

Curriculum Vitae

First Name: Sara

Family Name: Mohammadzadeh Sadegh

Nationality: Iranian

Position: Assistant Professor

Work Address: Medical Biology Research Center (MBRC), Kermanshah University of Medical Sciences, Kermanshah, Iran.

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Education:

2008-2015	Ph.D in Medical Biotechnology at Pasteur Institute of Iran, Tehran, Iran.
2002-2005	M.Sc. in Medical Biotechnology at Tarbiat Modarres University, Tehran, Iran.
1998-2000	B.Sc. in Medical Laboratory Sciences at Tehran University of Medical Sciences, Tehran, Iran.
1996-1998	Associated Diploma in Medical Laboratory Sciences at Kurdistan University of Medical Sciences, Sanandaj, Iran.

Awards:

1. Stood in first place in the M.Sc entrance exam of Medical Biotechnology (2002).
2. Stood in third place in the M.Sc entrance exam of Medical immunology (2002).

Ph.D Thesis:

Cloning and expression of HCV capsid and CTL- based polytopic-peptide in plant and evaluation of the immunogenicity in BALB/c mice.

Under supervision of Dr. Soheila Ajdary, Dr. Parastoo Ehsani, Dr. Ali Hatef Salmanian and advisory of Dr. Farzin Roohvand and Dr. Arash Memarnejadian, Pasteur Institute of Iran, Tehran, Iran.

M.Sc Thesis:

Preparation of recombinant anti-P24, HIV-1 antibodies using phage-display technology.

Under supervision of Dr. Foruzandeh and advisory of Dr. Rahbarizadeh and Dr. Mohammad Javad Rasaee.

Tarbiat Modarres University, Tehran, Iran.

Patents/Inventions:

Patent No.41942 regarding “production of the MR86 nanobody against marker of breast cancer MUC I from camel source” 2007

Workshop Presentations:

Participate in workshop entitled “preparation and production recombinant antibody from mouse and camel source” and participate in preparation of workshop book. Tarbiat Modarres University. Tehran, Iran (2004).

Publications:

1. **Mohammadzadeh S**, Roohvand F, Ajdary S, Ehsani P, Salmanian AH. Heterologous expression of hepatitis C virus core protein in oil seeds of *Brassica napus* L. Jundishapur J Microbiol. 2015 Nov; 8(11).
2. **Mohammadzadeh S**, Roohvand F, Memarnejadian A, Jafari A, Ajdary S, Salmanian AH, Ehsani P. Co-expression of hepatitis C virus polytope-HBsAg and p19-silencing suppressor protein in tobacco leaves. Pharm Biol. 2015 May; 20:1-9.
3. **Mohammadzadeh S**, Khabiri A, Roohvand F, Memarnejadian A, Salmanian AH, Ajdary S, Ehsani P. Enhanced-Transient Expression of Hepatitis C Virus Core Protein in Nicotiana Tabacum, a Protein With Potential Clinical Applications. Hepat Mon.2014 Nov 24;14(11).
4. **Mohammadzadeh S**, Rajabibazl M, Fourozandeh M, Rasae MJ, Rahbarizadeh F, Mohammadi M. Production of recombinant scFv against p24 of human immunodeficiency virus type 1 by phage display technology. Monoclon Antib Immunodiagn Immunother. 2014 Feb;33(1):28-33.
5. Mohammadi M, Rasae MJ, Rajabibazl M, Paknejad M, Zare M, **Mohammadzadeh S**. Epitope mapping of PR81 anti-MUC1 monoclonal antibody following PEPSCAN and phage display techniques. Hybridoma (Larchmt). 2007 Aug;26(4):223-30.

Abstracts presented to Congresses

- 1- **Mohammadzadeh S**, Ajdary S, Salmanian AH, Ehsani P, Roohvand F. Canola (*Brassica napus*) oilseeds and extracts as novel and superior tools in formulation of a plant-based HCV vaccine candidate. 6th International Tehran Hepatitis Conference, 27-29th May, 2015.
- 2- **Mohammadzadeh S**, Roohvand F, Ehsani P. Transient expression of hepatitis C virus (HCV) truncated core antigen in jafarabadi tobacco leaves. 1st conference of the ISPMF in Berlin, 17-19th June, 2014.

3- **Mohammadzadeh S**, Ehsani P, Memarnejadian A, Salmanian AH, Roohvand F. Cloning and expression of an HBsAg-fused HCV polytope by Potato virus X-based vector in tobacco. 1st International and 13th Iranian Genetics Congress, 24-26th May, 2014.

4- **Mohammadzadeh S**, Ehsani P, Ajdary S, Roohvand F, Salmanian AH, Immunization of mice by canola (*Brassica napus*) oilseeds-derived hepatitis C virus (HCV) core protein-a plant based HCV vaccine. 12th International Congress of Immunology & Allergy of Iran, 29th April-2nd May, 2014.

5- Mohammadi M, Rasaei MJ, Rajabibazl M, Paknejad M, Zare M, **Mohammadzadeh S**. epitope mapping of PR81 anti-MUC1 monoclonal antibody following PEPSCAN and phage display techniques. The 9th Iranian Congress of Biochemistry and 2nd International Congress of Biochemistry & Molecular Biology, 29th Oct.- 1st Nov., 2007, Shiraz, Iran.

6- **Mohammadzadeh S**, Foruzandeh M, Rahbarizadeh F, Rasaei M.J, Mohammadi M, Khoddami Vishteh V, Saghfi B, Gill P. Isolation and characterization of single-chain Fv genes encoding antibodies specific for p24 of HIV-1. 4th Congress of Biotechnology, 2005, Kerman, Iran.

7- **Mohammadzadeh S**, Foruzandeh M, Rahbarizadeh F, Rasaei M.J, Mohammadi M, Khoddami Vishteh V, Saghfi B. Single-chain antibody fragments (scFvs) against p24 of human immunodeficiency virus type 1. 8th Iranian Congress of Biochemistry and 1st International Congress of Biochemistry & Molecular Biology, 11-15th Sept., 2005, Tehran, Iran.

8- **Mohammadzadeh S**, Foruzandeh M, Rahbarizadeh F, Khoddami Vishteh V, Rasaei M.J, Selection of recombinant library-derived single-chain antibody fragments (scFvs) against p24 of human immunodeficiency virus type 1 (HIV-1), for targeted molecular therapy. 9th Seminar of Pharmaceutical Sciences, 2004, Tabriz, Iran.

9- Khoddami Vishteh V, Foruzandeh M, Rahbarizadeh F, **Mohammadzadeh S**, Rasaei M.J. Selection of library-derived camel recombinant single-derived antibody against p24 of human immunodeficiency virus type 1 as a promising therapeutic agent. 9th Seminar of Pharmaceutical Sciences, 2004, Tabriz, Iran.

Memberships:

- International Society for Plant Molecular Farming
- Health Biotechnology convention
- Iranian Biotechnology Society