

## Curriculum Vitae

### Peyman Bemani



#### Personal information

Surname: Bemani

First Name: Peyman

Date of Birth: September 21, 1986

Place of Birth: Nourabad, Fars, Iran

Residency: Isfahan, Iran

Marital status: Single

Tel: +98(0)31 37929136

E-mail: [peymanbemani@gmail.com](mailto:peymanbemani@gmail.com)

[bemani.p@med.mui.ac.ir](mailto:bemani.p@med.mui.ac.ir)

#### Education

- Ph.D. in Medical Immunology, School of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran, 2013-2019
- M.Sc. in Medical Immunology, School of Medicine, Kerman University of Medical Sciences, Kerman, Iran, 2010-2013
- B.Sc. in Medical Laboratory Sciences, School of Paramedical Sciences, Ahvaz Jundishahpur University of Medical Sciences, Ahvaz, Iran, 2008-2010

- BA in Medical Laboratory Sciences, School of Paramedical Sciences, Bushehr University of Medical Sciences, Bushehr, Iran, 2006-2008

### Honors and distinctions during education

- First position in B.Sc. course, Ahvaz Jundishahpur University of Medical Sciences, Ahvaz, Iran, 2008-2010
- Member of "Gifted Talent Office" during B.Sc. course; Ahvaz Jundishahpur University of Medical Sciences, Ahvaz, Iran
- Member of "Gifted Talent Office" during M.Sc. course; Kerman University of Medical Sciences, Kerman, Iran
- Member of "Gifted Talent Office" during Ph.D course; Shiraz University of Medical Sciences, Shiraz, Iran
- Member of Iran's National Elites Foundation

### M.Sc. thesis title

Stable transfection and expression of EGFP gene in *Leishmania mexicana* H-line and its infectivity rate in BALB/c mice macrophages

### Ph.D. thesis title

Evaluation of therapeutic effects of sodium benzoate on adjuvant-induced arthritis as a rat model of rheumatoid arthritis

### Research IDs

**ORCID ID:** 0000-0003-4086-4017

**Scopus ID:** 57194506690

**Google Scholar ID:** qPc0cpAAAAAJ

**Web of Science Researcher ID:** AAE-1883-2021

**Microsoft Academic ID:** 3eg59jhi-9hhh-4f0i-feei-g7h91j61j351

**Semantic scholar ID:** 17744030

**ResearchGate:** <https://www.researchgate.net/profile/Peyman-Bemani>

### **Employment History**

- Assistant Professor of Immunology, Department of Immunology, Isfahan University of Medical Sciences, Isfahan, Iran, February 2021-present
- Head of the Medical School Central Lab, October 2021-present
- Member of the University Research Council, Isfahan University of Medical Sciences, Isfahan, Iran, November 2021-now

### **Publications**

**Symbol: \*corresponding author**

- 1) Mohammadi M, **Bemani P\***, Zarei N. Applying the Bioinformatics Methods to Design and Evaluate the SapM-M13 pIX Fusion Protein and its Theoretical Role in Phage ELISA System. *Journal of Applied Biotechnology Reports*. 2016;3(2):419-24.
- 2) Shahraki HR, **Bemani P**, Jalali M. Classification of Bladder Cancer Patients via Penalized Linear Discriminant Analysis. *Asian Pacific journal of cancer prevention: APJCP*. 2017;18(5):1453.
- 3) **Bemani P**, Mohammadi M, Hakakian A. ScFv Improvement Approaches. *Protein and peptide letters*. 2018;25(3):222-9.
- 4) **Bemani P**, Mohammadi M, Hakakian A. Anti-ROR1 scFv-EndoG as a Novel Anti-Cancer Therapeutic Drug. *Asian Pacific Journal of Cancer Prevention*. 2018;19(1):97-102.
- 5) Rezaie E, Mohammadi M, Sakhteman A, **Bemani P**, Ahrari S. Application of molecular dynamics simulations to design a dual-purpose oligopeptide linker sequence for fusion proteins. *Journal of molecular modeling*. 2018;24(11):313.
- 6) **Bemani P**, Amirghofran Z, Kamali-Sarvestani E. In Vitro Effects of Sodium Benzoate on the Expression of T Cells-related Cytokines and Transcription Factors in Adjuvant-induced Arthritis. *Iranian Journal of Allergy, Asthma and Immunology*. 2019:1-12.
- 7) Fouladvand F, **Bemani P**, Mohammadi M, Amini R, Azizi Jalilian F. A review of the methods for concentrating M13 phage. *Journal of Applied Biotechnology Reports*. 2020;7(1):7-15.

- 8) Gholijani N, Anvari E, Chenari N, **Bemani P**. Effect of Sodium Benzoate on Reducing Inflammatory Symptoms in Animal Models of Rheumatoid Arthritis. *Scientific Journal of Ilam University of Medical Sciences*. 2020;27(6):37-45.
- 9) **Bemani P\***, Amirghofran Z, Mohammadi M. Designing a multi-epitope vaccine against blood-stage of Plasmodium falciparum by in silico approaches. *Journal of Molecular Graphics and Modelling*. 2020:107645.
- 10) Joulaei H, Keshani P, Ashourpour M, **Bemani P**, Amiri S, Rahimi J, et al. The prevalence of stunting among children and adolescents living in the Middle East and North Africa region (MENA): A systematic review and meta-analysis. *Journal of global health*. 2021;11.
- 11) Asadipour M, Fazeli P, Zohouri M, **Bemani P**, Mohebbiniya M, Khansalar S, et al. IL-18 in Blood Serum of Hepatitis C Patients Might be of Predictive Value for Individual Outcomes. *Infectious Disorders-Drug Targets (Formerly Current Drug Targets-Infectious Disorders)*. 2021;21(3):389-93.
- 12) **Bemani P\***, Eklund KK, Ali-Hassanzadeh M, Kabelitz D, Schmidt RE, Meri S, et al. Proportion of T follicular helper cells in peripheral blood of rheumatoid arthritis patients: a systematic review and meta-analysis. *Expert Review of Clinical Immunology*. 2021;17(6):667-80.
- 13) Miri HH, Fazeli P, Ali-Hassanzadeh M, **Bemani P**, Kabelitz D, Kalantar K. Correlation between IL-28 polymorphism and spontaneous clearance in HCV patients: systematic review and meta-analysis. *Archives of Virology*. 2021;166(9):2469-78.
- 14) Daryabor G, Amirghofran Z, Gholijani N, **Bemani P**. Obesity and adipose tissue-derived cytokines in the pathogenesis of Multiple Sclerosis. *Endocrine, Metabolic & Immune Disorders Drug Targets*. 2022.
- 15) **Bemani P**, Jalili S, Hassanpour K, Faraji F, Gholijani N, Barazesh M, et al. Designing and Characterization of Tregitope-Based Multi-Epitope Vaccine Against Multiple Sclerosis: An Immunoinformatic Approach. *Current Drug Safety*. 2022.
- 16) Sisakht M, **Bemani P**, Ghadim MBA, Rahimi A, Sakhteman A. PyProtModel: An easy to use GUI for comparative protein modeling. *Journal of Molecular Graphics and Modelling*. 2022;112:108134.

### Ongoing researches

- Evaluation of the association of anti-SARS-CoV-2 antibody response and HLA-DR and -DQ alleles after SARS-Cov-2 vaccines

### Scientific fields of interest

Immunogenetics, Immunotherapy, Vaccine, Antibody Phage Display, Molecular & Cellular Immunology

### Software designing

- Contribution in designing and developing a software for protein blast and homology-based 3D structure modeling (PyProtModel: a toolbox for homology modeling)

### Congresses

- 11<sup>th</sup> International Congress of Immunology and Allergy of Iran, 2012, Iran, Tehran
- 12<sup>th</sup> International Congress of Immunology and Allergy of Iran, 2014, Iran, Tehran

### Poster presentation

- Different sources of antigens for induction of dendritic cells in immunological laboratory techniques (11th International Congress of Immunology and Allergy of Iran, 2012, Tehran)
- Stable transfection and expression of EGFP gene in *Leishmania mexicana* H-line and its infectivity rate in BALB/c mice macrophages (12th International Congress of Immunology and Allergy of Iran, 2014, Tehran)
- Preparation of nanoemulsion containing bee venom and evaluating its anti-rheumatoid arthritis effects topically and subcutaneously injection in rat (3rd Nanomedicine and Nanosafety Conference (NMNS 2020), 2020, Tehran, Iran)

### Teaching experiences

- Teaching practical immunology to B.Sc. Nursing and Midwifery students at Kerman University of Medical Sciences during M.Sc. course
- Teaching theoretical and practical immunology to B.Sc. Nursing and Midwifery students at Shiraz University of Medical Sciences during Ph.D course

- Teaching theoretical immunology to B.Sc. Laboratory students at Shiraz University of Medical Sciences during Ph.D course (Estahban branch)
- Teaching theoretical and practical immunology to B.Sc. Laboratory students at Shiraz University of Medical Sciences during Ph.D course (Darab branch)
- Teaching practical immunology to the students of Medicine, Dentistry and Pharmacy at Shiraz University of Medical Sciences during Ph.D course
- Teaching practical and theoretical immunology to the students of Medicine and Pharmacy at Isfahan University of Medical Sciences.
- Teaching practical and theoretical immunology to the Medical Laboratory Sciences and Midwifery students, Isfahan University of Medical Sciences.
- Teaching practical and theoretical immunology to the post graduate students, Isfahan University of Medical Sciences.

### **Technical experiences**

Phage display technology, Cell culture, Western blotting, Flow cytometry, PCR, Real time PCR, ELISA, Gene cloning, working with laboratory animals

### **Software**

#### **General software**

GraphPad prism, SPSS, Excel, Meta-analysis software (STATA, MedCalc)

#### **Bioinformatics and immunoinformatics software**

- Primer designing tools (NCBI primer designing tool (Primer3), Allele ID, Primer3)
- Protein structure prediction using homology modeling-based stand-alone tools (Modeller, Chimera) and web-based tools (I-tasser, phyre2, etc.)
- Protein-protein docking using stand-alone software (Hex) and web-based tools (ClusPro, HADDOCK, ZDock).
- B cell and T cell epitope prediction using web-based software (IEDB software, BCpreds, Bepipred, NetpanMHCII, Propred, etc.)

- GROMACS