

# *Curriculum vitae*

## *Salehe Sabouri-Shahrbabak*

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### **Personal Information**

**Surname:** Sabouri-Shahrbabak

**First name:** Salehe

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

**Citizenship:** Iranian

**Marital status:** Married

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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. **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 Shahrabak S, Toribio AL, Lavigne R. Arch Virol 2012; 157(10): 2035-46.
2. **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, Mohebal M, Khoramizade MR, Sabouri Shahrabak S, Moghimi H. Iran J Parasitol 2012; 7(1): 26-31.
3. **Cloning, molecular characterization and expression of a DNA-ligase from a new bacteriophage: Phax1.** Setayesh N, Sabouri-Shahrabak S, Bakherad H, Sepehrizadeh Z. World J Microbiol Biotechnol 2013; 29 (12):2227-31.
4. **Isolation, characterization and complete genome sequence of PhaxI: an anti-*Escherichia coli* O157:H7 phage.** Sabouri Shahrabak S, Khodabandehlou Z, Shahverdi AR, Skurnik M, Ackermann H-W, Tabatabaei Yazdi M, Sepehrizadeh Z. Microbiology 2013; 159: 1629-38.
5. **Is it necessary to change assessment methods for higher education students?** Sabouri S. Strides Dev Med Educ 2015; 12 (1): 290-291. [Farsi]
6. **A minireview on the in vitro and in vivo experiments with anti-*Escherichia coli* O157: H7 phages as potential biocontrol and phage therapy agents.** S Sabouri, Z Sepehrizadeh, S Amirpour-Rostami, M Skurnik. Int J Food Microbiol 2017; 243: 52-57.
7. **The efficacy of montelukast in adjunct with amoxicillin in treatment of acute otitis media (AOM) in children.** MB Rahmati, S Sabouri, F Sabouri. Int J Pediatrics 2017; 5 (1): 4257-4262.
8. **Comparison of Team-Based Learning and Lecturing Methods in Pharmacological Biotechnology for Pharmacology Students.** Sabouri S, Dehghani MR. Strides Dev Med Educ 2017; 14(2): e64093.
9. **A Review on Fingolimod; the First Oral Medication for Multiple Sclerosis.** Amirimoghadam P, Alimardanzadeh M, Sabouri S. J Rafsanjan Univ Med Sci 2018; 17(1): 63-74. [Farsi]

10.Change ICVCN rule 3.11. Technical Report 2017. DOI: 10.13140/RG.2.2.36261.19684

## 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.**, Mohebal, 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

- Poster presentation. Formulation of methoxsalen cream. Sabouri Shahrabak S, Pardakhty A, Fekri A. 11<sup>th</sup> Seminar of Iranian Pharmacy Students, Shiraz, Iran, 2005.
- Poster presentation. Formulation of niosomes containing silymarin. Sabouri Shahrabak S, Pardakhty A, Mehrabani M. 12<sup>th</sup> Seminar of Iranian Pharmacy Students, Sari, Iran, 2006.
- Poster presentation. Sabouri Shahrabak S, Pardakhty A, Mehrabani M, Nematollahi Mahani SN. Improvement of protection effect of silymarin against oxidative stress of H<sub>2</sub>O<sub>2</sub> in HepG2 cell line following entrapment in niosomes. 11<sup>th</sup> Iranian Pharmaceutical Sciences Conference, Kerman, Iran, 2008.
- Poster presentation. The protective effect of low dose of SNP on L-DOPA induced apoptosis. Sahebgharani M, Sepehrizadeh Z, Talebi M, Sabouri Shahrabak S,

- Esmaeili J, Jaberi E. 16<sup>th</sup> World Congress of Basic and Clinical Pharmacology, Copenhagen, Denmark, 2010.
- Referee of biotechnology section. 15<sup>th</sup> seminar of Iranian Pharmacy Students, Kerman, Iran, 2010.
  - Invited lecturer. Transgenic products, safe products conference. Shahid Bahonar University, Kerman, Iran, 2016.
  - Poster presentation. Isolating lytic coliphages from sewage. Salehe Sabouri, Sahar Amirpour-Rostami, Maryam Kianpour. 19th International Iranian Congress of Microbiology, Tehran, Iran, 2018.

### **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.
- Supervisor, Pharm. D thesis: "Isolation of anti- *E. coli* O157:H7 phages from sewage and water samples", Kerman University of Medical Sciences, 2015.
- Supervisor, Pharm. D thesis: "Isolation of lytic phages against *P. aeruginosa* from sewage and water samples", Kerman University of Medical Sciences, 2015.
- Advisor, Pharm. D thesis: "Isolation and molecular identification of polyhydroxyalkanoate producing bacterial strain", Kerman University of Medical Sciences, 2016.
- Supervisor, Pharm. D thesis: "Evaluation of cytotoxicity of some new 5-nitroimidazole derivatives on A549, MCF7, and HT-29 cell lines", Kerman University of Medical Sciences, 2017.
- Supervisor, Pharm. D thesis: "Evaluation of cytotoxic effects of Thujone on A549 and U87 MG cell lines", Kerman University of Medical Sciences, 2017.
- Supervisor, Pharm. D thesis: "Evaluation of cytotoxic activity of aqueous extract of *Thymus vulgaris* L. on HT29 and Caco-2 cell lines", Kerman University of Medical Sciences, 2017.
- Supervisor, Pharm. D thesis: "Evaluation of the cytotoxicity of Rosemary (*Rosmarinus officinalis* L.) aqueous extract on HT1080 & 3T3 cell lines", Kerman University of Medical Sciences, 2018.

- Supervisor, Pharm. D thesis: “Evaluation of cytotoxic effects of five new benzylidene malonitrile derivatives on A549, HT-29 & MCF7 cell lines”, Kerman University of Medical Sciences, 2018.
- Supervisor, Pharm. D thesis: “Formulation & physicochemical characterization of solid lipid nanoparticles of dimethyl fumarate” Kerman University of Medical Sciences, 2018.
- Supervisor, Pharm. D thesis: “Evaluation of cytotoxic activity of aqueous & alcoholic extracts of *Punica granatum* L. var *pleniflora* on A549, HT29 & 3T3 cell lines”, Kerman University of Medical Sciences, 2018.
- Supervisor, Pharm. D thesis: “Investigation of cytotoxicity of aqueous extract of *Hedera helix* L. on 3T3 and HT-29 cell lines”, Kerman University of Medical Sciences, 2018.
- Supervisor, Pharm. D thesis: “Evaluation of cytotoxic activity of aqueous extract of *Camellia sinensis* L. on HT-29 & 3T3 cell lines”, Kerman University of Medical Sciences, 2018.

## Teaching experiences

- Pharmaceutical biotechnology
- Biological products
- Animal cell culture
- Molecular biology

## 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
- Plant, animal, phage and bacterial genome extraction
- 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, Design of experiment
- Medical education fellowship (Kerman University of Medical Sciences)

## **Research Interests**

- Pharmacy educating and training
- Phage therapy
- Phage genetics, enzymes and proteins
- Phage-host interaction
- Probiotics
- Protein engineering
- Plant extract cytotoxicity