

CURRICULUM VITAE

Mahdieh Ameri Shah Reza



Personal Information:

First name: Mahdieh

Last name: Ameri Shah Reza

Sex: Female

Nationality: Iranian

Marital status: ██████████

E-mail: m.Ameri@sbmu.ac.ir

Tel: ██████████

Education:

██████: Ph.D of Pharmaceutical Biotechnology, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

██████: MSc of Microbial Biotechnology, Faculty of basic science, Shahed University, Tehran, Iran.

██████: BSc of Microbiology, Faculty of basic science, Azad University, Qom, Iran.

██████: Diploma of Experimental Sciences, Emami/ Fatemieh High School, Qom, Iran.

Ph.D Thesis:

Title:

Effect of nutritional and environmental conditions on production of total polysaccharides, using *Lentinus edodes* (Basidiomycete) by Solid-state fermentation

Supervisors:

Prof. Hossein Vahidi, Prof. Farzad Kobarfard

MSc Thesis:

Title:

Immunological study of UreC and UreCc recombinant subunits of *H. pylori* Urease enzyme by *Helicobacterial* challenge of infected C57BL6/j mice.

Supervisors:

Dr. Seyed Latif Mousavi

Honors:

Member of Iranian biology society from 2010 to 2012.

Member of Islamic Azad University Microbiology society since Bachelor level.

Member of Young researchers club since Bachelor level.

Designed and created the first dynamic model of HIV and SARS in Islamic Azad University of Qom with was presented in the Congress of Trend of microbiology.

Collaborated with University of Medical sciences and Administration of food examination for 7 years.

Owner of registered Research Company of Kesht va Sanat Jahan Pars Javan in 2004 and held several student workshops for universities in edible mushroom culture and Herbal parasites and worked as a consulted in these area for universities.

Since 1398 up to now, I have started my work at Iranian FDA, Department of Control Reference Laboratories, Division of Biology, Biochemistry Laboratory.

Workshop:

1. Real-time PCR workshop, organized by Armin teb, Tehran-Iran 2010
2. Fermentation and Bioreactor workshop, Baqiyatallah university of medical sciences Tehran-Iran 2010
3. Recombinant protein, Pasteur Institute of Iran, Tehran- Iran, 2018
4. Quality control (QC), Pasteur Institute of Iran, Tehran- Iran, 2018

Congress:

1. Ameri shah reza Mahdieh, S.L. Mousavi, Z. Veise malekshahi
Immunological study of UreC and UreCc recombinant subunits of *H. pylori* Urease enzyme. The 11 th National and 1 th International Conference of Microbiology. May 10-13, 2010 University of Gilan (Langarood), Iran

2. Ameri shah reza Mahdieh, S.L. Mousavi, Z. Veise malekshahi
In vivo comparison of the immunogenicity of the complete and C terminal fragment of the recombinant UreC by *Helicobacterial* challenge, The 16 th National and 4 th International Conference of Biology September 14-16, 2010 Ferdowsi University of Mashhad (FUM), Iran

3. Ameri shah reza Mahdieh, S.L. Mousavi, Z. Veise malekshahi, Jafar Amani.
Effects of immunization by recombinant total and C-terminal fragments of UreC against *Helicobacter pylori* infection. The European Helicobacter Study Group, Rotterdam, The Netherlands- September 16 -18, 2010

4. Ziba Veise malekshahi, S. Mousavi, M. Ameri shah reza.
Studies on the effects of oral administration of UreC specific IgY of *Helicobacter pylori* on infection induced C57bl6/j mice. The European Helicobacter Study Group, Rotterdam, The Netherlands- September 16 -18, 2010

Semester seminar:

Methods of genetically improvement of *S. cerevisiae* in xylose fermentation and production of bioethanol. Under guidance of Prof. Iraj Rasooli.

Lab biosafety & *clostridium botulinum* and botulism. Under guidance of Dr. Nastaran Nafisi

DNA computing and DNA storage. Under guidance of Dr. Sina Adrangi

Solid-state fermentation. Under guidance of Prof. Hossein Vahidi

Work Experience:

Microbial cultivation, *H. pylori* cultivation, Mushroom cultivation, Protein/DNA/RNA extraction, Protein purification, ELISA, polyacrylamide/agarose electrophoresis, PCR, SDS-PAGE, Western Blot, HPTLC, HPLC, NMR, IR, FTIR, Bacterial endotoxin test, Solid-state and submerged fermentation, Freeze drying, Latex agglutination, Active and passive agglutination, SRID, ASO, Write and etc.

Teaching experience:

Teaching courses of Biotechnology, Immunology, Immunology Lab, Public Health and epidemiology and evolution at university level.

Taught workshop in edible mushroom culture.

Publications:

Papers:

Inhibition of *H. pylori* colonization and prevention of gastritis in murine model. Mahdieh Ameri Shah Reza, Seyed Latif Mousavi Gargari, Iraj Rasooli, Mohammadreza Jalali adoushan, Walead Ebrahimzadeh. World J Microbiol Biotechnol (2012) 28:2513–2519

Protein enrichment of olive cake substrate by solid state fermentation of *Lentinus edodes*. Hossein Vahidi, Mahdieh Ameri Shah Reza, Farzad Kobarfard. Trends in Peptide and Protein Sciences (2017) Vol. 1, No. 4, 177-182

Optimization of Growth Conditions of *Lentinus edodes* Mycelium and Polysaccharides on Walnut Shell By-Products Using Response Surface Analysis. Mahdieh Ameri Shah Reza, Hossein Vahidi and Farzad Kobarfard. Iranian Journal of Pharmaceutical Research (2018), 17 (4): 1509-1522

Fungus-mediated Extracellular Biosynthesis and Characterization of Zirconium Nanoparticles Using Standard Penicillium Species and Their Preliminary Bactericidal Potential: A Novel Biological Approach to Nanoparticle Synthesis. Iranian Journal of Pharmaceutical Research (2019), 18 (4): 2101-2110

Research projects:

Designing of solid-state fermentation system to enhance the content of *L.edodes* polysaccharides (LEPLs) in *Lentinus edodes*. Shahid Beheshti University of Medical Sciences, 2018.

Production of *Shiitake* (*Lentinus edodes*) Mushroom in Lignocellulosic Residues and Extraction and Determination of Glucan Contents in the Fruiting Bodies of *Lentinus edodes*. Shahid Beheshti University of Medical Sciences, 2018.

Comparison of solid-state and submerged liquid fermentation for total polysaccharides production, by *Ganoderma lucidum*. Shahid Beheshti University of Medical Sciences, 2018.

Advisor of Pharm.D Thesis:

Effect of nutritional and environmental conditions on production of *Laccase*, using *Lentinus edodes* (*Basidiomycete*) by Solid-state fermentation (Soroosh Alae)

- ✓ Comparison of solid-state and submerged liquid fermentation for *total polysaccharides production, by Ganoderma lucidum* (*Basidiomycete*) (Mohammad Mahdi Keypour)

Summary of Qualification:

Place in the First ranking category of outstanding talented student by *School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran. (2018)*

The 1st in Ph.D. board examination. (2015)

Research Interests:

Optimization of fermentation process (solid & liquid fermentation)
Designing of Fermenter and its utilization in Drug & food industries
Fermenter setup
Optimization of recombinant protein production process
Monoclonal antibody production
Optimization of bioactive compound production process
Bioactive compound analysis
Good Manufacturing Practice (GMP)
Good Laboratory Practice (GLP)
Experimental design
Lab biosafety

I hope to be a positive influence in the field of Biotechnology and help to the improvement of my Country.