



Maryam Rouhani

Gender: Female

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PROFILE

- Assistant Professor in Department of Tissue Engineering and Applied Cell Sciences at Shahid Beheshti University of Medical Sciences.
- Head of “Cell-therapy and Gene-therapy Laboratory” as founder and establisher of laboratory.

EDUCATION

- **Ph.D. in Medical Biotechnology** **2014-2018**
Pasteur Institute of Iran
Dissertation Title: Development and evaluating anti-biofilm activity of nano-conjugated recombinant endopeptidase
- **Master Science in Microbiology** **2011-2013**
Azad university, science and research branch
Dissertation Title: Cloning, expression and evaluation of recombinant Plasmodium falciparum Apical Membrane Antigen-1 for using in vaccine development and seroepidemiology studies
- **Bachelor Science in Microbiology** **2006-2010**
Azad university, Tehran north branch

WORK EXPERIENCE

- **Pasteur Institute of Iran** **2012-2019**
The National Reference Laboratory for Molecular Diagnosis of Malaria
 - Laboratory inside director
 - Senior laboratory expert
 - Teaching at graduate level
 - References senior laboratory expert
 - Bio-Safety senior laboratory expert
- **Masih Daneshvari hospital** **2008-2009 , 2010-2011**
 - Senior laboratory expert in department of Microbiology
 - Laboratory expert in department of Hematology
 - Laboratory expert in department of Serology
 - Laboratory expert in department of Parasitology
 - Laboratory expert in department of Molecular lab

RESEARCH PAPERS

1. Molecular docking studies of novel designed serratiopeptidase analogs with inhibitor and substrate ligands Publishing Process
2. Production and expression optimization of heterologous serratiopeptidase 2019
3. Molecular dynamics simulation for rational protein engineering: Present and future prospectus 2018
4. Computational design, structure refinement and molecular dynamics simulation of novel engineered serratiopeptidase analogs 2018
5. High prevalence of *pfdhfr-pfdhps* triple mutations associated with anti-malarial drugs resistance in *Plasmodium falciparum* isolates seven years after the adoption of sulfadoxine-pyrimethamine in combination with artesunate as first-line treatment in Iran 2015
6. Comparative analysis of the profiles of IgG subclass-specific responses to *Plasmodium falciparum* apical membrane antigen-1 and merozoite surface protein-1 in naturally exposed individuals living in malaria hypoendemic settings, Iran 2015

COLLABORATED PROJECT

- *Pasteur Institute of Iran*
 - Evaluation of the anti-inflammatory and anti-fibroid effect of endopptidase Seratiopeptidase engineered in animal sample 2017-2018
 - Evaluation of different adjuvants with recombinant protein Apical Membrane Antigen 1 Vivax species on the immune system in the mouse model 2015-2016
 - Comparison and evaluation of three adjuvant compounds consisting of CpG, NLX, QS-21, Poly (I: C) and MPL to increase the responses of hemoral and cellular immune systems against Apical Membrane Antigen 1 antigen *Plasmodium falciparum* and *Vivax* in the mouse model for development of multi-species vaccines 2014-2015
 - Establishment of microalgae platform for the development of malaria vaccine transmitters 2014-2016
- *Shahid Beheshti university*
 - Extraction and examination of soil microbes for the cultivation of transgenic agricultural products 2011-2012

TRANSLATED MANUSCRIPTS

1. Biochemistry, Molecular Biology and Genetics (Book) Publishing Process
2. Basic Medical Microbiology (Book) Publishing Process

PATENT

- Engineered Serratiopeptidase with enhanced thermo stability and anti-biofilm activity 2019

CONFERENCES

- **12th International Congress of Immunology and Allergy (Oral)** **Tehran 2014**
Bacterial-expressed recombinant *Plasmodium falciparum* Apical Membrane Antigen 1: Impact on functional immune responses to a malaria vaccine candidate
- **First International Congress and 13th Iranian Genetics Congress (Poster)** **Tehran 2014**
Design of recombinant *Plasmodium falciparum* Apical Membrane Antigen 1

WORKSHOPS

- Academic Writing, Azad university, science and research 2012
- Laboratory Bio-safety, Pasteur Institute of Iran 2013
- Vector and Primer design, Pasteur Institute of Iran 2014
- Flow Cytometry, Pasteur Institute of Iran 2014
- Working Techniques with Laboratory Animals, Pasteur Institute of Iran 2016

ADDITIONAL SKILLS

- *Laboratory Skills*
 - Primary and Lined Cell Culture
 - Parasite Culture
 - Vector and Primer Design
 - PCR, Real-time PCR, Overlap PCR, RFLP
 - Cloning and Protein Expression and Purification
 - ELISA, IFAT, Western blot
 - Working with Laboratory Animals
 - HLA testing used to match organ and tissue transplant recipients
 - Hematology and Serology test
 - Hormonology test
 - Microbial culture
 - Measurement of gastrointestinal parasites
- *Computer Skills*
 - Professional software and programs: OLIGO Primer Analysis Software, Gene Runner, Modular Software, SnapGene, Visual Molecular Dynamics, QMol, ExPASy, RCSB PDB, Clustal Omega, ViewerLite, GROMOS
 - General software and programs: ICDL 1, ICDL 2, SPSS, EndNote, Adobe Photoshop
- *Bilingual: English*