

Maral Barzegar-Amini

(Scopus/Scholar h-index: 8/11)



Sex Female | Date of birth
09/11/1985 | Nationality Iranian |
Marital Status Married

Contact

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Languages

Persian – Mother Tongue

English – B2

IELTS Overall: 6

Reading: 6 Listening: 7

Speaking: 6 Writing: 5.5

Azerbaijani – B1

German – A2

Inventions

- Herbal Anti-Diabetic
Toothpaste (Under Review)
- Blood Coagulant Powder of
HIVA (Animal phase)

Summary:

I have seventeen years of experience as a research assistant, scientific writer, and lab supervisor at Mashhad University of Medical Sciences, one of Iran's high-ranked universities.

Research Interests:

- Virology
- Immune Responses against Viruses
- Host-Pathogen Interactions
- Immunology
- Respiratory Viruses
- Biochemistry

Education:

Sep. 2011-
Jun. 2016

Master of science (MSc.):

Biology-Biochemistry

University: Payame Noor University of Mashhad (PNUM)

Institute: Ministry of Science, Research, and Technology

GPA: 16.37/20.00 – 3.35/4.00

Thesis: Serum vitamin E status influencing factors among
35-64 years old Mashhad population: A population-
based cohort study

Supervisor: Prof. Dr. Majid Ghayour-Mobarhan

Sep. 2003-
Feb. 2007

Bachelor of Science (BSc.):

Biology-Microbiology

University: Islamic Azad University of Gorgan (IAUG)

Institute: Ministry of Science, Research, and Technology

GPA: 15.62/20.00 – 3.27/4.00

Core Courses:

- Immunology: 17.5/20
- Microbiology I and II: 16.2/20
- Bacteria: 19.5/20
- Biotechnology: 16.62/20
- Membrane Biochemistry: 17.2/20
- Genetics I and II: 16.5/20
- Applied Microbiology: 16.5/20
- Mycology: 19.4/20
- Biochemistry II: 17/20
- Hormones Biochemistry: 17/20

Honors & awards:

- Qualified to study in an online course of "Vaccines and Viral Immunology" which will held on Harvard Medical School, Boston, USA. (Jan 9, 2024 to March 22, 2024)
- Best COVID-19 Project reward at "Research and Technology Festival of Mashhad University of Medical Sciences, Khorasan Razavi Province, Iran (Jan 2022)
- Honored to be a member of Allergy Research Center, Mashhad University of Medical Sciences, Mashhad, Iran. (2019-now)
- Honored to be in the Young Researchers and Elite Club of IAU (2005-2016)
- Honored to be a member of an Central association of Iranian inventors (2008-2009)
- Ranked Third in Kowsar High-school in National Scientific Future Builders Competition and 40 in Mashhad, Iran and first in English language course in Iran. (2002-2003)
- Honored to be in the National Organization for the Development of Brilliant Talents (SAMPAD) in elementary school (1991-1996)

Computer skills

- Microsoft Office
- Endnote
- SPSS
- GraphPad Prism
- Photoshop
- Website design
- Who net

Music skills

- Solfeggio 1
- Solfeggio 2
- Classical Guitar
- Flamenco Guitar

Sports skills

- Taekwondo Red belt
- Futsal

Interests and hobbies

- Research
- Photography
- Music
- Sport
- Painting

Volunteer activities

- **Reviewer** for Scientific Reports (ISI, IF=4.3) - **One** article Biotechnology and Environmental Science (RBES) Journal (EBSCO) - **Three** article
- **Editorial board** of the Research in Biotechnology and Environmental Science (RBES) Journal **2023-now**
- **191** COVID-19 telephone answering system. **Oct 2020**

Research and Work Experiences:

Laboratory Internship | Mashhad University of Medical Sciences

Ghaem hospital laboratory (2007)

Emam Reza hospital laboratory (2005)

Responsibilities: Microbiology, Serology, BK, Immunology Tests

Research Assistant, Lab Supervisor, Journal Expert | Mashhad University of Medical Sciences

1. Allergy Research Center, one of the global network of GA2LEN UCARE centers in Berlin (2018-now), Cardiovascular Research Center (2007-2018), Biotechnology Research Center (2015-2018), Stem Cell Committee (2014-2015), Medical Genetics Research Center (2013-2014)

Responsibilities: Laboratory Management, writing and editing proposals, writing and editing manuscripts, submission in related journals, data analysis

2. Journal of Fasting and Health (2011-2013)

Responsibilities: receiving and sending articles to the reviewers, editor and authors, improving the journals index, edition the manuscripts

3. Zamen Salamati Institute, Member of WHO, Global health workforce alliance, COPE, WAME (2009-2011)

Laboratory Skills:

Fluent with Chemicals and Their Reactions, Lab Maintenance and Safety, Routine Microbiology Tests, DNA and RNA Extraction from Blood & Tissue, Electrophoresis, Cell Culture, HPLC, and related Troubleshooting, Routine Serology Tests, Elisa Test, and Related Troubleshooting, Nephelometry Method, Protein Extraction, Western Blotting, Dot Blotting, Chromatography, Primer and Probe Design, PCR, Real-Time PCR

Certifications:

- **FDA Clinical Investigator Training Course.** U.S. Food and Drug Administration. (December 6-7, 2023)
- **Laboratory Animal Working License**, Mashhad University of Medical Sciences, Mashhad, Iran (May 23-25, 2023)
- **Laboratory workshops** in Mashhad University of Medical Sciences, Mashhad, Iran
Different types of microbial media and their quality of control (23 Jul 2023), Urine Biochemistry (12 Jul 2023), Eliza, quality control methods and error management (03 Sep 2022), Laboratory challenges in interpreting the results of hormonal tests (17 Oct 2022), DNA and RNA extraction (11 Nov 2020), Cell therapy (02 Dec 2020), Inherited metabolic diseases (12-13 Nov 2019), Principles of cleaning, disinfecting and sterilizing the laboratory environment (07 Aug 2017), Types of diabetes, methods of diagnosis and treatment (03 Aug 2017), Management of toxic and biological waste substances in research laboratory (18 Jun 2016), Quality control in research laboratory (11 Aug 2016), Introduction to cell culture (15-19 Nov 2014),

Research Workshops in Mashhad University of Medical Sciences, Mashhad, Iran

- Knowledge translation (09 Jan 2021), Innovative business and start-ups (03 Jan 2021), Information security and enterprise networking (10-24 Jul 2019), Research methodology 2 (Advanced) (28 Jun 2017), Search strategy for systematic review articles (07-10 Oct 2017), Introduction to Photoshop software (27 Jul 2017), Introduction to research article types (06-08 Sep 2016), Introduction to scientific databases (03-04 Aug 2016), Introduction to bias types, odds and ratio (17 Jul 2016), Elementary SPSS (31 Oct 2015- 07 Nov 2015), Ethics in research publications workshop (02 Jun 2011), Endnote X3 workshop (29 Aug 2010)
- **ICDL Certificate**, Technical and Vocational Training Organization, Mashhad, Iran (2014)
 - **The Second Experimental IVF Workshop**, Yazd, Iran (2006)

Papers (Scholar Citations: 712)

1. **Barzegar-Amini M†**, Mahmoudi M†, Dadgarmoghaddam M, Farzad F, Jabbari-Azad F *. Comparison of Serum Total IgA Levels in Severe and Mild COVID-19 Patients and Control Group. *Journal of Clinical Immunology*. 2022 Jan 1:1-9. DOI: <https://doi.org/10.4121/15086301>. (ISI-IF=8.3),
2. **Barzegar-Amini M**, Aboutorabi R, Basiri R. Possibility of Red Blood Cell changes after COVID-19 Pandemic. *Research in Biotechnology and Environmental Science*. 2022; 1(2): 54-55. DOI: <http://dx.doi.org/10.58803/rbes.v1i2.9>.
3. Nabavizadeh SH, Moghtaderi M, Alyasin S, Esmaeilzadeh H, Hosseini Teshnizi S, Jabbari-Azad F, **Barzegar-Amini M**,, Javidi Alesaadi S. Epidemiology, Sociodemographic Factors and Comorbidity for Allergic Rhinitis, Asthma, and Rhinosinusitis Among 15 to 65-year-Old Iranian Patients. *Med J Islam Repub Iran*. 2022 (5 Nov);36:128. DOI: <http://dx.doi.org/10.47176/mjiri.36.128>. (Pubmed)
4. Mohammadi A, Sahebkar A, Iranshahi M, **Amini M**, Khojasteh R, Ghayour-Mobarhan M, Ferns GA. Effects of supplementation with curcuminoids on dyslipidemia in obese patients: a randomized crossover trial. *Phytotherapy Research*. 2013 Mar;27(3):374-9. DOI: <http://dx.doi.org/10.1002/ptr.4715>. (ISI-IF=2.068),
5. Parizadeh SM, Azarpazhooh MR, Moohebati M, Nematy M, Ghayour-Mobarhan M, Tavallaie S, Rahsepar AA, **Amini M**, Sahebkar A, Mohammadi M, Ferns GA. Simvastatin therapy reduces prooxidant-antioxidant balance: results of a placebo-controlled cross-over trial. *Lipids*. 2011 Apr;46(4):333-40. DOI: <http://dx.doi.org/10.1007/s11745-010-3517-x>. (ISI-IF=2.129),
6. Delui MH, Yari M, Khouyinezhad G, **Amini M**, Bayazi MH. Comparison of cardiac rehabilitation programs combined with relaxation and meditation techniques on reduction of depression and anxiety of cardiovascular patients. *The open cardiovascular medicine journal*. 2013;7:99. DOI: <http://dx.doi.org/10.2174/1874192401307010099>. (Pubmed)
7. **Barzegar-Amini M**, Khorramruz F, Ghazizadeh H, Sahebi R, Mohammadi-Bajgyran M, Mohaddes Ardabili H, Tayefi M, Darroudi S, Moohebati M, Heidari-Bakavoli A, Mohammadi A, Sadeghnia HR, Ferns GA, Javad Hoseini S, Ghayour Mobarhan M. Association between serum Vitamin E concentrations and the presence of Metabolic Syndrome: A population-based cohort study. *Acta Biomed*. 2021 Jul 1;92(3):e2021047. DOI: 10.23750/abm.v92i3.9173. (Pubmed)
8. **Barzegar-Amini M**, Ghazizadeh H, Seyed SMR, Sadeghnia HR, Mohammadi A, Hassanzade-Daloe M, Barati E, Kharazmi-Khorassani S, Kharazmi-Khorassani J, Mohammadi-Bajgiran M, Tavallaie S, Ferns GA, Mouhebati M, Ebrahimi M, Tayefi M, Ghayour-Mobarhan M. Serum vitamin E as a significant prognostic factor in patients with dyslipidemia disorders. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*. 2019 Jan-Feb;13(1):666-671. DOI: <http://dx.doi.org/10.1016/j.dsx.2018.11.034>. (Pubmed)
9. Ahoon M, Farid-Hosseini R, Tehrani H, Rafat-Panah H, Ahanchian H, Yousefzadeh H, Abdolrahim Rezaee S, **Barzegar-Amini M**, Jabbari-Azad F *. Evaluation The Effect of Supplements containing Vitamin D and Trace Elements in Patients with Moderate to Severe Asthma. *Reports of Biochemistry and Molecular Biology*. (ISI, accepted, impress)
10. Bakhshae M, **Barzegar-Amini M**, Motedayen Z, Khojasteh-Taheri R, Rafiee M, Amini M, Layegh P, Hashemzadeh K, Omidvar D, H Hwang P, Hosseinpour M. Olfactory Dysfunction in Patients Infected with 2019 Novel Coronavirus. *Iranian Journal of Otorhinolaryngology*. 2021 May 1;33(3):163-71. DOI: 10.22038/ijorl.2021.51614.2750. (ISI)
11. **Barzegar-Amini M***, Motedayen Z*, Khojasteh-Taheri R, Motedayen F, Layegh P, Noorollahian M, Amini M, Akhlaghi S, Bakhshae M. Clinical Features in Patients infected with 2019 Novel Coronavirus. (impress)
12. Khalighi N, Jabbari-Azad F, **Barzegar Amini M**, Tavakkol-Afshari J, Layegh P, Salari R. Impact of Althaea Officinalis Root and Leaves Extract in Patients with Atopic Eczema: A Double-Blind Randomized Controlled Trial. *Clinical Phytoscience*. 2021 Dec;7(1):1-6. DOI: <https://doi.org/10.1186/s40816-021-00306-z>. (EMBASE)
13. Hassanzadeh Daloe S, Nakhaei N, Hassanzadeh Daloe M, Mahmoodi M, **Barzegar-Amini M**, Ghadam Soltani T. Evaluation of Growth Differentiation Factor-15 in Patients with or without Coronary Artery Disease. *Acta Biomed*. 2021 May 12;92(2):e2021051. DOI: 10.23750/abm.v92i2.9267. (Pubmed)
14. Ghayour-Mobarhan M, Vakili R, Safarian M, Dahri M, **Amini M**, Abrishami M, Ferns G, Nematy M. Comparison of The Effect of Ketogenic Diet and Low Caloric Diet On Weight Loss in Iranian Obese and Overweight Children. *Journal of Nutrition, Fasting and Health*. 2018;6(4):174-81. DOI: 10.22038/jnfh.2018.33630.1126. (EBSCO)
15. Chamanian S, Maleki M, Rohani A, **Amini M**. Hematologic abnormalities in cyanotic congenital heart disease patients. *Journal of Cardio-Thoracic Medicine*. 2015;3(1):270-2. DOI: (EBSCO)
16. Rahsepar AA, Mirzaee A, Moodi F, Moohebati M, Tavallaie S, Khorashadizadeh F, Mottahedi B, Esfahanizadeh J, Azari A, Khojasteh R, Mousavi S, Paydar R, **Amini M**, Ghayour-Mobarhan M, Ferns GA, Sahebkar A. Malondialdehyde-modified LDL IgG antibody levels and indices of cardiac function in valvular heart and coronary artery disease patients. *Medical Principles and Practice*. 2015;24(5):424-31. DOI: <http://dx.doi.org/10.1159/000431178>. (ISI-IF=1.159)

17. Kazemi M, Nematy M, Norouzy A, **Amini M**, Mohajeri SA, Razavi A. Ramadan fasting: Evidence or expert opinion? Results of preliminary studies. *Journal of Fasting and Health*. 2013;1(2):58-65. DOI: (ISC)
18. Emadzadeh MR, Alavi MS, Soukhtanloo M, Mohammadpour T, Rahsepar AA, Tavallaie S, Khojasteh R, Paydar R, **Amini M**, Parizadeh SM, Akhlaghi S. Changes in small dense low-density lipoprotein levels following acute coronary syndrome. *Angiology*. 2013 Apr;64(3):216-22. DOI: <http://dx.doi.org/10.1177/0003319712441855>. (ISI-IF=1.647)
19. Delui MH, Fatehi H, Manavifar M, **Amini M**, Ghayour-Mobarhan M, Zahedi M, Ferns G. The effects of Panax ginseng on lipid profile, pro-oxidant: Antioxidant status and high-sensitivity c reactive protein levels in hyperlipidemic patients in Iran. *International journal of preventive medicine*. 2013 Sep;4(9):1045. DOI: PMID: 24130946. (ISI)
20. Rahsepar AA, Mirzaee A, Moodi F, Moohebbati M, Tavallaie S, Khorashadizadeh F, Mottahedi B, Esfahanizadeh J, Azari A, Sajjadian M, Khojasteh R, Paydar R, Mousavi S, **Amini M**, Ghayour-Mobarhan M, Ferns GA. Prooxidant-antioxidant balance and cardiac function in patients with cardiovascular disease following cardiac surgery. *Journal of heart valve disease*. 2013 May;22(3):408-17. DOI: PMID: 24151768. (ISI-IF=1.071)
21. Rahsepar AA, Mirzaee A, Moodi F, Moohebbati M, Tavallaie S, Khorashadizadeh F, Eshraghi A, Alavi MS, Zarrabi L, Sajjadian M, **Amini M**, Khojasteh R, Paydar R, Mousavi S, Ghayour-Mobarhan M, Ferns GA. Changes in anti-heat shock protein 27 antibody and C-reactive protein levels following cardiac surgery and their association with cardiac function in patients with cardiovascular disease. *Cell Stress and Chaperones*. 2013 Jan 1;18(1):65-74. DOI: <http://dx.doi.org/10.1007/s12192-012-0358-y>. (ISI-IF=2.484)
22. Hassanzade Deluei M, Shakeri MT, Sedghi N, Gonabadi SP, Oraei Ghoddoosi F, **Amini M**. A Comparative Study on the Urine Level of Albumin in Hypertensive Women in Three Groups of Premenopausal, Post Menopausal and Hysterectomized. *Medical Journal of Mashhad University of Medical Sciences*. 2013 Jul 23;56(3):170-6. DOI: 10.22038/MJMS.2013.1229. (Embase)
23. Rahsepar AA, Mirzaee A, Moodi F, Moohebbati M, Tavallaie S, Eshraghi A, Alavi MS, Khorashadizadeh F, Pourghadamyari H, Paydar R, Amini M. Prooxidant-antioxidant balance and oxidized LDL antibody level values and cardiac function in patients with coronary artery disease. *Cardiology*. 2012 Sep 1;122(4):203-9. DOI: <http://dx.doi.org/10.1159/000339273>. (ISI-IF=1.9)
24. Rahsepar AA, Mirzaee A, Moodi F, Moohebbati M, Tavallaie S, Eshraghi A, Alavi MS, Zarrabi L, Pourghadamyari H, Paydar R, Khojasteh R, Mousavi S, Kia N, **Amini M**, Ghayour-Mobarhan M, Ferns GA. Anti-heat shock protein 27 titers and oxidative stress levels are elevated in patients with valvular heart disease. *Angiology*. 2012 Nov;63(8):609-16. DOI: <http://dx.doi.org/10.1177/0003319711433308>. (ISI-IF=1.511)
25. Moohebbati M, Bidmeshgi S, Azarpazhooh MR, Daloe MH, Ghayour-Mobarhan M, Tavallaie S, **Amini M**, Momenzadeh A, Sahebkar A, Paydar R, Rahsepar AA, Parizadeh SM, Akhlaghi S, Ferns GA. Simvastatin treatment reduces heat shock protein 60, 65, and 70 antibody titers in dyslipidemic patients: a randomized, double-blind, placebo-controlled, cross-over trial. *Clinical biochemistry*. 2011 Feb 1;44(2-3):192-7. DOI: <http://dx.doi.org/10.1016/j.clinbiochem.2010.09.016>. (ISI-IF=2.076)
26. Rahsepar AA, ... , **Amini M**, Khorashadizadeh F, Ghayour-Mobarhan M, Ferns GA. Prooxidant-anti-oxidant balance is not associated with extent of coronary artery disease. *Clinical biochemistry*. 2011 Nov 1;44(16):1304-8. DOI: <http://dx.doi.org/10.1016/j.clinbiochem.2011.08.1133>. (ISI-IF=2.076)

Presentations:

1. Delui MH, Yari M, Khouyinezhad G, **Amini MB**, Bayazi MH. Comparison of cardiac rehabilitation programs combined with relaxation and meditation techniques on reduction of depression and anxiety of cardiovascular patients. In *Circulation* 2012 May 15 (Vol. 125, No. 19, pp. E677-E677). (Poster Presentation) (ISI, IF=37.8)
2. **Barzegar-Amini M**, Ghayour-Mobarhan M, ... , Khojasteh-Tahery R. Simvastatin Therapy Reduces Prooxidant-Antioxidant Balance and heat shock protein 60, 65, and 70 antibody titers: Results of a Placebo-Controlled Cross-Over Trial. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry & Molecular Biology, Mashhad, Iran, 6-9 September 2011. (Poster Presentation)
3. Tackling Antimicrobial Resistance in Hospital Setting. Free Global Webinar Meeting, Global Alliance for Infections in Surgery, 21st Nov 2023. (Attendance certificate)
4. **Barzegar-Amini M**, Mohammadi A, Sadeghnia HR, Hassanzade Daloe M, Tayefi M, Ghayour-Mobarhan M. Serum Vitamin E Status and Its Influencing Factors in Iranian Adult Population: A Cohort Population-Based Study. NLRC International Congress, September 6-8, 2017, Mashhad, Iran. (Poster Presentation)
5. Khojasteh-Taheri R, ... , Rahsepar AA, **Barzegar-Amini M**. Higher levels of anti-HSP27 antibody levels in patients with pemphigus vulgaris compare with healthy subjects. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry & Molecular Biology, Mashhad, Iran, 6-9 September 2011. (Poster Presentation)

5. Manavifar M, Fatehi H,, Akhlaghi S, **Amini M**, Tavallaei SH. Effects of ginseng on lipid profile and oxidative stress in dyslipidemic patients. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry & Molecular Biology, Mashhad, Iran, 6-9 September 2011. (Oral Presentation)
6. **Barzegar Amini M**, Hassanzadeh M, Ghayour Mobarhan M, Borairi T, Arbab S. Urinary albumin excretion and hs-CRP levels as risk factors of coronary disease in premenopausal women. 3rd Iranian congress of biochemistry and 3th international congress of biochemistry & molecular biology, 16-19 November 2009, Mashhad, Iran. (Poster Presentation)
7. **Barzegar Amini M**, Tara F, Rayman M,, Rajabi-Moghadam M, Gholami A. Selenium Supplementation is safe in Persian pregnant women at risk of pre-eclampsia. 3rd Iranian congress of biochemistry and 3th international congress of biochemistry & molecular biology. 16-19 November 2009, Mashhad, Iran. (Poster Presentation)
8. Hassanzade Daloe M, Mamoori Gh, **Amini M**, Paydar R, Zoghdar Moghaddam T. Evaluation of Mothers death in Khorasan Razavi Province in 2005-2008. Heart Disease a Risk Factor in Pregnancy Conference. 30 Jan 2009, Mashhad, Iran. (Poster Presentation)
9. Hassanzade Daloe M, Hassan Abadi T, Paydar R, **Amini M**, Dezyani Kh. Evaluation of Preeclampsia in 1387. Heart Disease a Risk Factor in Pregnancy Conference. 30 Jan 2009, Mashhad, Iran. (Poster Presentation)
10. Barzegar Amini M, Tara F, Rayman M,, Gholami A. Selenium Supplementation is safe in Persian pregnant women at risk of pre-eclampsia. 10th Iranian Nutrition Congress. 27-30 Oct 2008, Mashhad, Iran. (Poster Presentation)
11. **Barzegar-Amini M**, Hashemi-Motamedi M, Erfani A. Do You Know Your Risk? The 2nd annual training on electrophysiology for Iranian nurses. 30 Sep 2008, Mashhad, Iran. (Poster Presentation)
12. **Barzegar-Amini M**, Khojaste-taheri R. HIV & Nutrition. Stop AIDS Keep The Promise Congress. 5th January 2006, Gorgan, Iran. (Poster Presentation)
13. **Barzegar-Amini M**, Sheykhoh-Eslami Sh. Viral Insecticides & Their application Cases. Microbiology & Its Development in the New World Congress. 17th December 2005, Gorgan, Iran. (Oral Presentation)
14. Sheykhoh-Eslami Sh, **Barzegar-Amini M**. Microbial Insecticides & Their Activities. Microbiology & Its Development in the New World Congress. 17th December 2005, Gorgan, Iran. (Oral Presentation)

Projects in Progress:

1. Comparison of SARS-CoV-2 antibody responses in health care workers and non-health care workers. **Supervisor: Prof. Dr. Farahzad Jabbari-Azad**, Mashhad University of Medical Sciences, Mashhad, Iran. (status: data analysis) **National Project**
2. Blood Coagulant Powder of HIVA. **Supervisor: Maral Barzegar-Amini**, Mashhad University of Medical Sciences, Mashhad, Iran. (status: proposal approval, Pre-clinical study) **Effective Project**
3. COVID-19 Resistance Pre-Screening Survey. **Supervisors: Dr. Jean-Laurent Casanova**, Rockefeller University, New York, NY, U.S.A. **Dr. Maryam Khoshkhui**, Mashhad University of Medical Sciences, Mashhad, Iran. (status: Data collection) **International Project**

References

- **Prof. Dr. Reza Farid-Hosseini**. Professor of Medicine, Adjunct Professor of Arizona University, College of Public Health, Tucson, AZ 85724, USA.
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