

CURRICULUM VITAE

(Last updated. 2017)



ALI AFGAR, Ph.D. of **Medical Biotechnology**

Address

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Place of birth: Bam- Iran

Marital status: married

Nationality: Iranian

Native speaker: Persian & L2: English(UPPER INTER MEDIATE)

Education

Ph.D (Oct. 2016): Medical biotechnology, Department of Biotechnology, Iran Institute of Pasteur, Tehran, Iran.

M.Sc. (2005): Medical Parasitology, Kerman University of Medical Sciences, Kerman, Iran.

BS (1997): Medical Sciences Laboratory, Kerman University of Medical Sciences, Kerman, Iran,

Associate Degree (1994): Medical Sciences Laboratory, Zahedan University of Medical Sciences, Zahedan, Iran.

Professional Background

- **Nov2016 to Present** Department of Parasitology and Mycology, Kerman University of Medical Sciences, Kerman, Iran, as an assistant professor and my duties included:
 - Teaching medical protozoology and helminthology to undergraduate students and medical laboratory.
 - Teaching Primary Medical Protozoology and Helminthology and related subjects to undergraduate students such as Bs. students.
 - 2005-2007: Teaching of biology of Parasite, Parasitology, general Microbiology and Immunology in PUN university
 - 1997-2005: Teaching Laboratory of Immunology, School of Nursing Bam.
 - 2012 till now: Teaching of Medical Laboratory Immunology at the Medical University of Bam.
 - 2012 till now: Teaching of Nursing Immunology in Medical University of Bam
 - 2013 till now: Immunology Teaching of Medicine at the University of Bam.
 - 2013 till now: Teaching of Medical Genetics in Medicine at the Medical University of Bam.
 - 2013 till now: Teaching of Medical Genetics Midwifery since at the University of Medical Sciences Bam.
 - 2013 till now: Teaching of Medical Genetics of laboratory sciences at the University of Bam.
 - 2013: Teaching of medical genetic of Nursing at the University of Bam.

Researching and Performing projects.

- Guiding projects and students' thesis.
- Supervising and monitoring postgraduate students research projects as a research associate.
- Culture of pathogen intestinal and reproductive Helminth in culture condition.
- Preparation of microscopic specimens for educational purposes.
- Preparation of solutions and media for culture(cancer cell lines and parasite).
- Examining clinical specimens from patients.
- Molecular test for detection and genotyping important medical protozoa by PCR-RFLP,Real time – PCR, ARMS PCR .etc.

Workshops, Seminars, and Conferences Attended:

- 2016: Genome editing workshop with an emphasis on modern technology of CRISPER/cas9
- 2016: Advanced data analysis in Real time PCR and the MIQE Guidelines, Kerman, Iran
- 2016: International Workshop on Leishmania and Leishmaniasis immunology, vaccine and drug discovery–therapy, Tehran, Iran.

2016: Workshop, of PBL program, Kerman, Iran

2016: Workshop of small group and critical thinking, Kerman, Iran

The 12th bioinformatics workshop, which was hold by Iranian Molecular Medicine Network, 2-4 January 2011. In Pasteur Institute of Iran.

2010: New diagnosis and treatment of hepatitis B and C "Baqiyatallah Medical Sciences (AS) Research Center of Gastroenterology and Hepatology

2011: The First Quantitative Real Time PCR workshop, which was hold by Iranian Molecular Medicine Network, 12-13 February 2011. In Pasteur Institute of Iran.

2007: Workshop on molecular biotechnology techniques in the detection of zoonosis.

2007: Workshop isolation, identification, epidemiology and new findings in leishmaniasis control.

2007; Workshop on monitoring, immunization and epidemiology of brucellosis.

2007: Zoonosis workshop for emerging and re-emerging, new detection methods, strategies for prevention and control

2005: Epidemiological study of cutaneous leishmaniasis in the cities of Bam in 2004 and identification of parasite species PCR method.

2005: The prevalence of isolated bacteria from wounds and abscesses and determine antibiotic resistance in patients hospitalized in medical centers in the city of Kerman.

2000:Retraining Quality Control Hematology(BC,degree)

2000: Retraining QC(BC,degree)

1999: Retraining Hormone, Immunology, Immunology Retraining techniques of molecular parasitology approach and Biochemistry. (BC degree).

Job skills:

-Conversance with the primer design software such as Gen Runner, Allel ID, Oligoanalyzer 3.1, primer Blast and primer 3 and etc.

-Versed in design and predict the microRNA-specific primers on the genome using software.

-Proficiency in cloning and expression of genes in human cells.

-Full proficiency in specific transfection cancer cells and normal method of lipofectamine and calcium phosphate and polyfects etc.

-Fluent in the transduction of human cancer cell lines, especially second and third generation lentiviral vector methods.

-Familiar and mastered the technique of PCR in the detection of genetic diseases.

-Familiar to study gene expression in eukaryotic and prokaryotic cells using Real Time PCR.

- Familiar in High Resolution Melting (HRM) technique in recognition of epigenetic and genetic SNPs.
- Familiar and proficiency testing in cultured human cells.
- MiRNAs prediction to assess the epigenetic alteration using conventional software.
- Familiar and mastered the specific design primer for HRM in the amount of methylation in target genes using conventional software.
- Understanding and mastering in an exclusive review of microRNA expression in human cells using modified oligo(dT) technique and stem-loop method.

Research and educational interests:

1. Molecular Biotechnology techniques in the diagnosis of infectious diseases.
2. Molecular genetic diagnostic test.
3. Bioinformatics in molecular biology.
4. Design and implementation of diagnostic kits and methods of molecular genetics and genetic engineering.
5. Molecular genetic research related to cancer diagnosis.
6. Bioinformatics in health information management science and molecular biology.
7. Adequate knowledge of statistics and research methodology in software.

Responsibilities and administrative records.

- 1- Bam's Imam Khomeini hospital laboratory supervisor from 1992 to 1998
- 2- Social Security Lab Supervisor from 2000 to 2008
- 3- ISO audit the Social Security clinics in Kerman province
- 4- Bam partnership with the University of Medical Sciences, Just tuition
- 5- Bam partnership with the University of PUN, Just tuition

Papers Publications

-Ali Afgar, Pezhman Fard-Esfahani, Amirhosein Mehrtash, Kayhan Azadmanesh, Farnaz Khodarahmi, Mahdis Ghadir, and Ladan Teimoori-Toolab MiR-339 and especially miR-766 reactivate the expression of tumor suppressor genes in colorectal cancer cell lines through DNA methyltransferase 3B gene inhibition KCBT #1235657, VOL 0, ISS 0

2- **Ali Afgar**¹, Pezhman Fard-Esfahani², Mohammad Sadegh Fazeli³, Habibollah Mahmoodzadeh⁴, Setareh Kompanian¹, Kayhan Azadmanesh⁵, Masoumeh Azizi¹, Reza Mahdian¹, Ladan Teimoori-

Toolabi1* MiRNAs which are predicted for targeting DNMT3B are downregulated in colorectal cancer tissues (under review)

3- Insilico new aspects of peptid-based vaccine designing for human papilloma virus infection Maryam moazami-goodarzi1, Reza Fotouhi-Ardakani1, **Ali Afgar** (corresponding author) Approved and under publication.