

# Curriculum Vitae

**Nima Montazeri-Najafabady**

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## **Personal Information:**

**First name:** Nima

**Last name:** Montazeri-Najafabady

**Date and place of birth:** 15.06.1983, Shiraz, Iran

**Mailing address:** Endocrinology and metabolism research center, Shiraz  
University of Medical Sciences, P.O. Box 71345-1583, Shiraz, Iran.

**Tel:** +98-711-2425305 (214), Fax: +98-711-2424126

**Mobile:** +989177020833

**E-mail:** [montazerin@sums.ac.ir](mailto:montazerin@sums.ac.ir)

## **Educations:**

2009-2013: Ph. D, Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

2002-2009: Pharm D, Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran. Average 18/3

### **Ph.D. Thesis :**

**Nima Montazeri-Najafabady** (2013), Cloning and expression optimization of interleukin 11 in *E. coli* in bioreactor.

Supported by the Research Council of Shiraz University of Medical Sciences, Shiraz, Iran

### **Pharm.D. Thesis :**

**Nima Montazeri-Najafabady** (2009), Antimicrobial activity and QSAR study of Azole derivatives

Supported by the Research Council of Shiraz University of Medical Sciences, Shiraz, Iran.

### **Academic:**

-2010- 2014: Lecturer in Biotechnology, Faculty of Pharmacy, Shiraz University of Medical Sciences.

-2010- 2014: Lecturer in Biological products, Faculty of Pharmacy, Shiraz University of Medical Sciences.

-2010- 2014: Lecturer in Biological products, International branch, Shiraz University of Medical Sciences.

-2010- 2014: Lecturer in Biology, Faculty of Pharmacy, Shiraz University of Medical Sciences.

2013-2014: Lecturer in Biology, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences.

### **Research interests:**

-Recombinant proteins

-Gene delivery in eukaryote

-Drug and protein formulation

- Enzyme Technology
- Bioprocess and Fermentation
- Microalgal Biotechnology and bioreactor design
- Genetic study
- Osteoporosis

**Skills:**

Primer design

Genetic engineering

Recombinant protein production

Drug and protein formulation

Purification

Real time PCR

Bioprocess and Fermentation

Bioreactor design

Microalgae biotechnology

Scientific writing

## **Publications:**

### **Articles:**

1. Montazeri-Najafabady, N., et al., Exploring the bone sparing effects of postbiotics in the post-menopausal rat model. *BMC Complementary Medicine and Therapies*, 2021. **21**(1).
2. Montazeri-Najafabady, N., et al., Anti-androgenic effect of astaxanthin in LNCaP cells is mediated through the aryl hydrocarbon-androgen receptors cross talk. *Journal of Food Biochemistry*, 2021. **45**(4).
3. Montazeri-Najababady, N., et al., The association between TP53 rs1625895 polymorphism and the risk of sarcopenic obesity in Iranian older adults: a case-control study. *BMC Musculoskeletal Disorders*, 2021. **22**(1).
4. Montazeri-Najafabady, N., et al., The impact of GSTM1 and GSTT1 polymorphisms on susceptibility to gestational diabetes in Iranian population. *Journal of Maternal-Fetal and Neonatal Medicine*, 2020.
5. Montazeri-Najafabady, N., M.H. Dabbaghmanesh, and R. Mohammadian Amiri, The rs2302685 polymorphism in the LRP6 gene is associated with bone mineral density and body composition in Iranian children. *Journal of Gene Medicine*, 2020. **22**(11).
6. Montazeri-Najafabady, N., et al., The Effects of Astaxanthin on Proliferation and Differentiation of MG-63 Osteosarcoma Cells via Aryl Hydrocarbon Receptor (AhR) Pathway: A Comparison with AhR Endogenous Ligand. *Nutrition and Cancer*, 2020. **72**(8): p. 1400-1410.
7. Gholami, A., et al., Probiotics ameliorate pioglitazone-associated bone loss in diabetic rats. *Diabetology and Metabolic Syndrome*, 2020. **12**(1).
8. Ataabadi, G., et al., Clinical features of graves' ophthalmopathy and impact of enalapril on the course of mild graves' ophthalmopathy: A pilot

- study. *Endocrine, Metabolic and Immune Disorders - Drug Targets*, 2020. **20**(1): p. 139-148.
9. Arabnezhad, M.R., et al., Anti-androgenic effect of 6-formylindolo[3,2-b]carbazole (FICZ) in LNCaP cells is mediated by the aryl hydrocarbon-androgen receptors cross-talk. *Steroids*, 2020. **153**.
  10. Zare, S., et al., Protective effect of vitamin E and vitamin C alone and in combination on testicular damage induced by sodium metabisulphite in rats: A stereological study. *Andrologia*, 2019. **51**(2).
  11. Montazeri-Najafabady, N., et al., Supportive Role of Probiotic Strains in Protecting Rats from Ovariectomy-Induced Cortical Bone Loss. *Probiotics and Antimicrobial Proteins*, 2019. **11**(4): p. 1145-1154.
  12. Montazeri-Najafabady, N., et al., Influence of Estrogen Receptor Alpha Polymorphism on Bone Mineral Density in Iranian Children. *Human Heredity*, 2019. **84**(2): p. 82-89.
  13. Montazeri-Najafabady, N., et al., Influence of LRP5 (Rs556442) polymorphism on insulin resistance in healthy Iranian children and adolescents. *Turkish Journal of Medical Sciences*, 2019. **49**(2): p. 490-496.
  14. Montazeri-Najafabady, N., et al., Association of vitamin D receptor BsmI gene polymorphism with BMD Z-score in Iranian children and adolescents (9 - 18 years old). *International Journal of Endocrinology and Metabolism*, 2019. **17**(2).
  15. Bayat, M., et al., The Effects of Soy Milk Enriched with Lactobacillus casei and Omega-3 on the Tibia and L5 Vertebra in Diabetic Rats: a Stereological Study. *Probiotics and Antimicrobial Proteins*, 2019. **11**(4): p. 1172-1181.
  16. Montazeri-Najafabady, N., M.H. Dabbaghmanesh, and R. Mohammadian Amiri, The association of LRP6 rs2302685 (V1062I) polymorphism with

- the risk of hyperlipidemia in Iranian children and adolescents. *Annals of Human Genetics*, 2018. **82**(6): p. 382-388.
17. Montazeri-Najafabady, N., et al., Polymorphism in LRP5 (rs556442) is associated with higher TG levels in Iranian children. *Annals of Human Biology*, 2017. **44**(4): p. 373-378.
  18. Zarei, M., et al., Effects of menthone and piperitone on growth, chlorophyll a and  $\beta$ -carotene production in *Dunaliella salina*. *Journal of Applied Pharmaceutical Science*, 2016. **6**(9): p. 215-219.
  19. Mousavi, P., et al., Investigating the effects of phytohormones on growth and  $\beta$ -carotene production in a naturally isolates stain of *Dunaliella salina*. *Journal of Applied Pharmaceutical Science*, 2016. **6**(8): p. 164-171.
  20. Montazeri-Najafabady, N., et al., *Chroococcus dispersus*: A novel unicellular cyanobacterium for biodiesel production. *Minerva Biotechnologica*, 2016. **28**(3): p. 126-130.
  21. Montazeri-Najafabady, N., et al., Effects of osmotic shock on production of  $\beta$ -carotene and glycerol in a naturally isolated strain of *Dunaliella salina*. *Journal of Applied Pharmaceutical Science*, 2016. **6**(8): p. 160-163.
  22. Montazeri-Najafabady, N., Y. Ghasemi, and M.A. Mobasher, Optimization of culture conditions for expression of human interleukin 11. *BioPharm International*, 2016. **29**(11): p. 30-36.
  23. Mobasher, M.A., N. Montazeri-Najafabady, and Y. Ghasemi, An optimized condition for vinegar production in fermenter by *Gluconobacter oxydans*. *Minerva Biotechnologica*, 2016. **28**(3): p. 121-125.
  24. Mobasher, M.A., et al., Expression of recombinant IFN beta 1-b: A comparison between soluble and insoluble forms. *Minerva Biotechnologica*, 2016. **28**(1): p. 39-43.

25. Karimi, Z., et al., Cloning and expression of Pseudomonas aeruginosa superoxide dismutase enzyme in Escherichia coli. *Minerva Biotechnologica*, 2016. **28**(3): p. 131-135.
26. Shaker, S., et al., Treating Urban Wastewater: Nutrient Removal by Using Immobilized Green Algae in Batch Cultures. *International Journal of Phytoremediation*, 2015. **17**(12): p. 1177-1182.
27. Rasoul-Amini, S., et al., Biodiesel properties of native strain of Dunaliella Salina. *International Journal of Renewable Energy Research*, 2014. **4**(1): p. 39-41.
28. Rasoul-Amini, S., et al., Removal of nitrogen and phosphorus from wastewater using microalgae free cells in bath culture system. *Biocatalysis and Agricultural Biotechnology*, 2014. **3**(2): p. 126-131.
29. Ghasemi, Y., et al., Cloning, expression and purification of laccase enzyme gene from Bacillus subtilis in Escherichia coli. *Minerva Biotechnologica*, 2014. **26**(4): p. 295-300.
30. Montazeri-Najafabady, N., et al., Codon optimization, cloning and expression of interleukin 11 in two different E.coli systems. *Journal of Pure and Applied Microbiology*, 2013. **7**(4): p. 2717-2722.
31. Mobasher, M.A., et al., Two step production of optimized interferon beta 1b; A way to overcome its toxicity. *Journal of Pure and Applied Microbiology*, 2013. **7**(4): p. 2867-2871.
32. Hosseini Behbahani, M., et al., Volatile oil composition and antimicrobial activity of two Thymus species. *Pharmacognosy Journal*, 2013. **5**(2): p. 77-79.
33. Khabnadideh, S., et al., Antibacterial activity of some new azole compounds. *Anti-Infective Agents*, 2012. **10**(1): p. 26-33.
34. Ghasemi, Y., et al., Identification and characterization of feather-degrading bacteria from keratin-rich wastes. *Annals of Microbiology*, 2012. **62**(2): p. 737-744.

35. Ghasemi, Y., et al., Microalgae biofuel potentials (Review). *Applied Biochemistry and Microbiology*, 2012. **48**(2): p. 126-144.
36. Rasoul-Amini, S., et al., *Chlorella* sp.: A new strain with highly saturated fatty acids for biodiesel production in bubble-column photobioreactor. *Applied Energy*, 2011. **88**(10): p. 3354-3356.
37. Rasoul-Amini, S., et al., Characterization of hydrocortisone bioconversion and 16S RNA gene in *Synechococcus nidulans* cultures. *Prikladnaia biokhimiia i mikrobiologiya*, 2010. **46**(2): p. 205-211.
38. Rasoul-Amini, S., et al., Characterization of hydrocortisone bioconversion and 16S RNA gene in *Synechococcus nidulans* cultures. *Applied Biochemistry and Microbiology*, 2010. **46**(2): p. 191-197.

#### **Thesis supervisor and advisor:**

- 1- Evaluation of glycerol and beta-carotene production using isolate samples of *Dunaliella salina* from Maharlou Lake (supervisor).
- 2- Association between GSTT1, GSTM1 polymorphisms and GDM in Iranian population (supervisor).

#### **Genes and nucleotide sequences:**

- 1- *Chlamydomonas* sp. YG05 18S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shaker, S., Rasoul-Amini, S. and **Montazeri-Najafabady, N.**
- 2- *Oocystis* sp. YG03 18S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shaker, S., Rasoul-Amini, S. and **Montazeri-Najafabady, N.**
- 3- *Chlorella* sp. YG02 18S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shaker, S., Rasoul-Amini, S. and **Montazeri-Najafabady, N.**
- 4- *Chlorella* sp. YG01 18S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shaker, S., Rasoul-Amini, S. and **Montazeri-Najafabady, N.**



5- *Bacillus* sp. MKR7 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

6- *Bacillus* sp. MKR8 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

7- *Bacillus* sp. MKR5 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

8- *Bacillus* sp. MKR2 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

9- *Bacillus* sp. MKR1 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

10- *Bacillus* sp. MKR13 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

11- *Enterobacter* sp. MKR12 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

12- *Bacillus* sp. MKR11 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

13- *Bacillus* sp. MKR10 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

14- *Bacillus* sp. MKR9 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

15- *Bacillus* sp. MKR4 16S ribosomal RNA gene, partial sequence.  
Ghasemi, Y., Shahbazi, M., Rasoul-Amini, S., Kargar, M., Safari, A., Kazemi, A. and **Montazeri-Najafabady, N.**

16- *Bacillus* sp. BCCS 029 16S ribosomal RNA gene, partial sequence.  
Ghasemi, Y., Rasoul-Amini, S., Ghoshoon, M.B., Raei, M.J., Morowvat, M.H., Kazemi, A., Ebrahiminezhad, A. and **Montazeri-Najafabady, N.**

17- *Bacillus subtilis* strain BCCS 028 16S ribosomal RNA gene, partial.  
Ghasemi, Y., Rasoul-Amini, S., Ghoshoon, M.B., Raei, M.J., Morowvat, M.H., Kazemi, A., Ebrahiminezhad, A. and **Montazeri-Najafabady, N.**

18- *Bacillus subtilis* strain BCCS 027 16S ribosomal RNA gene, partial sequence. Ghasemi, Y., Rasoul-Amini, S., Ghoshoon, M.B., Raei, M.J., Morowvat, M.H., Kazemi, A., Ebrahiminezhad, A. and **Montazeri-Najafabady, N.**

19- *Chlorella* sp. MCCS 040 18S ribosomal RNA gene, partial sequence.  
Ghasemi, Y., Rasoul-Amini, S., **Montazeri-Najafabady, N.** and Mobasher, M.A.

20- *Halobacterium* sp. BCCS 030 16S ribosomal RNA gene, partial sequence.  
Ghasemi, Y., Rasoul-Amini, S., Raei, M.J., Ghoshoon, M.B., Kazemi, A., Morowvat, M.H., Ebrahiminezhad, A. and **Montazeri-Najafabady, N.**

### **Abstracts and Congress presentations:**

1- **Nima Montazeri Najafabady**, Mohammad Ali Mobasher, Abdollah Ghasemian, Sara Rasoul Amini, Younes Ghasemi (2011) Achieving high yield production of acetic acid by *Gluconobacter oxydans* in bioreactor. Current opinion in biotechnology, 22: S56. Turkey- Istanbul 2011

2- Mohammad Ali Mobasher, **Nima Montazeri Najafabady**, Abdollah Ghasemian, Sara Rasoul Amini, Younes Ghasemi (2011) Culture medium optimization for acetic acid production by *Gluconobacter xylinus* in submerged fermentor, Current opinion in biotechnology, 22: S56. Turkey- Istanbul 2011

- 3- Pegah Mousavi, **Nima Montazeri Najafabady**, Sara Rasoul Amini, Younes Ghasmi (2011) Biodiesel production from *Dunaliella salina*. , Current opinion in biotechnology, 22: S149. Turkey- Istanbul 2011
- 4- Sara Rasoul-Amini, **Nima Montazeri-Najafabady**, Mohammad Ali Mobasher, Samira Hoseini-Alhashemi, Younes Ghasemi (2011) *Chlorella* sp.: A new strain with highly saturated fatty acids for biodiesel production in bubble-column photobioreactor. Italy-Rimini 2010
- 5- **Nima Montazeri-Najafabady**, The First International Student Congress on Cell and Molecular Medicine, 17<sup>th</sup>-19<sup>th</sup> Feb 2011, Shiraz, Iran.
- 6-**Nima Montazeri-Najafabady**, Younes Ghasemi, Pedram Talezadeh, Farhad Koohpeyma, Ahmad GHolami, Mohammad Hossein Dabbaghmanesh (2018) Probiotic strains protect rats from ovariectomy-induced bone loss. The 12<sup>th</sup> International congress of Endocrine Disorders (Oral presentation).
- 7- **Nima Montazeri-Najafabady**, Estrogen receptor alpha polymorphism (PvuII) is associated with bone mineral density in Iranian children and adolescent (Poster presentation)
- 8- **Nima Montazeri-Najafabady**, Estrogen receptor alpha polymorphism (XbaI) is associated with bone mineral density in Iranian children and adolescent (Poster presentation)
- 9- **Nima Montazeri-Najafabady**, Association of CCR4 1014C/A polymorphisms with the incidence of thyroid cancer in Iranian population
- 10- **Nima Montazeri-Najafabady**, Association of CCL22 16C/A polymorphisms with the incidence of thyroid cancer in Iranian population

### **Workshops:**

- 1- "**Molecular modeling**", Shiraz University of Medical Sciences, Faculty of pharmacy, June 2008, Shiraz, Iran.
- 2- Training course on "**Endnote software**", Shiraz University of Medical Sciences, student research council, August 2010, Shiraz, Iran.

3- " **Entrepreneurship workshop**", Shiraz University of Medical Sciences, Shiraz information technology incubator of medical sciences, Sep 2011, Shiraz, Iran.

4- " **Business plan workshop**", Shiraz University of Medical Sciences, Biotechnology Incubator, 26 July 2012, Shiraz, Iran.

5- " **Western blotting**" at The First International Student Congress on Cell and Molecular Medicine, 17<sup>th</sup>-19<sup>th</sup> Feb 2011, Shiraz, Iran.

6- Training course on "**Basics of Bioinformatic**", The Second Science Olympiad of medical sciences students, August 2010, Shiraz, Iran.

7- Training course on "**Endnote X3**" Shiraz University of Medical Sciences, Jan 2010, Shiraz, Iran.

8- Training course on "**Scopus Database**", Shiraz University of Medical Sciences, Faculty of pharmacy, Dec 2008, Shiraz, Iran.

9- Training course on "**Science Direct Database**", Shiraz University of Medical Sciences, Faculty of pharmacy, Oct 2008, Shiraz, Iran.

#### **Awards and Cultural activity:**

1. Biotechnology board exam: **First place**
2. Biotechnology Entrance exam: **Second place**
3. Chess students of medical sciences competition Iran –Sari 2012: **Third place**
4. Chess students of medical sciences olympiad Iran- Tehran 2013: **Second place**
5. Students of medical sciences volleyball competition 2008: **First place**
6. Membership of editorial board of Iranian journal of medicine and historical culture<sup>12</sup>