

**Ph.D of Molecular genetics**

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**I. Educational Information:**

<b>Degree</b>	<b>Institution</b>	<b>Field</b>	<b>Date</b>
High School Diploma	Amir Kabir High School, High honored Diploma,	Natural Sciences	1986
B.Sc	Medical University of Kashan	Laboratory sciences	1999
M.Sc	Medical University of Esfahan	Medical Microbiology	2003
Ph.D	National Institute Of Genetic Engineering And Biotechnology (NIGEB-Tehran)	Molecular Genetics	2004-2010

**III. PROFESSIONAL AND ACADEMIC/SCIENTIFIC EXPERIENCES:**

2003-2006 **Faculty member**, Department of Microbiology, Medical University of Lorestan

2004-Present **Research Fellow**, Center for research of IBTO

**IV. MEMBERSHIP OF SCIENTIFIC SOCIETIES/BOARDS:**

2004-present Iranian Biotechnology Society

**V. TECHNICAL SKILLS:**

- 1) Gene cloning and expression vector construct
- 2) Single and double digestion with restriction enzymes
- 3) Bacterial transformation methods
- 4) Mini and Maxi preparation of plasmids with or without commercial kits
- 5) Cell culture methods
- 6) Cellular transfection by Calcium phosphate
- 7) Gel agarose electrophoresis and SDS-PAGE

- 9) Immunoblotting (EIA) and Western Blot
- 10) Dot blot and Southern blot
- 11) Primer / probe designing
- 12) Monocyte and lymphocyte isolation from whole blood by Ficol
- 13 Bacterial /Genomic/ Viral DNA and RNA extraction
- 14) PCR techniques

## VI. Work Experiences:

- 1) Cloning of CHO gene into a plasmid for expression.
- 2) Cholesterol affinity chromatography for purification of recombinant cholesterol oxidase gene(Cho 501).
- 3) Isolation and purification of Cholesterol oxidase gene from Native *Rhodococcus* sp. 501 and its cloning into cloning and expression vectors.

## VII. Publications:

1. Lashkarian H E, Raheb J, Shahzamani K, Shahbani H, Bambai B, Sadeghizadeh M , Shamsara M. A newly isolated *Rhodococcus* sp. from Soil can produce Cholesterol Oxidase . (Accepted for publishing in Iranian Biomedical Journal).
2. Raheb J., Lashkarian H E., Memari B. Identification of Novel Cholesterol oxidase from *Rhodococcus Erythropolis ATCC4277*. International journal of Biotechnology and Biochemistry, 2009;5(4):423-431.
- 3- Shahzamani K., Merat S., Hamed Esmail Lashkarian., Rezvan H., Samiee S., Sadeghizadeh M., Karimi M., Naghizadeh R., Sabahi F. Rapid Low-Cost Detection of Hepatitis C virus RNA in HCV-infected patients by Real-Time RT-PCR using SYBR Green I (Accepted for publishing in Archives of Iranian Medicine).
- 4- Identification of novel cholesterol oxidase from *rhodococcus erythropolis ATCC 4277*  
Journal Name: THE FREE LIBRARY By FARLEX  
Authors:Hamed Esmaeil lashgarian – babak memari- mohammad javad hajipour – kamaladin haghbeen- maryam baharloui tancheshmeh. Year of publication:2006
- 5- Measurement of the patulin toxicant using high performance liquid chromatography (HPLC) in apple juices supplied in Khoramabad City, Iran  
Journal Name: International Journal of medical Research & Health Sciences VOL: 5NO:11  
Authors:Elham esmaeil lashgarian- Hamed Esmaeil lashgarian- kiana shahzamani and Asghar Sepahvand. Year of publication: 2016
- 6- Molecular Identification of Cholesterol Oxidase Enzyme-Producing *Streptomyces* Bacteria in soil of Lorestan Province , Iran  
Journal Name: International Journal of medical Research & Health Sciences VOL: 5NO:11

Authors: Hamed Esmaeil lashgarian– sareh Jahanbakhsh and Kiana Shahzamani  
Year of publication: 2016

7- Cloning , expression , and enzymatic activity evaluation of cholesterol oxidase gene isolated from a native Rhodococcus sp  
Journal Name: International Journal of medical Research & Health Sciences VOL: 5NO:10  
Authors:Hamed Esmaeil lashgarian - Kiana Shahzamani and sareh Jahanbakhsh  
Year of publication:2016

8- Qualitative Detection of HCV and GBV-C CO-Infection Cirrhotic Patients Using a SYBR Green Multiplex RT- PCR Technique  
Journal Name: Malaysian society of parasitology and tropical medicine VOL: 5 NO:2  
Authors:Kiana Shahzamani , Hamed Esmaeil lashgarian  
Year of publication: 2017

9- جداسازی باکتریهای بومی تولید کننده آنزیم کلسترول اکسیداز از خاک، آب ، پساب کارخانه هاب چرم و پوست ، صابون سازی و فراورده های لبنی  
عنوان، جلد و شماره ی مجله: فصلنامه علمی پژوهشی یافته دوره پانزدهم شماره 1  
ایندکس مجله: سطح 1  
اسامی نویسندگان به ترتیب: حامد اسمعیل لشگریان – کیانا شاهزamani- جمشید راهب  
سال انتشار مجله: بهار 92

10- همسانه سازی ژن آنزیم کلسترول اکسیداز سویه بومی ایرانی Rhodococcus sp, 502 در راستای تولید آفت کش بیولوژیکی پنبه  
عنوان، جلد و شماره ی مجله: مجله پژوهش های پنبه ایران جلد سوم شماره دوم  
ایندکس مجله: سطح 1  
اسامی نویسندگان به ترتیب: صبا بهرامی- مسعود توحید فرد- محمدعلی ابراهیمی – حامد اسمعیل لشگریان  
سال انتشار مجله: 1394

11- تعیین کمی بار ویروسی هیپاتیت C با استفاده از روش In-House Real-Time PCR در بیماران آلوده به هیپاتیت C در شهرستان خرم آباد  
عنوان، جلد و شماره ی مجله: فصلنامه علمی پژوهشی یافته دوره هیجدهم شماره 1  
ایندکس مجله: سطح 1  
اسامی نویسندگان به ترتیب: کیانا شاه زمانی – حامد اسمعیل لشگریان – امیدعلی پاپی- حمید مخیری  
سال انتشار مجله: بهار 95

12- بررسی اثر پروتئین Core و ویروس هیپاتیت c (HCV) بر روی miR-150  
عنوان، جلد و شماره ی مجله: فصلنامه علمی پژوهشی یافته دوره هیجدهم شماره 2  
ایندکس مجله: سطح 1  
اسامی نویسندگان به ترتیب: صیاد خانی زاده – کیانا شاه زمانی – هادی رضوی نیکو- حامد اسمعیل لشگریان  
سال انتشار مجله: تابستان 95

13- مکانیسم و میزان تخریب سلولهای سرطانی رده PC12 به وسیله نانو ذره طلا پوشیده شده با لیزین  
عنوان، جلد و شماره ی مجله: مجله دانشگاه علوم پزشکی بابل دوره هیجدهم شماره 8  
ایندکس مجله: سطح 1  
اسامی نویسندگان به ترتیب: کیانا شاه زمانی – هادی زارع مرزونی- فاضل ترخان – حامد اسمعیل لشگریان  
سال انتشار مجله: اسفند 95

## VIII. ARTICLES UNDER REVIEW

## IX. LIST OF PAPERS PRESENTED IN CONGRESSES AND SEMINARS:

1- Shahzamani K., **Esmail Lashkarian H.**, Sabahi F., Abdi J. Prevalence of Hepatitis C virus in Blood Donors Referred to Lorestan Blood Transfusion Organization. Presented in Iranian Congress of Virology, 2006, Tehran, Iran

2- Shahzamani K., **Esmail Lashkarian H.**, Sabahi F., Abdi J., Sadeghi-zadeh M., Moazami Goodarzi H.R. Improving a sensitive and specific RT-PCR method for detection of HCV RNA in First-time blood donors. Presented in 1<sup>st</sup> International Transfusion Medicine Congress 2007, Tehran, Iran.

3- **Esmail Lashkarian H.**, Shahbani Zahiri H., Shahzamani K., Sadeghizadeh M., Raheb J., Isolation and identification of a native *Rhodococcus* strain producing cholesterol oxidase from soil. Oral Presentation in 6<sup>th</sup> National Biotechnology Congress 2009, Tehran, Iran.

4- **Esmail Lashkarian H.**, Shahbani Zahiri H., Shahzamani K., Raheb J., Isolation and identification of a novel Cholesterol Oxidase gene from Iranian native *Rhodococcus* strain. Oral Presentation in 14<sup>th</sup> European congress on Biotechnology 2009, Barcelona, Spain.

5- **Esmail Lashkarian H.**, Raheb J., Shahzamani K., Minucmehr Z., Bardania H. Bioinformatics analysis of Cholesterol Oxidase gene derived from a native *Rhodococcus sp. Strain 501*. Presented in 3<sup>th</sup> Iranian Congress of Bioinformatics, 2010, Tehran, Iran

6- **Esmail Lashkarian H.**, Yazdani R., Shahzamani K. Isolation and identification of *Legionella pneumophila* from Ball specimen. Presented in 6<sup>th</sup> Iranian Congress of Microbiology, 2003, Tehran, Iran

## X. COURSES TAUGHT:

- 1) Microbiology techniques for B.Sc students
- 2) Virology course for B.Sc/Msc students
- 3) Cell culture techniques for M.Sc students
- 4) Molecular biology techniques for M.Sc and Ph.D students

## XI. RESEARCH PROJECTS:

1- Isolation and identification of a native *Rhodococcus* strain producing cholesterol oxidase from soil.

2- Purification of Recombinant Cholesterol Oxidase enzyme .

## **XII. COLLABORATING IN RESEARCH PROJECTS:**

1. Study the prevalence of occult HBV in chronic HCV-infected patients and evaluation the effects of this infection on liver histology and response to antiviral therapy of chronic hepatitis C .
2. Study of Genetic polymorphisms of interferon receptor genes (IFNAR1 and IFNAR2) in HCV infected patients and its association with combined therapy.
3. Development of a SYBR Green real time multiplex RT-PCR technique for simultaneous detection of HCV/GBV-C in HCV and HIV/HCV positive plasma samples and examination and comparison of hepatitis C related liver disease between these patients.

## **XIII. REGISTRATION IN GENE BANK**

1. [Rhodococcus sp. 501 partial 16S rRNA gene, strain 501](#) 947 bp linear genomic  
FN298676.2 GI:226489016
2. [Rhodococcus sp. 501 partial cho gene for cholesterol oxidase, strain 501](#) 1,600 bp linear genomic  
FN421337.1 GI:251821392
3. [Rhodococcus sp. 502 partial 16S rRNA gene, strain 502](#) 1,407 bp linear genomic  
FN430570.1 GI:254265615

## **XIV. NAMES AND ADDRESSES OF SEVERAL REFEREES:**

Dr. Jamshid Raheb: Dept. of Industrial Microbiology, National Institute of Genetic Engineering and Biotechnology. Email: [jam@nijeb.ac.ir](mailto:jam@nijeb.ac.ir) ; Phone: +98-21-44580387.

Dr. Bijan Bambai: Dept. of Industrial Microbiology, National Institute of Genetic Engineering and Biotechnology. Email: [bijan\\_bambai@nijeb.ac.ir](mailto:bijan_bambai@nijeb.ac.ir) ; Phone: +98-9329103478.