

In the name of GOD

Maryam Sadat Nabavinia

PERSONAL INFORMATION:

First name: Maryam Sadat

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EDUCATION

PhD candidate of Pharmaceutical Biotechnology, Mashhad University of Medical Sciences, Mashhad, Iran, September 2017

M.Sc. in Medical Microbiology, Mashhad University of Medical Sciences, Mashhad, Iran, Feb 2010
Summa cum laude

B.Sc. in Vet Laboratory Sciences, Bahonar University of Kerman, Iran, June 2005
Magna cum laude

ACADEMIC PROJECTS

PhD Thesis

Synthesis of specific DNA Aptamer against cisplatin resistance ovarian cancer cell line for targeting photodynamic therapy

M.Sc Thesis

Construction of Mtb72F expression vector by fusing the Mtb39 and Mtb32 genes of *Mycobacterium tuberculosis* 3

Other Projects

- 1- Evaluation of Mtb72f DNA vaccine of mycobacterium tuberculosis encapsulated in PLGA immunogenicity with CpG and TB10.4 adjuvant in BALBC mouse
- 2- Selected DNA Aptamer against TOBU cell line
- 3- Construction of Mtb72F as a DNA vaccine for Mycobacterium tuberculosis
- 4- Frequency and type of metallo beta lactamase of Imipenem resistance Pseudomonas aeruginosa isolated from burnt patients in Imam Reza Hospital
- 5- Frequency of Enteroviruses isolation from Acute Myocardial Infarction patient
- 6- Genotype distribution of Hepatitis C Virus in Ghaem hospital of Mashhad, north east of Iran

PUBLICATIONS

- 1- Khedri M, Abnous K, Rafatpanah H, **Nabavinia MS**, Taghdisi SM, Ramezani M, Development and Evaluation of Novel Aptamers Specific for Human PD1 Using Hybrid Systematic Evolution of Ligands by Exponential Enrichment Approach. Immunological Investigations 2020
- 2- Mansouri A, Abnous K, **Nabavinia MS**, Ramezani M, Taghdisi SM, In vitro selection of tacrolimus binding aptamer by systematic evolution of ligands by exponential enrichment method for the development of a fluorescent aptasensor, Journal of pharmaceutical and biomedical analysis, 2020
- 3- Dalirfardouei R, Tafaghodi M, Meshkat Z, Najafi A, Gholoobi A, **Nabavinia MS**, Sajedifar S, Meshkat M, Badiee A, Ramezani M, Varasteh A, Mahboubeh Naderinasab, A novel formulation of Mtb72F DNA vaccine for immunization against tuberculosis, Iranian Journal of Basic Medical Sciences 2020

- 4- Yazdian-Robati R, Arab A, Ramezani M, Rafatpanah H, Bahreyni A, **Nabavinia MS**, Abnous Kh, Seyed Mohammad Taghdisi, Smart aptamer-modified calcium carbonate nanoparticles for controlled release and targeted delivery of epirubicin and melittin into cancer cells *in vitro* and *in vivo*. Drug development and industrial pharmacy 2019
- 5- Dolati S, Ramezani M, **MS Nabavinia**, Soheili V, Abnous K, Taghdisi SM., Selection of specific aptamer against enrofloxacin and fabrication of graphene oxide based label-free fluorescent assay. Analytical biochemistry. 2018. 2

- 6- **Nabavinia MS**, Charbgo F, Alibolandi M, Mosaffa F, Gholoobi A, Ramezani M, et al. Comparison of Flow Cytometry and ELISA for Screening of Proper Candidate Aptamer in Cell-SELEX Pool. *Applied Biochemistry and Biotechnology*. 2017:1-9.
- 7- **Nabavinia MS**, Gholoobi A, Charbgo F, Nabavinia M, Ramezani M, Abnous K. Anti-MUC1 aptamer: A potential opportunity for cancer treatment. *Medicinal Research Reviews*. 2017.
- 8- **Nabavinia MS**, Ramezani M, Gholoobi A, Naderinasab M, Meshkat Z. Construction of Mtb72F Plasmid as a DNA Vaccine Candidate for Mycobacterium tuberculosis. *Reports of Biochemistry & Molecular Biology*. 2017;6(1):95.
- 9- Ghavim M, Abnous K, Arasteh F, Taghavi S, **Nabavinia MS**, Alibolandi M, et al. High level expression of recombinant human growth hormone in Escherichia coli: crucial role of translation initiation region. *Research in pharmaceutical sciences*. 2017;12(2):168.
- 10- Ghasemi F, Rostami S, **Nabavinia MS**, Meshkat Z. Developing Michigan Cancer Foundation Cells with Stable Expression of E7 Gene of Human Papillomavirus Type 16. *Iranian journal of pathology*. 2016;11(1):41.
- 11- Mirbagheri SZ, Meshkat Z, Naderinasab M, Rostami S, **Nabavinia MS**, Rahmati M. Study on imipenem resistance and prevalence of blaVIM1 and blaVIM2 metallo-beta lactamases among clinical isolates of Pseudomonas aeruginosa from Mashhad, Northeast of Iran. *Iranian journal of microbiology*. 2015;7(2):72.
- 12- **Nabavinia MS**, Rostami S, Ghasemi F, Meshkat Z. Application of McCoy cell line for propagation of herpes simplex virus type 1. *Iranian journal of medical sciences*. 2015;40(3):268
- 13- Afshari R, Nomani H, Zaniani FR, **Nabavinia MS**, Mirbagheri Z, Meshkat M, et al. Genotype distribution of hepatitis C virus in Khorasan Razavi Province, Iran. *Turkish journal of medical sciences*. 2014;44(4):656-60.
- 14- Asnaashari A, Sadrizadeh A, Ahmadi H, Meshkat M, Gholobi A, Rezaitalab F, Aamini M, Ahmadi SH, Attaran D, Tohidi M, Mohammadzadeh S, Basiri R, **Nabavinia MS**, Rostami S, Meshkat Z. The study of Mycobacterium tuberculosis in Iranian patients with lung cancer. *Joundishapur Journal of Microbiology*, 2013; pp.237-241
- 15- Shakeri MT, Foghanian B, Nomani H, Ghayour-Mobarhan M, **Nabavinia MS**, Rostami S, Ahadi M, Meshkat Z. The Prevalence of Hepatitis B Virus Infection in Mashhad, Iran: A Population-Based Study. *Iranian Red Crescent Medical Journal*, 2013;15(3), pp.245-248
- 16- Mohamadpoor, **Nabavinia MS**, A Gholoobi, MS Alavi, Z Meshkat. Enteroviruses in Acute Myocardial Infarction. *Iranian J Publ Health*, Vol. 41, No.8, Aug 2012, pp. 71-74
- 17- Riyahi Zaniani F, Meshkat Z, Naderi Nasab M, Khaje-Karamadini M, Ghazvini K, Rezaee A, Esmaily H, **Nabavinia MS** and Darban Hoseini M. The prevalence of TEM and SHV genes among Extended-Spectrum Beta-Lactamases producing Escherichia coli and Klebsiella pneumonia in Mashhad, Iran. *Iranian Journal of Basic Medical Sciences*. 2012;15(1):654-60.
- 18- **Nabavinia MS**, Naderi Nasab M, Meshkat Z, Derakhshan M, Khaje-Karamadini M. Construction of an ex-expression vector containing mtb72F of mycobacterium tuberculosis. *Cell Journal (Yakhteh)*. 2012;14(1):61-6.
- 19- **Nabavinia MS**, Naderi Nasab M, Meshkat Z, Derakhshan M, Khaje-Karamadini M. Construction of a cloning and expression vector containing Mtb32C or Rvo125 of Mycobacterium tuberculosis as an increasing expression fusion partner. *Avicenna Journal of Medical Biotechnology*. 2011;3(4):207

SKILLS

lab Skills

Cell-SELEX Protein SELEX Cloning and gene expression
Flow cytometry Virus culture RNA and DNA extraction 3

PCR and RT-PCR SDS page ELONA and ELISA Western blot MTT assay Preparation of Murine Splenocytes

Mesenchymal Stem Cell Isolation

Computer Skills

Microsoft Office Suit prism software Endnote software

Gene Runner software Flow Jo software DNAMAN software

Clustal X software

REFERENCES

Dr. Ramezani, Mohamad

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