CURRICULUM VITAE



Arshad Hosseini

Birthday: Yo, 1, 1977

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POSITION HELD

Assistant Professor, Department of Medical Biotechnology, Faculty of Allied Medicine, Iran University of Medical Sciences, Tehran, Iran

EDUCATION

199.-1997, B.Sc, Shahid Beheshti University, Tehran, Iran

1995-1997, M.Sc, Tehran University of Medical Sciences, Tehran, Iran

Teaching Experience / Academic Activities:

- Kurdistan University of Medical Science, 11 years teaching in different courses
- Azad University, Sanandaj, 7 years teaching in different courses
- Kurdistan University, *years teaching in different courses
- Tehran University of Medical Science

Areas of teaching:

Biotechnology, Molecular Biology, Bioinformatics, Pathobiology, water and waste water microbiology, medical parasitology and Protozoology.

KEY QUALIFICATIONS

Skils

Wet lab and inselico experiences on:

- solution preparation
- microscopy and standard biochemical characterization methods
- Whole genome sequencing
- Exome sequencing
- Isolation of genomic and plasmid DNA
- DNA Construction of plasmid and genomic library
- Shotgun cloning and sequencing
- Assembly and Annotations of the sequence
- Analysis of sequence
- real time PCR
- Proteomics
- NGS data analysis
- Cancer biomarker study
- Proficient in DNA, RNA and Protein Purification and Characterization
- Drug resistance Studies
- Familiarity with cell culture, cultivating, monitoring
- Good Team Player with exemplary analytical and problem solving skills
- Lab experience in Cell culture techniques: Maintenance of cell lines and adherent cell lines, sterile practice, Care and use of Cell culture equipments
- Restriction digestion of DNA
- primer designing, PCR
- DNA transformation (transfection of cells with plasmid DNA)
- blue white screening and southern blotting

Scientific Softwares Skills in:

- Gene Structure Prediction
- Functional motif searching
- Sequence retrieval
- Multiple sequence alignment
- Similarity Searching
- Gene Structure Prediction Tools
- YD gel analysis
- Secondary and tertiary structure prediction
- DNA analysis including translation
- Primer designing

- ORF analysis
- Phylogenetic analysis
- Protein analysis
- Sequence assembly
- Location of expression

General Softwares

Experience in Windows, MS-Office, MS-Word, MS-Excel, MS-PowerPoint, MS-Office, MS-Windows, Endnote

FIELDS OF INTEREST

Medical Biotechnology and Molecular Biology (Genetic engineering, Genetic of microorganisms, cáncer biomarkers, MiroRNA, NanoBiotechnology, PCR and Real time PCR, peptid synthesis, Bioinformatics (Genomics, transcriptomics) genomic analysis

PUBLICATIONS BOOKS

- 1. Current Buffer's and Solution's in Medical Biotechnology Mohammad Reza Fayazi Dr. Arshas Hosseini
- ⁷. Current Terminology in Medical Biotechnology Mohammad Reza Fayazi Dr. Arshas Hosseini

Research articles published papers entitled

-). Distribution of the mutated delta ^{TT} allele of CCR° co-receptor gene in Iranian population, Medical Journal of The Islamic Republic of Iran (MJIRI), Vol. ^{TA}, 15. ^{T9} November ^T. 15
- Y. SIMPLE SEQUENCE REPEATS IN SPECIFIC GENE GROUPS OF SHIGELLA GENOME, journal of IIOABJ; Vol. 4; Issue 1; Y. 17:14-Y4
- The Characterization of *Shigella flexneri* isolates by Tandem Repeat Analysis and Pulsed-Field Gel Electrophoresis, journal of IPCBEE, Total
- Econing, soluble expression and immunoreactivity of HIV-1 CRF ** _AD p ** protein in fusion with HP-thioredoxin from Iranian clinical

- isolates, journal of Lab Medicine Y · ۱ Y | Volume & T, Number T
- Simple sequence repeats in different genome sequences of *Shigella* and comparison with high GC and AT- rich genomes, journal of DNA sequence Volume 19, Issue 7 June 7 · · · A, pages 177 177.
- 7. Fuzzy Expert System for Fluid Management in General Anesthesia, Journal of Clinical and Diagnostic Research. Y · · · VAug; (٤) ٢٥٦- ٢٦٧
- V. Co-inheritance of a-and b-thalassemia in Khuzestan Province, Iran, Hematology HEM·YAI, rd \9/r/. A I ·: · r: ٤ r
- A. Study of contamination prevalence of strawberries with ova of human bowel parasites, scientific journal of Kurdistan University of medical sciences, Spring 1999, Vol 7, No 7.
- 9. DISTRIBUTION AND COMPARISON OF ANTIBIOTIC RESISTA PATHOGENICITY ISLANDS AMONG UPEC AND DEC in International Journal of Advances in Science Engineering and Technology, ISSN: ۲۳۲1-9 • 9 Volume- 5, Issue- 5, Oct.- 7 10
- Ye. Pathotypic and Phylogenetic Study of Diarrheagenic *Escherichia coli* and Uropathogenic *E. coli* Using Multiplex Polymerase Chain Reaction in Jundishapur J Microbiol.
- No. Acceptance for publish paper entitled" Optimization of HIV-Necombinant protease (rPR) expression, solubility and purification problems by TOPO-Cloning in *E.Coli* BLYN" in New Cellular and Molecular Biotechnology Journal
- Acceptance for publish paper entitled" Analysis of potential associations of two common polymorphisms in the ABCC \"UTR with breast cancer susceptibility"

Abstracts

National/International Symposia/Workshops:

- No. Poster Presentations in third congress of parasitology, March Y..., Sari, Iran on Epidemiological and sero epidemiological study of hydatidosis and echinococcusis in some regions of Kurdistan, Iran.
- Y. Poster Presentations in third congress of parasitology, March Y..., Sari, Iran on Study of contamination prevalence of strawberries with ova of human bowel parasites.
- The Poster presentation in the International symposium on frontiers in Genetics and Bioinformatics-Retrospect and Prospect organized by department of Genetics, Osmania University, Hyderabad, A-1. January, T..., on

- "Abundance, distribution and composition of simple sequence repeats in the genomes of Shigella strains".
- E. Poster presentation in the International symposium on frontiers in Genetics and Bioinformatics-Retrospect and Prospect organized by department of Genetics, Osmania University, Hyderabad, ^-\ January, \ January, \ O, on "Nucleotide Sequence Analysis of *Shigella Flexneri* \ a".
- o. Oral Presentation in fourth Annual seminar of Iranian students in India in Information technology, Bangalore, March Y..o, on "Application of Information Technology in Bioinformatics and life sciences".
- 7. Oral Presentation in International scientific experience (ISE) (IRAN, INDIA), January 7.th, 7..7, Pune India, on "Perspectives of Genome researches".
- V. Oral Presentation in Seventh Academic Seminar of Iranian students, February Y..., Science, Art, Humanities, Mysore, India on "SSR in different genome sequences of *Shigella*".
- A. Poster presentation in oth Iranian Congress of Epidemiology, October Y.A, Kurdistan University of Medical Science, Iran, on "Constipation prevalence in Kurdistan of Iran".
- 9. Poster presentation in 6th Iranian Congress of Epidemiology, October 7..., Kurdistan University of Medical Science, Iran, on "Study of dyspepsia Prevalence and some related factors in Kurdistan of Iran".
- No. Oral Presentation in the Ynd International student conference of Biotechnology, No-NV November Y...A, on "Study on SSR in Clusters of Orthologous Groups of proteins (COGs) in *Shigella flexneri* genome".
- Oral Presentation in the first seminar on Biology and Biotechnology, Y-Y March Y··A, in Kurdistan, on "Mini review on Biotechnology in Developing Countries: Status of I.R.Iran and India.
- Poster presentation in the Sixth European Meeting on Molecular Diagnostics, October ۲۲nd&۲rd ۲··• , the Netherlands on "Molecular Typing of Shigella flexneri Based on VNTR"
- Pharmaceutical Forum Y. 11, YY-Yo May, China on "Variable number of tandem repeats and pulsed-field gel electrophoresis cluster analysis of *Shigella flexneri*" and "Simple sequence repeats in Plasmids and pathogenesity islands of *Shigella* species"
- No. Oral Presentation in the 4th International Congress of Molecular Medicine, ۲۷-۳. June, ۲.۱۱, Istanbul, Turkey, on "Frequency, structure and

function of *Shigella* and *E. coli* Pathogenesity Islands" and "*Shigella* antibiotic resistance pattern and its relationship with *Shigella* resistance locus on"

- Invited Speaker in Ynd MBA Biotechnology Congress 4-1. December, Y. Y. on "Role Of Bioinformatics in the medical biotechnology development.
- Poster presentation in the 1st Congress on Novel & Innovative laboratory Techniques 7-2 Oct 7.1 Tehran, Iran on' Mitochondrial Haplotypes and their Impact on Coronary Artery Disease".
- ۱۸. Poster presentation in the 1st Congress on Novel & Innovative laboratory Techniques ۲-٤ Oct ۲۰۱۳ Tehran, Iran on' Mitochondrial haplotypes and their impact on breast cáncer"
- 19. Oral Presentation in the ^{£th} International Conference Of ISERD ^{7th} of june ^{7.17}, Istanbul on "Distribution and comparison of antibiotic resistance Pathogenicity Islands among UPEC and DEC"
- Y. Oral Presentation in the ^{£th} International Conference Of ISERD ^{¬th} of june Y. I., Istanbul on "Cloning and soluble expression of Hiv-" Crf^{¬o} protease in fusion with thioredoxin from an Iranian Clinical isolate"
- Attended in second congress of parasitology, December 1997, Tehran, Iran
- Attended workshop on "Bioinformatics analysis using Accelerys GCG and seqLab, university of Pune, 17-12 December 7.00".
- Attended Workshop on Knowledge Discovery in Life Sciences: Tools & Techniques in Bioinformatics January ۲۹-February ۲, ۲۰۰۷.
- Yo. Attended Workshop on GCG package at Bioinformatics centre from 17th to 15th of December.

RESEARCH GRANTS

- 7. Tehran University of Medical Sciences, Epidemiological and sero epidemiological study of hydatidosis and echinococcusis in some regions of Kurdistan, Iran.
- 7. Kurdistan University of Medical Science, Study of contamination prevalence of strawberries with ova of human bowel parasites.
- Kurdistan University of Medical Science, Survey of cryptosporidiosis

and other gastrointestinal parasites in children in Sanandaj, Kurdistan, Iran.

- £. Kurdistan University of Medical Science, A comparative study on obies balsam of Kurdistan (Anacardiaceae) and Canada balsam for mounting microscopy slides.
- c. Kurdistan University of Medical Science, water examination with one method of filtration for detection cyst and oocyst of protozoa and ova parasite.
- 7. Kurdistan University of Medical Science, Study of intestinal parasite prevalence in Kurdistan of Iran.
- Y. Study on *Shigella* antibiotic resistance patterns and its relationship with SRL PAI (*Shigella* resistance locus on Pathogenicity Island) in dysenteric cases.
- A. Comparision study of ' virulence genes in Escherichia coli strains isolated from urinary tract infection cases (children below ' years, pregnant ladies and old patient ° · ' vears) by multiplex PCR.
- ^q. Effects of probiotic and prebiotic composition on standard regimens for H. pylori eradication.
- pathogenecity islands of *Shigella* and *E. coli*: frequency, structure and function
- 11. Study of Biozyme Cleanse Powder for the treatment of chronic constipation
- Molecular detection of DEC and UPEC by mPCR
- 17. Distribution and comparison of antibiotic resistance Pathogenicity Islands among UPEC and DEC
- 15. Isolation and cloning of HIV CRF. protease gene into the Pet 1.7/D.TOPO vector in E.coli BL71
- 10. Evaluation of trastuzumab-resistance in Breast Cancer Patients and role of mutation and overexpression of biomarkers
- MRNA and Protein Expression of Breast Cancer's Classifier Biomarkers and their Relationship with Clinicopathological Status and Treatment Outcome in Iran

- NY. mir-Y. family and ABCCN expression analysis in drug resistant of Breast Cancer Cell Lines
- in drug resistance of Breast Cancer
- solation, cloning of HIV CRF. To protease gene and its expression in pCDNAT, expression vector in HEKT T cell line for use as protease inhibitor screening model
- Mir-15), EGFR, ETFT and MAPTK5 expression analysis in MCFV Breast Cancer Cell Line
- 71. Determining genetic alterations in CID(Combined Immuno Deficiency) patients utilizing whole exome sequencing technique
- 57. Study of genetic variation in patients with primery immuodefiencies by means of whole exome sequencing