
Dr. Nastaran Nafissi-Varcheh

Personal Information:

First name: Nastaran

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Nationality: Iranian

Date of birth: Sep 18, 1970

Place of birth: Tehran, Iran

Marital status: Married

Affiliation: Department of Pharmaceutical Biotechnology, School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBMU), Tehran, Iran.

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Education:

- 2005 *Ph.D.* in Pharmaceutics, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- 2002-2003 *Academic guest*, Drug Formulation and Delivery Group, Institute of Pharmaceutical Sciences, Department of Chemistry and Applied Biosciences, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.
- 1995 *Pharm.D.*, School of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran.

Work Experience:

- 2008- Present Assistant Prof., Pharmaceutical Biotechnology Department, Pharmacy School, SBMU., Tehran, Iran.
- 2007-2008 Assistant Prof., Pharmaceutical Sciences Research Center, SBMU, Tehran, Iran.
- 1998-2005 Researcher and scientific consultant, R&D Department of Chemidarou Pharmaceutical Co., Tehran, Iran.
- 1996-1998 Drug expert, Division of Pharmaceutical & Narcotic Affairs, Ministry of Health, Tehran, Iran.
- 1995-1996 Responsible pharmacist of a private pharmacy, Tehran, Iran.

Teaching experience:

2008- 2012	<i>“Protein and prptide drug formulation”</i> for Ph.D. students of Pharmaceutical biotechnology (Shahid Beheshti Univ. Med. Sci., Tehran Univ. Med. Sci., Pasteur Institute)
2007-2012	<i>“Quality control of biopharmaceuticals”</i> for Ph.D. students of Pharmaceutical biotechnology (Shahid Beheshti Univ. Med. Sci., Tehran Univ. Med. Sci.)
2008-2012	<i>“Protein chemistry”</i> for Ph.D. students of Pharmaceutical biotechnology (Shahid Beheshti Univ. Med. Sci.)
2010-2011	<i>“Nonotechnology in food Sciences”</i> for Ph.D. students of Nutrition (Shahid Beheshti Univ. Med. Sci.)
2010- 2012	<i>“Pharmaceutical Biotechnology”</i> for Pharm.D. students (Shahid Beheshti Univ. Med. Sci.)
2011-2012	<i>“Quality control of Protein and prptide drugs”</i> for Ph.D. students of Medical biotechnology (Shahid Beheshti Univ. Med. Sci.)

Responsibilities:

2012-	Vice-Dean of research, Protein Technology Research Center (PTRC), SBMU.
2011-present	Council of Incubation Center for Pharmaceutical Technology (ICPT), SBMU.
2011-present	Managing board member of Behan Daru Razi Co., SBMU.
2011-present	Member of educational development organization (EDO), School of Pharmacy, SBMU.
2010-present	Member of research council, School of Pharmacy, SBMU.
2010-present	Assistant editor of Iranian Journal of Pharmaceutical Research, School of Pharmacy, SBMU.
2009-present	Member of postgraduate and complementary education council, School of Pharmacy, SBMU.
2009-present	Member of Exam and Evaluation Committee of Pharmaceutical Biomaterials, Ministry of Health, Tehran, Iran.
2008-present	Delegate of Ministry of Health in Human Resources Committee, Biotechnology Development Copuncil, Tehran, Iran.
2008-present	Peer-reviewer of “Daru Journal of Pharmaceutical Sciences” & “Iranian Journal of Pharmaceutical Research”
2007-present	Member of research council, Pharmaceutical Sciences Research Center (PSRC), SBMU.
2007-2009	Scientific consultant & member of research council, Iranian blood research & fractionation Co., Ministry of Health, Tehran, Iran.

Memberships:

2005- present	Iranian Association of Pharmaceutical Scientists (IAPS)
1999- present	Iraninan Society of Biotechnology
1995- present	Iraninan Society of Pharmacists
1995- present	Medical Council of the I.R. of Iran

Publications:

Papers :

-Forootanfar H, Shakibaie M, Bagherzadeh Z, Aghaie-Khozani M, **Nafissi-Varcheh N**, Monsef-Esfahani HR, (2012); *The removal of p-chlorophenol in aqueous cultures with free and alginate-immobilized cells of the microalga Tetraselmis suecica*. J. Appl. Phycol. (in press) (ISI, IF: 2.411).

-Hadidi, N., Shirazi, SF., Kobarfard, F., Nafissi-Varcheh, N., Aboofazeli, R (2012); *Evaluation of the effect of PEGylated single-walled carbon nanotubes on viability and proliferation of Jurkat cells*. Iran. J. Pharm. Res. 11 (1), 27-37 (ISI, IF= 0.637).

-Hadidi N, Kobarfard F, **Nafissi-Varcheh N.**, Aboofazeli R (2011); *Optimization of single-walled carbon nanotube solubility by non-covalent PEGylation using experimental design methods*. Int. J. Nanomed., 6, 737-46 (ISI, IF= 4.976).

-**Nafissi-Varcheh N**, Aboofazeli R (2011); *An approach to the design of a particulate system for oral protein delivery. Part II- Preparation of recombinant human growth hormone- loaded microspheres and investigation on their in vitro stability in simulated gastrointestinal fluids*. Iran. J. Pharm. Res. 10(2), 183-92 (ISI, IF= 0.637).

-**Nafissi-Varcheh N**, Luginbuehl V, Aboofazeli R, Merkle HP (2011); *Preparation of poly (lactide-co-glycolide) acid microspheres containing lysozyme-zinc precipitate using a modified double emulsion method*. Iran. J. Pharm. Res., 10 (2), 203-9 (ISI, IF= 0.637).

- Hadidi N, **Nafissi-Varcheh N.**, Kobarfard F, Aboofazeli R (2010), *Optimization of carbon nanotubes PEGylation by response surface methodology*. Eur. Cell Mat., 20 (Suppl.3), 183 (ISI, IF=9.65).

-Shakibaie M., Forootanfar H., Mollazadeh-Moghaddam K., Bagherzadeh Z., **Nafissi-Varcheh N.**, Shahverdi A.R., Faramarzi, M.A. (2010); *Green synthesis of gold nanoparticles by the marine microalga Tetraselmis suecica*. Biotechnol. Appl. Biochem., 57 (2): 71-75 (ISI, IF= 1.512).

-Tajidini F, Amini M A, **Nafissi-Varcheh N**, Faramarzi M A (2010); *Production, physicochemical and antimicrobial properties of fungal chitosan from Rhizomucor miehei and Mucor racemosus* .Int. J. Biol. Macromolecules 47(2): 180-183 (ISI, IF= 2.608).

-Hajimahmoodi M, Faramarzi MA, Mohammadi N, Soltani N, Oveisi MR, **Nafissi-Varcheh N** (2010); *Evaluation of antioxidant properties and total phenolic contents of some strains of microalgae*. J. Appl. Phycol, 22:43-50 (ISI, IF= 1.792).

-**Nafissi-Varcheh N**, Erfan M, Aboofazeli R (2008); *An approach to design of a particulate system for oral protein delivery. I. In vitro stability study of various poly (α -hydroxy acids)-microspheres in simulated gastrointestinal fluids*. J. Microencapsulation 25 (8): 584-592 (ISI, IF= 1.738).

- Astaneh R, **Nafissi-Varcheh N**, Erfan M (2007); *Zinc- leuprolide complex: preparation, physicochemical characterization and release behavior from in situ forming implant*. J. Pept. Sci. 13: 649-54 (ISI, IF=1.954).

-**Nafissi-Varcheh N**, Shafaati A, Zarghi A, Aboofazeli R (2004); *Separation of Somatropin and Its Degradation Products by High-Performance Liquid Chromatography Using a Reversed-Phase Polymeric Column*. Iran. J. Pharm. Res. 3 (4), 209-13 (ISI, IF=0.637).

Books (in Farsi):

-Tabarzad M, **Nafissi-Varcheh N**; "*Oligonucleotide Aptamers*", financially supported by SBMU, In Press.

-Faramarzi MA, Ghasemi Y, Zarrini G, MohagheghZadeh A, **Nafissi Varcheh N**; Translation of "*Biotechnology and its application in pharmacy*" edited by Giriraj Kolcarni, 2nd. Edition, 2010.

- Faramarzi MA, **Nafissi-varcheh N**, Moradpour Z, Sharifzadeh M; "*Biosafety in the laboratory*", ordered and financially supported by Ministry of Health, IR of Iran, 2008.

Poster Presentations:

- **Nafissi-Varcheh N**, Faramarzi MA, Forootanfar H; *Laccase from Paraconiothyrium variabile for green synthesis of gold nanoparticles*, Colloids & Materials, May, 2010, Amsterdam, **The Netherlands**.

-Hadidi N, **Nafissi-Varcheh N**, Kobarfard F, Aboofazeli R; *Optimization of carbon nanotubes PEGylation by response surface methodology*. 3rd. International NanoBio Conference, Aug 24-27, 2010, Zurich, **Switzerland**.

-Tabarzad M, **Nafissi-Varcheh N**; *Challenges in Quality Control of Pharmaceutical Glycoproteins*; 12th. Iranian Pharmaceutical sciences congress, Aug 3-5, 2010, Zanjan, **Iran**.

- Hadidi N, **Nafissi-Varcheh N**, Aboofazeli R; *Carbon nanotube : a promising novel nanoscale drug delivery system*; 12th. Iranian Pharmaceutical sciences congress, Aug 3-5, 2010, Zanjan, **Iran**.

-Morovvat M H, **Nafissi-Varcheh N**; *QbD in Biopharmaceutical production*; 12th.Iranian Pharmaceutical sciences congress, Aug 3-5, 2010, Zanjan, **Iran**.

-**Nafissi-Varcheh N**, Erfan M, Aboofazeli R; *A study on the capability of DSC method to evaluate the stability of various polyesters-made microspheres in GIT*. 11th. Iranian Pharmaceutical sciences congress, Aug 18-21, 2008, Kerman, **Iran**; P324.

-Mohammadi N, Hajimahmoodi M, Faramarzi MA, Soltani N, **Nafissi N**; *Potential antioxidant application of some Iranian soil isolates of microalgae*. 11th. Iranian Pharmaceutical sciences congress, Aug 18-21, 2008, Kerman, **Iran**; P 217 (Awarded poster).

-**Nafissi-Varcheh N**, Aboofazeli R., Erfan M; *Preparation, evaluation and optimization of recombinant human growth hormone-loaded biodegradable microspheres as a novel approach for oral protein delivery system*. 10th. Iranian Pharmaceutical sciences congress, Aug 21-24, 2006, Tehran, **Iran**.

-**Nafissi-Varcheh N**, Erfan M, Aboofazeli R; *Preparation and characterization of recombinant human growth hormone- loaded biodegradable microspheres as an approach for oral protein delivery*, Controlled Release Society Conference, Jul 2006, Vienna, **Austria**.

-**Nafissi-Varcheh N**, Lughinbuhl V, Gander B, Aboofazeli R, Merkle HP; *Microencapsulation of lysozyme-zinc precipitate into (lactide-co-glycolide) microspheres by a modified double emulsion method*, 15th. Symposium of Microencapsulation, Sep 18-21, 2005, Parma, **Italy**.

-**Nafissi-Varcheh N**, Erfan M, Aboofazeli R; *An investigation into the stability of microspheres made by various PLGA polymers in simulated gastrointestinal fluids*, 26th. annual conference of the academy of Pharm. Sci., 29 Sep- 2 Oct, 2005, Port Elizabeth, **South Africa**.

Torshabi M, **Nafissi-Varcheh N**, Abdi Kh, Hosseini Shirazi SF; *Stability kinetic of recombinant human Growth Hormone*; 6th International Congress of Physiology & Pharmacology, May 9-13, 2003, Tehran, **Iran**.

-**Nafissi-varcheh N**, Aboofazeli R, Faramarzi MA; *Peptide and Protein Drugs in the 3rd Millennium*. 6th International Congress of Endocrine Disorders, October 5-9, 2001, Tehran, **Iran**;. Iranian Journal of Endocrine and Metabolism, Summer 2001(Suppl.), P 154.

-**Nafissi varcheh N** and Aboofazeli R; *Pharmaceutical and Clinical Aspects of Recombinant Human Growth Hormone Formulations*. 6th International Congress of Endocrine Disorders, October 5-9, 2001, Tehran, **Iran**;. Iranian Journal of Endocrine and Metabolism, Summer 2001(Suppl.), P 135.

-Sharifzadeh M, Dehpour AR and **Nafissi-varcheh N**; *Effects of Chronic Lithium Pretreatment on Theophylline-Induced Grooming in Rats*. 1st Iranian Congress on Neuroscience, November 27-29, 1995, Tehran, **Iran**.

-**Nafissi-Varcheh N**, Hosseini Shirazi SF; *Determination of N-acetyl sialyllactose by HPLC*. 1st Seminar of Neoplastic Diseases, February 17-18, 1992, Tehran, **Iran**.

Workshops & courses

- 2010 “LC-Mass principles and applications”, Phytochemistry research center, SBMU, Tehran, Iran.
- 2007 “*WHO workshop on Cell-based products and biotechnology*”, Food & drug control laboratories (Ministry of health) & Paul-Erlich- Institute (Germany), Tehran, Iran.
- 2007 “8th International symposium on biocatalysis and biotransformations”, Oviedo, Spain.
- 2006 “*Experimental design workshop*”, School of Pharmacy, SBMU., Tehran, Iran.
- 2005 “*Cell culture workshop*”, School of Pharmacy, SBMU, Tehran, Iran.
- 2002-2003 “*Practical course in pharmaceuticals*”, Drug Formulation and Delivery Group, Institute of Pharmaceutical Sciences, Department of Chemistry and Applied Biosciences, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.
- 2003 “*Practical course in nanotechnology*”, Nanotechnology Department, Swiss Federal Institute of Technology(ETH), Zurich, Switzerland.
- 2002 “*Lab safety & biosafety workshop*”, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland.

Research Interests:

- Protein and peptide drugs-
 - Purification
 - Formulation and delivery
 - Analysis and quality control
- Enzyme Technology
- Nanobiotechnology
- Aptamer design
- Laboratory safety & biosafety