

# *Curriculum vitae*

## *Salehe Sabouri-Shahrbabak*

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### **Personal Information**

**Surname:** Sabouri-Shahrbabak

**First name:** Salehe

**Date of birth:** Jun 19, 1983

**Citizenship:** Iranian

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### **Education**

**2013:** Ph.D. of Pharmaceutical Biotechnology, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran.

**2007:** Pharm. D., Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran.

**2001:** Diploma in Experimental Sciences, Fatemieh High school, Shahrbabak, Iran.

## Theses

**Pharm. D Thesis:** Formulation of silymarin containing vesicular systems; Evaluation of their in vitro effects on HepG2 cell line treated with H<sub>2</sub>O<sub>2</sub>.

**Ph. D Thesis:** Genome analysis and genetic map determination of phage PhaxI.

## Publications

### **Articles:**

1. **Cloning, molecular characterization and expression of a DNA-ligase from a new bacteriophage: Phax1.** Setayesh N, Sabouri-Shahrbabak S, Bakherad H, Sepehrizadeh Z. World J Microbiol Biotechnol. 2013; 29(12):2227-31.
2. **Isolation, characterization and complete genome sequence of PhaxI: an anti-*Escherichia coli* O157:H7 phage.** Sabouri Shahrbabak S, Khodabandehlou Z, Shahverdi AR, Skurnik M, Ackermann H-W, Tabatabaei Yazdi M, Sepehrizadeh Z. Microbiology, 2013; 159: 1629-38.
3. **A suggested new bacteriophage genus: “Viunalikevirus”.** Adriaenssens EM, Ackermann H-W, Anany H, Blasdel B, Connerton IF, Goulding D, Griffiths MW, Hooton SP, Kutter EM, Kropinski AM, Lee J-H, Maes M, Pickard D, Ryu S, Sepehrizadeh Z, Sabouri Shahrbabak S, Toribio AL, Lavigne R. Arch Virol, 2012; 157(10): 2035-46.
4. **Sequence Analysis of Different Domains of *Plasmodium vivax* Apical Membrane Antigen (PvAMA-1 gene) Locus in Iran.** Motevalli Haghi A, Nateghpour M, Edrissian GhH, Sepehrizadeh Z, Mohebali M, Khoramizade MR, Sabouri Shahrbabak S, Moghimi H. Iran J Parasitol, 2012; 7(1): 26-31.

5. **Optimization of a medium to enhance the killing effect of PhaxI on *E. coli* O157:H7 by BoxBehnken design.** Kamyab H, Khoshayand M, Sabouri shahrbabak S, Shahverdi AR, Sepehrizadeh Z. Submitted.

### **Books:**

Contribution in translation: “Fundamentals of pharmacognosy and phytotherapy”, 2004, Heinrich Michael.

اصول فارماکوگنوزی و گیاه درمانی، جلد اول و دوم، 1389

### **Sequence Submissions:**

- Plasmodium vivax apical membrane antigen mRNA, partial cds. Motevalli-Haghi, A., Nateghpour, M., **Sabouri, S.**, Mohebalı, M., Edrissian, G., Khorramizadeh, M., Eshraghian, M.R. and Sepehrizadeh, Z. GenBank: HM535663.1, JF682785.1-90.1 (7 sequences).
- Complete Genome sequence of PhaxI phage. **Sabouri Shahrabak, S.**, Sepehrizadeh, Z., Khodabandehlou, Z., Shahverdi, A., Tabatabaei Yazdi, M. JN673056.1.

### **Congress presentations and contribution**

- **Sabouri Shahrabak S**, Pardakhty A, Fekri A. Formulation of methoxsalen cream. 11<sup>th</sup> Seminar of Iranian Pharmacy Students, 2005, Shiraz, Iran
- **Sabouri Shahrabak S**, Pardakhty A, Mehrabani M. Formulation of niosomes containing silymarin. 12<sup>th</sup> Seminar of Iranian Pharmacy Students, 2006, Sari, Iran
- **Sabouri Shahrabak S**, Pardakhty A, Mehrabani M, Nematollahi Mahani SN. The protection effect of silymarin against oxidative stress of H<sub>2</sub>O<sub>2</sub> in HepG2 cell line can

be improved following entrapment in niosomes. 11<sup>th</sup> Iranian Pharmaceutical Sciences Conference, 2008, Kerman, Iran

- Sahebgharani M, Sepehrizadeh Z, Talebi M, **Sabouri Shahrabak S**, Esmaeili J, Jaber E. The protective effect of low dose of SNP on L-DOPA induced apoptosis. 16<sup>th</sup> World Congress of Basic and Clinical Pharmacology Copenhagen, Denmark, 17-23 July 2010.
- Referee of biotechnology section in 15<sup>th</sup> seminar of Iranian Pharmacy Students, 2010, Kerman, Iran.

### **Theses Consulted or Supervised**

Advisor, Pharm. D thesis: “investigation of different physico-chemical parameters on killing effect of PhaxI in decontamination with *E. coli* O157:H7”, Tehran University of Medical Sciences, 2012.

### **Techniques and Experiences**

- Bacterial and phage and mammalian cell culture techniques
- PCR, RT-PCR and real time PCR
- Agarose and SDS-PAGE Gel Electrophoresis
- Ligation, cloning and bacterial transformation
- Phage and bacterial genome and plasmid extraction
- Genome sequencing and annotation
- Analytical Methods: UV spectroscopy, TLC, ELISA
- Computer Skills and Bioinformatics: Word, Excel, Power Point, End note, Primer design software (Gene Runner), NCBI tools, Aragorn, TransTerm, Genome analysis tools.

## **Research Interests**

- Phage therapy
- Phage genetics
- Phage enzymes and proteins
- Phage biology (capsid assembly, gene expression, DNA packaging)
- Phage-host interaction
- Phage display for antibody production and protein interaction
- Protein engineering

## **References**

- **Dr. Zargham Sepehrizadeh**, Pharm D., Ph.D., Associate Professor of Pharmaceutical Biotechnology, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran. E-mail: zsephri@tums.ac.ir
- **Dr. Ahmad Reza Shahverdi**, Pharm.D., Ph.D., Professor of Pharmaceutical Biotechnology, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran. E-mail: shahverd@sina.tums.ac.ir
- **Dr. Abbas Pardakhty**, Pharm.D., Ph.D., Associate Professor of Pharmaceutics, Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran. E-mail: abpardakhty@kmu.ac.ir