

## Curriculum Vitae

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### Abdollah Ghasemian

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#### **Educations:**

۲۰۰۷: Visiting researcher, ICGEB, Trieste, Italy

۲۰۰۸: Ph.D. in Pharmaceutical Biotechnology, Tehran University of Medical Sciences, Iran

۲۰۰۳: Pharmacy Doctorate (Pharm. D.), Faculty of Pharmacy, Shiraz University of Medical Sciences, Shiraz, Iran.

۱۹۹۵: Diploma in Experimental Sciences, Taleghani High School, Ghanave (Booshehr), Iran.

#### **Academic Appointments:**

June 2013-present: Assistant Professor, department of Pharmaceutical Biotechnology, Urmia University of Medical Sciences, Iran.

Feb 2009- June 2013: Assistant Professor, department of Pharmaceutical Biotechnology, Shiraz University of Medical Sciences, Iran.

Aug 2010- present: Undersecretary of Biotechnology Incubator of Shiraz University of Medical Sciences, Shiraz, Iran.

Mach 2011-present: Faculty member of Pharmaceutical Sciences Research Center, Shiraz University of Medical Sciences, Shiraz, Iran.

## **Publications:**

### **Book chapters;**

- Moradpour Z., Ghasemian A. (2020) **Phage therapy: Current Development and Future Prospects**. In: Ali Asghar Rastegari Ajar Nath Yadav Abhishek Kumar Awasthi Neelam Yadav (eds). *New and Future Developments in Microbial Biotechnology and Bioengineering: Trends of Microbial Biotechnology for Sustainable Agriculture and Biomedicine Systems: Perspectives for Human Health*. **eBook ISBN: [9780128205297](https://doi.org/10.1016/C2014-0-00307-3)**  
**Imprint:** Elsevier  
**Published Date:** 1st June 2020
  
- Dabbagh F., Moradpour Z., Ghasemian A. (2019) **Microbial Products and Biotechnological Applications Thereof: Proteins, Enzymes, Secondary Metabolites, and Valuable Chemicals**. In: Singh D., Prabha R. (eds) *Microbial Interventions in Agriculture and Environment*. Springer, Singapore  
First Online 10 November 2019  
DOI [https://doi.org/10.1007/978-981-32-9084-6\\_18](https://doi.org/10.1007/978-981-32-9084-6_18)  
Publisher Name Springer, Singapore  
Print ISBN 978-981-32-9084-6  
Online ISBN 978-981-32-9084-7
  
- Ghasemian A, Moradpour Z (2019) **Production of Recombinant Microbial Thermostable Lipases**. In: Singh HB, Gupta VK, Jogaiah S (eds) *New and Future Developments in Microbial Biotechnology and Bioengineering*. Elsevier, Amsterdam, pp 133-150  
DOI <https://doi.org/10.1016/C2014-0-00307-3>  
eBook ISBN: 9780444635105  
Hardcover ISBN: 9780444635037
  
- Abdollah Ghasemian, Zahra Moradpour (2016). 14. **Cyanobacteria: biotechnological and environmental applications**. In Vijai Kumar Gupta, Susanne Zeilinger, Edivaldo X. Ferreira Filho, Maria Carmen Durán-Dominguez-de-Bazu, Diane Purchase (Eds.), *Microbial Applications: Recent Advancements and Future Developments* (pp. 320-378). Berlin, Boston: De Gruyter.  
DOI <https://doi.org/10.1515/9783110412789-016>  
Book DOI: <https://doi.org/10.1515/9783110412789>  
Online ISBN: 9783110412789

## Papers;

۱. Moradpour Z, Yousefi N, Sadeghi D, Ghasemian A. Synergistic bactericidal activity of a naturally isolated phage and ampicillin against urinary tract infecting *Escherichia coli* O157. *Iranian Journal Basic Medical Sciences*. 2020; 23 (2): 257-۲۶۳.
۲. Moradpour, Z., Ghasemian, A. Isolation and identification of a natural bacteriophage as a biocontrol agent against *proteus vulgaris*. *Research Journal of Biotechnology*. 2019; 14 (7), 62-66.
۳. Gholinejad, Z., Ghasemian, A., Tutar, Y., Saboory, E., Rasmi, Y. N-acetyl cysteine and metal nanoparticles internalization: A critical methodological aspect. *Journal of Bionanoscience*. 2018; 12 (5): 700-704.
۴. Ghasemian, A., Bavand, M., Moradpour, Z. A broad-host range coliphage against a clinically isolated *E. coli* O157: Isolation and characterization. *Journal of Applied Pharmaceutical Science* .2017; 7 (3): 123-128.
۵. Raei, M.J., Ghasemian, A., Maghami, S., Ghoshoon, M.B., Ghasemi, Y. Cloning, purification and enzymatic assay of streptokinase gene from *Streptococcus pyogenes* in *Escherichia coli*. *Minerva Biotechnologica*. 2017; 29(1): ۸-۱۳
۶. Moradpour Z, Ghasemian A. Protein engineering of microbial cholesterol oxidases: a molecular approach toward development of new enzymes with new properties. *Applied microbiology and biotechnology*. 2016:1-1۴.
۷. Ghasemian A, Moradpour Z, Baniasad M, Ghasemi Y. Isolation, molecular identification and characterization of the culture conditions for extracellular uricase production by a new strain of *Pseudomonas Sp*. *Journal of Pure and Applied Microbiology*. 2015;9(4):2813-21.
۸. Moradpour Z, Ghasemian A, Nouri F, Ghasemi Y. Increased expression of recombinant cholesterol oxidase in *Escherichia coli* by optimization of culture condition using response surface methodology. *Minerva Biotechnologica*. ۲۰۱۴;۲۶(۴):۲۸۱-۶.
۹. Ghasemi Y, Mohkam M, Ghasemian A, Rasoul-Amini S. Experimental design of medium optimization for invertase production by *Pichia sp*. *Journal of Food Science and Technology*. 2014;51(2):267-75.
۱۰. Moradpour Z, Ghasemian A, Safari A, Mohkam M, Ghasemi Y. Isolation, molecular identification and statistical optimization of culture condition for a new extracellular cholesterol oxidase-producing strain using response surface methodology. *Annals of Microbiology*. 2013;63(3):941-50.
۱۱. Montazeri-Najafabady N, Ghasemi Y, Mobasher MA, Ghasemian A, Rasoul-Amini S, Ebrahimi S. Codon optimization, cloning and expression of interleukin ۱۱ in two different *E.coli* systems. *Journal of Pure and Applied Microbiology*. ۲۰۱۳;۷(۴):۲۷۱۷-۲۲.
۱۲. Mobasher MA, Ghasemi Y, Montazeri-Najafabady N, Ghasemian A, Rasoul-Amini S, Hemmati S, et al. Two step production of optimized interferon beta 1b;

- A way to overcome its toxicity. *Journal of Pure and Applied Microbiology*. ۲۰۱۳;۷(۴):۲۸۶۷-۷۱.
۱۳. Ghasemi Y, Dabbagh F, Ghasemian A. Cloning of a fibrinolytic enzyme (subtilisin) gene from bacillus subtilis in Escherichia coli. *Molecular Biotechnology*. 2012;52(1):1-7.
  ۱۴. Dabbagh F, Moradpour Z, Ghasemian A, Ghasemi Y. Phylogeny of urate oxidase producing bacteria on the basis of gene sequences of 16S rRNA and uricase protein. *Iranian Journal of Pharmaceutical Sciences*. 2012;8(2):99-102.
  ۱۵. Moradpour Z, Ghasemian A. Modified phages: Novel antimicrobial agents to combat infectious diseases. *Biotechnology Advances*. 2011;29(6):732-8.
  ۱۶. Mendoza-Maldonado R, Faoro V, Bajpai S, Berti M, Odreman F, Vindigni M, et al. The human RECQ1 helicase is highly expressed in glioblastoma and plays an important role in tumor cell proliferation. *Molecular Cancer*. 2011;10.
  ۱۷. Moradpour Z, Sepehrizadeh Z, Rahbarizadeh F, Ghasemian A, Yazdi MT, Shahverdi AR. Genetically engineered phage harbouring the lethal catabolite gene activator protein gene with an inducer-independent promoter for biocontrol of Escherichia coli. *FEMS Microbiology Letters*. 2009;296(1):67-71.
  ۱۸. Javid Khalili S, Sepehrizadeh Z, Tabatabaei Yazdi M, Ghasemian A, Zargar SJ. Study of the importance of Glu361 in the active site of cholesterol oxidase from Rhodococcus sp. PTCC 1633 by site-directed mutagenesis. *Annals of Microbiology*. 2009;59(2):395-7.
  ۱۹. Ghasemian A, Yazdi MT, Sepehrizadeh Z, Yazdi ZT, Zarrini G. Overexpression, one-step purification, and characterization of a type II cholesterol oxidase from a local isolate Rhodococcus sp. PTCC 1633. *World Journal of Microbiology and Biotechnology*. 2009;25(5):773-9.
  ۲۰. Yazdi MT, Yazdi ZT, Ghasemian A, Zarrini G, Olyaei NH, Sepehrizadeh Z. Purification and characterization of extra-cellular cholesterol oxidase from Rhodococcus sp. PTCC 1633. *Biotechnology*. 2008;7(4):751-6.
  ۲۱. Ghasemian A, Yazdi MT, Sepehrizadeh Z. Construction of a thermally stable cholesterol oxidase mutant by site-directed mutagenesis. *Biotechnology*. ۲۰۰۸;۷(۴):۸۲۶-۹.
  ۲۲. Ghasemi Y, Tabatabaei Yazdi M, Dehshahri A, Niknahad H, Shokravi S, Amini M, et al. Algal transformation of hydrocortisone by the cyanobacterium Nostoc ellipsosporum. *Chemistry of Natural Compounds*. 2006;42(6):702-5.
  ۲۳. Yazdi MT, Ghasemi Y, Ghasemian A, Shokravi S, Niknahad H, Amini M, et al. Bioconversion of hydrocortisone by cyanobacterium Fischerella ambigua PTCC ۱۶۳۵. *World Journal of Microbiology and Biotechnology*. ۲۰۰۵;۲۱(۶-۷):811-4

## **Abstracts:**

- [1] Najafabady, N. M., M. A. Mobasher, **A. Ghasemian**, S. R. Amini, and Y. Ghasemi (2011) Achieving high yield production of acetic acid by *Gluconobacter oxydans* in bioreactor. *Current Opinion in Biotechnology*. 22, Supplement 1: S56.
- [2] Mobasher, M. A., N. M. Najafabady, **A. Ghasemian**, S. R. Amini, and Y. Ghasemi (2011) Culture medium optimization for acetic acid production by *Gluconobacter xylinus* in submerged fermentor. *Current Opinion in Biotechnology*. 22, Supplement 1: S56.
- [3] Maghami, S., Y. Ghasemi, and **A. Ghasemian** (2011) Cloning and expression of CYP152A1 of *Bacillus subtilis*. *Current Opinion in Biotechnology*. 22, Supplement 1: S129.
- [4] Kazemi, A., N. Negintaji, **A. Ghasemian**, S. R. Amini, and Y. Ghasemi (2011) An optimized medium for cellulase production by *Bacillus* sp. BCCS A3. *Current Opinion in Biotechnology*. 22, Supplement 1: S68.
- [5] Karimi, Z., M. B. Ghoshoun, N. Ebrahimi, A. Gholami, **A. Ghasemian**, and Y. Ghasemi (2011) Producing the recombinant CTB as a delivery/targeting vehicle. *Current Opinion in Biotechnology*. 22, Supplement 1: S125-S126.
- [6] Ghoshoun, M. B., Y. Ghasemi, and **A. Ghasemian** (2011) Cloning, expression and characterization of l-asparaginase II from *Escherichia coli* YG 001. *Current Opinion in Biotechnology*. 22, Supplement 1: S128.
- [7] Ebrahimi, N., A. Ebrahimi, **A. Ghasemian**, and Y. Ghasemi (2011) Cloning and expression of staphylokinase, a potential thrombolytic agent. *Current Opinion in Biotechnology*. 22, Supplement 1: S127.
- [8] Dabbagh, F., M. Shahbazi, **A. Ghasemian**, S. R. Amini, and Y. Ghasemi (2011) Cloning and expression of keratinase gene from *Bacillus* sp. MKR1. *Current Opinion in Biotechnology*. 22, Supplement 1: S82-S83.
- [9] Parvizi, R., **A. Ghasemian**, and Y. Ghasemi (2010) Screening and characterization of Urate oxidase from local isolated fungi. *Journal of Biotechnology*. 150, Supplement: 447.
- [10] Nouri, F., **A. Ghasemian**, and Y. Ghasemi (2010) Optimization of cholesterol oxidase expression in *E. coli* by Response Surface Methodology. *Journal of Biotechnology*. 150, Supplement: 364.
- [11] Moradpour, Z., and **A. Ghasemian** (2010) In vivo evaluation of a genetically engineered phage for biocontrol of *Escherichia coli*. *Journal of Biotechnology*. 150, Supplement: 436.
- [12] **Ghasemian, A.**, and Z. Moradpour (2010) Isolation and characterisation of a new lytic bacteriophages against *E. coli* strains. *Journal of Biotechnology*. 150, Supplement: 444.
- [13] Ebrahimi, A., **A. Ghasemian**, and Y. Ghasemi (2010) PCR clone of novel Staphylokinase gene from *Staphylococcus aureus*. *Journal of Biotechnology*. 150, Supplement: 450.
- [14] Dabbagh, F., **A. Ghasemian**, and Y. Ghasemi (2010) Cloning of a fibrinolytic enzyme (subtilisin) gene from *Bacillus subtilis* in *Escherichia coli*. *Journal of Biotechnology*. 150, Supplement: 364.

