

Curriculum Vitae

Mohammad Bagher Ghoshoon

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Languages:

-Persian (Original Language)

-English

Education:

PhD. in Pharmaceutical Biotechnology (2010-2015)

-Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

Pharm.D. (2004-2010)

-Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

Subject of Pharm.D Thesis:

Cloning and expression of L-asparaginase in *Escherichia coli*

Supervisor: Dr. Younes Ghasemi

Subject of PhD Thesis:

Cloning and expression of extracellular L-asparaginase II enzyme in *Escherichia coli*: whole cell immobilization, experimental design and culture medium optimization

Supervisor: Dr. Younes Ghasemi

Publications:

Research Papers:

1. Taghizadeh S-M, Ebrahiminezhad A, Ghoshoon MB, Dehshahri A, Berenjian A, Ghasemi Y. Magnetic Immobilization of *Pichia pastoris* Cells for the Production of Recombinant Human Serum Albumin. *Nanomaterials*. 2020; 10(1):111.
2. Yari M, Ghoshoon MB, Nezafat N, Ghasemi Y. Experimental Evaluation of In Silico Selected Signal Peptides for Secretory Expression of *Erwinia Asparaginase* in *Escherichia coli*. *International Journal of Peptide Research and Therapeutics*. 2019:1-9.
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5. Negahdaripour M, Nezafat N, Heidari R, Erfani N, Hajjgharamani N, Ghoshoon MB, et al. Production and Preliminary in vivo Evaluations of a Novel in silico-Designed L2-based Potential HPV Vaccine. *Current pharmaceutical biotechnology*. 2019.
6. Raei MJ, Ebrahiminezhad A, Ghoshoon MB, Gholami A, Ghasemi Y. Synthesis and Characterization of L-Lysin Coated Iron Oxide Nanoparticles as Appropriate Choices for Cell Immobilization and Magnetic Separation. *Nanoscience & Nanotechnology-Asia*. 2019;9(4):462-6.
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9. Mohammadi F, Nezafat N, Berenjhan A, Negahdaripour M, Zamani M, Ghoshoon MB, et al. Extracellular Production of a Potent and Chemically Resistant Nattokinase in Immobilized *Escherichia coli* Using Response Surface Methodology. *Current pharmaceutical biotechnology*. 2018;19(11):856-68.
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11. Raei MJ, Ebrahiminezhad A, Gholami A, Ghoshoon MB, Ghasemi Y. Magnetic immobilization of recombinant *E. coli* producing extracellular asparaginase: An effective way to intensify downstream process. *Separation Science and Technology*. 2018;53(9):1397-404.
12. Raei MJ, Ghasemian A, Maghami S, Ghoshoon MB, Ghasemi Y. Cloning, purification and enzymatic assay of streptokinase gene from *Streptococcus pyogenes* in *Escherichia coli*. *Minerva Biotechnologica*. 2017;29(1):8-13.
13. Yari M, B Ghoshoon M, Vakili B, Ghasemi Y. Therapeutic Enzymes: Applications and Approaches to Pharmacological Improvement. *Current pharmaceutical biotechnology*. 2017;18(7):531-40.
14. Zarei M, Nezafat N, Morowvat MH, Dehshahri A, Ghoshoon MB, Berenjhan A, et al. Medium Optimization for Recombinant Soluble Arginine Deiminase Expression in *Escherichia coli* Using Response Surface Methodology. *Current pharmaceutical biotechnology*. 2017;18(11):935-41.
15. Gholami A, Ghoshoon M-B, Ghafari P, Ghasemi Y. The effect of different positively charged silver nanoparticles against bacteria, fungi and mammalian cell line. *Trends in Pharmaceutical Sciences*. 2017;3(2):135-42.

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Nucleotide sequences published at Pubmed (NCBI):

1. Ghasemi Y, Morowvat M H, Mohagheghzadeh A, Rasoul Amini S, Ghoshoon M B, Raei M J, Shokravi S, Soltani N, (2007), PCR amplification of 18S small subunit rRNA of *Scenedesmus obliquus*, isolated from paddy fields of Fars province, **NCBI**, EF564131.
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3. Ghasemi Y, Morowvat MH, Rasoul Amini S, Mohagheghzadeh A, Abolhassanzadeh Z, Hamidi M, Ghoshoon MB, Raei MJ, Shokravi S, (2007), PCR amplification of the 18S rRNA gene of *Dunaliella salina*, isolated from Maharlu salt lake of Iran, **NCBI**, EF682841.
4. Ghasemi Y, Abolhassanzadeh Z, Morowvat M H, Rasoul Amini S, Mohagheghzadeh A, Hamidi M, Ghoshoon M B, Raei MJ, (2007), PCR amplification of the 18S rRNA gene of *Dunaliella salina* CCAP 19/18, **NCBI**, EF682843.
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14. Ghasemi Y, Morowvat M H, Raei M J, Ghoshoon M B, Shokravi S, (2008), PCR amplification of 18S rRNA gene from fresh water microalga, *Scenedesmus rubescens* MCCS 018, isolated from south of Iran, **NCBI**, EU621364.

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33. Ghasemi Y, Kazemi A, Rasoul-Amini S, Ghoshoon M B, Morowvat M H, Raei M J, Ebrahiminezhad A, (2008), PCR amplification of the 16S rRNA gene of *Chryseobacterium taeanense* BCCS 016 isolated from the Maharlu salt lake in south of Iran, **NCBI**, FJ422574.
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Abstracts and Congress presentations:

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- 2) Ghoshoon MB., Morowvat MH, Ghasemi Y, Rasoul Amini S, Mohagheghzadeh A, Shokravi S, Characterization of antimicrobial activity and 16S rRNA gene of *Nostoc muscorum*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, 34.
- 3) Morowvat M H, Raei MJ., Ghoshoon MB., Ghasemi Y, Rasoul Amini S, Mohagheghzadeh A, Shokravi S. *Scenedesmus*, SCP and PCR amplification of 18S rRNA, The 9th Iranian Congress of Biochemistry & the 2nd International Congress of Biochemistry and Molecular Biology, Shiraz, Iran, Oct.29-Nov, 1, 2007, 179.
- 4) Ghoshoon MB, Morowvat MH, Moshavash M, Shokravi S, Mohagheghzadeh A, Rasoul-Amini S, Ghasemi Y; Metabolism of limonen and characterization of 18s rRNA gene in *Chlorella vulgaris* MCCS 012. 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 80.
- 5) Mosavi-Azam SB, Ghoshoon MB, Morowvat MH, Mohagheghzadeh A, Rasoul-Amini S, Ghasemi Y; In vivo bioconversion of carvone and menthone by *Desmodesmus communis* MCCS 010. 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 81.
- 6) Yavari F, Ghoshoon MB, Morowvat MH, Mohagheghzadeh A, Zarrini G, Rasoul-Amini S, Ghasemi Y; Characterization of antibacterial activity and 16S rRNA gene of *Chroococcus dispersus* MCCS 006. 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 82.
- 7) Mosavi-Khorshidi S, Kazemi A, Ghoshoon MB, Morowvat MH, Zarrini G, Rasoul-Amini S, Ghasemi Y; Charcterization of halophilic amylase-producing bacteria from the Maharlu salt lake. 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 83.
- 8) Khoubani S, Ghoshoon MB, Zarrini G, Rasoul-Amini S, Ghasemi Y; Charcterization of antibacterial activity and 16S rRNA gene of *Nostoc ellipsosporum* MCCS 005. 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 83.
- 9) Kazemi A, Ghoshoon MB, Raei MJ, Ebrahiminezhad A, Parasaei-Ghaderabadi K, Kargar M, Zarrini G, Rasoul-Amini S, Ghasemi Y, Morowvat MH; Isolation And Molecular Identification Of *Bacillus* Spp. Producing Lipase From The Maharlu Salt Lake. 2th International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.

10) Ebrahiminezhad A, Ghoshoon MB, Raei MJ, Kazemi A, Parasaee-Ghaderabadi K, Kafilzadeh F, Zarrini G, Rasoul-Amini S, Ghasemi Y; An Optimized Medium For Screening L-Asparaginase Producing *Escherichia Coli*. 2th International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.

11) Parasaee-Ghaderabadi K, Ebrahiminezhad A, Ghoshoon MB, Raei MJ, Kazemi A, Kafilzadeh F, Rasoul-Amini S, Ghasemi Y; Screening of Polyhydroxyalkanoates-Producing Bacteria From Different Contaminated Environments. 2th International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.

12) Ghoshoon MB, Raei MJ, Mosavi-Azam SB, Kazemi A, Ebrahiminezhad A, Morowvat MH, Rasoul-Amini S, Ghasemi Y; Crude Petroleum-Oil Biodegradation By Immobilized Cells Of *Chlorella Vulgaris* Mccs 011. 2th International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.

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14) Ghoshoon MB, Raei MJ, Ebrahiminezhad A, Kazemi A, Morowvat MH, Rasoul- Amini S, Ghasemi Y; Cloning, expression and characterization of *Escherichia coli* (BCCS 001) L-asparaginase II. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 83.

15) Jani M, Kazemi A, Ghoshoon MB, Morowvat MH, Rasoul- Amini S, Ghasemi Y; Biodiesel production from a naturally isolated strain of *Chlorella vulgaris*. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 84.

16) Raei MJ, Ghoshoon MB, Ebrahiminezhad A, Kazemi A, Morowvat MH, Rasoul- Amini S, Ghasemi Y; Cloning and expression of L-asparaginase II gene of *Shigella* in *E.coli*. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 85.

17) Mosavi-Azam SB, Ebrahiminezhad A, Ghoshoon MB, Jani M, Raei MJ, Parvizi R, Rasoul- Amini S, Ghasemi Y; Screening and characterization of L-asparaginase production by microalgae. The 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 74.

18) Parvizi R, Mardani Z, Negintaji N, Ghoshoon MB, Morowvat MH, Rasoul- Amini S, Ghasemi Y; Production of long chain omega-3 fatty acids by *Scenedesmus rubescens*. The 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 75.

19) Mardani Z, Parvizi R, Ghoshoon MB, Raei MJ, Morowvat MH, Rasoul- Amini S, Ghasemi Y; Microalgal metabolisms of some monoterpenoids ketones by immobilized cells culture of *Chlorella vulgaris*. The 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 77.

20) Khubani S, Yavari F, Mosavi-Azam SB, Ghoshoon MB, Morowvat MH, Rasoul- Amini S, Ghasemi Y; Fatty acid evaluation in a natural isolate of *Chlorella vulgaris*. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 78.

21) Yavari F, Khubani S, Parvizi R, Mardani Z, Ghoshoon MB, Morowvat MH, Rasoul- Amini S, Ghasemi Y; PCR amplification of the molecular black box, 16S rRNA from three Cyanobacterial species. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 79.

22) Raoufi SM, Ghoshoon MB, Raei MJ, Rasoul- Amini S, Ghasemi Y; Biotransformation of testosterone by immobilized cells of *Chlamydomonas reinhardtii*. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 80.

23) Maghami S, Mosavi-Azam SB, Ghoshoon MB, Raei MJ, Rasoul- Amini S, Ghasemi Y; Oil degradation by immobilized cells of *Synechococcus nidulans*. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 81.

24) Hosseini H, Kazemi A, Ebrahiminezhad A, Ghoshoon MB, Rasoul- Amini S, Ghasemi Y; Isolation and characterization of cellulase-producing bacteria from a hot spring in the south of Iran. 14th Seminar of Iranian Pharmacy Students, February, 11-14, 2009, Ahvaz, Iran, 82.

25) Ghoshoon MB, Ghasemian A, Ghasemi Y, Clonin, expression and characterization of L-Asparaginase II from *E. coli* YG 001, European Biotechnology congress, September 28 and October 01, 2011

Workshops:

- 1) Bioinformatics and its Application in Biotechnology, 23-27 October, 2007, Tabriz, Iran.
- 2) Molecular modeling, Shiraz University of Medical Sciences, Faculty of pharmacy, June 2008, Shiraz, Iran.
- 3) Scopus Database, Shiraz University of Medical Sciences, Faculty of pharmacy, Dec 2008, Shiraz, Iran.
- 4) Endnote software, Shiraz University of Medical Sciences, student research council, August 2010, Shiraz, Iran.

- 5) Business plan workshop, Shiraz University of Medical Sciences, Biotechnology Incubator, 26 July 2012, Shiraz, Iran.
- 6) Graph Pad software, Shiraz University of Medical Sciences, Faculty of pharmacy, December 2013, Shiraz, Iran.

Laboratory and Technical skills:

- Escherichia coli* based expression system
- Yeast based expression system
- Gene cloning
- Protein expression and purification
- Primer Design
- Western Blotting
- UV- Vis Spectrophotometry
- Protein Assay
- Experimental design and Response surface methodology (RSM)
- Immobilization of recombinant cells
- Real Time PCR
- DNA electrophoresis
- SDS-PAGE
- Biotransformation of organic compounds by microorganisms.
- Microalgal Biotechnology
- Isolation of Microorganisms from Nature and Screening them for Production of Bioactive Compounds
- Bioinformatics
- Bioremediation
- Cell Culture of Microalgae

-16S rRNA and 18S rRNA amplification of Microalgae, Bacteria and Plants

Research interests:

-Mammalian based expression system

-Monoclonal antibodies

-Purification of recombinant proteins

-Biocatalysts

-Enzyme Technology

-Microalgal Biotechnology

-Biotransformation of Organic Compounds by Microalgae.

-Isolation and Identification of Antimicrobial-producing Microalgae from Nature.

-Extraction, Purification and Structure Elucidation of Natural Products from Plants and Microalgae.

-Single Cell Protein production from Microalgae.

-Bioinformatics.