

## Curriculum Vitae

### Marzieh Rezaei

Assistant Professor of Immunology

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### Personal Information:

Date of Birth: 25 June, 1985

Nationality: Iranian

Place of Birth: Isfahan, Iran

Residency: Isfahan, Iran

Marital status: Married

Child: 1

### Education:

- ✓ **Ph.D** (2012-2017) - Immunology (Shiraz University of Medical Sciences, School of Medicine, Shiraz, Iran)
  - ☐ The topic of Ph.D. thesis: Identification of immunoreactive proteins of pancreatic cancer using patient's sera as probe by two-dimensional (2D) immunoblot coupled to Mass spectrometry, Supervised by Prof Abbas Ghadri
  
- ✓ **M.Sc** (2008-2011) - Cellular and Molecular biology- Microbiology (Faculty of Science, Isfahan University, Isfahan, Iran)
  - ☐ The topic of M.Sc. thesis: Production of recombinant human growth hormone of eukaryotic and prokaryotic cells, Supervised by Dr Hamid Zarkesh-Esfahani.

- ✓ **B.Sc** (2004-2008) – Cellular and Molecular biology- Microbiology (Faculty of Science, Isfahan University, Isfahan, Iran)

#### **Fellowships:**

- ✓ Research fellowship, Acquired Immunodeficiency Research Center, Isfahan University of Medical Sciences, Isfahan.
- ✓ Medical education fellowship, Shiraz university of Medical Sciences, Shiraz, Iran.
- ✓ Medical education fellowship, Isfahan University of Medical Sciences, Isfahan, Iran.

#### **Honors:**

Honor PhD student of Shiraz University of Medical Sciences, 2012

Honor MSc. student of Faculty of Science, Isfahan University, 2008

Honor student of Biology Department, Isfahan University, 2004

Member of "Gifted Talent Office"; Isfahan University during MSc and Bsc studies

Top student in Isfahan University in 2007

1<sup>st</sup> ranked graduated in Bsc

1<sup>st</sup> ranked graduated in Msc

2<sup>st</sup> ranked graduated in PhD

#### **Publications:**

1. Marzieh Rezaei, Sayyed Hamid Zarkesh-Esfahani. Optimization of production of recombinant human growth hormone in Escherichia coli, Journal of research in medical science, 2012.
2. Marzieh Rezaei, Saeideh Zaghian, Giti Emtiazi. Isolation, characterization and antimicrobial activity of kefiran exopolysaccharide from kefir grains, Journal of Isfahan Medical School, 2012.
3. Marzieh Rezaei, Sayyed Hamid Zarkesh-Esfahani, and Marjan Gharagozloo. Effect of different treatments on the production of recombinant human growth hormone in CHO cells, Research in Pharmaceutical Sciences, 2013.

4. Marzieh Rezaei, Sayyed Hamid Zarkesh-Esfahani, Production of recombinant human growth hormone by eukaryotic CHO cell and measurement of its biological activity by gene reporter assay. Razi Journal of Medical Sciences, 2013.
5. S.H. Zarkesh-Esfahani, M. Rezaei, Effect of different treatments on production of recombinant human growth hormone in CHO cells, growth hormone and igf research journal, 2012.
6. Marzieh Rezaei, Ahmad Hoseini, saman nickeghbalian, Abbas Ghaderi, Establishment and characterization of a new human acinar cell carcinoma cell line, Faraz-ICR, from pancreas. Pancreatology, 2017.
7. Marzieh Rezaei, Abbas Ghaderi, Production of a Mouse Monoclonal Antibody Against Mortalin by Whole Cell Immunization, Monoclonal antibodies in immunodiagnosis and immunotherapy, 2017.
8. Marzieh Rezaei, saman nickeghbalian, Zahra Mojtahedi and Abbas Ghaderi, Identification of antibody reactive proteins in pancreatic cancer using two-dimensional immunoblot coupled to mass spectrometry, Oncology report, 2018.
9. Marzieh Rezaei, Abbas Ghaderi, Monoclonal antibody production against Vimentin by whole cell immunization in a mouse model. Iranian journal of biotechnology, 2018.
10. Separation of Mesenchymal stem cells from normal and cancerous tissue of pancreas and comparison of their properties. Iranian journal of biotechnology, (Abstract Book), 2017.

<b>Congresses:</b>
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**Oral presentation:**

1. Marzieh Rezaei, Sayyed Hamid Zarkesh-Esfahani, Production of recombinant human growth hormone by eukaryotic CHO cell line, The 16<sup>th</sup> National and 4<sup>th</sup> international conference of biology of Iran. September 14-16, 2010, Faerdowsi university of Mashhad, Iran.
2. Marzieh Rezaei, Sayyed Hamid Zarkesh-Esfahani, Comparison of rhGH biological activity produced in eukaryotic and prokaryotic hosts, The 2<sup>nd</sup> National Biology Congress on Young Researchers, February 2011, Tehran, Iran.

**Poster presentation:**

1. Marzieh Rezaei<sup>1</sup>, Sayyed Hamid Zarkesh-Esfahani, Expression and enhancement of production of recombinant human growth hormone in *Escherichia coli* strains, Isfahan 1<sup>th</sup> international and 3<sup>th</sup> national congress of endocrine and metabolism updates, December 2010, Isfahan, Iran.

2. Marzieh Rezaei, Saeideh Zaghian, Giti Emtiazi, Isolation, characterization and antimicrobial activity of kefir exopolysaccharide from kefir grains, 4<sup>th</sup> Iranian congress of clinical microbiology, November 2010, Isfahan, Iran.
3. Marzieh Rezaei, Abbas Ghaderi, Generation of a murine hybridoma clone producing monoclonal antibody directed against a newly established human acinar cell carcinoma of pancreas. 13<sup>th</sup> international congress of immunology and allergy of iran, April 2016, Tabriz, Iran.
4. Marzieh Rezaei, Maryam-sadat Mohtasebi, Saman Nikeghbalian, Abbas Ghaderi, Establishment and characterization of a human pancreatic carcinoma cell line in continuous cell culture, International congress of immunology, Melbourne, August 2016, Australia.
5. . Marzieh Rezaei, Saman Nikeghbalian, Abbas Ghaderi, Separation of Mesenchymal stem cells from normal and cancerous tissue of pancreas and comparison of their properties, Second national festival and international congress on stem cell and regenerative medicine, 13-15 July, 2017, Tehran, Iran.

#### **Honors:**

- Member of the scientific committee at 4<sup>th</sup> Iranian congress of clinical microbiology
- Top poster at 4<sup>th</sup> Iranian congress of clinical microbiology

#### **Teaching experiences:**

- Practical immunology course (PhD and MSc students, pharmacy and medical students)
- Immunological techniques
- Tumor immunology
- Basic immunology
- Cellular and molecular biology

#### **Teaching at the workshops:**

- Teaching several workshops on “SDS-page & western blot: principles and applications”, for post graduate students and/or technicians.
- Teaching two workshops on “Eukaryotic cell culture”, for post graduate students and/or technicians.
- Teaching at workshop on “Flow cytometry: principles and applications”, for post graduate students and/or technicians.

- Isolation and culture of mesenchymal stem cells

<b>Techniques:</b>
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**Expert in:** several immunological and molecular based techniques, including:

- Animal/human cell culture
- Hybridoma technique and production of monoclonal antibody
- Two-dimensional gel electrophoresis (2-DE)
- Flow cytometry
- Immunocytochemistry, Immunohistochemistry, Immunofluorescence Assay
- ELISA
- DNA and RNA extraction from blood and tissues
- Real Time (RT) PCR
- Primer designing and PCR
- Cytotoxic assay (MTT)
- SDS-PAGE and Western blotting
- MTT assay
- Invasion and Migration assay
- Colony formation assay

<b>Research area (Fields of interest):</b>
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Currently, I am a faculty member of Immunology department, Medical school, Isfahan, Iran, since 2019.

**Im interested in:**

- Cancer Immunology
- Gastrointestinal tumor microenvironment
- Immunotherapy
- Targeted therapy and induction of ICD
- Pharamoimmunology