## REYHANEH VARSHOCHIAN

#### PhD of Pharmaceutics



Department of Pharmaceutics and Pharmacutical Nanotechnology, Shahid Beheshti University of Medical Sciences, Tehran, Iran



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https://scholar.google.com/cit ations?user=6lb7OmwAAAAJ &hl=en

#### **PROFILE**

PhD of pharmaceutics with a 8-year experience of research, working on **novel drug deliveries** and **biomaterials**, an 18-month postdoctoral research, and a 7-year background of teaching as a lecturer. Assistant professor since 2020.

#### **EDUCATION**

2008-2013 Tehran University of Medical Sciences- Tehran | PhD

**Pharmaceutics**, Dissertation: Preparation and evaluation of polymeric

nanoparticles containing bevacizumab for CNV treatment.

Thesis: 19.5/20, GPA:18.2/20 (within the top 5 in the class)

2002-2008 Shahid Beheshti University of Medical Sciences- Tehran | PharmD

Dissertation: Reduction of percutaneous absorption of toxic chemicals by

dendrimers

Thesis: 20/20, GPA: 17.6/20 (within the top 5 in the class)

# RESEARCH INTERESTS

Nano and microparticle in therapeutic systems

Protein and gene delivery

Tissue engineering and therapeutic biomaterials

Targeted drug delivery and Anti-cancer deliveries

Bio-responsive and in-situ forming hydrogels

Novel ocular drug delivery

**2020-current** Shahid Beheshti University of Medical Sciences- Tehran | Assistant Professor, Department of Pharmaceutics

http://www.sbmu.ac.ir/index.jsp?fkeyid=&siteid=93&pageid=13471

### RESEARCH & WORK EXPERIENCE

2019-2020 Tofigh Daru Research and Engineering Company- Tehran | Formulation Consultant

Micro and Nano formulations- http://www.todaco.com/

2017-2019 Nanotechnology Research Center, Tehran University of Medical Sciences- Tehran | Postdoctoral Researcher

2013-2017 Nano Daru Company | Project Manager

Injectable sustained release drug delivery formulation- http://nanodaru.com/

# PROFESSIONAL SKILLS

Preparation and characterization of various Novel Drug Deliveries including: nano/micro particles, in situ forming gel, block-co polymers and implants

Designing and developing IN VITRO & IN VIVO tests

Designing and developing ELISA tests, SDS-PAGE, Gel doc, Total protein assay, Flow cytometry, MTT assay, Cell culture

Working with DLS, HPLC, GPC, DSC, CD and Confocal microscope

Various granulation and coating methods, Fluid bed coater

**Biopharmaceutical analysis** 

# AWARDS & HONORS

#### 2010 Number one student

The National Board exam (Pharmaceutics), Awarded by Iran Ministry of Health and Medical Education

#### 2008 Number one student

The National PhD Entrance exam (Pharmaceutics)

#### **PUBLICATIONS**

https://scholar.google.com/citations?user=6lb7OmwAAAAJ&hl=en

## EXPERIENCES

- ✓ Designing and pilot scale preparation of injectable and oral anticancer and antiviral oral granule, tablet, and capsule formulations (2020-current)
- ✓ Work in aseptic condition and clean room (Class B & A) (2015-2017)
- ✓ Lecturer, workshops (Polymeric nanoparticles in drug delivery), 2018 and 2019
- ✓ Executive secretary of Iranian Pharmaceutical Science Conference 2015, (IPSC 2015)
- ✓ Project researcher , Hakim Pharmaceutical Company (2009)

# TEACHING ACTIVITIES (As a lecturer)

Nanomedicine → PhD students (2020-current)

Protein & Peptide drug delivery → PharmD students (2020-current)

Lenses and Lens care solutions → PharmD students (2020-current)

Injectable formulations and sterilization  $\rightarrow$ PhD students (2016-2019)

Novel drug delivery → PharmD students (2014-current)

Transdermal drug deliveries →PharmD students students (2013-2019)

SOFTWARE SKILLS		LANGUAGES	
GraphPad Prism		Farsi	
SPSS		English	
Design of Experiments		Turkish	
PKsolver, Monolix		Arabic	

## **PUBLLICATIONS**

A Sabouri Shirazi, R Varshochian, M Rezaei, Y Hosseinzadeh Ardakani, R Dinarvand Journal of Materials Science: Materials in Medicine volume 32, 78 (2021)  - Combinatorial delivery of antigen and TLR agonists via PLGA nanoparticles modulates Leishmania major-infected-macrophages activation  A Katebi, R Varshochian, F Riazi-rad, M Ganjalikhani-Hakemi, S Ajdary Biomedicine & Pharmacotherapy, 137, 111276  - An in situ hydrogel-forming scaffold loaded by PLGA microspheres containing carbon nanotube as a suitable niche for neural differentiation  A Shafiee, M Kehtari, Z Zarei, M Soleimani, R Varshochian, A Ahmadi, F Atyabi, R Dinarvand Materials Science and Engineering: C 120, 111739  - Optimization of chitosan-based polyelectrolyte nanoparticles for gene delivery, using design of experiment: in vitro and in vivo study  M Baghaei, FS Mirzazadeh Tekie, MR Khoshayand, R Varshochian, M Hajiramezanali, Materials Science and Engineering: C, 111036  - Trimethyl chitosan-hyaluronic acid nano-polyplexes for intravitreal VEGFR-2 siRNA delivery: Formulation and in-vivo efficacy evaluation  F Chaharband, N Daftarian, MR Kanavi, R Varshochian, Nanomedicine: Nanotechnology, Biology and Medicine, 102181  - Graphene aerogel nanoparticles for in-situ loading/pH sensitive releasing anticancer drugs  H Ayazi, O Akhavan, M Raoufi, R Varshochian, NSH Motlagh, F Atyabi Colloids and Surfaces B: Biointerfaces 186, 110712  - NanoMIL-100 (Fe) containing docetaxel for breast cancer therapy  M Rezaei, A Abbasi, R Varshochian, R Dinarvand, M Jeddl-Tehrani Artificial cells, nanomedicine, and biotechnology 46 (7), 1390-1401  - Ocular implant containing bevacizumab-loaded chitosan nanoparticles intended for choroidal neovascularization treatment  P Badiee, R Varshochian (Co-Correspond), M Rafiee-Tehrani, F Abedin Dorkoosh, Journal of Biomedical Materials Research Part A 106 (8), 2261-2271  - A New Approach for Treatment and Prevention of Recurrent Oral Lichen Planus: A Technical Report  KA F. Agha-Hosseini, M-S. Moosavi, R. Varshochian	- SN38 loaded nanostructured lipid carriers (NLCs); preparation and in vitro evaluations against glioblastoma	2021	
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#### **PERESENTAIONS**

<b>Oral</b> Presentation in the 4th Iranian Research Association of Vision and Ophthalmology (Albuminated PLGA nanoparticles containing bevacizumab intended for treatment of retinal and choroidal neovascularization)	
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