- 80.10.1016/j.micres.2016.11.003

76. Hamidi, M., et al., Halorubrum Sp. TBZ112, an extremely halophilic carotenoid- producing archaeon isolated from Urmia Lake. Pharmaceutical Sciences, 2017. 23(2): p. 150-158.10.15171/PS.2017.22

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74. Arami, S., et al., Multifunctional superparamagnetic nanoparticles: From synthesis to siRNA delivery. Current Pharmaceutical Design, 2017. 23(16): p. 2400-2409.10.2174/1381612822666161031153159

73. Mehdizadeh Aghdam, E., M.S. Hejazi, and A. Barzegar, Riboswitches: From living biosensors to novel targets of antibiotics. Gene, 2016. 591(2): p. 244- 259.10.1016/j.gene.2016.07.035

72. Hajihosseini, S., et al., A sensitive DNA biosensor fabricated from gold nanoparticles and graphene oxide on a glassy carbon electrode. Materials Science and Engineering C, 2016. 61: p. 506-515.10.1016/j.msec.2015.12.091

71. Hajihosseini, S., et al., An electrochemical DNA biosensor based on Oracet Blue as a label for detection of Helicobacter pylori. International Journal of Biological Macromolecules, 2016. 91: p. 911-917.10.1016/j.ijbiomac.2016.04.009

70. Haghshenas, B., et al., Probiotic assessment of Lactobacillus plantarum 15HN and Enterococcus mundtii 50H isolated from traditional dairies microbiota. Advanced Pharmaceutical Bulletin, 2016. 6(1): p. 37-47.10.15171/apb.2016.07

69. Armat, M., et al., The role of Six1 signaling in paclitaxel-dependent apoptosis in MCF-7 cell line. Bosnian Journal of Basic Medical Sciences, 2016. 16(1): p. 28- 34.10.17305/bjbms.2016.674

68. Arami, S., et al., Novel polyacrylate-based cationic nanoparticles for survivin siRNA delivery combined with mitoxantrone for treatment of breast cancer. Biologicals, 2016. 44(6): p. 487-496.10.1016/j.biologicals.2016.09.005

67. Ahour, F., et al., An electrochemical biosensor for the sensitive detection of hepatitis c virus in unpurified polymerase chain reaction amplified real samples based on peptide nucleic acid and double-stranded DNA hybridization. Analytical and Bioanalytical Electrochemistry, 2016. 8(6): p. 661-674

66. Sharifi, S., et al., Doxorubicin changes Bax /Bcl-x<inf>L</inf> ratio, caspase-8 and 9 in breast cancer cells. Advanced Pharmaceutical Bulletin, 2015. 5(3): p. 351-359.10.15171/apb.2015.049

65. Mesgari Shadi, A., et al., Degradation of benzene, toluene, and xylene (BTX) from aqueous solution by isolated bacteria from contaminated sites. Research on Chemical Intermediates, 2015. 41(1): p. 265-275.10.1007/s11164-013-1189-x

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63. Hamidi-Asl, E., et al., A bimetallic nanocomposite electrode for direct and rapid biosensing of p53 DNA plasmid. Journal of Chemical Sciences, 2015. 127(9): p. 1607-1617.10.1007/s12039-015-0917-8

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58. Sharifi, S., et al., Roles of the Bcl-2/Bax ratio, caspase-8 and 9 in resistance of breast cancer cells to paclitaxel. Asian Pacific Journal of Cancer Prevention, 2014. 15(20): p. 8617-8622.10.7314/APJCP.2014.15.20.8617

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56. Heris, Y.S., et al., Fe(III) reduction by halomonas sp. TBZ9 and maribobacter sp. TBZ23, isolated from urmia lake in Iran. Advances in Environmental Biology, 2014. 8(24): p. 59-65

55. Hamidi, M., et al., Optimization of total carotenoid production by Halorubrum Sp. TBZ126 using response surface methodology. Journal of Microbial and Biochemical Technology, 2014. 6(5): p. 286-294.10.4172/1948-5948.1000158

54. Aghdam, E.M., A. Barzegar, and M.S. Hejazi, Evolutionary origin and conserved structural building blocks of riboswitches and ribosomal RNAs: Riboswitches as probable target sites for aminoglycosides interaction. Advanced Pharmaceutical Bulletin, 2014. 4(3): p. 225-235.10.5681/apb.2014.033

53. Tarhriz, V., et al., Tabrizicola aquatica gen. nov. sp. nov., a novel alphaproteobacterium isolated from Qurugöl Lake nearby Tabriz city, Iran. Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology, 2013. 104(6): p. 1205-1215.10.1007/s10482-013-0042-y

52. Hamidi-Asl, E., et al., Indigo carmine as new label in PNA biosensor for detection of short sequence of p53 tumor suppressor gene. Electroanalysis, 2013. 25(9): p. 2075-2083.10.1002/elan.201300155

51. Hamidi-Asl, E., et al., A new peptide nucleotide acid biosensor for electrochemical detection of single nucleotide polymorphism in duplex DNA via triplex structure formation. Journal of the Iranian Chemical Society, 2013. 10(6): p. 1075-1083.10.1007/s13738-013-0254-0

50. Ghotaslou, R., et al., Detection of legionella contamination in tabriz hospitals by PCR assay. Advanced Pharmaceutical Bulletin, 2013. 3(1): p. 131- 134.10.5681/apb.2013.022

49. Ghotaslou, R., et al., Relationship between drug resistance and cagA gene in helicobacter pylori. Jundishapur Journal of Microbiology, 2013. 6(10).10.5812/jjm.8480

48. Ghotaslou, R., et al., Diversity of helicobacter pylori caga and vaca genes and its relationship with clinical outcomes in Azerbaijan, iran. Advanced Pharmaceutical Bulletin, 2013. 3(1): p. 57-62.10.5681/apb.2013.010

47. Azar, L.M., et al., Influence of foreign DNA introduction and periplasmic expression of recombinant human interleukin-2 on hydrogen peroxide quantity and catalase activity in Escherichia coli. Advanced Pharmaceutical Bulletin, 2013. 3(2): p. 395-402.10.5681/apb.2013.063

46. Arami, S., et al., Voltammetric detection of uridin diphosphate glucuronosyl transferase 1A9 (UGT1A9) gene corresponding oligonucleotide covering promoter region from -268 to -280 including (A/T) polymorphism at position - 275 and optimization of the detection factors. Journal of the Iranian Chemical Society, 2013. 10(3): p. 399-406.10.1007/s13738-012-0172-6

45. Ahour, F., et al., Detection and discrimination of recombinant plasmid encoding hepatitis C virus core/E1 gene based on PNA and double-stranded DNA hybridization. Biosensors and Bioelectronics, 2013. 45(1): p. 287- 291.10.1016/j.bios.2013.01.063

44. Tarhriz, V., et al., Alishewanella tabrizica sp. nov., isolated from qurugöl lake. International Journal of Systematic and Evolutionary Microbiology, 2012. 62(8): p. 1986-1991.10.1099/ijs.0.031567-0

43. Mohajeri, R., et al. Analysis of impedance stabilization of natural and metallic DNA molecules. in 2012 19th Iranian Conference of Biomedical Engineering, ICBME 2012. 2012.

42. Mehdizadeh Aghdam, E., et al., Effect of periplasmic expression of recombinant mouse interleukin-4 on hydrogen peroxide concentration and catalase activity in Escherichia coli. Gene, 2012. 511(2): p. 455-460.10.1016/j.gene.2012.09.014

41. Ahour, F., M.H. Pournaghi-Azar, and M.S. Hejazi, An electrochemical approach for direct detection and discrimination of fully match and single base mismatch double-stranded oligonucleotides corresponding to universal region of hepatitis C virus. Analytical Methods, 2012. 4(4): p. 967-972.10.1039/c2ay05795f

40. Vahed, S.Z., et al., Isolation and characterization of halophilic bacteria from Urmia Lake in Iran. Mikrobiologiia, 2011. 80(6): p. 826-833

39. Vahed, S.Z., et al., Isolation and characterization of halophilic bacteria from Urmia Lake in Iran. Microbiology, 2011. 80(6): p. 834- 841.10.1134/S0026261711060191

38. Tarhriz, V., et al., Isolation and characterization of some aquatic bacteria from Qurugöl lake in Azerbaijan under aerobic conditions. Advances in Environmental Biology, 2011. 5(10): p. 3173-3178

37. Sehatnia, B., et al., Modeling of DNA Hybridization Detection Using Methylene Blue as an Electroactive Label. Journal of the Iranian Chemical Society, 2011. 8(1): p. 115-122.10.1007/BF03246208

36. Raoof, J.B., et al., Preparation of an electrochemical PNA biosensor for detection of target DNA sequence and single nucleotide mutation on p53 tumor suppressor gene corresponding oligonucleotide. Sensors and Actuators, B: Chemical, 2011. 157(1): p. 195-201.10.1016/j.snb.2011.03.049

35. Nasirizadeh, N., et al., Introduction of hematoxylin as an electroactive label for DNA biosensors and its employment in detection of target DNA sequence and single-base mismatch in human papilloma virus corresponding to oligonucleotide. Biosensors and Bioelectronics, 2011. 26(5): p. 2638- 2644.10.1016/j.bios.2010.11.026

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33. Ilkhani, H., et al., Electrochemical spectroscopic investigations on the interaction of an ytterbium complex with DNA and their analytical applications such as biosensor. International Journal of Biological Macromolecules, 2011. 49(5): p. 1117-1123.10.1016/j.ijbiomac.2011.09.008

32. Hejazi, M.S., et al., Development of a Novel Electrochemical Biosensor for Detection and Discrimination of DNA Sequence and Single Base Mutation in dsDNA Samples Based on PNA-dsDNA Hybridization - a new Platform Technology. Electroanalysis, 2011. 23(2): p. 503-511.10.1002/elan.201000413

31. Alvari, A., et al., Rapid RP-HPLC technique for the determination of phyllanthin as bulk and its quantification in Phyllanthus amarus extract. International Journal of Phytomedicine, 2011. 3(1): p. 115-119

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29. Abdolahinia, E.D., et al., A comparative phenotypic and ITS based genotypic study in thyme species (thymus L. lamiaceae). Vegetos, 2011. 24(2): p. 102-113

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26. Pournaghi-Azar, M.H., F. Ahour, and M.S. Hejazi, Direct detection and discrimination of double-stranded oligonucleotide corresponding to hepatitis C virus genotype 3a using an electrochemical DNA biosensor based on peptide nucleic acid and double-stranded DNA hybridization. Analytical and Bioanalytical Chemistry, 2010. 397(8): p. 3581-3587.10.1007/s00216-010-3875- 5

25. Khani, S., et al., Cloning of taxadiene synthase gene into Arabidopsis thaliana (ecotype Columbia-0). African Journal of Biotechnology, 2010. 9(12): p. 1734- 1740

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22. Hejazi, M.A., et al., Introduction of a novel 18S rDNA gene arrangement along with distinct ITS region in the saline water microalga Dunaliella. Saline Systems, 2010. 6(1).10.1186/1746-1448-6-4

21. Barzegari, A., et al., Dunaliella as an attractive candidate for molecular farming. Molecular Biology Reports, 2010. 37(7): p. 3427-3430.10.1007/s11033-009- 9933-4

20. Raoof, J.B., et al., A Comparative study of carbon nanotube paste electrode for development of indicator-free DNA sensors using DPV and EIS: Human interleukin-2 oligonucleotide as a model. International Journal of Electrochemical Science, 2009. 4(10): p. 1436-1451

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16. Ebrahimi, A.A., et al., Serum levels of TNF-α, TNF-αRI, TNF-αRII and IL-12 in treated rheumatoid arthritis patients. Iranian Journal of Immunology, 2009. 6(3): p. 147-153

15. Atashpaz, S., J. Shayegh, and M.S. Hejazi, Rapid virulence typing of Pasteurella multocida by multiplex PCR. Research in Veterinary Science, 2009. 87(3): p. 355-357.10.1016/j.rvsc.2009.04.004

14. Sofalian, O., et al., Study the genetic diversity of wheat landraces from northwest of Iran based on ISSR molecular markers. International Journal of Agriculture and Biology, 2008. 10(4): p. 466-468

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12. Sabzi, R.E., et al., Electrochemical detection of human papilloma virus (HPV) target DNA using MB on pencil graphite electrode. Journal of the Iranian Chemical Society, 2008. 5(3): p. 476-483.10.1007/BF03246005

11. Pournaghi-Azar, M.H., et al., Direct and rapid electrochemical biosensing of the human interleukin-2 DNA in unpurified polymerase chain reaction (PCR)- amplified real samples. Biosensors and Bioelectronics, 2008. 24(4): p. 524- 530.10.1016/j.bios.2008.05.008

10. Nobar, L.Z., et al., Cloning and sequencing of ABC transporter ATP-binding protein encoding gene from Streptomyces minoensis. Biotechnology, 2008. 7(2): p. 182-187.10.3923/biotech.2008.182.187

9. Hejazi, M.S., et al., Construction, electrochemically biosensing and discrimination of recombinant plasmid (pEThIL-2) on the basis of interleukine-2 DNA insert. Biosensors and Bioelectronics, 2008. 23(11): p. 1588- 1594.10.1016/j.bios.2008.01.021

8. Chaparzadeh, N., et al., Study of glutenin subunits in some wheat landraces from northwest of Iran by SDS-PAGE technique. International Journal of Agriculture and Biology, 2008. 10(1): p. 101-104

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5. Hejazi, M.S., et al., Cloning and sequencing of partial segment of cholesterol oxidase encoding gene from Streptomyces luridus. Annals of Microbiology, 2007. 57(2): p. 259-263.10.1007/BF03175216

4. Hejazi, M.S., et al., Genotyping of hepatitis C virus in northwest of Iran. Biotechnology, 2007. 6(3): p. 302-308.10.3923/biotech.2007.302.308

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2. Bashir, N.S., S.N. Zarghani, and M.S. Hejazi, Diversity of Grapevine fanleaf virus isolates from Iran. Virus Research, 2007. 128(1-2): p. 144- 148.10.1016/j.virusres.2007.04.013

1. Pournaghi-Azar, M.H., M.S. Hejazi, and E. Alipour, Developing an electrochemical deoxyribonucleic acid (DNA) biosensor on the basis of human interleukine-2 gene using an electroactive label. Analytica Chimica Acta, 2006. 570(2): p. 144-150.10.1016/j.aca.2006.04.067

**SUPERVISED THESIS**

1. **2019,** S. Montazersaheb, **PhD thesis**, co-supervisor with Prof. P. Nielsen, Tabriz University of Medical Sciences, Iran.

**Title:** Employment of PNA molecule for gene suppression in mammalian cells.

1. **2018,** A. Hassankhani Rad, **PharmD thesis,** supervisor: Dr. O. Molavi and Dr. M. R. Heidari, consultant: Dr. M. S. Hejazi.

**Title: E**valuation of anticancer effects of silibinin nanoparticles in B16 melanoma cell line.

1. **2018,** V. Ebrahimi, **PharmD thesis,** co-supervisor with Dr. V. Tarhriz, Tabriz University of Medical Sciences, Iran.

**Title:** Identification and Study of Polycyclic Aromatic Hydrocarbons (PAHs) Degradation Potential by Some bacterialI from Caspian Sea and Study of Possibility to Discover Novel Bacterial Species.

1. **2018,** N. Soozangar, **PhD thesis**, co-supervisor with Dr. M. H. Somi and Dr. N. Samadi, Tabriz University of Medical Sciences, Iran.

**Title:** Evaluation of Keap1 gene expression and methylation levels in biopsy specimens with and without gastric cancer.

1. **2018,** S. Razi Soofiyani, **PhD thesis**, co-supervisor with Dr. B. Bradaran, Tabriz university of Medical Sciences, Iran.

**Title:** Studying the combination therapy of docetaxel and CIP2A siRNA in human prostate cancer cell line.

1. **2017,** Z. Nikipar, **MSc thesis**, co-supervisor with Dr. A. Barzegar, consultant: Dr. V. Tarhriz, University of Tabriz, Iran.

**Title:** Nucleotide biosensor for detection and differentiation of microRNA 181a by electrochemical techniques.

1. **2017**, V. Tarhriz, **PhD thesis**, co-supervisor with Dr. H. Ghanbarian, consultant: Dr. R. Passier and Dr. OL. Molavi, Shahid Beheshti University of Medical Sciences, Iran.

**Title:** Investigation of direct regulatory role of CDK9 gene on cardiac microRNAs, especially miR-1, in myocardial differentiation of C2C12 cells.

1. **2017,** N. Salehi, **PharmD thesis**, Tabriz University of Medical Sciences, Iran.

**Title:** Systematic review on development of biosensors for detection of DNA methylation.

1. **2017,** O. Shaker, **PharmD thesis**, co-supervisor with Dr. A. Dilmagani, Tabriz University of Medical Sciences, Iran.

**Title:** Study of antimicrobial activity of Northwest of Iran native bacteria.

1. **2016,** S. Arami, **PhD thesis**, supervisor: Dr. MR. Rashidi and Dr. M. Mahdavi, consultant: Dr. MS. Hejazi and Dr. N. Samadi, Tabriz University of Medical Sciences, Iran.

 **Title:** Delivery of surviving siRNA into breast cancer cell line using new synthetic nanoparticles and determination of the anticancer activity of the nanoplexes.

1. **2016,** E. Mehdizadeh, **PhD thesis**, co-supervisor with Dr. A. Barzagar, cosultant: Dr. J. Hartig, Tabriz University of Medical Sciences, Iran.

**Title:** Cloning and sequencing of riboswitches of *Alishewanella tabrizica* strain RCRI4 and comparative studies on similar riboswitches in other bacteria.

1. **2016,** F. Asiaee, **PharmD thesis,** co-supervisor with Dr. O. Molavi, consultant: Dr. N. Samadi, Tabriz University of Medical Sciences, Iran.

**Title:** Studying the effects of silibinin on the expression of proteins involved in cell apoptosis in paclitaxel-resistant MCF-7 breast cancer cells.

1. **2016,** S. Saeedi Khou, **MSc thesis**, co-supervisor with Dr. N. Samadi, Tabriz University of Medical Sciences, Iran

**Title:** The role of leukotriene B4 receptor-2 in induction of resistance to paclitaxel in Breast cancer cells.

1. **2016,** F. Narimani, **PharmD thesis**, co-supervisor with Dr. O. Molavi and Dr. N. Samadi. Tabriz University of Medical Sciences, Iran

**Title:** Evaluation of chemo-sensitizing effects of silibinin in paclitaxel-resistant breast cancer cells.

1. **2016**, N. Lakestani, **MSc thesis**, co-supervisor with Dr. MR. Mehrnia, University of Tehran Kish Int ‘l Campus, Iran.

 **Title:** *In silico* study of aminoglycoside antibiotics binding affinity with various bacterial RNA structure.

1. **2016,** M. Armat, **MSc thesis**, co-supervisor with Dr. N. Samadi, Tabriz University of Medical Sciences, Iran

**Title:** The role of *SIX1* gene expression in Paclitaxel-resistant breast cancer cells.

1. **2016,** T. Oghabi Bakhshayesh, **MSc thesis**, co-supervisor with Dr. N. Samadi, Tabriz University of Medical Sciences, Iran

 **Title:** The role of PPM1D gene expression in paclitaxel resistant breast cancer cells.

1. **2015,** Z .Akbari, **PharmD thesis**, co-supervisor with Dr. A. Dilmaghani, Tabriz University of Medical Sciences, Iran

**Title:** Study the iron bioreduction and heavy metal biosorption characteristics of *Tabrizicola aquatic*, an indigenous bacterium to the Northwest of Iran.

1. **2014,** S. Sharifi, **PhD thesis**, co-supervisor with Dr. N. Samadi, Tabriz University of Medical Sciences, Iran

**Title:** Studying the role of some caspase and Bcl-2 family genes in resistance to chemotherapy in breast cancer cells.

1. **2015,** M. Hamidi, **PhD thesis**, co-supervisor with Dr. Nazemiye and Dr. MA. Hejazi, consultant: M. Zeinalabedin, Tabriz University of Medical Sciences, Iran.

**Title:** Study of carotenoid production by Iranian halophilic bacterial isolates and effects of various factors on the production level.

1. **2013,** D. Naziri, **MSc thesis**, co-supervisor with Dr. B. Maleki Azar, consultant: Dr. MA. Hejazi, University of Zanjan, Iran.

 **Title:** Production of carotenoid by halophilic bacteria isolated from northwest of Iran and molecular identification of related genes.

1. **2013,** H. Navah Farsad, **PharmD thesis**, co-supervisor with Dr. M. Hosseinpour Naghi Azar, Tabriz University of Medical Sciences, Iran.

 **Title:** Detection of target DNA sequence in genomic DNA sample without the need for PCR amplification of the target DNA.

1. **2012,** M. Milani, **PhD thesis**, supervisor: Dr. R. Ghotaslou and Dr. MT. Akhi, Tabriz University of Medical Sciences, Iran.

 **Title:** Evaluation of clarithromycin resistance of *Helicobacter pylori* by phenotypic and Tabriz University of Medical Sciences, Iran. Genotypic methods and assessment of association to *cagA*, *vacA* in adults and children.

1. **2012,** E. Hamidi Asl, **PhD thesis**, co-supervisor with Dr. J. Rauf, consultants: Dr. M. Golabi and Dr. Reza. Oujani. Mazandaran University, Iran.

**Title:** Novel biosensors for investigating of DNA hybridization using PNA and DNA probes by electrochemical instruments to study genetic defects.

1. **2011,** F. Ahour, **PhD thesis**, co-supervisor with Dr. MH. Pour Naghi Azar, Tabriz University, Iran.

**Title:** Development of electrochemical DNA biosensor for detection of HCV gene based on differential pulse voltammetry.

1. **2011,** A. Sobhani, **PhD thesis,** supervisor: Dr. M. Fardmanesh, Sharif University of Tecnoligy, Iran.

**Title:** Measurement and characterization of electric current in metallic-DNA bundles.

1. **2011,** Y. Sefidi, **MSc thesis,** consultants: Dr. M. Golabi and Dr. MA. Hejazi, Islamic Azad University of Zanjan, Iran.

 **Title:** Evaluation of aromatic compounds biodegradation and ferric ion reduction by bacterial isolates TBZ9 and TBZ23 isolated from Qurugöl Pond and optimization of biodegradation conditions.

1. **2011,** N. Hajizadeh, **MSc thesis,** consultants: Dr.M.Sadugi and Dr. N. Arsalani, Islamic Azad University of Zanjan, Iran.

 **Title:** Evaluation of dye compounds biodegradation by halophilic bacteria isolated from Urmia Lake and optimization of the biodegradation conditions.

1. **2011,** N. Nasirizadeh, **MSc thesis,** supervisor: Dr. H. Zare, consultant: Dr. MS. Hejazi and Dr. M. Namazian, Yazd University, Iran.

**Title:** Investigation of electrochemical behavior of some of biological compounds and their application for development of DNA, adernaline, noradernaline and acetaminophen biosensors using nanomaterial modified platforms.

1. **2011**, S. Hasanzadeh, **MSc thesis,** co-supervisor with Dr. B. Maleki, consultant: Dr. MA. Hehazi, University of Zanjan, Iran.

**Title:** Identification of Urmia Lake shores halophilic bacteria by biochemical methods and polymerase chain reaction.

1. **2010,** S. Gholizadeh, **PhD thesis,** co-supervisor with Dr. MR. Majidi, University of Tabriz, Iran.

**Title:** Design and construction of novel electrochemical biosensors for detection and determination of biological materials and biomarkers.

1. **2010,** N. Gholmoammadzadeh, **PhD thesis**, co-supervisor with Dr. K. Haddad Irani, consultants: Dr. A. Mohammadi and Dr. N. Sokhandan, Tabriz University, Iran.

 **Title:** A geometric, morphometric and molecular study on populations of the pod borer, *Helicoverpa armigera* (Hübner) (Lep: Noctuidae) in Northwest region and Golestan province of Iran.

1. **2010,** V. Ttarhriz**, MSc thesis**, co-supervisor with Dr. Gh. Nematzadeh, consultant: Dr. MA. Hejazi. Mazandaran University, Iran.

**Title:** Study of presence and biodiversity of *Marinobacter sp.* in Gurugöl Lake.

1. **2010,** S. Jafarian, **MSc thesis**, supervisor: Dr. N.Sokhandsn, consultant: Dr. MS. Hejazi and Dr. R. Khakvar, Tabriz University, Iran.

 **Title:** Expression of Iranian isolate of *Grapevine fanleaf* virus  movement protein gene in *Escherichia coli*.

1. **2009,** E. Mehdizadeh Aghdam, **PharmD** **thesis,** Tabriz University of Medical Sciences, Iran.

**Title:** Effect of cytoplasmic recombinant proteins expression on hydrogen peroxide concentration and catalase activity in *Escherichia coli*.

1. **2009,** H. Ghale noee, **MSc** **thesis**, co-supervisor with Dr. N. Chaparzadeh. Shahid Madani University, Iran.

**Title:** Diversity study of halophilic bacteria being in mud samples of Urmia Lake by molecular methods.

1. **2009,** P. Pirnikan**, MSc** **thesis**, supervisor: Dr. N. Sokhandan Bashir, consultant: Dr. MS. Hejazi, University of Tabriz, Iran.

**Title:** Expression of recombinant coat protein of Cucumber mosaic virus in *Escherichia coli* for antiserum preparation.

1. **2009,** S. Mahmoudi Azar, **MSc** **thesis**, consultant: Dr. P. Yaghmayi, Science and Research Branch of Islamic Azad University, Iran.

**Title:** Evaluation of periplasmic expression of recombinant human interleukin-2 protein influence on H2O2 concentration and catalase activity in *Escherichia coli.*

1. **2009,** S. Arami, **PharmD** **thesis,** co-supervisor with Dr. MH. Pourtaghi Azar, Tabriz University of Medical Sciences, Iran.

**Title:** Development of a PNA biosensor for diagnosis of uridin diphosphate glucronosyltransferase 1A9 (UGT1A9) gene promoter region polymorphism at position -275

1. **2009,** A. Kalbasi, **PharmD** thesis, co-supervisor with Dr. MA. Faramarzi, Tabriz University of Medical Sciences, Iran.

 **Title:** Study on the biotransformation of androst-4-en-3, 17-dione by *Nostoc sp*.

1. **2009,** E. Alipour, **PhD thesis,** co-supervisor with Dr. MH. Pournaghi-Azar, consultant: Dr. SM Golabi, Tabriz University, Iran.

**Title:** Development of electrochemical DNA biosensor on the basis of human interleukin-2 gene and its application for detection of recombinant plasmids.

1. **2008,** E. Dalir Abdollahi, **MSc thesis,** co-supervisor with Dr. A. Hag Nazari, consultants: Dr. H. Nazemiye and Dr. F. Gonovati, Universty of Zanjan, Iran.

 **Title:** Comparison between phenotypic and genotypic characteristics of *Thymus spp*. in Azarbaijan.

1. **2008,** S. Morshedi, **PhD thesis**, co-supervisor with Dr. M. Halimi, Tabriz University of Medical Sciences, Iran.

 **Title:** Detection of human Papilloma virus (HPV) in lung and oral squamous cell carcinomas by PCR in Northwest Iran.

1. **2008,** S. Khani, **MSc thesis**, supervisor: Dr. Y. Omidi and Dr. MM. Sohani, University of Guilan, Iran.

 **Title:** Transformation of Arabidopsis thaliana with Taxadiene synthase gene as a first committed step in taxol biosynthesis pathway.

1. **2008,** S.Zonuni Vahed, **MSc thesis,** co-supervisor with Dr. Nader. Chaparzadeh, consultant: Dr. M. Nahaee and Dr. MA. Hejazi and O. Sofalian, Azarbaijan Shahid Madani University, Iran.

 **Title:** Study of presence and genetic diversity of *Halomondaceae* bacteria in Urmia Lake.

1. **2008,** J. Shayeg**, PhD thesis**, co-supervisor with Dr. T. Zahraee Salehi, Islamic Azad University of Tabriz, Iran.

 **Title:** Genotyping of Iranian ovine and bovine *Pasteurella multocida* isolates using multiplex PCR method based on capsular genes.

1. **2008,** H, Foruzandeh, **MSc thesis**, consultant: Dr. M. Nahaee and Dr. M. Naeb, Islamic Azad University of Tabriz, Iran.

 **Title:** Genotype characterization of *Lactobacillus* isolates from the Northwest Iran.

1. **2008,** B. Sehat Nia, **MSc thesis**, co-supervisor with Dr. R. Emamali Sabzi and MH. Pour Naghi Azar, Urmia University, Iran.

 **Title:** Development of an electrochemical DNA biosensor for detection of Human Papilloma virus (HPV) target DNA.

1. **2008,** A. Javanmard, **MSc thesis**, supervisor: Dr. Nader. Chaparzadeh, consultant: Dr. MS. Hejazi. Azarbaijan Shahid Madani University, Iran.

 **Title:** Biodiversity study of some wheat landraces in Northwest Iran by storage proteins and molecular markers.

1. **2007,** M. Parvizi, **DVM thesis**, consultant: Dr. H. Hashemzadeh, Islamic Azad University of Tabriz, Iran.

 **Title:** Evaluation of interleukin-4 gene promoter region genetic polymorphism in patient with relapsing visceral leishmaniasis.

1. **2006,** R. Faryar, **MSc thesis**, consultant: Dr. K. Nazer Adl and Dr. S. Aharizadeh, Islamic Azad University of Shabestar.

 **Title:** Development of a new method for sex determination of bovine using ZFY and ZFX genes specific primers based on PCR.

1. **2006,** B. Hag Shenas**, MSc thesis**, co-supervisor with Dr. B. Baghyban Kohnevarz. University of Tabriz, Iran.

 **Title:** Employment of pET22b vector for cloning and expression of interleukin-2 cDNA in the periplasm of *E. coli**.*

1. **2006,** MR. Moharrami**, PharmD thesis**, Tabriz University of Medical Sciences, Iran.

 **Title:** Evaluation of possibility for cloning and sequencing of tannase encoding gene from *Bacillus cereus*.

1. **2006,** A. Barzegari. **MSc thesis**, co-supervisor with A. Mohammadi, consultant: Dr. M. Valizadeh. University of Tabriz, Iran.

 **Title:** Sub cloning of interleukin-4 cDNA and its periplasmic expression in *E. coli* using a prokaryotic expression vector.

1. **2006,** R. Azarbayjani, **MSc thesis,** co-supervisor with Dr. K. Kazemi Tabar. University of Mazandaran.

 **Title:** Cloning and sequencing of cholesterol oxidase encoding gene from *Streptomyces luridus*.

1. **2006,** L. Zereshki nobar, **MSc thesis**, co- supervisor with Dr. N. Babaeyan Jelodar., consultant: Dr. M.Valizadeh. University of Mazandaran.

 **Title:** Cloning and sequencing of partial fragment of cholesterol oxidase encoding gene from *Streptomyces narbonensis*.

1. **2006,** M. Aminnehjad, **MSc thesis**, co- supervisor with Dr. A. Baqbay Ahari, consultant: Dr. M. Javan Nik khah. University of Tabriz, Iran.

 **Title:** Evaluation of genetic diversity and pathogenicity of *Pyrenophora graminea* isolates in East Azarbaijan province,Iran. Z

1. **2006,** M. Mesbahfar, **PharmD thesis,** Tabriz University of medical sciences, Iran.

 **Title:** Construction of a prokaryotic expression vector for expression of interleukin-4 in *E. coli*.

1. **2006,** F. Lotfipour, **PharmD thesis,** co-supervisor with Dr. MH. Zarrintan. Tabriz University of Medical Sciences, Iran.

 **Title:** Cytoplasmic endoproteases for cleavage of fusion proteins as therapeutic targets.

1. **2006,** Sh. Nouri Nejhad Zargani, **MSc thesis,** consultant: Proff. MS. Hejazi. And E. Esmaeel torabi, University of Tabriz, Iran.

 **Title:** Expression of recombinant coat protein of grapevine fanleaf virus for antiserum preparation.

1. **2005,** A. Shafag**, PharmD thesis,** consultant: Dr. S. Rafati, Tabriz University of Medical Sciences, Iran.

 **Title:** Evaluation of interleukin-10 polymorphism in visceral leishmaniasis patients and their close relevant (comparison of IL-10 promoter region polymorphism in drug resistant patients and their relatives).

1. **2005**, A. Hosseini, **PharmD thesis,** Tabriz University of Medical Sciences, Iran.

 **Title:** Construction of pB7G4VP plasmid and evaluation of B7.1/GAL4-VP16 chimeric recombinant protein expression in cytoplasmic membrane of eukaryotic cells.

1. **2005,** H. Jabbari, **PharmD thesis,** Tabriz University of Medical Sciences, Iran.

 **Title:** Cloning and expression of human interleukin-2 in eukaryotic cells.

1. **2004,** F. Karimi, **MSc thesis,** co-supervisor with Dr. B. Baghban Kohnehvarz, consultant: M. Valizadeh and N. Sokhandan. Tabriz University of Medical Sciences, Iran.

 **Title:** Sub-cloning of interleukin-2 encoding cDNA in prokaryotic expression vector and evaluation of its expression in *E. coli.*

1. **1999,** P. Azizian, **PharmD** **thesis,** co-supervisor with Dr. R. Parvizi and Dr. M. Jelvegari. University of Tabriz, Iran.

**Title:** Formulation of cardioplegia pareteral products and comparison of them with foreigner samples.

1. **1999**, N. Taghizadeh, **PharmD thesis,** co-supervisor with Dr. D. Hasanzadeh, Tabriz University of Medical Sciences, Iran.

 **Title**: Formulation of captopril matrix tablets.

1. **1999,** L. Jafari, **PharmD** **thesis**, co-supervisor with Prof. D. Hassanzadeh. And Prof. M. Barzegar-Jalali. Tabriz University of Medical Sciences, Iran.

 **Title:** Evaluation of chemical stability of diltiazem hydrochloride solutions.

1. **1999,** N. Ghouchi eskandar, **PharmD** **thesis**, co-supervisor with Prof. D. Hassanzadeh. And Prof. M. Barzegar-Jalali, Tabriz University of Medical Sciences, Iran.

 **Title:** Evaluation of diltiazem hydrochloride release rate from matrices.

1. **1999**, B. Malaeke Nikouee, **PharmD thesis**, co-supervisor with Prof. D. Hassanzadeh. Tabriz University of Medical Sciences, Iran.

 **Title:** Comparison of analytical methods of H2 blocker products (cimetidine, ranitidine, famotidine).

1. **1995**, D. Safdarian, **PharmD****thesis**, co-supervisor with Dr. M. Barzegar-Jalali, Tabriz University of Medical Sciences, Iran.

 **Title:** Physical stability and release studies of nalidixic acid suspensions.

70. **2018,** F. Tamaddon, PharmD thesis, co-supervisor with Dr. Hamid, Tabriz University of Medical Sciences, Iran.

**Title:** Design and construction og rh-IGF-1 fusion protein expression vector and its cloning in E.Coli.