

## Curriculum Vitae of **Dr Somayeh Taymouri** (Pharm D, PhD)

### **Personal information**

**First Name:** Somayeh

**Last Name:** Taymouri

**Address:** School of Pharmacy, Isfahan university of Medical sciences, Isfahan,Iran

**Email:** s\_taymouri@pharm.mui.ac.ir

### **Education**

#### **Degrees obtained**

1- Doctorate of Pharmacy (Pharm D), Kerman University of Medical Sciences, Kerman, Iran (2005-2011) (A:18.7)

2- Doctorate of Pharmaceutics (PhD), Isfahan University of Medical Sciences, Isfahan, Iran (2011-2015) (A:18.08)

3-2015- present. Faculty member (Assistant Professor), Department of Pharmaceutics, School of Pharmacy, Isfahan University of Medical Sciences

#### **Honor and Awards**

- Top student between Pharm.D students in kerman University of Medical Sciences, Kerman, Iran (2005-2011)

-Awarded as the first grade in the comprehensive basic science examination in Kerman University of Medical Sciences (2007)

-First grade in the pharmaceutical entrance exam in Iran (2011)

-Awarded as the tenth grade in the comprehensive basic science examination in Iran (2007)

-A member of brilliant talents center in Kerman University of Medical Sciences

- A member of brilliant talents center in Isfahan University of Medical Sciences

#### **Thesis & Dissertation**

- Niosomes of Ascorbic Acid and  $\alpha$ -Tocopherol in the Cerebral Ischemia-Reperfusion Model in Male Rats (Pharm.D. Thesis).

- *In vitro* and *in vivo* evaluation of folate targeted PluronicF127-Cholesterol micelles for delivery of Docetaxel in melanoma(Ph.D. Dissertation).

## Publications

1- Jaleh Varshosaz, **Somayeh Taymouri**, Abbas Pardakhty, Majid Asadi-Shekaari, Abodolreza Babaei. Niosomes of Ascorbic Acid and  $\alpha$ -Tocopherol in the Cerebral Ischemia-Reperfusion Model in Male Rats. *Biomed Res Int*. 2014;2014:816103.

2-Jaleh Varshosaz, **Somayeh Taymouri**, Farshid Hassanzadeh, Shaghayegh Haghjooy Javanmard, and Mahboobeh Rostami. dryEmbly micelles with lipid core of cholesterol of docetaxel delivery to B16F10 melanoma and HepG2 cells. *J Liposome Res*. 2014 Oct 2:1-9.

3-**Taymouri S**, Varshosaz J. The recent progresses on the improved therapy of melanoma by novel drug delivery systems. *Curr Drug Targets*. 2014;15(9):829-42.

4-Jaleh Varshosaz, **Somayeh Taymouri**, Farshid Hassanzadeh, Shaghayegh Haghjooy Javanmard, and Mahboobeh Rostami. Folated Synperonic-Cholesteryl Hemisuccinate Polymeric Micelles for the Targeted Delivery of Docetaxel in Melanoma. . *BioMed Res Int*. 2015 ; 2015,

5-J Varshosaz, **S Taymouri**, H Hamishehkar. Fabrication of polymeric nanoparticles of poly(ethylene-co-vinyl acetate) coated with chitosan for pulmonary delivery of carvedilol. *Journal of Applied Polymer Science*. 2015,132 (13).

6-**Somayeh Taymouri**, Jaleh Varshosaz. Effect of different types of surfactants on the physical properties and stability of carvedilol nano-niosomes. *Advanced Biomedical Research*. 2016;5:48.

7-**Somayeh Taymouri**, Jaleh Varshosaz, Farshid Hassanzadeh, Shaghayegh Haghjooy Javanmard. Optimization of processing variables effective on self-assembly of folate targeted Synpronic based micelles for docetaxel delivery in melanoma cells. *IET Nanobiotechnology*. 2015;9(5):306-313.

8-Jaleh Varshosaz, **Somayeh Taymouri**, Farshid Hassanzadeh, Shaghayegh Haghjooy Javanmard. Pharmacokinetics, Organ Toxicity and Antitumor Activity of Docetaxel Loaded in Folate Targeted Cholesterol Based Micelles. *Curr Drug Deliv*. 2016;13(4):545-56.

9-Jaleh Varshosaz ,**Somayeh Taymouri** , Hollow inorganic nanoparticles as efficient carriers for siRNA delivery: A comprehensive review. *Current pharmaceutical design*. 2015;21(29):4310-28.

10-**Somayeh Taymouri**, Azadeh Taheri. Use of nanotechnology in diagnosis and treatment of hepatic fibrosis; A review . *Curr Drug Deliv*. 2015. 13(5):662-72.

11-**Somayeh Taymouri**, Jaleh Varshosaz, Farshid Hassanzadeh, Shaghayegh Haghjooy Javanmard. Development of a rapid and precise reversed phase HPLC method for analysis of docetaxel in rat serum: application in single dose pharmacokinetic studies of folate targeted micelles containing docetaxel. *Advanced Biomedical Research*. 2018. 7: 76

12-Varshosaz J, Khabbazian E, Hassanzadeh F, Aliabadi HS, Rostami M, **Taymouri S**. Synthesis of biotin-targeted chitosan/poly (methyl vinyl ether-alt-maleic acid) copolymeric micelles for delivery of doxorubicin. *IET Nanobiotechnology*. 2017;11(7):843-51.

13-Varshosaz J, **Taymouri S**, Minaiyan M, Rastegarnasab F, Baradaran A. Development and In vitro/in vivo evaluation of HPMC/chitosan gel containing simvastatin loaded self-assembled nanomicelles as a potent wound healing agent. *Drug development and industrial pharmacy*. 2018;44(2):276-88.

14-Varshosaz J, **Taymouri S**, Ghassami E. Supramolecular self-assembled nanogels a new platform for anticancer drug delivery. *Current pharmaceutical design*. 2017;23(35):5242-60.

15-Varshosaz J, **Taymouri S**, Hamishehkar H, Vatankhah R, Yaghubi S. Development of dry powder inhaler containing tadalafil-loaded PLGA nanoparticles. *Research in pharmaceutical sciences*. 2017;12(3):222.

16-Bahri-Najafi R, Mostafavi A, Tavakoli N, **Taymouri S**, Shahraki MM. Preparation and in vitro-in vivo evaluation of acyclovir floating tablets. *Research in pharmaceutical sciences*. 2017;12(2):128.

17-Bahri-Najafi R, Tavakoli N, **Taymouri S**, Shokatjalil S. Gastric Floating Matrix Tablets of Metformin Hcl: Design and Optimization Using Combination of Polymers. *Journal of Reports in Pharmaceutical Sciences*. 2016;5(2):67-79.

18-**Taymouri S**, Yazdankhah S, Mostafavi A. Preparation and physicochemical evaluation of oral disintegrated tablet containing Dicyclomine Hydrochlorid. *Journal of Reports in Pharmaceutical Sciences*. 2018, 7(2).164-173

19-Varshosaz J, **Taymouri S**, Jahanian-Najafabadi A, Alizadeh A. Efavirenz oral delivery via lipid nanocapsules: Formulation, optimization and ex-vivo gut permeation study. *IET Nanobiotechnology*. 2018. 12(6):795-806

20-Sana chegini,Varshosaz J, **Taymouri S**. Recent approaches for targeted drug delivery in rheumatoid arthritis diagnosis and treatment. *Artificial Cells, Nanomedicine and Biotechnology*. 2018: 46(sup2):502-14

23-Ghassami E, Varshosaz J, **Taymouri S**. Redox sensitive polysaccharide based nanoparticles for improved cancer treatment: A comprehensive review. *Current pharmaceutical design*. 2018. 24(28):3303-19

24-Varshosaz J, **Taymouri S**, Jafari E, Jahanian-Najafabadi A, Taheri A. Formulation and characterization of cellulose acetate butyrate nanoparticles loaded with nevirapine for HIV treatment. *Journal of Drug Delivery Science and Technology*. 2018. 48:9-20

25-Noha Nasehi, Jaleh Varshosaz, **Somayeh Taymouri**, Mahboobeh Rostami, Vajihe Akbari, Loghman Firoozpour. Sorafenib loaded pluronic F127-lithocholic acid micelles for prostate

cancer therapy: Formulation, optimization, and *in vitro* evaluation against LNCaP cells. *International Journal of Polymeric Materials and Polymeric Biomaterials*.2018.

26-Mohammad Reza Molaahmadi , Jaleh Varshosaz , **Somayeh Taymouri** <sup>1</sup>, Vajihe Akbari. Lipid nanocapsules for imatinib delivery: Design, optimization and evaluation of anticancer activity against melanoma cell line. *Iranian Journal of Pharmaceutical Research*. 2018.

27-**Somayeh Taymouri**, Maryam Alem , Jaleh Varshosaz , Mahboobeh Rostami , Vajihe Akbari , Loghman Firoozpour. Biotin decorated sunitinib loaded nanostructured lipid carriers for tumor targeted chemotherapy of lung cancer. *Journal of Drug Delivery Science and Technology*.2019.

28-Naser Tavakoli, **Somayeh Taymouri**, Anahita Saeidi, Vajihe Akbari. Design, formulation, and evaluation of a thermosensitive hydrogel containing sertaconazole loaded nanostructured lipid carriers for treatment of fungal keratitis.*Pharmaceutical development and technology*.2019. 24(7):891-901

29-**Taymouri S**, Minaiyan M, Ebrahimi F, Tavakoli N. In-vitro and in-vivo evaluation of chitosan-based thermosensitive gel containing lorazepam NLCs for the treatment of status epilepticus. *IET Nanobiotechnology*. 2019. 14(2):148-54

30-**Taymouri S**, Mostafavi A, Javanmardi M. Formulation and optimization of effervescent tablet containing bismuth sub-citrate. *Journal of Reports in Pharmaceutical Sciences*. 2019;8(2):236.

31-Varshosaz J, Sadri F, Rostami M, Mirian M, **Taymouri S**. Synthesis of pectin-deoxycholic acid conjugate for targeted delivery of anticancer drugs in hepatocellular carcinoma. *International journal of biological macromolecules*. 2019;139:665-77.

32-Amanat S, **Taymouri S**, Varshosaz J, Minaiyan M, Talebi A. Carboxymethyl cellulose-based wafer enriched with resveratrol-loaded nanoparticles for enhanced wound healing. *Drug Delivery and Translational Research*. 2020:1-4.

33-Otroj M, Taymouri S, Varshosaz J, Mirian M. Preparation and characterization of dry powder containing sunitinib loaded PHBV nanoparticles for enhanced pulmonary delivery. *Journal of Drug Delivery Science and Technology*. 2020;56:101570.

34-Mokhtari N, **Taymouri S**, Mirian M, Dinari M. Covalent triazine-based polyimine framework as a biocompatible pH-dependent sustained-release nanocarrier for sorafenib: An in vitro approach. *Journal of Molecular Liquids*. 2020;297:111898.

- 35-Dinari M, Mokhtari N, **Taymouri S**, Arshadi M, Abbaspourrad A. Covalent polybenzimidazole-based triazine frameworks: A robust carrier for non-steroidal anti-inflammatory drugs. *Materials Science and Engineering: C*. 2020;108:110482.
- 36-**Taymouri S**, Ahmadi Z, Mirian M, Tavakoli N. Simvastatin nanosuspensions prepared using a combination of pH-sensitive and timed-release approaches for potential treatment of colorectal cancer. *Pharmaceutical Development and Technology*. 2021;26(3):335-48.
- 37-**Taymouri S**, Shahnammia S, Mesripour A, Varshosaz J. In vitro and in vivo evaluation of an ionic sensitive in situ gel containing nanotransfersomes for aripiprazole nasal delivery. *Pharmaceutical Development and Technology*. 2021;26(8):867-79.
- 38-**Taymouri S**, Hashemi S, Varshosaz J, Minaiyan M, Talebi A. Fabrication and evaluation of hesperidin loaded polyacrylonitrile/polyethylene oxide nanofibers for wound dressing application. *Journal of Biomaterials Science, Polymer Edition*. 2021:1-7.
- 39-Satari N, **Taymouri S**, Varshosaz J, Rostami M, Mirian M. Preparation and evaluation of inhalable dry powder containing glucosamine-conjugated gefitinib SLNs for lung cancer therapy. *Drug Development and Industrial Pharmacy*. 2020;46(8):1265-77.
- 40-**Taymouri S**, Amirkhani S, Mirian M. Fabrication and characterization of injectable thermosensitive hydrogel containing dipyridamole loaded polycaprolactone nanoparticles for bone tissue engineering. *Journal of Drug Delivery Science and Technology*. 2021:102659.
- 41-Shahriyar S, **Taymouri S**, Saberi S, Asadi P, Tabbakhian M. Preparation and characterization of itraconazole loaded nanomicelles based on dextran-behenic acid for cutaneous leishmaniasis treatment. *Drug Development and Industrial Pharmacy*. 2021;47(3):416-28.
- 42-**Somayeh Taymouri**, Abolfazl Mostafavi, Hamid Mahmoodi. Formulation, Design and Optimization of Taste Masked Effervescent Tablet Containing Methocarbamol. *Iranian journal of pharmaceutical sciences*. Accepted.
- 43-**Somayeh Taymouri**, Valiollah Hajhashemi, Massoud Torkashvand, Majid Tabbakhian. Preparation and evaluation of imatinib loaded transfersomal gel for treatment of rheumatoid arthritis. *Iranian journal of pharmaceutical researches*. 2021, 20 (4): 33-46
- 44-Varshosaz J, Fardshouraki S, Mirian M, Safaeian L, Jandaghian S, **Taymouri S**. Encapsulation of Imatinib in Targeted KIT-5 Nanoparticles for Reducing its Cardiotoxicity and Hepatotoxicity. *Anti-Cancer Agents in Medicinal Chemistry*. 2020;20(16):1966-80.
- 45-Azade Taheri , Ladan Dayani, Freshteh Esmaili, **Somayeh Taymouri**. Preparation and in vitro evaluation of Vancomycin loaded Montmorillonite-Sodium Alginate topical gel for wound infection. *Brazilian Journal of Pharmaceutical Sciences*. Accepted.

46-Azade Taheri , Ladan Dayani, Mahla Dehghani, Mahmoud Aghaei, **Somayeh Taymouri** . Preparation and Evaluation of Targeted Lipoprotein Like Nanoparticles with Lactobionic Acid for Targeted Drug Delivery of Sorafenib in Hepatocellular Carcinoma . *Journal of Drug Delivery Science and Technology*. 2022:103142.

47-Mohamadreza Tavakoli; Marjan Mirhaj; Jaleh Varshosaz; **Somayeh Taymori**; Farnoosh Jafarpour; Saeedeh Salehi; Shaghayegh Amini Mosleh Abadi; Azadeh Sepyani. Fabrication and Evaluation of Cs/PVP Sponge Containing Platelet-Rich Fibrin as a Wound Healing Accelerator: An in vitro and in vivo Study. *International Journal of Biological Macromolecules*. 2022. 204:245-257

48-**Somayeh Taymouri**, Negin Amiri, Mohammad Rabbani, Mohsen Minaiyan, Azar Baradaran. Preparation and characterization of a hydroxypropyl methylcellulose based wafer for simultaneous delivery of phenytoin and insulin as wound dressing material.*Pharmaceutical development and technology*. 2022.

49-Tavakoli M, Mirhaj M, Labbaf S, Varshosaz J, **Taymori S**, Jafarpour F, Salehi S, Abadi SA, Sepyani A. Fabrication and evaluation of Cs/PVP sponge containing platelet-rich fibrin as a wound healing accelerator: An in vitro and in vivo study. *International Journal of Biological Macromolecules*. 2022;204:245-57.

50-Fardafshari F, **Taymouri S**, Minaiyan M, Tavakoli N. Preparing simvastatin nanoparticles by a combination of pH-sensitive and timed-release approaches for the potential treatment of ulcerative colitis. *Journal of Biomaterials Applications*. 2022 Nov;37(5):859-71.

51-Alemomen M, **Taymouri S**, Saberi S, Varshosaz J. Preparation, optimization, and in vitro–in vivo evaluation of sorafenib-loaded polycaprolactone and cellulose acetate nanofibers for the treatment of cutaneous leishmaniasis. *Drug Delivery and Translational Research*. 2022 Oct 12:1-21.

52-**Taymouri S**, Mostafavi A, Zaretaghiabadi S. Design, Formulation and Evaluation of Physicochemical Properties of Valacyclovir Effervescent Tablet. *Trends in Pharmaceutical Sciences*. 2022 Sep 1;8(3):135-46.

53-Karimi Z, **Taymouri S**, Minaiyan M, Mirian M. Evaluation of thermosensitive chitosan hydrogel containing gefitinib loaded cellulose acetate butyrate nanoparticles in a subcutaneous breast cancer model. *International Journal of Pharmaceutics*. 2022 Aug 25;624:122036.

## Abstracts

-**Taymouri**, Pardakhti, Formulation of niosomes containing ascorbic acid or  $\alpha$ -tocopherol. 5<sup>th</sup> Iranian controlled release conference, 2011, Mashhad, Iran

-Jaleh Varshosaz, **Somayeh Taymouri**, Farshid Hassanzadeh, Shaghayegh Haghjooye Javanmard , Targeted delivery of docetaxel in melanoma bearing mice by folated Pluronic F127-cholesterol polymeric micelles,Asian nanoforum conference, 2015,Kish,Iran

-**Somayeh taymouri**, Jaleh Varshosaz. The preparation and properties of carvedilol nanoniosomes, 19 th Iranian Pharmacy student seminar;2015, shiraz, Iran

-**Somayeh taymouri**, Jaleh Varshosaz. Farshid Hassanzadeh, Shaghayegh Haghjooye Javanmard. Development and in vitro/in vivo evaluation of a novel targeted polymeric micelle for delivery of Docetaxel. 14<sup>th</sup> Iranian pharmaceutical science congress and 1<sup>th</sup> symposium of biopharmaceutics and pharmacokinetics, 2015, Tehran, Iran

-**Somayeh taymouri**, Jaleh Varshosaz. Farshid Hassanzadeh, Shaghayegh Haghjooye Javanmard. Development and validation of reversed phase HPLC method for the determination of docetaxel in rat plasma: Application to a pharmacokinetic study. 14<sup>th</sup> Iranian pharmaceutical science congress and 1<sup>th</sup> symposium of biopharmaceutics and pharmacokinetics, 2015, Tehran, Iran

-**Somayeh Taymouri**, Jaleh Varshosaz, Fatemeh Rastegarnasab. Nanocomposite Gels for Controlled Topical Delivery of Simvastatin, International congress of pharmacy updates, 2018, Tehran, Iran

-**Somayeh Taymouri**, Razieh vatankhah, Shadi Yaqoubi. Preparation and evaluation of microparticles containing tadalafil loaded polymeric nanoparticles for treatment of pulmonary hypertension. 15<sup>th</sup> Iranian pharmaceutical sciences congress, 2017, Hamedan, Iran

-**Somayeh Taymouri**, Jaleh Varshosaz. Optimization of lipid nanocapsules for delivery of letrozole to MCF7 cells. 2<sup>nd</sup> Middle/7<sup>th</sup> Iranian Controlled release conference, 2017, Kerman, Iran

-**Somayeh Taymouri**, Jaleh Varshosaz. Hollow inorganic nanoparticles for effective delivery of siRNA, 2<sup>nd</sup> Iranian Nanomedicine Congress, 2016, Zanjan

-**Somayeh Taymouri**, Jaleh Varshosaz. Preparation and in vitro evaluation of solid lipid nanoparticles of ciprofloxacin by emulsification solvent diffusion method for treating intracellular infections of Mycobacterium Avium, 2<sup>nd</sup> Iranian Nanomedicine Congress, 2016, Zanjan

-**Taymouri S**, Alizadeh A, Varshosaz J. Development and characterization of lipid based nanoparticles for efavirenz oral administration, International congress of pharmacy updates, 2019, Tehran, Iran

-**Taymouri S**, Alam A, Development of surface modified NLCs for enhanced delivery of sunitinib toward lung cancer cells

## **Language skills**

- English Language
- Farsi, native language

## **Research interest**

Development , *in vitro* and *in vivo* evaluation of novel drug delivery systems

Drug targeting

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### **Other Experiences**

Collaboration as reviewer with Research in pharmaceutical sciences, Journal of drug delivery science and technology, Drug development and industrial pharmacy, Pharmaceutical development and technology, Journal Drug Delivery and Translational Research, Drug Delivery, Acta Biomaterialia, International Journal of Nanomedicine, Expert Opinion on Drug Delivery, International Journal of Nanomedicine, Current Drug Delivery, International Journal of Pharmaceutics, Colloid and Interface Science Communications, Iranian journal of pharmaceutical research, European Journal of Pharmaceutics and Biopharmaceutics