

In the name of Allah the most beneficent the most merciful

Full Name: Mohammad-Reza Saberi

Date and Place of Birth: 1969 Mashhad, Iran

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Educational Background:

1. Pharm D. in pharmacy from Mashhad School of Pharmacy, 1995
2. PhD in medicinal chemistry and bioinformatics from the University of Cardiff, UK, 2003

Workshops attended:

1. Research planning
2. Research ethics
3. Network security
4. Medical informatics
5. Fundamentals of network hardware
6. QS workshop on world university ranking

Academic positions:

1. Instructor in medicinal chemistry from 1995 to 1999
2. Assistant professor in medicinal chemistry and bioinformatics from 2003 to 2009
3. Associate professor in medicinal chemistry and bioinformatics from 2009 to 2017
4. Professor in medicinal chemistry and bioinformatics from 2017 to now

Teaching Subjects:

1. Organic Chemistry (theoretical and experimental)
2. Analytical Chemistry (theoretical and experimental)
3. Medicinal Chemistry
4. Bioinformatics
5. Biochemistry
6. Protein Chemistry
7. Medical Informatics
8. Computer Fundamentals
9. Pharmacy Training

Presented Workshops:

1. Reference management (Endnote & reference manager)
2. Computer in Pharmacy
3. Internet and electronic resources for pharmacists
4. Medicinal chemistry for pharmacists
5. Docking in linux using AutoDock
6. Molecular modeling, Protein modeling and docking in MOE
7. Protein modeling in Modeller.
- 8.

Administration:

1. Pharmacy manager
2. Cultural Manager of the Pharmacy School



3. Manager of education office (Pharmacy School)
4. Library dean (Pharmacy School)
5. Computer department manager (Pharmacy School)
6. Member of Publication board (MUMS)
7. Member of research board (MUMS)
8. Member of MUMS board
9. IT Manager (MUMS)
10. Member of MUMS dean board
11. MUMS Vice Chancellor of Food and Drug

Awards:

1. Elected manager of Mashhad University of Medical Sciences 2008
2. National elected manager in health 2008

Research Interests:

Molecular modeling, Docking, SAR, QSAR, Protein Modeling, Molecular Dynamics, Bioinformatics, Medicinal chemistry, Design, Synthesis and biological evaluation of chemical compounds as drugs, Cancer drug design and evaluation, Drug delivery using nanotechnology methods and materials, design of molecular modeling software, molecular dynamic study of small and macromolecules, design, synthesis and bioassay studies of modified proteins by macromolecules such as poly ethylene glycol.

Publications:

1. Tanhaian, A., E. Mohammadi, R. Vakili-Ghartavol, M.R. Saberi, M. Mirzayi, and M.R. Jaafari, *In silico and In vitro investigation of a likely pathway for anti-cancerous effect of Thrombocidin-1 as a novel anticancer peptide*. Protein and Peptide Letters, **2020**.
2. Sharifi-Rad, A., J. Mehrzad, M. Darroudi, M.R. Saberi, and J. Chamani, *Oil-in-water nanoemulsions comprising Berberine in olive oil: biological activities, binding mechanisms to human serum albumin or holo-transferrin and QMMD simulations*. Journal of Biomolecular Structure and Dynamics, **2020**: p. 1-15.
3. Sadeghzadeh, F., A. Entezari, K. Behzadian, K. Habibi, Z. Amiri-Tehranizadeh, A. Asoodeh, M. Saberi, and J. Chamani, *Characterizing the Binding of Angiotensin Converting Enzyme I Inhibitory Peptide to Human Hemoglobin: Influence of Electromagnetic Fields*. Protein and Peptide Letters, **2020**.
4. Dareini, M., Z.A. Tehranizadeh, N. Marjani, R. Taheri, S. Aslani-Firoozabadi, A. Talebi, N.N. Eidgahi, M.R. Saberi, and J. Chamani, *A novel view of the separate and simultaneous binding effects of docetaxel and anastrozole with calf thymus DNA: Experimental and in silico approaches*. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, **2020**. 228: p. 117528.
5. Vakili-Arki, H., S. Aalaei, M. Farrokhi, E. Nabovati, M.R. Saberi, and S. Eslami, *A survey of perceptions, attitudes and practices regarding the antibiotic prescription among Iranian physicians*. Expert review of anti-infective therapy, **2019**. 17(9): p. 741-748.
6. Tehranizadeh, Z.A., M. Sankian, B.S.F. Bazzaz, J. Chamani, S. Mehri, A. Baratian, and M.R. Saberi, *The immunotoxin activity of exotoxin A is sensitive to domain modifications*. International journal of biological macromolecules, **2019**. 134: p. 1120-1131.
7. Sharifi, J., M. Saberi, and A. Javaherian. *Estimation of Pore Types in a Carbonate Reservoir through Artificial Neural Networks*. in *81st EAGE Conference and Exhibition 2019*. 2019.
8. Roudini, L., N. NayebZadeh Eidgahi, H.R. Rahimi, M.R. Saberi, Z. Amiri Tehranizadeh, S. Beigoli, and J. Chamani, *Determining the interaction behavior of calf thymus DNA with berberine hydrochloride in the presence of linker histone: a biophysical study*. Journal of Biomolecular Structure and Dynamics, **2019**: p. 1-18.
9. Mokaberi, P., V. Reyhani, Z. Amiri-Tehranizadeh, M.R. Saberi, S. Beigoli, F. Samandar, and J. Chamani, *New insights into the binding behavior of lomefloxacin and human hemoglobin using biophysical techniques: binary and ternary approaches*. New Journal of Chemistry, **2019**. 43(21): p. 8132-8145.
10. Kabiri, M., M. Tafaghodi, M.R. Saberi, M. Moghadam, S.A. Rezaee, and M. Sankian, *Separation of the epitopes in a multi-epitope chimera: Helical or flexible linkers?* Protein and Peptide Letters, **2019**.
11. Jahanshahlab, M., M. Kamshad, S. Rezaei, S. Beigoli, A.S. Rad, J. Mehrzad, S.K. Moghadam, P. Mokaberi, S. Gharebaghi, and M.R. Saberi, *New insights into alpha-lactalbumin behavior upon interaction with resveratrol*

- and curcumin by spectroscopic and molecular modeling techniques: binary and ternary system comparison. *Journal of the Iranian Chemical Society*, **2019**. 16(6): p. 1311-1326.
12. Governa, P., M.G. Cusi, V. Borgonetti, J.M. Sforcin, C. Terrosi, G. Bains, E. Miraldi, and M. Biagi, *Beyond the Biological Effect of a Chemically Characterized Poplar Propolis: Antibacterial and Antiviral Activity and Comparison with Flurbiprofen in Cytokines Release by LPS-Stimulated Human Mononuclear Cells*. **2019**. 7(4).
 13. Ghasemi, S.H., K. Etminani, H. Dehghan, S. Eslami, M.R. Hasibian, H.V. ARKI, M. Reza, M.A. SABERla, and S.M. NAMAYANDEH. *Design and evaluation of a smart medication recommendation system for the electronic prescription*. in *dHealth 2019-From eHealth to dHealth-Proceedings of the 13th Health Informatics Meets Digital Health Conference, dHealth 2019*. 2019.
 14. Ghasemi, S., K. Etminani, H. Dehghan, S. Eslami, M. Hasibian, H.A. Vakili, M. Saberi, M. Aghabagheri, and S. Namayandeh, *Design and Evaluation of a Smart Medication Recommendation System for the Electronic Prescription*. *Studies in health technology and informatics*, **2019**. 260: p. 128-135.
 15. Dareini, M., Z.A. Tehranizadeh, N. Marjani, R. Taheri, S. Aslani-Firoozabadi, A. Talebi, N.N. Eidgahi, M.R. Saberi, and J. Chamani, *A novel view of the separate and simultaneous binding effects of docetaxel and anastrozole with calf thymus DNA: Experimental and in silico approaches*. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **2019**: p. 117528.
 16. Sohrabi, T., M. Hosseinzadeh, S. Beigoli, M.R. Saberi, and J. Chamani, *Probing the binding of lomefloxacin to a calf thymus DNA-histone H1 complex by multi-spectroscopic and molecular modeling techniques*. *Journal of Molecular Liquids*, **2018**. 256: p. 127-138.
 17. Shahri, P.A., A.S. Rad, S. Beigoli, M.R. Saberi, and J. Chamani, *Human serum albumin-amlodipine binding studied by multi-spectroscopic, zeta-potential, and molecular modeling techniques*. *Journal of the Iranian Chemical Society*, **2018**. 15(1): p. 223-243.
 18. Moastajabodave, Z., S. Beigoli, A.S. Rad, M.R. Saberi, and J. Chamani, *Structural transition of lactoferrin upon interaction with estradiol as revealed by spectroscopic techniques: a molten globule state investigation*. *Journal of the Iranian Chemical Society*, **2018**. 15(9): p. 2159-2173.
 19. Labska, K., H. Plodkova, M. Pumannova, and K.H. Sensch, *Antiviral activity of propolis special extract GH 2002 against Varicella zoster virus in vitro*. *Biomedicines*, **2018**. 73(12): p. 733-736.
 20. Gonzalez-Burquez, M.J., F.R. Gonzalez-Diaz, C.G. Garcia-Tovar, L. Carrillo-Miranda, C.I. Soto-Zarate, M.M. Canales-Martinez, and J.G. Penieres-Carrillo, *Comparison between In Vitro Antiviral Effect of Mexican Propolis and Three Commercial Flavonoids against Canine Distemper Virus*. **2018**. 2018: p. 7092416.
 21. Gholizade, M., M. Nassiry, M. Saberi, and A. Haddad-Mashadrizeh, *Bioinformatics Analysis of Upstream Region and Protein Structure of Fungal Phytase Gene*. *Archives of Razi Institute*, **2018**. 73(3): p. 229-237.
 22. Danesh, N., Z. Navaee Sedighi, S. Beigoli, A. Sharifi-Rad, M.R. Saberi, and J. Chamani, *Determining the binding site and binding affinity of estradiol to human serum albumin and holo-transferrin: fluorescence spectroscopic, isothermal titration calorimetry and molecular modeling approaches*. *Journal of Biomolecular Structure and Dynamics*, **2018**. 36(7): p. 1747-1763.
 23. Zolfagharian, F., S. Ghazanfari, S. Elyasi, P. Iraj, M.R. Saberi, N. Vahdati-Mashhadian, and A.H. Mohammadpour, *Drug utilization evaluation of albumin in a teaching hospital of Mashhad, Iran: an interventional pre-post design study*. *International Journal of Clinical Pharmacy*, **2017**: p. 1-8.
 24. Naeeminejad, S., R. Assaran Darban, S. Beigoli, M.R. Saberi, and J. Chamani, *Studying the interaction between three synthesized heterocyclic sulfonamide compounds with hemoglobin by spectroscopy and molecular modeling techniques*. *Journal of Biomolecular Structure and Dynamics*, **2017**. 35(15): p. 3250-3267.
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 26. Nabovati, E., H. Vakili-Arki, Z. Taherzadeh, M.R. Saberi, A. Abu-Hanna, and S. Eslami, *A survey of attitudes, practices, and knowledge regarding drug-drug interactions among medical residents in Iran*. *International Journal of Clinical Pharmacy*, **2017**. 39(3): p. 560-568.
 27. Ghaderabad, M., M. Mansouri, S. Beigoli, A.S. Rad, J. Mehrzad, M.R. Saberi, and J. Chamani, *A comparison of the inclusion behavior of human serum albumin and holo transferrin with fluoxymesterone in the presence of three different cyclodextrins*. *Journal of the Iranian Chemical Society*, **2017**: p. 1-18.
 28. Danesh, N., Z. Navaee Sedighi, S. Beigoli, A. Sharifi-Rad, M.R. Saberi, and J. Chamani, *Determining the binding site and binding affinity of estradiol to human serum albumin and holo-transferrin: fluorescence spectroscopic,*

- isothermal titration calorimetry and molecular modeling approaches*. Journal of Biomolecular Structure and Dynamics, **2017**: p. 1-17.
29. Sforcin, J.M., *Biological Properties and Therapeutic Applications of Propolis*. Phytother Res, **2016**. 30(6): p. 894-905.
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31. Nabovati, E., H. Vakili-Arki, Z. Taherzadeh, M.R. Saberi, A. Abu-Hanna, and S. Eslami, *Incidence rate and pattern of clinically relevant potential drug-drug interactions in a large outpatient population of a developing country*. Research in Pharmaceutical Sciences, **2016**. 11(3): p. 233.
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33. Cruz-Sanchez, T.A., S. Fonseca-Coronado, A. Yildirim, G.G. Duran, N. Duran, K. Jenedi, B.S. Bolgul, M. Miraloglu, and M. Muz, *Antiviral Activity of Hatay Propolis Against Replication of Herpes Simplex Virus Type 1 and Type 2*. Evid Based Complement Alternat Med, **2016**. 22: p. 422-30.
34. Abdollahpour, N., V. Soheili, M.R. Saberi, and J. Chamani, *Investigation of the Interaction Between Human Serum Albumin and Two Drugs as Binary and Ternary Systems*. European journal of drug metabolism and pharmacokinetics, **2016**. 41(6): p. 705-721.
35. Rahnama, E., M. Mahmoodian-Moghaddam, S. Khorsand-Ahmadi, M.R. Saberi, and J. Chamani, *Binding site identification of metformin to human serum albumin and glycated human serum albumin by spectroscopic and molecular modeling techniques: a comparison study*. Journal of Biomolecular Structure and Dynamics, **2015**. 33(3): p. 513-533.
36. Khorsand Ahmadi, S., M. Mahmoodian Moghadam, P. Mokaberi, M. Reza Saberi, and J. Chamani, *A comparison study of the interaction between β -lactoglobulin and retinol at two different conditions: spectroscopic and molecular modeling approaches*. Journal of Biomolecular Structure and Dynamics, **2015**. 33(9): p. 1880-1898.
37. Khameneh, B., M.R. Jaafari, M. Hassanzadeh-Khayyat, A. Varasteh, J. Chamani, M. Iranshahi, H. Mohammadpanah, K. Abnous, and M.R. Saberi, *Preparation, characterization and molecular modeling of PEGylated human growth hormone with agonist activity*. International journal of biological macromolecules, **2015**. 80: p. 400-409.
38. Ghaemi Bafghi, M., M.R. Bassami, G.R. Hashemi Tabar, M.R. Saberi, A.R. Haghparast, and H. Dehghani, *A bioinformatic approach to check the spatial epitope structure of an immunogenic protein coded by DNA vaccine plasmids*. Journal of Theoretical Biology, **2015**. 380: p. 315-320.
39. Erdemli, H.K., S. Akyol, F. Armutcu, and O. Akyol, *Antiviral properties of caffeic acid phenethyl ester and its potential application*. J Intercult Ethnopharmacol, **2015**. 4(4): p. 344-7.
40. Zolfagharzadeh, M., M. Pirouzi, A. Asoodeh, M.R. Saberi, and J. Chamani, *A comparison investigation of DNP-binding effects to HSA and HTF by spectroscopic and molecular modeling techniques*. Journal of Biomolecular Structure and Dynamics, **2014**. 32(12): p. 1936-1952.
41. Sattar, Z., M.R. Saberi, and J. Chamani, *Determination of LMF binding site on a HSA-PPIX complex in the presence of human holo transferrin from the viewpoint of drug loading on proteins*. PloS one, **2014**. 9(1): p. e84045.
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44. Bankova, V., A.S. Galabov, D. Antonova, N. Vilhelmova, and B. Di Perri, *Chemical composition of Propolis Extract ACF(R) and activity against herpes simplex virus*. Phytomedicine, **2014**. 21(11): p. 1432-8.
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46. Tanzadehpanah, H., A. Asoodeh, M.R. Saberi, and J. Chamani, *Identification of a novel angiotensin-I converting enzyme inhibitory peptide from ostrich egg white and studying its interactions with the enzyme*. Innovative Food Science & Emerging Technologies, **2013**. 18: p. 212-219.
47. Mansouri, M., M. Pirouzi, M.R. Saberi, M. Ghaderabad, and J. Chamani, *Investigation on the interaction between cyclophosphamide and lysozyme in the presence of three different kind of cyclodextrins: determination of the binding mechanism by spectroscopic and molecular modeling techniques*. Molecules, **2013**. 18(1): p. 789-813.
48. Mahaki, H., M. Memarpoor-Yazdi, J. Chamani, and M.R. Saberi, *Interaction between ropinirole hydrochloride and aspirin with human serum albumin as binary and ternary systems by multi-spectroscopic, molecular modeling and zeta potential*. Journal of Luminescence, **2013**. 134: p. 758-771.
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- characterizations: A mechanistic insight for determining usage drugs doses. *Journal of Luminescence*, **2011**. 131(9): p. 1885-1899.
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