

Name: **Hossein**

Surname: **Vahidi**

Date of birth: 22/05/1965

Degree: PharmD, PhD.

Address: Department of Pharmaceutical Biotechnology,

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Education

Ph.D in Bioscience and Biotechnology from faculty of Science, University of Strathclyde, England. In 1996.

Pharm.D, From School of pharmacy, Tehran University of Med. Sci., Iran. In 1989.

Position

2008- continued **head of School of Pharmacy**, Shahid Beheshti University of Med. Sci

2012-2015 member of board of Daropaksh pharmaceutical company

2007 – continued **Professor** in Biotechnology, **School of Pharmacy, Shahid Beheshti University of Med. Sci.**

2001 – 2007: **Associate Professor** in Biotechnology, **School of Pharmacy, Shahid Beheshti University of Med. Sci.**

1996-2001: **Assistant Professor** in Biotechnology, **School of Pharmacy, Shahid Beheshti. Univ. of Med. Sci.**

1990- 1993: Instructor of Pharmacognosy.

Research

1990–1993: Supervisor of three Pharm.D students at the School of Pharmacy Antimicrobial activity of medicinal plants and research on biological activities of plants.

1996–2003: Supervisor of 17 Pharm..D student. School of Pharmacy. Search for biological active compounds from microbial sources. Fermentation and production of active compounds. optimization programme, etc.,

2002–2006: Supervisor of 1 Ph. D student at the school of Pharmacy. Production, Optimization and purification of antifungal agents produced by Basidiomycetes.

2004–2007: Supervisor of 1 PhD student at the school of Pharmacy. Production, Optimization of biopolymers produced by *Agaricus balazii*

2012–continued supervisor of a number of PhD student at the School of Pharmacy.

Patent

H. Vahidi. L. Harvey and D. Berry. Fermentation, optimization and production of antifungal agents produced by *Mycena leptcephala*. (1996). University of Strathclyde in UK.

Activities

- 1) 2005- continued Head of School of Pharmacy, Shahid Beheshti University of Med. Sci.
- 2) 2004- 2005 .Deputy of Dean in student affair center. Ministry of Health and Medical Education
- 3) 2001- Continued. Head of Pharmacy education reform. Ministry of Health and Medical Education.
- 4) 1998-2004. Deputy of Dean in education. School of Pharmacy Shahid Beheshti University of Medical Sciences.
- 5) 1990 1993. Deputy of Dean in education. School of Pharmacy Shahid Beheshti University

of Medical Sciences.

- 6) 1998 – continued, member of biotechnology Board of exam
- 7) 2004- continued, editor of Iranian Journal of Pharmaceutical Research
- 8) 2010 – continued, Chairman of Iranian Journal of Pharmaceutical Research
- 9) 2013- continued permanent member of academy of medical science

Book Chapters

1. D. Medina-Cruz*, E. Mostafavi*(Co-first author), A. V. Crua, A. Benko, J. L. Cholula-Diaz, T. J. Webster, M. Saravanan, **H. Vahidi**, H. Barabadi, “Nanobiosensors for theragnostic applications”, in: Handbook on Nanobiomaterials for therapeutics and diagnostic applications, Invited Book Chapter, Elsevier, 2021. <https://doi.org/10.1016/B978-0-12-821013-0.00005-2>
2. M. Saravanan, H. Barabadi, **H. Vahidi**, T. J. Webster, D. Medina-Cruz, E. Mostafavi, A. V. Crua, J. L. Cholula-Diaz, “Emerging Theranostic Silver and Gold Nanobiomaterials for Breast Cancer: Present Status and Future Prospects”, in: Handbook on Nanobiomaterials for therapeutics and diagnostic applications”, Invited Book Chapter, Elsevier, 2021. <https://doi.org/10.1016/B978-0-12-821013-0.00004-0>.
3. M. Saravanan, H. Barabadi, **H. Vahidi**, “Green nanotechnology: Isolation of bioactive molecules and modified approach of bio-synthesis”, in: “Biogenic Nanoparticles for Cancer Theranostics”, Invited Book Chapter, Elsevier, 2021. DOI: 10.1016/C2019-0-02790-2.
4. H. Barabadi,..., **H. Vahidi**, et al, "Microbial Nanotechnology-based Approaches for Wound Healing and Infection Control", in: Handbook of Microbial Nanotechnology, Chapter 1, Elsevier, 2022. <https://doi.org/10.1016/B978-0-12-823426-6.00009-7>

5. L.B. Truong, D. Medina Cruz, H. Barabadi, **H. Vahidi**, et al, "Cancer Therapeutics with Microbial Nanotechnology-based Approaches", in: Handbook of Microbial Nanotechnology, Chapter 2, Elsevier, 2022. <https://doi.org/10.1016/B978-0-12-823426-6.00004-8>
6. H. Barabadi,..., **H. Vahidi**, et al, "Antiviral Potential of Green-Synthesized Silver Nanoparticles", in: Handbook of Microbial Nanotechnology, Chapter 14, Elsevier, 2022. <https://doi.org/10.1016/B978-0-12-823426-6.00030-9>

Publications

1. E Mohit, Z Rostami, **H Vahidi**. A comparative review of immunoassays for COVID-19 detection. Expert Review of Clinical Immunology. 2021; 17 (6), 573-599.
2. M Ahmadzadeh, H Vahidi, A Mahboubi, F Hajifathaliha, L Nematollahi, et al. Different Respiratory Samples for COVID-19 Detection by Standard and Direct Quantitative RT-PCR: A Literature Review. Iranian Journal of Pharmaceutical Research: IJPR. 2021; 20 (3), 285.
3. **Vahidi H**, Kobarfard F, Alizadeh A, Saravanan M, Barabadi H. Green nanotechnology-based tellurium nanoparticles: Exploration of their antioxidant, antibacterial, antifungal and cytotoxic potentials against cancerous and normal cells compared to potassium tellurite. Inorganic Chemistry Communications. 2021; 124: 108385.
4. Hamed Barabadi, Faraz Mojab, **Hossein Vahidi**, Boshra Marashi, Niloufar Talank, Omid Hosseini, Muthupandian Saravanan. Green Synthesis, Characterization, Antibacterial and Biofilm Inhibitory Activity of Silver Nanoparticles Compared to Commercial Silver Nanoparticles. Inorganic Chemistry Communications. 2021; 129: 108647.

5. Hamed Barabadi, Alireza Mohammadzadeh, **Hossein Vahidi**, Masoumeh Rashedi, Muthupandian Saravanan, Niloufar Talank, Ahad Alizadeh. *Penicillium chrysogenum*-Derived Silver Nanoparticles: Exploration of Their Antibacterial and Biofilm Inhibitory Activity Against the Standard and Pathogenic *Acinetobacter baumannii* Compared to Tetracycline. Journal of Cluster Science. 2021. <https://doi.org/10.1007/s10876-021-02121-5>.
6. **Vahidi H**, Kobarfard F, Kosar Z, Mahjoub MA, Saravanan M, Barabadi H. Mycosynthesis and characterization of selenium nanoparticles using standard *Penicillium chrysogenum* PTCC 5031 and their antibacterial activity: A novel approach in microbial nanotechnology. Nanomedicine Journal. 9/2020; 7(4): 315-323.
7. Barabadi H, **Vahidi H**, Rashedi M, Mahjoub MA, Nanda A, Saravanan M. Recent advances in biological mediated cancer research using silver nanoparticles as a promising strategy for hepatic cancer therapeutics: a systematic review. Nanomedicine Journal. 8/2020; DOI: 10.22038/NMJ.2020.16373.
8. Emerging antineoplastic biogenic gold nanomaterials for breast cancer therapeutics: A systematic review. Saravanan. M, **Vahidi H**, Medina Cruz. D, rashedi. M, Barabadi. H. International journal of Nanomedicine. (2020) 15 p 3577-3595
9. Barabadi H, Webster TJ, **Vahidi H**, et al. Green nanotechnology-based Gold Nanomaterials for Hepatic Cancer Therapeutics: A Systematic Review. Iranian Journal of Pharmaceutical Research. 9/2020; DOI: 10.22037/IJPR.2020.113820.14504.
10. Antineoplastic biogenic silver nanomaterials to combat cervical cancer: anovel approach in cancer therapeutics. Barabadi. H, **Vahidi. H**, Damavandi Kamali, K. rashedi. M Saravanan. Journal of Cluster Science (2020) 31(4) p 695- 672

11. Emerging theratogenic gold nanomaterials to combat colorectal cancer: A systematic review. Barabadi H, **Vahidi H**, Damavandi kamali. K, Hosseini. O, saravanan. M. Journal of Cluster Science. (2020) 31(4) p 651 658
12. Emerging selenium nanoparticles to combat cancer. A systematic review. **Vahidi. H**, Barabadi, H, Saravanan, M. Journal of Cluster Science (2020) 31(2) p 301-309.
13. Emerging theratogenic silver nanomaterials to combat colorectal cancer: A systematic review. Barabadi H, **Vahidi H**, Damavandi kamali. K, Golrangi Ghomi. A. R., saravanan. M Journal of Cluster Science. (2020) 31(4) p 311-321
14. Emerging Theranostic Gold Nanomaterials to Combat Lung Cancer:A Systematic Review Hamed Barabadi, **Vahidi H**, Damavandi Kamali K, Hosseini O, Mahjoub M.A., Rashedi M, Jazayeri Shoushtari F, Saravanan M. Journal of Cluster Science (2020) 31 (2) p 323-330
15. A Systematic Review of the Genotoxicity and Antigenotoxicity of Biologically Synthesized Metallic Nanomaterials: Are Green Nanoparticles Safe Enough for Clinical Marketing? Barabadi H, Najafi M, Samadian H, Azarnezhad A, **Vahidi H**, Mahjoub M.A, Koohiyan M, Ahmadi A. Medicina (2019) 55 (8), p 439
16. An efficient biotransformation of progesteron in to 11 alfa hydroxyl progesterone by rhizopus microsporousar. Oligodporus Nickavar B, Vahidi H, Eslami M. Zeitschrift für Naturforschung C (2019) 74 (1-2) p 9-15
17. Effect of acl homoserin lactone on recombinant production of human insulin- like growth factor- 1 in batch culture of Escherichia coli V Babaeipour, **H Vahidi**, S Alikhani, J Ranjbari, A Alibakhshi, M Tabar zad. Protein and peptide letters (2018) 25(11) p 980-985

18. Optimization of Growth Conditions of *Lentinus edodes* Mycelium and Polysaccharides on Walnut Shell by-Products Using Response Surface Analysis. Reza MA, **Vahidi H**, Kobarfard F. Iranian journal of pharmaceutical research: IJPR. (2018) 17(4) p 1509.
19. Baeyer-Villiger oxidation of progesterone by *Aspergillus sojae* PTCC 5196. Javid M, Nickavar B, **Vahidi H**, Faramarzi MA. Steroids. (2018) 140 p 52-57.
20. Biosynthesis and characterization of biogenic tellurium nanoparticles by using *Penicillium chrysogenum* PTCC 5031: A novel approach in gold biotechnology. Barabadi H, Kobarfard F, **Vahidi H**. Iranian journal of pharmaceutical research: IJPR. (2018) 17(Suppl2) p 87
21. Simultaneous Optimization of the Production of Organic Selenium and Cell Biomass in *Saccharomyces Cerevisiae* by Plackett-Burman and Box-Behnken Design. H Zare, P Owlia, **H Vahidi**, M Hosseindokht Khujin. Iranian Journal of Pharmaceutical Research (2018) 17(3) p 1081
22. Protein Enrichment of Olive Cake Substrate by Solid State Fermentation of *Lentinus edodes*. **H Vahidi**, MAS Reza, F Kobarfard. Trends in Peptide and Protein Sciences. (2017) 1(4), p 177-182
23. Challenges to Design and Develop of DNA Aptamers for Protein Targets. II. Development of the Aptameric Affinity Ligands Specific to Human Plasma Coagulation Factor VIII Using SEC-SELEX. **H Vahidi**, N Nafissi-Varcheh, B Kazemi, R Aboofazeli, S Shahhosseini, et al. Iranian journal of pharmaceutical research: IJPR (2017) 16 (2), p 737
24. Yeast Enriched with Selenium: A Promising Source of Selenomethionine and Seleno-Proteins. AK Hamed Zare, **Hossein Vahidi**, Parviz Owlia, Maryam Hosseindokht Khujin 2017 trends in peptide and protein sciences 1 (3), 130-134

25. MB Savadkouhi, **H Vahidi**, AM Ayatollahi, S Hooshfar, F Kobarfard RP-HPLC Method Development and Validation for Determination of Eptifibatide Acetate in Bulk Drug Substance and Pharmaceutical Dosage Forms 2017 Iranian journal of pharmaceutical research 16 (2), 490-49
26. Mahmood Barati, Mohammad Ali Faramarzi, Nastaran Nafissi-Varcheh, Mohammad Reza Khoshayand, Mohammad Hassan Houshdar Tehrani, **Hossein Vahidi**, Sina Adrangi...L-Asparaginase Activity in Cell Lysates and Culture Media of Halophilic Bacterial Isolates 2016 Iranian journal of pharmaceutical research: IJPR 15 (3), 43
27. MH Morowvat, V Babaeipour, HR Memari, **H Vahidi**. Optimization of Fermentation Conditions for Recombinant Human Interferon Beta Production by *Escherichia coli* Using the Response Surface Methodology 2015 Jundishapur journal of microbiology 8 (4)
28. **Hosain Vahidi**, Sirwan Khanchezar, Shagh Bandani, Valiollah Babaeipour, Mohammad Reza Mofid. Production improvement of recombinant epidermal axolotls in *Escherichia coli* batch culture. 2015 Journal of Chemical and Pharmaceutical Research 7 (8), 32-3
29. T Hosseinabadi, **H Vahidi**, B Nickavar, F Kobarfard (2015) Biotransformation of Progesterone by Whole Cells of Filamentous Fungi *Aspergillus brasiliensis*. Iranian journal of pharmaceutical research: IJPR 14 (3), 91
30. J Ranjbari, V Babaeipour, H Vahidi, H Moghimi, MR Mofid, MM Namvaran, ...Enhanced Production of Insulin-like Growth Factor I Protein in *Escherichia coli* by Optimization of Five Key Factors (2015) Iranian journal of pharmaceutical research: IJPR 14 (3), 90
31. Javad Ranjbari, Hamidreza Moghimi, **Hossein Vahidi**, Valiollah Babaeipour, Abbas Alibakhshi, Roghayeh Arezumand (2015) Effect of chitosan on production of insulin-like growth factor i protein in *Escherichia coli* Vol. 6, No. 2, p. 180-187

32. Hamid Reza Heidari; Mojgan Bandehpour; **Hossein Vahidi**. (2015) Jaleh Barar; Bahram Kazemi; Hossein Naderi-Manesh, Cloning and Expression of TNF Related Apoptosis Inducing Ligand in *Nicotiana tabacum* ,Volume 14, Issue 1, Page 189-201
33. Morrovat. M. H. Babaeepour. V, Rajabi- memari. M, **Vahidi. H**, Maghsodi. N. 2014. Overexpression of recombinant human beta interferon (rhINF- β) in periplasmic space of *Escherichia coli*. Volume 13, Issue SUPPL, , Pages 151-160. IJPR
34. Tabar zad. M, Kazemi. B, **Vahidi. H**, Abofazeli. R, Shahhosseini. S, Naffisi varcheh. N. 2014. Challenges to design and develop of DNA aptamers for protein targets. I. optimization of asymmetric PCR for generation of a single stranded DNA library. Volume 13, Issue SUPPL, Pages 133-141
35. Hamid Reza Heidari, Mojgan Bandehpour, **Hossein Vahidi**, Jaleh Barar, Bahram Kazemi, 2014. Hossein Naderi-Manesh⁶ Improvement in the stability and functionality of *Nicotiana tabacum* produced recombinant TRAIL through employment of endoplasmic reticulum expression and ascorbate buffer mediated extraction strategies *BioImpacts*, 4(3), 123-132.
36. **Vahidi, H**, 2013. 25 years of on-going endeavors and experience towards promoting Iran's pharmacy, IJPR, Volume 12, Issue SUPPL
37. Rabiei M., Mehdizadeh M., Rastegar H., **Vahidi H.**, Alebouyeh M. 2013, Detection of genetically modified maize in processed foods sold commercially in Iran by qualitative PCR, Volume 12, Issue 1, Pages 25-30, IJPR
38. Azadeh Hamedi, Ghanati Zahra, **Vahidi Hossein**. (2011). Study on the effects of different culture conditions on the morphology of *Agaricus balzeii* and the relationship between morphology and biomass or EPS production. *Ann Microbiol.* 10 July published online.

39. **H. Vahidi**. 2011. Effects of different nitrogen sources on production of polysaccharides by *Agaricus blazei*. *Planta Med.*77-78

40. Mojab. F, **Vahidi.H**, Nickavar. B and Kamalinejad. (2009). M. Chemical components of essential oil and antibacterial effects of Rizomes from *Cyperus Royundus L*. *Journal of Medicinal Plants*. Vol 9(32). P 919-97.

41. A. Hamed, **H. Vahidi**, F. Ghanati (2007). Optimization of the medium composition for production of mycelial biomass and Exo- polysaccharides by a. *Balzeii* using response – surface methodology. *Biotechnology*. 1-9.

42. **H. Vahidi**, F. Mojab N. taghavi (2006). Effect of carbon source on production of polysaccharides by *A. Blazeii* *IJPR*, vol4 (3), pp 219-222

43. **H. Vahidi**, B. Shafaghi and H. Safari. (2004). Optimization of antibacterial production by *Mycena sp* using Variable Size Simplex Algorithm *Journal of pharmaceutical sciences*. Tabriz. PP 40- 44.

44. **H. Vahidi**, F. Kobarfard, F. Namjoyan. (2004). Effects of culture condition on production of antifungal agent by *Mycena leptoccephala*.. *Journal of African biotechnology*. Vol(3)11.pp 606-609

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48. **H. Vahidi**, M. Kamalinejad and N. Sedaghati. (2002). Antimicrobial activity of *Croccus sativus*. *IJPR*. Vol 1. No 1.
49. **H. Vahidi**, Hr Rasekh. (2000). Searchinh for biological compounds with antifungal activity from Basidiomycetes. *Hakim*. Vol. 2. No. 4. pp 239-245.
50. R. Abofazeli, M. Mosadegh. A. Shafaati and **H. Vahidi**. (2000). Formulation and quality control of vaginal suppository containing essential oil of zataria. *Hakim*. Vol 3. No1.
51. **H. Vahidi** and A. ahmadi. (2000). Antimicrobial activity of *Peorutus erengii* (Basidiomycetes). *J. Pharm. Pharmacol*.vol 52.pp 129.
52. A. Sabori and **H. Vahidi**. (2000). Antifungal activity of *Nocardia* sp. *J. Pharm. Pharmacol*.vol 52.pp 270.
53. **H. Vahidi** and L. Harvey (1999) .Bradykinin Binding Inhibitors, produced by Basidiomycetes. *Toxicology letters*
54. **H. Vahidi**. (1999). Effects of carbon source on production of active metabolites in the *Mycena* sp. *Pajohandeh*. Vol 3. No 4. pp 91-97.
55. **H. Vahidi** (1999). Effecf of glucose on growth and production of antifungal agents produced by *Mycena* using batch and fed batch culture. *Pajohandeh*, Vol 4, no 3 pp309-313.
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Abstract

H. Vahidi and F. Namjoyan. Isolation of two antifungal agents produced by *Mycena leptcephala* by Bioautography method (2004). 51th international symposium of Chromatography. Paris.

H. Vahidi, F. Mojab and B. Nickavar. Analysis of *Heracleum Persicum* essential oils by GC. (2004). 51th international symposium of Chromatography. Paris.

H. Vahidi. Antibacterial activity of *Oudemansiella* sp. (2003). 51th International symposium of medicinal plant research. Keil. Germany

H. Vahidi. Antibacterial activity of (2002). 51th International symposium of medicinal plant research. Barcellona. Spain.

H. Vahidi. Antibacterial activity of *Lycoperdon* sp.(2001). World congress of Pharmacy and Pharmaceutical Sciences. Singapore.

H. Vahidi. H. Moghmi and F. Jesmani. (2000).Antifungal activity of *Cinnamomum* water extract. First international Congress on Traditional Medicine. Tehran. Iran.

F. Faiaz, **H. Vahidi**, M. Kamalinejad and M. Sobhani. (2000) antibacterial activity of *Ferula* against resistant *Pseudomonads*. First international Congress on Traditional Medicine. Tehran. Iran.

H. Vahidi. D. Berry and L. Harvey. (1998). Bradykin binding inhibitors from basidiomycetes. International congress on Toxicology. Norway

H. Vahidi. Optimization of production of antifungal agents by *Mycena leptcephala*. (1997). Fifth pharmaceutical science symposium. Tehran.