



Mohammad Hossein Morowvat

1) Personal Information:

Name: Mohammad Hossein

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Date and Place of Birth: March 21, 1983, in Neyriz, Fars Province, Iran

Sex: Male

Marital Status: Married (No children)

Languages:

- Persian (Original Language),
- English (Professional),
- German (Reading, writing, speaking)
- French (Elementary)

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2) Education:

- 2008-2014: Ph.D. in Pharmaceutical Biotechnology, Department of Pharmaceutical Biotechnology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Thesis Title: Study of the effects of *ackA* and *pta* inhibition by antisense RNA on acetate excretion and recombinant beta interferon expression in *Escherichia coli*, under the supervision of Dr. H. Vahidi, Dr. V. Babaeipour, Dr. N. Maghsoudi, and Dr. H. Rajabi-Memari.

- 2001-2008: Pharm. D. Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

Thesis Title: PCR amplification of 18S rRNA, Single Cell Protein production, and fatty acid evaluation of some naturally isolated Microalgae, under Dr. Y. Ghasemi, Dr. S. Rasoul-Amini, and Dr. A. Mohagheghzadeh.

3) Publications:

3.1) Research Papers:

1. Mirza SS, Yaseen K, Aslam S, Fatima A, Morowvat MH, Ishaque A, et al. Exploration of Polyhydroxybutyrate (PHB) Production Potential of Photosynthetic Microbes: A Sustainable Source of Bioplastic. *Recent Pat Biotechnol.* 2026;20(1):122-138.
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3. Maskanati M, Ahmadi M, Sabet Sarvestani F, Morowvat MH. Phycocyanin enhances potential neural stem cell differentiation in iron doped chitosan hydroxyapatite scaffolds. *Scientific Reports.* 2025;15(35714).

4. Maghami S, Ranjbar S, Nezafat N, Ghamar Talepoor A, Eshkevar Vakili M, Morowvat MH, et al. Interplay of Vitamin D and Aryl Hydrocarbon Receptors in CD4⁺ T Cell Fate Determination. *Journal of Biochemical and Molecular Toxicology*. 2025;39(8).
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6. Mehdiieh M, Rafiei-Dehbidi G, Morowvat MH, Safari F, Zare F, Rastegari B, et al. Annexin A5 ameliorates H₂O₂-induced cytotoxicity in SH-SY5Y cells. *Molecular Biology Reports*. 2025;52(1).
7. Moradbeygi F, Ghoshoon MB, Sadeghian I, Moradi A, Ghasemi Y, Morowvat MH, et al. Toward the development of a biosimilar variant of glucarpidase (Carboxypeptidase G2): secretory production, optimization, and immobilization. *Molecular Biotechnology*. 2025.
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9. Rahbar MR, Nezafat N, Morowvat MH, Savardashtaki A, Ghoshoon MB, Hajizade MS, et al. Stability and functional consequences of disulfide bond engineering in *Aspergillus flavus* uricase. *Scientific Reports*. 2025;15(18419).
10. Pakrouh Jahromi Z, Ranjbar S, Ghasemi Y, Raee MJ, Morowvat MH, Negahdaripour M. Potential glycerol production inducers in *Saccharomyces cerevisiae* identified by in silico approaches. *Food Biotechnol*. 2025;39(2):115-43.
11. Rahbar MR, Nezafat N, Morowvat MH, Savardashtaki A, Ghoshoon MB, Mehrabani-Zeinabad K, et al. Dissecting Uricase Immunogenicity: Unveiling the Role of Quaternary Epitopes through In Silico Analysis: Quaternary Epitope Insights in Uricase Immunogenicity. *Galen Med J*. 2025;14:e3634.
12. Mirza SS, Abbas AS, Mansoor D, Morowvat MH, ur Rehman H, Fatima A. Assessment of exoelectrogenic potential of microbial consortia of sewage sludge for bioelectricity generation. *Int J Env Sci Technol*. 2025.

13. Mirza SS, Akbar S, Ijaz MU, Morowvat MH, Ishaque A, Fatima K. Nutritional Health Connection of Algae and its Pharmaceutical Value as Anticancer and Antioxidant Constituents of Drugs. *Recent Pat Biotechnol.* 2025;19(1):19-34.
14. Sadeghi MM, Alipour S, Morowvat MH, Salehi MS, Das SS, Dehshahri A. Green Biosynthesized Selenium Nanoparticles Using Whole Cell and Cell Lysate of *Spirulina platensis*: Characterizations and In Vitro Wound Healing Studies. *BioNanoScience.* 2025;15(1).
15. Kiaghobadi F, Dehshahri A, Ghasemi Y, Morowvat MH. Emerging Methods in the Identification of Bacterial Respiratory Tract Pathogens. *Recent Pat Biotechnol.* 2025;19(3):198-209.
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17. Saraei ZP, Nowruzi B, Morowvat MH. Studying the effect of magnetic fields on biological activity of phycocyanin extracted from *Desmonostoc alborzicum*. *Microbe.* 2024;5.
18. Abdollahi S, Eslami M, Morowvat MH, Ghasemi Y. Structural insight into wild type of arginine deiminase protein and its three mutated versions in complex with arginine molecule: A computational approach. *Current Proteomics.* 2024;21:1-12.
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20. Mirmajidi SH, Irajie C, Savardashtaki A, Nezafat N, Morowvat MH, Ghasemi Y. Optimization of spore production in *Bacillus coagulans* using response surface methodology approach. *Appl Biochem Biotechnol.* 2024;196(11):7557-69.
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27. Tamis Z, Sadeghi F, Heydari A, Mirza SS, Morowvat MH. Potentials of Stem Cell Therapy in Patients Infected with COVID-19: A Systematic Review. *Recent Pat Biotechnol.* 2023.
28. Mohammadi Y, Morowvat M.H. Neural Prosthetics: Advancements and Ethical Consideration in Brain-Computer Interfaces. *Trends in Pharmaceutical Sciences.* 2023;9(4):287-90.
29. Sadeghi M, Cava C, Mousavi P, Sabetian S, Morowvat MH. Construction of Prognostic ceRNA Network Landscape in Breast Cancer to Explore Impacting Genes on Drug Response by Integrative Bioinformatics Analysis. *Letters in Drug Design & Discovery.* 2023;20:1-15.
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45. Dinpazhooh Z, Niknezhad SV, Fadaei F, Shaker S, Najafpour G, Ghasemi Y, et al. North by Southwest: Screening the naturally isolated microalgal strains from different habitats of Iran for various pharmaceutical and biotechnology applications. *Int J Microbiol.* 2022;2022.
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10. Negahdaripour, M., Nezafat, N., Eslami, M., Ghoshoon, M.B., Shoolian, E., Dehshahri, A., Erfani, N., Morowvat, M.H., Ghasemi, Y., A novel HPV prophylactic peptide vaccine, designed through immunoinformatics and structural vaccinology approach, Research Day of Pharmacy Students, December 31, 2017, Shiraz, Iran, (Poster Presentation).

11. Zarei, M., Nezafat, N., Morowvat, M.H., Dehshahri, A., Ghoshoon, M.B., Berenjian, A., Ghasemi, Y., Medium optimization for recombinant soluble arginine deiminase expression in *Escherichia coli* using response surface methodology, Research Day of Pharmacy Students, December 31, 2017, Shiraz, Iran, (Poster Presentation).
12. Mohseni, P., Morowvat, M.H., Exploiting RNA interference technology to enhance recombinant protein production, the 1st National Congress of Paramedical Students, March 3-4, 2016, Sari, Iran, (poster presentation).
13. Khademi, H., Morowvat, M.H., Ghasemi, Y., Exploitation of *Dunaliella salina* microalga for β -carotene and biomass production under sulfur starvation, The 14th Iranian Pharmaceutical Sciences Congress (IPSC 2015), December 21-24, 2015, Tehran, Iran, (poster presentation).
14. Sajadian, S.F., Morowvat, M.H., Ghasemi, Y., Studying the biomass and lipid production in *Chlorella vulgaris* under three different culture conditions, The 14th Iranian Pharmaceutical Sciences Congress (IPSC 2015), December 21-24, 2015, Tehran, Iran, (poster presentation).
15. Sobhanian, N., Morowvat, M.H., Stem cell therapy of vitiligo: Prospects and challenges, 1st Research Day of Pharmacy Students, International Branch, December 16, 2015, Shiraz, Iran, (Poster Presentation).
16. Aghaleh, M., Morowvat, M.H., Ashrafi, H., Potential applications of microalgae in cosmetics, 1st Research Day of Pharmacy Students, International Branch, December 16, 2015, Shiraz, Iran, (Poster Presentation).
17. Goharian, S., Morowvat, M.H., Ghasemi, Y., Phylogenetics analysis and investigation of antioxidant properties in three naturally isolated microalgae, 1st Research Day of Pharmacy Students, International Branch, December 16, 2015, Shiraz, Iran, (Poster Presentation).
18. Khademi, H., Morowvat, M.H., Ghasemi, Y., Exploitation of *Dunaliella salina* microalgae for β -carotene and biomass production under sulphur starvation, 1st Research Day of Pharmacy Students, International Branch, December 16, 2015, Shiraz, Iran, (Poster Presentation).
19. Sajadian, S.F., Morowvat, M.H., Ghasemi, Y., Studying the biomass and lipid production in *Chlorella vulgaris* under three different culture conditions, 1st Research Day of Pharmacy Students, International Branch, December 16, 2015, Shiraz, Iran, (Poster Presentation).
20. Fereidooni, A., Morowvat, M.H., Elahi, A., Ghasemi, Y., Investigation of antimicrobial effects of some probiotic strains in common vaginal infections, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 43 (Poster presentation).

21. Elahi, A., Morowvat, M.H., Fereidooni, A., Mohkam, M., Ghasemi, Y., Investigating the healing effects of two *Lactobacillus* strains in burn-induced topical infections, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 43 (Poster presentation).
22. Mousavi, P., Mostafavi-pour, Z., Morowvat, M.H., Nezafat, N., Zamani, M., Berenjian, A., Ghasemi, Y., Computational analysis of several signal peptides for the excretory Production of Reteplase in *E. coli*, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 21 (Poster presentation).
23. Negahdaripour, M., Nezafat, N., Hajighahramani, N., Rahmatabady, S.S., Morowvat, M.H., Ghasemi, Y., In silico investigation of different signal peptides for secretory Production of Interleukin-11 in *Escherichia coli*, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 21 (Poster presentation).
24. Hajighahramani, N., Nezafat, N., Rahmatabady, S.S., Negahdaripour, M., Morowvat, M.H., Ghasemi, Y., In silico subunit-vaccine design against Staphylococcus aureus, based on α -enolase and two surface antigenes, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 26 (Poster presentation).
25. Rahmatabady, S.S., Nezafat, N., Negahdaripour, M., Hajighahramani, N., Morowvat, M.H., Ghasemi, Y., In silico survey of catalytic domains of Cas9 enzyme in different bacterial species, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 26 (Poster presentation).
26. Navabzadeh Esmaeili, N., Morowvat, M.H., Ghasemi, Y., Studying the effects of phosphorus concentration on enhancing the biomass and β -carotene production in *Dunaliella salina* under nitrogen limitation, 19th Iranian Pharmacy Students Seminar, October 6-9, 2015, Shiraz, Iran, 36 (Poster presentation).
27. Entezar-Almahdi, E., Dehshahri, A., Sadeghpour, H., Morowvat, M.H., Preparation and Characterization of double domain Polyethyleneimine nanoparticle conjugated with Levothyroxine as a gene carrier for HepG2 cell line, Asian Nano Forum Conference, March 8-11, 2015, Kish Island, Iran, 130 (Poster Presentation).
28. Zarei, M., Morowvat, M.H., Nezafat, N., Ghoshoon, M.B., Ghasemi, Y., Arginine deiminase: Production and purification, Research Day of Pharmacy Students, January 2015, Shiraz, Iran, 15 (Poster Presentation).
29. Shaker, S., Nemati, A., Montazeri-Najafabady, N., Mobasher, M.A., Morowvat, M.H., Ghasemi, Y., Phytoremediation of urban immobilized green algae in batch cultures, Research Day of Pharmacy Students, January 2015, Shiraz, Iran, 26 (Poster Presentation).

30. Entezar-Almahdi, E., Dehshahri, A., Sadeghpour, H., Morowvat, M.H., Preparation and Characterization of double-domain Polyethyleneimine nanoparticle conjugated with Levothyroxine as a gene carrier, Research Day of Pharmacy Students, January 2015, Shiraz, Iran, 27 (Poster Presentation).
31. Morowvat, M.H., Babaeipour, V., Rajabi-Memari, H., Vahidi, H., Down-regulation of acetate pathway in *Escherichia coli* during recombinant protein production through simultaneous different engineering strategies, The 8th International Chemical Engineering Congress & Exhibition (ICHEC 2014), February 24-27, 2012, Kish, Iran, 08233, Oral presentation.
32. Morowvat, M.H., Babaeipour, V., Rajabi-Memari, H., Vahidi, H., Application of Box-Behnken Design in the optimization of fermentation conditions for *Escherichia coli* during recombinant human Interferon beta (rhINF- β) production, The 8th International Chemical Engineering Congress & Exhibition (ICHEC 2014), February 24-27, 2012, Kish, Iran, 08237, poster presentation.
33. Morowvat, M.H., Babaeipour, V., Rajabi-Memari, H., Vahidi, H., Down-regulation of acetate pathway through antisense RNA against *ackA* and *pta* in *Escherichia coli*: Improved beta interferon production, The 13th Iranian Pharmaceutical Sciences congress (IPSC 2012), September 4-7, 2012, Isfahan, Iran, P4-032, poster presentation.
34. Morowvat, M.H., Application of Systems Biology in Stem Cell Research, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010), August 2-5, 2010, Zanjan, Iran, poster presentation.
35. Morowvat, M.H., Nafissi-Varcheh, N., Quality by Design for Biopharmaceuticals, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010), August 2-5, 2010, Zanjan, Iran, poster presentation.
36. Morowvat, M.H., Nafissi-Varcheh, N., Application of Supercritical Fluids in Biopharmaceutical Production, The 12th Iranian Pharmaceutical Sciences Congress (IPSC 2010), August 2-5, 2010, Zanjan, Iran, poster presentation.
37. Raee, M.J., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Ghoshoon, M.B., Kazemi, A., Ebrahiminezhad, A.R., Cloning and expression of L-asparaginase gene of *Shigella dysenteriae* in *Escherichia coli*. The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 85, poster presentation.
38. Jani, M., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Ghoshoon, M.B., Kazemi, A., Biodiesel production from a naturally isolated strain of *Chlorella vulgaris*, The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 84, poster presentation.

39. Ghoshoon, M.B., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Ebrahiminezhad, A.R., Kazemi, A., Cloning, expression and Characterization of *Escherichia coli* BCCS 001 L-asparaginase II, The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 83, poster presentation.
40. Yavari, F., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Ghoshoon, M.B., Khoubani, S., Parvizi, R., Mardani, Z., PCR amplification of the molecular black box, 16S rRNA from three Cyanobacterial species, The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 79, poster presentation.
41. Khoubani, S., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Mosavi-Azam, S.B., Yavari, F., Ghoshoon, M.B., Fatty acid evaluation in a natural isolate of *Chlorella vulgaris*, The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 78, poster presentation.
42. Mardani, Z., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Raee, M.J., Ghoshoon, M.B., Parvizi, R., Nouri, F., Microalgal metabolisms of some monoterpenoids ketones by immobilized cells of *Chlorella vulgaris*, The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 77, poster presentation.
43. Chalangaran, Sh., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Raee, M.J., The first report of using *Desmodesmus* as a source of SCP, The 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran, 76, poster presentation.
44. Parvizi, R., Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Ghoshoon, M.B., Mardani, Z., Negintaji, N., 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, poster presentation.
45. Azimi, M., Tavallaei, O., Morowvat, M.H., Vahidi, H., The *Dictyostelium discoideum*, a model organism with great potential applications, The 1st student conference of pharmaceutical biotechnology students, December 17, 2008, Tehran, Iran.
46. Parasaei-Ghaderabadi, Kh., Ebrahiminezhad, A.R., Ghoshoon, M.B., Raee, M.J., Kazemi, A., Morowvat, M.H., Kafilzadeh, F., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., Screening of polyhydroxyalkanoates-producing bacteria from different environments, The 2nd International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.
47. Ebrahiminezhad, A.R., Ghoshoon, M.B., Raee, M.J., Kazemi, A., Parasaei-Ghaderabadi, Kh., Morowvat, M.H., Kafilzadeh, F., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., An Optimized Medium for Screening L-Asparaginase Producing *Escherichia coli*, The 2nd International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.

48. Kazemi, A., Ghoshoon, M.B., Raei, M.J., Ebrahimezhad, A.R., Parasaei-Ghaderabadi, Kh., Morowvat, M.H., Kargar, M., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., Isolation and Molecular Identification of Lipase Producing *Bacillus* spp. from the Maharlu Salt Lake in South of Iran, The 2nd International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.
49. Ghasemi, Y., Rasoul-Amini, S., Morowvat, M.H., Fatty acid evaluation of some naturally isolated microalgae, The 2nd International Student Conference of Biotechnology, November 15-17, 2008, Tehran, Iran.
50. Morowvat, M.H., Rasoul-Amini, S., Ghasemi, Y., Bioinformatic analysis of some naturally isolated microalgae, the 2nd Bioinformatic Conference of Iran, October 8-9, 2008, Tehran, Iran, (poster presentation).
51. Ardeshtir Rouhani Fard, Sh., Abedtash, H., Morowvat, M.H., Mohagheghzadeh, A., Ghasemi, Y., Analysis of the essential oil and 18S rRNA gene of a new chemotype of *Spartium junceum* L. 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 224 (poster presentation).
52. Kazemi, A., Kargar, M., Raei, M.J., Morowvat, M.H., Zarrini, G.R., Ghasemi, Y., Isolation and identification of halophilic lipase producing bacteria from The Maharlu Salt Lake in the south of Iran, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 86, (poster presentation).
53. Mardani, Z., Raei, M.J., Morowvat, M.H., Mohagheghzadeh, A., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., Characterization of antimicrobial activity and 16S rRNA gene of *Synechococcus nidulans* MCCC 008, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 85, (poster presentation).
54. Talebnia, N., Kazemi, A., Mousavi-Khorshidi, Sh., Morowvat, M.H., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., Screening, isolation and Characterization of protease producing microorganisms from the soil of The Fars province, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 85, (poster presentation).
55. Negintaji, N., Raei, M.J., Morowvat, M.H., Mohagheghzadeh, A., Rasoul-Amini, S., Ghasemi, Y., Microalgal metabolism of pinene by *Oscillatoria splendida* MCCC 019, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 84, (poster presentation).
56. Chalangaran, Sh., Raei, M.J., Morowvat, M.H., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., Characterization of antimicrobial activity and 16S rRNA gene of *Nostoc muscorum* MCCC 003,

- 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 84, (poster presentation).
57. Mousavi-Khorshidi, Sh., Kazemi, A., Ghoshoon, M.B., Morowvat, M.H., Zarrini, G.R., Rasoul-Amini, S., Ghasemi, Y., Characterization of halophilic amylase producing bacteria from the Maharlu Salt Lake, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 83, (poster presentation).
 58. Nouri, F., Raei, M.J., Morowvat, M.H., Shokravi, Sh., Rasoul-Amini, S., Ghasemi, Y., Metabolism of pulegone and Characterization of 18S rRNA gene in *Scenedesmus rubescens* MCCS 018, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 82, (poster presentation).
 59. Yavari, F., Ghoshoon, M.B., Morowvat, M.H., Mohagheghzadeh, A., Zarrini, G.R., 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, (poster presentation).
 60. Mosavi-Azam, S.B., Ghoshoon, M.B., Morowvat, M.H., 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, (poster presentation).
 61. Ghoshoon, M.B., Morowvat, M.H., Moshavash, M., Shokravi, Sh., Mohagheghzadeh, A., Rasoul-Amini, S., Ghasemi, Y., Metabolism of limonene and Characterization of 18S rRNA gene in *Chlorella vulgaris* MCCS 012, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 80, (poster presentation).
 62. Raei, M.J., Ostovan, Z., Morowvat, M.H., Shokravi, Sh., Mohagheghzadeh, A., Rasoul-Amini, S., Ghasemi, Y., Biotransformation of thymol, carveol and linalool by a natural isolate of *Oocystis pusilla*, 11th Iranian Pharmaceutical Sciences Conference (IPSC). August 18-21, 2008, Kerman, Iran, 80, (poster presentation).
 63. Nikbakht, M., Gholami, A., Mohagheghzadeh, A., Faridi, P., Morowvat, M.H., Abolhassanzadeh, Z., Ghasemi, Y., Analysis of volatiles and 18S rRNA of *Haplophyllum canaliculatum* in vitro cultures, PSE Young Scientists meeting, Future Trends in Phytochemistry: Compounds-Enzymes-Genes, Bad herrenalb, Germany, Mar, 26-29, SL26, (poster presentation).
 64. Ghasemi, Y., Morowvat, M.H., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Khalaj, A., Abolhassanzadeh, Z., Phylogenetic relationship among various strains of some naturally isolated microalgae from South of Iran based on 18S rRNA sequences, The first international Congress on Health Genomics and Biotechnology & The 5th National Biotechnology Conference

- & 4th Iranian Congress of Genetic Disorders & Disabilities, Tehran, Iran, Nov, 24-26, 2007, 10042, (poster presentation).
65. Zargaran, A., Mohagheghzadeh, A., Ghasemi, Y., Morowvat, M.H., The First International Congress of Medical Law in Iran, Medical Ethics in Ancient Persia, Tehran, Iran, Nov, 14-15, 2007, (Poster Presentation).
 66. Morowvat, M.H., Raee, M.J., Ghoshoon, M.B., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., *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, p540, (poster presentation).
 67. Ghasemi, Y., Morowvat, M.H., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., SCP and PCR amplification of 18S rRNA of *Dunaliella salina* isolated from Maharlu Salt Lake, The 9th Iranian Congress of Biochemistry & the 2nd International Congress of Biochemistry and Molecular Biology, Shiraz, Iran, Oct.29-Nov, 1, 2007, p539, (poster presentation).
 68. Khoubani, S., Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Bioconversion of androst-1,4-dien-3,17 dione (ADD) by *Scenedesmus obliquus*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E529, (poster presentation).
 69. Negintaji, N., Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Bioconversion of progesterone by the paddy field cyanobacterium *Anacystis nidulans*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E527, (poster presentation).
 70. Nouri, F., Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Production of prednisolone using *Chlamydomonas reinhardtii*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E518, (poster presentation).
 71. Parvizi, R., Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, S., Progesterone side-chain cleavage by *Oocystis pusilla*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E528, (poster presentation).
 72. Mosavi Azam, S.B., Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Side-chain cleavage hydrocortisone by a natural isolate of *Oocystis pusilla*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E538, (poster presentation).
 73. Ghoshoon, M.B., Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Characterization of antimicrobial activity and 16S rRNA gene of *Nostoc*

- muscorum*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E506, (poster presentation).
74. Morowvat, M.H., Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Single cell protein and PCR amplification of 18S rRNA gene of *Chlorella vulgaris*, The 13th Seminar of Iranian Pharmacy Students, November, 1-3, 2007, Tabriz, Iran, E505, (poster presentation).
 75. Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Morowvat, M.H., Abolhassanzadeh, Z., SCP and PCR amplification of 18S rRNA of naturally isolated *Chlamydomonas reinhardtii*, the first international workshop on microalgal biotechnology, 9-10 September 2007, Tabriz, Iran, 4 (poster presentation).
 76. Ghasemi, Y., Rasoul-Amini, S., Mohagheghzadeh, A., Shokravi, Sh., Morowvat, M.H., single cell protein and PCR amplification of 18S rRNA gene of *Chlorella vulgaris*, the 4th European Congress of phycology, July, 23-27, 2007, Oviedo, Spain, P3C-3, (poster presentation).
 77. Morowvat, M.H., Ghasemi, Y., Mohagheghzadeh, A., Rasoul-Amini, S., Microalgal toxins. The 9th Iranian Congress of Toxicology, May 15-17, 2007, Shiraz, Iran, 12, (poster presentation).
 78. Zargar, A., Rajabli, N., Faridi, P., Morowvat, M.H., Mohagheghzadeh, A., Ghasemi, Y., Some Points from Pharmaceutical Sciences in Ancient Iran. The 6th Research Day of Pharmacy Students, January 2, 2007, Shiraz, Iran, 39 (Poster Presentation).
 79. Afifi, S., Peymani, P., Morowvat, M.H., Mohagheghzadeh, A., Rasoul-Amini, S., Ghasemi, Y., Production and Evaluation of Single Cell Protein from Naturally Isolated *Scenedesmus* Sp. And *Chlorella vulgaris*. The 6th Research Day of Pharmacy Students, January 2, 2007, Shiraz, Iran, 30 (Poster Presentation).
 80. Hourangh, M., Morowvat, M.H., Shokravi, Sh., Mohagheghzadeh, A., Rasoul-Amini, S., Ghasemi, Y., Application of Microalgae in Nanobiotechnology. The 6th Research Day of Pharmacy Students, January 2, 2007, Shiraz, Iran, 27 (Poster Presentation).
 81. Raei, M.J., Morowvat, M.H., Ghoshoon, M.B., Ghasemi, Y., Mohagheghzadeh, A., Shokravi, Sh., PCR amplification of cyanobacterial 16S rRNA gene isolated from south of Iran. The 12th Seminar of Iranian Pharmacy Students, November 1-3, 2006, Sari, Iran, 39 (poster presentation).
 82. Moshavash, M., Ostovan, Z., Morowvat, M.H., Ghasemi, Y., Mohagheghzadeh, A., Biotransformation of thymol by *Chlorella vulgaris* isolated from paddy-fields of Fars province. The 12th Seminar of Iranian Pharmacy Students, November 1-3, 2006, Sari, Iran, 54 (poster presentation).
 83. Moradian, A., Ghasemi, Y., Mohagheghzadeh, A., Shokravi, Sh., Morowvat, M.H., Antifungal and antibacterial activity of microalgae collected from paddy-fields of Fars province. 10th Iranian

- Pharmaceutical Sciences Conference (IPSC). August 21-24, 2006, Tehran, Iran, 92 (poster presentation).
84. Mohagheghzadeh, A., Morowvat, M.H., Ghasemi, Y., Shams Ardekani, M.R., A survey on Iranian ancient medicine. The 11th Seminar of Iranian Pharmacy Students, November 9-11, 2005, Shiraz, Iran, 21 (poster presentation).
85. Morowvat, M.H., Mohagheghzadeh, A., Ghasemi, Y., Abedtash, H. Research on traditional Iranian physicians. The 5th research day of pharmacy students, faculty of pharmacy, January 2, 2004, Shiraz University of medical sciences, Shiraz, Iran, 14 (poster presentation).

3.5) Research Proposals

1. Morowvat, M.H., Study of the effects of *ackA*, *pta* and *poxB* inhibition by antisense RNA on acetate excretion and recombinant beta interferon expression in *Escherichia coli*. No. 94-01-36-10599, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
2. Morowvat, M.H., Ghasemi, Y., Vector design, construction, cloning and expression of human interleukin-1 receptor antagonist in *Escherichia coli* BL21 (DE3). No. 95-01-36-11913, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
3. Morowvat, M.H., Ghasemi, Y., Enhancement of human interleukin-1 receptor antagonist production in high cell density cultivation of *Escherichia coli* using fed-batch cultivation strategy. No. 95-01-36-11914, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
4. Morowvat, M.H., Ghasemi, Y., Culture medium optimization to maximize the human interleukin 1 receptor antagonist production and minimize the acetate excretion. No. 95-01-36-11915, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
5. Morowvat, M.H., Ghasemi, Y., Aghaleh, M., Evaluating the cytotoxicity of monolayered and multilayered carbon nanotubes as a scaffold for human chondrocyte stem cell precursors and optimizing the operating conditions. No. 1396-01-36-14521, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
6. Morowvat, M.H., Farshad, O., Evaluating the cytotoxicity of monolayered and multilayered carbon nanotubes on three different human cell lines. No. 1396-01-36-14612, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
7. Morowvat, M.H., Ghasemi, Y., Metabolic changes of recombinant *Escherichia coli* BL21 (DE3) during overexpression of recombinant human interleukin 1 receptor antagonist in HCDC. No. 95-01-36-11916, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.

8. Morowvat, M.H., Cloning, expression and enhancement of recombinant human teriparatide production in *Escherichia coli*. No. 1396-01-36-16033, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
9. Morowvat, M.H., Evaluation of single-chain variable fragment ranibizumab in *Escherichia coli* prokaryotic host. No. 1396-01-36-15981, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
10. Morowvat, M.H., Ghasemi, Y., Abdollahi, E., Irajie, C., Laboratory scale production of the biosimilar form of pegylated uricase (Pegloticase). No. 1396-01-106-16312, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
11. Morowvat, M.H., Culture medium optimization to maximize the recombinant human teriparatide production and minimize the acetate excretion. No. 1396-01-36-16039, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
12. Morowvat, M.H., Bioengineered host cells through CRISPR-Cas9 genome editing system as the next-generation of cell factories. No. 97-01-36-16814, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
13. Morowvat, M.H., Entezar-Almahdi, E., Functionalizing carbon nanotubes as a successful tool for promoting the pharmacokinetic aspects. No. 97-01-36-16808, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
14. Morowvat, M.H., Ghasemi, Y., Studying the effects of different phosphorous concentrations on biomass and β -carotene production in nitrogen starved *Dunaliella salina*. No. 95-01-36-11911, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
15. Morowvat, M.H., Ghasemi, Y., Effect of sulfur starvation on growth rate, biomass and lipid contents in the green microalgae *Scenedesmus obliquus*. No. 95-01-36-11912, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
16. Morowvat, M.H., Roointan, A., Road to future of systems biotechnology: CRISPR-Cas mediated metabolic engineering for recombinant protein production. No. 94-01-36-10630, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
17. Morowvat, M.H., Ghasemi, Y., Goharian, S., Investigation of antioxidant properties of three naturally isolated microalgae: Identification and bioinformatic evaluation of the most efficient strain. No. 94-01-103-10726, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
18. Morowvat, M.H., Ghasemi, Y., Khademi, H., Effect of nitrogen and sulphur starvation on beta carotene production and lipid profile of *Dunaliella salina*. 94-01-103-10728, Research deputy, Shiraz University of Medical Sciences, Shiraz, Iran.

19. Morowvat, M.H., Ghasemi, Y., Sajadian, S.F., Investigation of autotrophic, heterotrophic and mixotrophic culture on lipid and biomass content in *Chlorella vulgaris*. No. 94-01-103-10730, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
20. Morowvat, M.H., Enhancement of recombinant human interferon- β Production in high cell density cultivation of *Escherichia coli*. No. 94-01-36-10598, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
21. Morowvat, M.H., Ghasemi, Y., Shaker, S., Effect of nutrient starvation on beta carotene production and lipid profile of *Dunaliella salina*. No. 94-01-36-9445, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
22. Morowvat, M.H., Ghasemi, Y., The impacts of nitrogen starvation on expression profiles of genes involved in triacylglycerol (TAG) biosynthesis in *Chlamydomonas reinhardtii*. No. 93-01-36-7856, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
23. Morowvat, M.H., Ghasemi, Y., Developing a robust method for quantification of β -carotene in *Dunaliella salina* biomass using HPLC method. No. 93-01-36-7943, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
24. Morowvat, M.H., Ghasemi, Y., Fourier Transform Infrared (FTIR) spectroscopy for rapid determination of lipid accumulation under sulfur limitation in *Chlamydomonas reinhardtii* microalga. No. 93-01-36-7939, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
25. Morowvat, M.H., Ghasemi, Y., Effects of spray drying conditions on the β -carotene content of powdered *Dunaliella salina*. No. 93-01-36-7940, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
26. Morowvat, M.H., Ghasemi, Y., Evaluation of antioxidant properties of some naturally isolated microalgae Identification and Characterization of the most efficient strain. No. 93-01-36-7941, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
27. Morowvat, M.H., Ghasemi, Y., Medium optimization by artificial neural networks for maximizing the triglycerides-rich lipids from biomass of *Chlorella vulgaris*. No. 93-01-36-7942, Research deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
28. Morowvat, M.H., Ghasemi, Y., Effects of nitrogen concentration and media replacement on cell growth and lipid production in photosynthetic microalga *Chlorella vulgaris*. No. 93-01-36-7728, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
29. Morowvat, M.H., Ghasemi, Y., Maximizing biomass and lipid production in heterotrophic culture of *Chlamydomonas reinhardtii*. No. 93-01-36-7748, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.

30. Morowvat, M.H., Ghasemi, Y., Optimisation of culture medium for enhanced biomass production by *Dunaliella salina*. No. 93-01-36-7749, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
31. Morowvat, M.H., Ghasemi, Y., Screening of some naturally isolated microalgal strains for polyunsaturated fatty acids (PUFA) production. No. 93-01-36-7750, Research Deputy, Shiraz University of Medical Sciences, Shiraz, Iran.
32. Morowvat, M.H., Vahidi, H., Babaeipour, V., Rajabi-Memari, H., Study of the effects of *ackA* and *pta* inhibition by antisense RNA on acetate excretion and recombinant beta interferon expression in *Escherichia coli*, No. 1391-1-94-9518, Research deputy, Faculty of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
33. Morowvat, M.H., Vahidi, H., Babaeipour, V., Enhancement of recombinant human interferon- β Production in high cell density cultivation of *Escherichia coli* including RNA antisense of *ackA* and *pta* genes, No. 1391-1-94-9557, Research deputy, Faculty of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
34. Morowvat, M.H., Determination of growth kinetics of *Escherichia coli* BL21 (DE3) during interferon-beta Production, No. 1391-1-150-9422, Student Research Committee, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
35. Morowvat, M.H., Down-regulation of acetate production using antisense RNA technology in *Escherichia coli*, No. 1391-1-150-9404, Student Research Committee, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
36. Morowvat, M.H., Enhancement of recombinant human interferon- β Production in high cell density cultivation of *Escherichia coli* using metabolic engineering method, No. 1391-1-150-9413, Student Research Committee, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
37. Morowvat, M.H., Application of different methods to regulate acetate production in *Escherichia coli* during recombinant protein production, No. 1391-1-150-9415, Student Research Committee, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
38. Morowvat, M.H., No. 1391-1-150-9420, Design and construction of a general plasmid containing antisense RNA against *ackA* and *pta* in *Escherichia coli*. Student Research Committee, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

4) Workshops:

1. EndNote, July 11, 2012, Tehran, Iran.

2. Writing and Publishing a Scientific Paper, July 10, 2012, Tehran, Iran.
3. IPM-NUS Workshop on Computational Biology, April 5-7, 2011, Tehran, Iran.
4. Gene Delivery. (January 29, 2009). Tehran, Iran
5. PCR amplification and electrophoresis of small subunit nuclear rRNA gene of microorganisms. December 25, 2007, Shiraz, Iran (as lecturer).
6. Introduction to medical databases, December 14, 2007, Shiraz, Iran.
7. Two-dimensional electrophoresis and proteomics, November 27-29, 2007, Tehran, Iran.
8. Principles and Usage of Microarray technique in Molecular Biology, October 29-November 1, 2007, Shiraz, Iran.
9. Advance methods in DNA & RNA electrophoresis, October 29-November 1, 2007, Shiraz, Iran.
10. Two-Dimensional Electrophoresis and IEF, October 29-November 1, 2007, Shiraz, Iran.
11. Real-Time PCR, October 29-November 1, 2007, Shiraz, Iran.
12. Bioinformatics and its Application in Biotechnology, October 23-27, 2007, Tabriz, Iran.
13. The first International Workshop on Microalgal Biotechnology, September 9-10, 2007, Tabriz, Iran.

5) Laboratory and Technical skills:

- PCR, Gel electrophoresis, SDS PAGE, Gel doc.
- DNA and RNA extraction, Plasmid extraction, RFLP, Transformation, Cloning
- Cell culture of microalgae, some bacteria, and some mammalian cells
- Scale-up of recombinant proteins Production using bioreactor
- Medium and strain optimization for recombinant protein production
- Isolation of microorganisms from nature and screening them for the Production of bioactive compounds
- Gram staining of bacteria
- 16S rRNA and 18S rRNA amplification of microalgae and plants and some bacteria
- Application of bioinformatics in biotechnology
- Extraction of lipids from microalgae, esterification, and detection of them using GC-MS apparatus

- Antimicrobial activity, MIC, and composition of essential oils of plants using GC/MS apparatus
- Common laboratory skills (P.H. meter, Spectrophotometry, Centrifuge ...)
- Computer-based skills (Microsoft office word, PowerPoint, Publisher, Photoshop ...)
- Language-based skills (professional in English, expert in German, acquaintance with Old Persian languages).

6) Activities:

- Member of the editorial committee of the Microbial Fuel Cell, July 2010-now.
- Member of the Iranian Journal of Pharmaceutical Research (IJPR) editorial committee, January 2010-now.
- Member of the editorial committee of the Biofuel Research Journal, August 2014-now.
- Member of the referee committee of the 14th seminar of Iranian pharmacy students, February 11-14, 2009, Ahvaz, Iran.
- Member of the referee committee of the ^{first} global Student Scientific Research Congress of regional cooperative committees-west division, March 11-13, 2009, Khoram Abad, Iran.
- Member of the 10th Students' International Conference on Biomedical and Interdisciplinary Research (SICOBAIR) referee committee, May 14-16, 2009, Tehran, Iran.
- Member of Research committee of students, Shiraz University of Medical Sciences, 2007-8.
- Member of the 9th Iranian Congress of Toxicology executive committee, May 15-17, 2007, Shiraz, Iran.
- Member of the executive committee of the 6th Research Day of Pharmacy Students, January 2, 2007, Shiraz, Iran.
- Member of the executive committee of the university cultural week, December 1-6, 2006.
- Member of the executive committee of the 11th Seminar of Iranian Pharmacy Students, November 9-11, 2005, Shiraz, Iran.
- Member of the editorial committee of Ahouraii magazine, 2004-5.

7) Awards:

- Awarded prize for the best elite researcher in 4th Congress of Iran's National Elites, Oct 2010, Tehran, Iran.
- Awarded prize for the best researcher student in 15th Razi Research Festival on Medical Sciences, Jan 2010, Tehran, Iran.
- Awarded prize for the best researcher student in Shahid Beheshti University of Medical Sciences, Dec 2008, Tehran, Iran.
- Awarded prize for the best poster presentation at the 11th Seminar of Iranian Pharmacy Students, Nov 9-11, 2005, Shiraz, Iran.

8) Membership:

- Iran's National Elites Foundation
- Medical Council of Islamic Republic of Iran
- Iranian Society of Bioinformatics
- Iranian Society of Biotechnology

9) Research Interests:

- Metabolic and Bioprocess Engineering of *Escherichia coli*
- Systems and Synthetic Biology
- Microalgal Biotechnology
- Pharmaceutical Biotechnology
- Microalgal Biofuels
- Monoclonal Antibodies Production

10. Work Experiences:

- Technical Assistant at Sina Darou Pharmaceutical Company

- Visitor researcher at CinnaGen Pharmaceutical Biotechnology Company
- Visitor researcher at Zist Darou Danesh Pharmaceutical Biotechnology Company
- Novel Technologies Advisor at Shafa Pharmed Pharmaceutical Biotechnology Company
- Scientific Advisor at Iranian Green Future (Algomed®) Pharmaceutical Company

11. Teaching Experiences:

- Pharmaceutical Biotechnology, to Pharmacy students, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-Now.
- Biological Products, to Pharmacy students, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-now.
- Fundamentals and Principles of Engineering in Medical Biotechnology, to Ph.D. students of Medical Biotechnology, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-2021.
- Biosafety, to Ph.D. students of Medical Biotechnology, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, Iran; 2015-2018.
- Nanobiotechnology, to Ph.D. students of Pharmaceutical Biotechnology, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-now.
- Cell Culture, to Ph.D. students of Pharmaceutical Biotechnology, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-now.
- Cellular and Molecular Biology, to Ph.D. students of Pharmaceutical Biotechnology, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-now.
- Biology and Genetic Engineering, to Ph.D. students of Pharmaceutical Biotechnology, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-now.
- Cellular and Molecular Toxicology, to Ph.D. students of Toxicology, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2014-2020.
- Quality Control of Therapeutics, to Ph.D. students of Pharmaceutics, School of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran; 2015-now.

12. Supervised Theses and Dissertations:

- Pharm. D. students' theses, 40.
- Ph.D. Students, 20
- DDS Students, 3
- MSc students, 4