

# Curriculum Vitae

**Name:** Amir

**Surname:** Atapour

**Date and Place of Birth:** August 28, 1979, Shiraz, Iran

**Sex:** Male

**Marital Status:** Married (Two Child).

**Professional Address:**

**Department of Medical Biotechnology, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical Sciences, Shiraz, 71348-14336 Iran.**

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## **Educations:**

1. PhD in Medical Biotechnology, Shiraz University of Medical Sciences, Shiraz, Iran, 2012-2018

## **Thesis Title:**

**Bioinformatics study, production and purification of fliC, NTgp96 proteins and fusion forms with NS5B, as well as evaluation of their effect on expression of cytokine TNF- $\alpha$  *in vitro***

2. M. Sc. in Medical Biotechnology, Isfahan University of Medical Sciences, Isfahan, Iran, 2009-2012

## **Research interests:**

- - Research on vaccines (against infectious diseases and cancer)
- *In Silico* (Bioinformatic) studies ( such as designing of vaccines)
- Cloning, Expression and Purification of recombinant Proteins

## **WORKSHOPS and COURSEs:**

1. Recombinant Antibody Production, Shiraz University of Medical Sciences, 2012.
2. Proteomics, Shiraz University of Medical Sciences, 2012.
3. In vitro manipulation of adult Stem Cells, Shiraz University of Medical Sciences, 2012.
4. Phage display, Shiraz University of Medical Sciences, 2012
5. Adenovirus type 5. production, purification and transduction: Shiraz University of Medical Sciences, 2013.
6. Non-Viral Vectors: Production, Shiraz University of Medical Sciences, 2013.

## **Laboratory and Technical skills:**

1. Expression, Purification and Refolding of recombinant proteins
2. DNA and RNA extraction, Plasmid extraction, Transformation, Cloning
3. Cell culture of bacteria and some mammalian cells
4. PCR, Gel electrophoresis.
5. Real-Time PCR
6. Western blot, SDS PAGE
7. MTT assay
8. Bioinformatics Softwares
9. ELISA

## **Training experience:**

1. Workshops lecturer (Western Blotting and SDS-PAGE)-Summer School-Shiraz University of Medical Sciences, 2016.

2. Workshops lecturer (Western Blotting and SDS-PAGE)-Summer School-Shiraz University of Medical Sciences, 2017.
3. Workshops lecturer (Western Blotting and SDS-PAGE)-Summer School-Shiraz University of Medical Sciences, 2018.

### **WORK EXPERIENCES:**

Assistant Professor in Medical Biotechnology, 1. Department of Medical Biotechnology, School of Advanced Medical Sciences and Technologies, Shiraz University of Medical sciences, Shiraz, Iran, July 28, 2019 - now

2. Working at the laboratory of Medical Biotechnology of Shiraz University of Medical sciences, Shiraz, Iran as the researcher, February 20, 2018- July 28, 2019

### **Publications:**

1. **Atapour A**, Amin Ramezani, Pooneh Mokarram, Zohreh Mostafavi-Pour. Molecular Cloning, Expression, and Purification of a Recombinant Fusion Protein (rNT-gp96-NT300). *BioPharm International* 30 (10), pg 38  
44.
2. **Atapour A**, Mokarram P, MostafaviPour Z, Hosseini SY, Ghasemi Y, Mohammadi S, Nezafat N. Designing a Fusion Protein Vaccine Against HCV: An *In Silico* Approach. *International Journal of Peptide Research and Therapeutics*, 1-12. 2019.
3. **Atapour A**, Pooneh Mokarram, Zohreh Mostafavi-Pour. Cloning, expression and purification of a novel fusion protein composed of flagellin, fliC, and NS5B of hepatitis C virus in *Escherichia coli*, *E. coli*, host. *Shiraz E-Medical Journal*. 2019; 20(1):e79898.
4. **Atapour A**, Negahdaripour M, Ghasemi Y, Razmjuee D, Savardashtaki A, Mousavi SM, Hashemi SA, Aliabadi A, Nezafat N. In Silico Designing a Candidate Vaccine Against Breast Cancer. *International Journal of Peptide Research and Therapeutics*. 2019:1-2.
5. Sisakht M, Mahmoodzadeh A, Zahedi M, Rostamzadeh D, Hasan-Abad AM, **Atapour A**. In Silico Approach for Designing a Novel Recombinant Fusion Protein as a Candidate Vaccine Against HPV. *Current Proteomics*. 2021 Aug 1;18(4):549-62.
6. **Amir Atapour**, Farideh Ghalamfarsa, Samaneh Naderi & Gholamreza Hatam Designing of a Novel Fusion Protein Vaccine Candidate Against Human Visceral Leishmaniasis (VL) Using Immunoinformatics and Structural Approaches. *International Journal of Peptide Research and Therapeutics* volume 27, pages1885–1898 (2021).

7. Jamhiri, Iman, Shahin khashayar, Kalantar kurosh, Sarvari, Jamal, **Amir Atapour**, mina, Fatemeh, Ahmadnejad, Asma, Hosseini, Seyed Younes; The Recombinant NS3 protein induced expression of immune modulatory elements in Hepatic stellate cells during its fibrotic activity. *Viral Immunology journal*. *Viral immunology*. 31 (8), 575-582.
8. Shiva Mohammadi, Zohreh Mostafavi-Pour, Younes Ghasemi, Mahadi Barazesh, Soudabe Kavousipour, **Amir Atapour**, Pooneh Mokarram, Mohammad Hossein Morowvat. In silico Analysis of Different Signal Peptides for the Excretory Production of Recombinant NS3-GP96 Fusion Protein in Escherichia coli. *International Journal of Peptide Research and Therapeutics*. 6 October 2018. <https://doi.org/10.1007/s10989-018-9775-9>.
9. Navid Nezafat, Farzaneh Vahedi, Younes Ghasemi, **Amir Atapour**, Kamiar Zomorodian, Maryam Ranjbar, Ahmad Monabati, Amir Savardashtaki. B-cell epitope mapping from eight antigens of Candida albicans to design a novel diagnostic kit: An immunoinformatics approach". Accepted for publication in *International Journal of Peptide Research and Therapeutics*. Mar 7, 2022
10. Nazari N, Jafari F, Ghalamfarsa G, Hadinia A, **Atapour A**, Ahmadi M, Dolati S, Rostamzadeh D. The emerging role of microRNA in regulating the mTOR signaling pathway in immune and inflammatory responses. *Immunology & Cell Biology*. 2021;1:19.
11. Yektaeian N, Malekpour A, **Atapour A**, Davoodi T, Hatam G. Genetic immunization against toxoplasmosis: A review article. *Microbial Pathogenesis*. 2021 Apr 27:104888.
12. **Atapour A**, Khajehzadeh H, Shafie M, Abbasi M, Mosleh-Shirazi S, Kasaei SR, Amani AM. Gold nanoparticle-based aptasensors: a promising perspective for early-stage detection of cancer biomarkers. *Materials Today Communications*. 2022 Jan 22:103181.
13. M Alizade Naini, P Mokarram, S Kavousipour, N Zare, **A Atapour**, M Hassan Zarin, G Mehrabani, M Borji. Sensitive and Noninvasive Detection of Aberrant SFRP2 and MGMT-B Methylation in Iranian Patients with Colon Polyps. *Asian Pacific journal of cancer prevention: APJCP*. 17 (4), 2185-2193.2016.
14. Mohammadkarimi V, Azarpira N, Ghanbarinasab Z, Shiri P, Dehghani FS, Nakhostin-Ansari A, TayyebiKhorrami F, **Atapour A**, Amani AM. Synthesis of Silver-Doxycycline Complex Nanoparticles and Their Biological Evaluation on MCF-7 Cell Line of the Breast Cancer. *Journal of Chemistry*. 2021 Aug 10;2021.
15. **Amir Atapour**, Parisa Vosough, Somayeh Jafari, Gholamreza Anani Sarab. A Multi-Epitope Vaccine Designed Against Blood Stage of Malaria: An Immunoinformatic And Structural Approach. **Scientific Reports**. <https://doi.org/10.21203/rs.3.rs-1195734/v1>. 9, Jul 2022.
16. Mousavi, Mojtaba; Hashemi, Seyyed Alireza ; Ghasemi, Younes; **Atapour Amir**; Amani, Ali Mohammad ; Savar dashtaki, Amir; Babapoor, Aziz; Arjmand, Omid. Green Synthesis of Silver Nano Particles

Toward Bio and Medical Applications. Artificial cells, nanomedicine, and biotechnology, 1-18. Aug 2018. <https://doi.org/10.1080/21691401.2018.1517769>.

**17.** Screening and identification of potential biomarkers for pancreatic cancer: An integrated bioinformatics analysis. Submitted. 2023

**18.** A Review: Electrochemical Biosensors for Testosterone Detection. Amin Moradi Hasan-Abad, Mohammad Ali Esmaili, Abbas Ghotaslou, **Amir Atapour**, Alireza Khoshroo, Ebrahim Naghian. Publication date 2022/11/30.

**19.** Sarvari J, Joharinia N, Shiri A, Vali A, Beigzadeh F, Davarpanah MA, Atapour A, Khoshbakht R, Jaberi O, Hosseini SY. The Sero-Prevalence of Hepatitis B and C Viruses in Municipal Waste Collectors in Southwest of Iran. *Indian Journal of Occupational and Environmental Medicine*. 2023 Apr 1;27(2):172-6.

**20.** Jafari S, Ravan M, Karimi-Sani I, Aria H, Hasan-Abad AM, Banasaz B, Atapour A, Sarab GA. Screening and identification of potential biomarkers for pancreatic cancer: an integrated bioinformatics analysis. *Pathology-Research and Practice*. 2023 Aug 2;154726.

**21.** Malehmir S, Abedini A, Sobhani-Nasab A, Eshraghi R, Akbari M, Atapour A, Hasan-Abad AM. A review of biogenic routes for the manufacture of manganese oxide nanostructures and its anti-cancer, drug delivery, anti-bacterial, and bioimaging potentialsmanrathanami. *Inorganic Chemistry Communications*. 2023 Aug 26;111306.

**22.** Malehmir S, Abedini A, Sobhani-Nasab A, Eshraghi R, Akbari M, Atapour A, Hasan-Abad AM. A review of biogenic routes for the manufacture of manganese oxide nanostructures and its anti-cancer, drug delivery, anti-bacterial, and bioimaging potentialsmanrathanami. *Inorganic Chemistry Communications*. 2023 Aug 26;111306.

**23.** Moradi Hasan-Abad A, Shabankare A, Atapour A, Hamidi GA, Salami Zavareh M, Sobhani-Nasab A. The application of peroxidase mimetic nanozymes in cancer diagnosis and therapy. *Frontiers in Pharmacology*. 2024 Jan 25;15:1339580.

**24.** Jafari S, Motedayyen H, Javadi P, Jamali K, Moradi Hasan-Abad A, Atapour A, Sarab GA. The roles of lncRNAs and miRNAs in pancreatic cancer: a focus on cancer development and progression and their roles as potential biomarkers. *Frontiers in Oncology*. 2024 Mar 15;14:1355064.

## **PUBLICATIONS -ORALS and POSTERS**

**1.** "Spirulina platensis gastroprotective property in gastric ulcer patients" Presented the e-poster at 6th international Wound and Tissue Repair Congress WTRC 2022 held in Tehran, Iran, February 1-4, 2022

**2.** "Spirulina platensis microalga in wound healing and scar management" Presented the e-poster at 6th international Wound and Tissue Repair Congress WTRC 2022 held in Tehran, Iran, February 1-4, 2022.