



Kerman University
of Medical Sciences

Curriculum Vitae
Salehe Sabouri (Pharm. D., Ph.D.)
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Education:

➤ **Ph.D. (2013)**

Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran

➤ **Pharm D. (2007)**

Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran

➤ **Diploma (2001); (in Experimental Science)**

Fatemieh High school, Shahrabak, Iran

Ph. D. Thesis:

- 2013 Genome analysis and genetic map determination of phage PhaxI

Pharm. D. Thesis:

- 2007 Formulation of silymarin containing vesicular systems; Evaluation of their in vitro effects on HepG2 cell line treated with H₂O₂

Academic skills:

- Bacterial and mammalian cell culture techniques
- Phage isolation and characterization
- 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, EndNote, Primer design software (Gene Runner), NCBI tools, Artemis, Aragorn, TransTerm, Genome analysis tools, Design of experiment
- Medical education fellowship (Kerman University of Medical Sciences)

Thesis Supervised:

- Pharm. D thesis: "Isolation of anti- *E. coli* O157:H7 phages from sewage and water samples", Kerman University of Medical Sciences, 2015.
- Pharm. D thesis: "Isolation of lytic phages against *P. aeruginosa* from sewage and water samples", Kerman University of Medical Sciences, 2015.
- Pharm. D thesis: "Isolation and molecular identification of polyhydroxyalkanoate producing bacterial strain", Kerman University of Medical Sciences, 2016.
- 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.
- Pharm. D thesis: "Evaluation of cytotoxic effects of Thujone on A549 and U87 MG cell lines", Kerman University of Medical Sciences, 2017.
- 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.

- 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.
- Pharm. D thesis: "Evaluation of cytotoxic effects of five new benzylidene malononitrile derivatives on A549, HT-29 & MCF7 cell lines", Kerman University of Medical Sciences, 2018.
- Pharm. D thesis: "Formulation & physicochemical characterization of solid lipid nanoparticles of dimethyl fumarate" Kerman University of Medical Sciences, 2018.
- 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.
- 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.
- 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.
- Pharm. D thesis: "Evaluation of the effect of probiotics on pro – and anti – inflammatory cytokines in bipolar mood disorder patients", Kerman University of Medical Sciences, 2018.
- Pharm. D thesis: "Evaluating the anti-biofilm effect of anti-*Pseudomonas aeruginosa* lytic phages in combination with zinc nanoparticles", Kerman University of Medical Sciences, 2018.
- Pharm. D thesis: "Structural determination studies and evaluating the effect of pH and temperature on two lytic bacteriophages against *Escherichia coli* O157:H7", Kerman University of Medical Sciences, 2019.
- Pharm. D thesis: "Evaluating the effects of some physical and chemical factors on two lytic bacteriophages against *Pseudomonas aeruginosa*", Kerman University of Medical Sciences, 2020.
- Ph.D thesis: "Screening, isolation and characterization of lytic bacteriophages against antibiotic-resistant strains of *Klebsiella pneumoniae* and *Enterobacter aerogenes*", Islamic Azad University, Qom Branch, 2020.
- Pharm. D thesis: "Evaluation of cytotoxicity of some synthetic coumarin derivatives on MCF-7 and 3T3 cell lines", Kerman University of Medical Sciences, 2020.
- Pharm. D thesis: "Evaluation of cytotoxicity of some bis-indolizine and bis-cyclopropan derivatives on MCF-7 and 3T3 cell lines", Kerman University of Medical Sciences, 2021.

Thesis Advised:

- 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.

Attendance in Congress:

- Poster presentation. Formulation of methoxsalen cream. Sabouri Shahrabak S, Pardakhty A, Fekri A. 11th

Seminar of Iranian Pharmacy Students, Shiraz, Iran, 2005.

- Poster presentation. Formulation of niosomes containing silymarin. Sabouri Shahrabak S, Pardakhty A, Mehrabani M. 12th 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 H₂O₂ in HepG2 cell line following entrapment in niosomes. 11th 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. 16th World Congress of Basic and Clinical Pharmacology, Copenhagen, Denmark, 2010.
- Referee of biotechnology section. 15th 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.
- Poster presentation. Evaluation of cytotoxicity of some synthetic coumarin derivatives on MCF-7 cell line. Azade Ebrahimi, Mehdi Abaszadeh, Salehe Sabouri. Congress of Pharmacy Updates, Tehran, Iran, 2020.
- Invited lecturer. Extremophages and mycophages. Kerman University of Medical Sciences, Kerman, Iran, 2021.
- Poster presentation. Effect of Phage-antibiotic combination therapy against clinical multidrug-resistant *Acinetobacter baumannii* isolates. Rastegar S, Hosseini-Nave H*, Tajrobehkar O, Sabouri S, Samareh A, Farmehr P. 24th Iran's International Congress of Microbiology, Tehran, Iran, 2023.

Publications: Books:

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

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. [In Persian]
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. [In Persian]
10. **Change ICVCN rule 3.11.** Technical Report 2017. DOI: 10.13140/RG.2.2.36261.19684
11. **Metronidazole aryloxy, carboxy and azole derivatives: synthesis, anti-tumor activity, QSAR, molecular docking and dynamics studies.** Faghih-Mirzaei E, Sabouri S, Zeidabadinejad L, AbdollahRamazani S, Abaszadeh M*, Khodadadi A, Shamsadinipour M, Jafari M, Pirhadi S*. Bioorg Med Chem 2019; 27 (2): 305-314.
12. **Medium optimization for polyhydroxyalkanoate production by *Pseudomonas pseudoalcaligenes* strain Te using D-optimal design.** Zihayat B, Shakibaie M, Sabouri-Shahrbabak S, Doostmohammadi M, Ameri A, Adeli-Sardou M, Forootanfar H*. Biocatal Agric Biotechnol 2019; 18: 101001.
13. **Synergistic therapeutic effects of cimetidine/famotidine in combination with doxorubicin on cancer cell lines.** Mandegari A, Gholami-Javadie A, Jafari M, Sabouri S*. J Mazandaran Univ Med Sci 2019; 28 (170): 180-185. [In Persian]
14. **Anxiety, depression, and oral health: a population-based study in Southeast of Iran.** Mohammadi TM, Sabouri A, Sabouri S*, Najafipour H. Dent Res J 2019; 16 (3).
15. **Effect of pretreatment with intracerebroventricular injection of minocycline on morphine-induced memory impairment in passive avoidance test: role of P-CREB and c-Fos.** Hamidkhaniha S, Bashiri H, Omid A, Hosseini-Chegeni A, Tavangar SM, Sabouri S, Montazeri H, Sahebgharani M*. Clin Experiment Pharmacol Physiol 2019; 46 (8), 711-722.
16. **The Efficacy of probiotics for treatment of bipolar disorder-type 1: a randomized, double-blind, placebo controlled trial.** Eslami Shahrbabaki M, Sabouri S, Sabahi A, Barfeh D, Divsalar P, Esmailzadeh M*, Ahmadi A. Iran J Psychiatr 2020; 15 (1).
17. **Exploring the possible effect of virtual education and face-to-face education methods on the score of Kerman pharmacy students.** Sabouri S*, Alimardanzadeh M. Iran J Med Edu 2020; 20: 35-42.
18. **Isolating anti *Pseudomonas aeruginosa* phages from wastewater and sewage samples: characterization of vB_PaeM_kmuV and vB_PaeM_kmuB.** S Amirpour-Rostami, M Moeinzadeh, S Sadoughizad-Asl-Ajabshir, N Satarzadeh, S Sabouri*. Res J Biotechnol 2020; 15: 28-34.
19. **Investigating the *in vitro* antiproliferative and apoptosis-inducing effects of pyranochromene derivatives.** Abaszadeh M, Ebrahimi A, Sabouri S*. Biointerface Res Appl Chem 2021; 11 (3): 10987-10995.
20. **Isolation of lytic bacteriophages from sewage samples against MDR-*Klebsiella pneumoniae* and MDR-*Enterobacter aerogenes*: a potential tool for medical purposes.** Habibinava F, Zolfaghari MR, Sabouri S, Zargar M, Soleimani M*. Iran J Med Microbiol 2021, 15 (1): 46-66.
21. **Assessment of sleep status in 6 to 18-month-old infants consuming cereals.** Dabaghzadeh F. Shakiba S, Sabouri S*, Shakiba M. JPEN 2021; 8 (2): 64-70.
22. **Isolating and sequencing vB_Kpn_3, a lytic bacteriophage against multidrug-resistant *Klebsiella pneumoniae*.** Habibinava F, Soleimani M, Sabouri S, Zargar M, Zolfaghari MR*. Future Microbiology 2021; 17 (4): 235-249.
23. **Relationship between Severe Early Childhood Caries and breast milks lactose among 12-24 month old children.** Poureslami H, Sharifi M, Vahedi M, Sabouri S, Poureslami P*, Satarzadeh N, Hatami N, Jafari P. J Dent (Shiraz) 2022; 23(2 Suppl): 410-413.

24. **Synthesis and *in vitro* antiproliferative effects of new dihydropyrano[3,2-b]chromene derivatives.** Sabouri S, Abaszadeh M*. Polycycl Aromat Comp 2021; 41 (3): 467-477.
25. **vB-Ea-5: a lytic bacteriophage against multi-drug-resistant *Enterobacter aerogenes*.** Habibinava F, Zolfaghari MR, Zargar M, Sabouri S, Soleimani M*. Iran J Microbiol 2021; 13 (2): 225.
26. **Effects of probiotics on pentylenetetrazol-induced convulsions in mice.** Sabouri S, Kangi S, Najimi S, Rahimi HR*. Epilepsy Res 2021; 176: 106723.
27. **Antioxidant and cytotoxic effects of aqueous extract of Iranian green tea (*Camellia sinensis* L.).** Mehrabani M, Amirheidari B, Ahmadiania N, Forooghi-Nematollahi M, Sabouri S*. Iran J Pharm Sci 2022; 18 (1): 77-86.
28. **Drug-induced stuttering: a comprehensive literature review.** Nikvarz N, Sabouri S*. World J Psychiatry 2022; 12 (2): 236.
29. **vB_EcoM_kmuOR and vB_EcoM_kmuGH: two broad host range coliphages effective against *Escherichia coli* O157: H7 and *Shigella flexneri*.** Amirheidari B, Satarzadeh N, Rahimi-Sabagh-Kamalabad i E, Kianpour M, Amirpour-Rostami S, Sabouri S*. J Microbiol Biotechnol Food Sci 2022; e2818.
30. **The effect of adjunctive probiotics on markers of inflammation and oxidative stress in bipolar disorder: a double-blind, randomized, controlled trial.** Sabouri S, Esmailzadeh M, Sadeghinejad A, Eslami Shahrbabaki M, Asadikaram G, Nikvarz N*. J Psychiatr Pract 2022; 28 (5): 373-382.
31. **Synthesis and *in Vitro* cytotoxicity of novel halogenated dihydropyrano [3, 2-b] chromene derivatives.** Sabouri S, Faghieh-Mirzaei E, Abaszadeh M. Acta Chimica Slovenica 2022; 69 (4): 920-927.
32. **Unraveling the anticancer potential of cinnamitrile derivatives: *in vitro* evaluation and molecular docking.** Faghieh-Mirzaei E, Kavousi H, Langarizadeh MA, Asadipour A, Sabouri S*, Pourshojaei Y*. ChemistrySelect 2023; 8 (47): e202303228.
33. **Drug-induced tongue disorders: a comprehensive literature review.** Amiri S, Nikvarz N*, Sabouri S. Current Drug Safety 2024.

Teaching Experiences:

1. Pharmaceutical biotechnology (Pharm.D)
2. Biological products (Pharm.D)
3. Animal cell culture (Pharm.D)
4. Pharmacy training (Pharm.D)
5. Molecular biology (M.Sc, Pharm.D, Ph.D)
6. Gene cloning (Ph.D)
7. Biotechnology process (Ph.D)

Interests:

- Drawing; Painting; Cooking; Cycling