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EMPLOYMENT HISTORY:

Assistant professor, Department of Medical Biotechnology, School of Advanced Technologies in Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Since January 2017

Executive director of Regenerative Medicine & Stem Cell Research Incubation Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Since January 2017

EDUCATION

School of Pharmacy, Shahid Beheshti University of Medical Sciences

Tehran, Iran

Pharmaceutical biotechnology- PhD

Oct 2009 to April 2015

School of Medicine, Tabriz University of Medical Sciences

Tabriz, Iran

Medical biotechnology- MSc

Oct 2007 to Aug 2009

School of Para medicine, Iran University of Medical Sciences

Tehran, Iran

Laboratory sciences – BSc

Oct 2003 to Jul 2007

Achievements and Awards

2014- Top student in Shahid Motahari educational festival, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

PUBLICATIONS

Journals

- Aptamers as smart ligands for nano-carriers targeting (TrAC- trends in analytical chemistry-2016)
- An Update on Phytochemicals Substances in Molecular Target Therapy of Cancer: Potential Inhibitory Effect on Telomerase Activity (Current Medicinal Chemistry – 2016)
- Direct Immobilization of Coagulation Factor VIII on Au/Fe₃O₄ Shell/Core Magnetic Nanoparticles for Analytical Application (trends in peptide and protein sciences-2016)

- Enhanced Production of Insulin-Like Growth Factor I Protein in *Escherichia coli* by optimization of five key factors.(Iranian Journal of Pharmaceutical Sciences, 2014)
- Effects of *Curcuma longa* Extract on Telomerase Activity in Lung and Breast Cancer Cells(Zahedan Journal of Research in Medical Sciences vol(16), 2014)
- Lectin coated MgO nanoparticle: its toxicity, anti Leishmanial activity and macrophage activation. (Drug and Chemical Toxicology, 2013)
- The inhibitory effect of *Curcuma Longa* on telomerase activity in A549 cell line (African journal of biotechnology vol (23), 1 December, 2010)
- Incidence of Human T-Lymphotropic Virus Type 1(HTLV-1) among blood donors from Ilam, Iran (Iranian journal of virology 2008)
- Study role of age in contact dependent transmission of Mycobacterium Tuberculosis in northwest of Iran by IS6110-RFLP method (Modares Journal of Medical Sciences (Pathobiology) 2009)

Congress

- In vitro cytotoxic effect of *Curcuma Longa* n-hexane extract on None-Small Cell of Lung Cancer (6th National Biotechnology Congress of Iran 13-15 Aug, 2009)
- Determination of IC50 of *Curcuma Longa* total extract in epithelial like cell line of breast cancer T47D (Iranian congress of biochemistry and molecular biology, November 2009)
- Tuberculosis transmission in different age group in northwest of Iran by RFLP-PCR (2nd Iranian Congress of Clinical Microbiology 7-9 October 2008)

- Correlation between Mannose Binding Lectin gene variants and Host-Pathogen interactions by SSP-PCR (2nd International Congress of Clinical Microbiology 7-9 October 2008)
- Estimation of the residual risk for the transmission of HIV from blood donors in the Ilam (2nd, laboratory & medicine congress- 2009)
- Correlation between serological level of zinc and copper with telomerase expression in patient with lung cancer by TRAP assay method.(6th Iranian congress of biotechnology- 2009)
- Inhibition of breast cancer cell line (MCF-7) growth by Curcuma Longa total extract (6th Iranian congress of biotechnology- 2009)
- Evaluation of Curcuma Longa cytotoxicity effect on T47D epithelial like cell line.(6th Iranian congress of biotechnology- 2009)
- Correlation of Cytomegalovirus seropositivity and spontaneous abortion. (2nd International congress of laboratory and clinic- 2009)

Research Projects

- Production and purification of recombinant human Bone Morphogenetic Protein 2
School of Advanced Technologies in Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- Enhanced Production of Insulin-Like Growth Factor I Protein in *Escherichia coli* by optimization of key factors
*School of Pharmacy, Shahid Beheshti University of Medical Sciences
Tehran, Iran*
- Effect of Chitosan on production of Insulin- Like growth factor-I protein in *Escherichia coli*
*School of Pharmacy, Shahid Beheshti University of Medical Sciences
Tehran, Iran*
- Effect of hemoserinlacton on production of Insulin- Like growth factor-I protein in *Escherichia coli*

*School of Pharmacy, Shahid Beheshti University of Medical Sciences
Tehran, Iran*

- The inhibitory effect of *Curcuma Longa* total extract on telomerase activity in T47D and MCF7 cell lines.

*Drug Applied Research Center, Tabriz University of Medical Sciences
Tabriz, Iran*

Books

- Application of Recombinant DNA Technology in DNA Vaccine Synthesis(compilation, in Persian)
- Application of Bacteriophages In Biological Sciences(compilation, in Persian)

SEMINARS IN DEPARTMEN

- Micro bioreactors (as presenter)
- DNA vaccine (as presenter)
- Experimental design methodology (as presenter)
- Recombinant protein production strategies (as presenter)

WORKSHOPS

- SPSS
- R
- Microarray data analysis
- Lab biosafety
- Bioinformatics databases
- Peptide synthesis
- Experimental design
- Taghuchi methodology

- Cell culture
- HLA typing by PCR method
- Diagnosis of infectious disease by FLASH method
- End Note
- Reference manager
- Research methodology

INTERESTS

- *Therapeutic Protein and peptide engineering*
- *Metabolic engineering*
- *Recombinant protein production*
- *Optimization of fermentation process*
- *Probiotic production*

LABORATORY SKILLS

- *PCR*
- *DNA extraction*
- *MTT assay*
- *ELISA*
- *Cell apoptosis assay*
- *Western blotting*
- *Gene cloning*
- *Optimization of recombinant protein production process*
- *Construct design*
- *RFLP*
- *Gel electrophoresis, SDS – PAGE*
- *Fermenter setup*
- *Animal and bacterial cell culture*

REFERENCES

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Shahid Beheshti Univ. Med. Sci.,
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