

## Curriculum Vitae

### Hamidreza Montazeri Aliabadi

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#### PROFILE

- **Assistant professor of Pharmaceutics**, Chapman University School of Pharmacy (CUSP)
- Serving as voting faculty member in CUSP **Academic Affairs Committee**, **Admission Committee**, and Chapman University **Graduate Affairs Council**
- **PhD** degree from the Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta (U of A); Research project on drug targeting in cancer treatment
- Holder of **Breast Cancer Research Grant** (from Canadian Breast Cancer Foundation [CBCF])
- Ex-holder of Alberta Heritage Foundation for Medical Research (AHFMR) Fellowship and RX&D HRF/CIHR Graduate Research Scholarship
- Eight years of experience in teaching Pharmaceutics at the Faculty of Pharmacy & Pharmaceutical Sciences, U of A
- **Pharm D** degree from University of Tehran
- More than twelve years of experience in pharmaceutical industry and extensive pharmaceutical development
- Skillful in communication and public relations
- Supervisor of several graduate students, technicians, and summer students

#### WORK EXPERIENCE

##### August 2015 – Present:

Assistant Professor, Chapman University School of Pharmacy (CUSP): As a faculty member of Biomedical and Pharmaceutical Sciences, I am involved as coordinator or co-coordinator of Drug Delivery Systems I and II (DDS I and DDS II), as well as the lab components for each course. I am also involved in teaching graduate course Drug Discovery and Development. My research focuses on multiple-target silencing via RNA interference as an anticancer strategy.

##### July 2012 – July 2014:

Research Associate, Department of Chemical and Material Engineering, U of A. Supervisor: Dr. Hasan Uludag. We have secured a Breast Cancer Research Grant provided by CBCF for a project on systematic approach to systemic treatment of drug resistant breast cancers by individual and combinational siRNA silencing.

##### July 2009 - July 2012:

Postdoctoral Fellow, Department of Chemical and Material Engineering, U of A. Supervisor: Dr. Hasan Uludag. Project: siRNA delivery to drug-resistant cancer cells to overcome Multidrug Resistance (MDR); we investigated the potential of a polymer-based delivery system for safe and effective delivery of siRNA to cancer cells in an attempt to sensitize the resistant cells to cytotoxic effect of chemotherapeutic agents and/or induce apoptosis in tumor cells.

September 2008 – April 2011:

Coordinating and teaching a pharmaceutics course (PHARM361: Pharmaceutics II), Faculty of Pharmacy and Pharmaceutical Sciences, U of A.

April 2008 – June 2009:

Research Associate; Supervisor: Dr. Raimar Loebenberg, Faculty of Pharmacy and Pharmaceutical Sciences, U of A. Project: Formulation and quality control of a micro emulsion for a herbal product.

Sep 2007 - April 2008:

Coordinating and teaching of the Pharmaceutics I (PHARM331) course for Faculty of Pharmacy and Pharmaceutical Sciences

2003 – 2007:

Graduate Teaching Assistant, Faculty of Pharmacy and Pharmaceutical Sciences, U of A – Teaching semisolid dosage forms as part of the Pharmaceutics course; conducting laboratories for semisolid dosage forms and special compounding (PLO gels, lozenges, effervescent granules).

2005:

Proposal writing, project design, and experimentation for assessment of shelf-life of a 6-mercaptopurine suspension (funded by Novopharm and U. of Alberta Hospital).

2000 – 2002:

General Manager of Sepideh-Dehdasht Veterinary Pharmaceutical Plant, Iran – Management of the entire production plant with 10 products (different oral dosage forms), two production departments, and 40 personnel; formulation of >8 different veterinary pharmaceutical products.

1999 – 2000:

Head, Liquid Products Department, Production Unit, Tehran-Chemie (Iran). Supervision and management of the manufacturing process of ampoules and syrups. Formulation of Biperidin tablets, Tehran-Chemie Pharmaceutical Company, Tehran-Iran.

1996 – 1998:

Head, Microbiological Control Department, Darou-Pakhsh Pharmaceutical Company, Iran (D.P) – Supervising analytical procedures and methods for sterile, oral and local semisolid products.

1990 – 2001:

Teaching GMP, GLP, microbiological control and in process quality control to the personnel of different Pharmaceutical companies in Iran.

1990 – 1996:

Head, Formulation Department (D.P) – Development of new drug dosage forms; trouble shooting in different production departments; evaluating the shelf life of different pharmaceutical products and performing stability tests; formulation of more than 10 different pharmaceutical products, including indomethacin capsules, and pancuronium bromide ampoules (products were added to the list of Iranian pharmaceuticals for the first time); comparison of shelf life in different geographical conditions for more than 25 pharmaceutical products (supervisor of the project); evaluation of shelf life of more than 120 pharmaceutical products by accelerated methods (supervisor of the project)

1986 -1990:

Part-time editor in publication of “Iranian Pharmacopoeia”

## **EDUCATION**

July 2009 – July 2012:

Postdoctoral Fellow, Department of Chemical and Material Engineering, U of A. Supervisor: Dr. Hasan Uludag.

2002 – 2007:

Ph.D., Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Canada, with a GPA of 3.94. Research Project: A polymeric micellar formulation for tumor delivery of P-glycoprotein inhibitors to overcome MDR. A model P-glycoprotein inhibitor (Cyclosporine A) was loaded in these self-assembling polymeric nanocarriers, and pharmacokinetic and biodistribution of the formulation, as well as its toxicity was evaluated.

1983 – 1988:

Pharm. D., Faculty of Pharmacy, University of Tehran, 201 credits with a GPA of 3.55

## **GRANTS**

**Breast Cancer Research Grant (Canadian Breast Cancer Foundation) – 2013 - Present**

**Alberta Cancer Foundation Grant – 2012-2013**

**Alberta Heritage Foundation for Medical Research (AHFMR) Fellowship – 2009-2012**

## **AWARDS**

**RX & D HRF/CIHR Graduate Research Scholarship in Pharmacy – 2004, 2005**

**Graduate Teaching Assistantship – 2003, 2004, 2005, 2006**

**Novartis Pharmaceuticals Canada Inc. Graduate Scholarship – 2003**

**Walter H. Johns Graduate Fellowship – 2004, 2005**

**Marie Arnold Cancer Research Graduate Scholarship – 2005**

**Queen Elizabeth II Graduate Scholarship (Doctoral) – September – April 2006**

**Biochem Pharma Graduate Scholarship – September – December 2006**

**Graduate Student Teaching Award – March 2007 for excellence in teaching duties**

## **PROFESSIONAL ACTIVITIES**

### **Journal Reviewerships**

Acta Biomaterialia  
Advanced Healthcare Materials  
Advanced Functional Materials  
Biochemistry & Pharmacology  
Biomacromolecules  
Biomaterials  
Colloids and Surfaces B: Biointerfaces  
FEBS Letters  
Future Medicine  
Journal of Pharmaceutical Innovation  
Journal of Pharmacy and Pharmaceutical Sciences  
Molecular Pharmaceutics  
Nanomedicine

### **ADMINISTRATION**

**Academic Affairs Committee** – Chapman University School of Pharmacy (CUSP)

**Admission Committee** – CUSP

**Graduate Affairs Council** – Chapman University

### **PUBLICATIONS**

#### **Book Chapter:**

1. Hamidreza Montazeri Aliabadi, Hasan Uludag. “Nanoparticle carriers to overcome biological barriers to siRNA delivery” Chapter in **Nanomedicines: design, delivery and detection** (In Press). RSC Publishing.
2. X-B. Xiong, H. M. Aliabadi, A. Lavasanifar. “PEO modified PLAA micelles for drug delivery” chapter in **Nanotechnology in Cancer Therapy** (2006). CRC Press. Chapter 18, Page 357 – 385.

#### **Refereed Articles**

24. Hamidreza Montazeri Aliabadi, Parvin Mahdipoor, Cezary Kucharski, Nicole Chan, Hasan Uludağ. Effect of siRNA pre-exposure on silencing response: Do cells become resistant to siRNA silencing? Submitted to **PNAS** (2015).
23. A. Falamarzian, Hamidreza Montazeri Aliabadi, O. Molavi, J.M. Seubert, R. Lai, H. Uludag, A. Lavasanifar. Effective down-regulation of signal transducer and activator of transcription 3 (STAT3) by polyplexes of siRNA and lipid-substituted polyethyleneimine for sensitization of breast tumor cells to conventional chemotherapy. **Journal of Biomedical Materials Research: Part B** (2014), doi: 10.1002/jbma.34992.
22. Hamidreza Montazeri Aliabadi, Robert Maranchuk, Parvin Mahdipoor, Judith Hugh, Hasan Uludağ. Effective response of drug-sensitive and drug-resistant breast cancer cells to combinational siRNA therapy. **Journal of Controlled Release** (2013), 172(1): 219-228.

21. M. Shahin, R. Soudy, Hamidreza Montazeri Aliabadi, N. Kneteman, K. Kaur, A. Lavasanifar. Engineered breast tumor targeting peptide ligand modified liposomal doxorubicin and the effect of peptide density on anticancer activity. **Biomaterials** (2013), 34: 4089-4097.
20. L. Rose, Hamidreza Montazeri Aliabadi, H. Uludag. Gelatin Coating to Stabilize the Transfection Ability of Nucleic Acid Polyplexes. **Acta Biomaterialia** (2013) 9: 7429-7438.
19. Hamidreza Montazeri Aliabadi, P. Mahdipoor, H. Uludağ. Polymeric Delivery of siRNA for Silencing of Mcl-1 and P-glycoprotein Induces Potent Apoptosis in Drug-Resistant Breast Cancer Cells. **Cancer Gene Therapy** (2013) 20: 169-177.
18. B. Landry, Hamidreza Montazeri Aliabadi, A. Samuel, H. Gul-Uludag, X. Jiang, O. Kutsch, H. Uludag. Effective Non-Viral Delivery of siRNA to Acute Myeloid Leukemia Cells with Lipid-Substituted Polyethylenimines. **PLoS ONE** (2012) 7: e44197.
17. H. Yogasundaram, M. Bahniuk, H. Singh, Hamidreza Montazeri Aliabadi, H. Uludağ, Larry Unsworth. BSA nanoparticles for siRNA delivery: Effect of nanoparticle coating on plasma protein adsorption and in vitro siRNA delivery. **International Journal of Pharmaceutics** (2012) 2012:34-44.
16. Hamidreza Montazeri Aliabadi, B. Landry, P. Mahdipoor, H. Uludağ. Down-regulation of breast cancer resistance protein (BCRP) by siRNA delivery using lipid-substituted aliphatic polymers. **European Journal of Pharmaceutics and Biopharmaceutics** (2012) 81: 33-42.
15. Hamidreza Montazeri Aliabadi, B. Landry, P. Mahdipoor, H. Uludağ. Induction of apoptosis by survivin silencing through siRNA delivery in a human breast cancer cell line. **Molecular Pharmaceutics**. 2011, 8: 1821–1830.
14. M. Abbasi, Hamidreza Montazeri Aliabadi, E.H. Moase, A. Lavasanifar, K. Kaur, R. Lai, C. Doillon, H. Uludağ. siRNA mediated down-regulation of P-glycoprotein in a xenograft tumor model in NOD-SCID mice. **Pharmaceutical Research**. (2011) 28:2516–2529.
13. Remant Bahadur K.C., B. Landry, Hamidreza Montazeri Aliabadi, A. Lavasanifar, H. Uludağ. Lipid-substitution on low molecular weight polyethylenimine leads to effective assembly of plasmid DNA and transgene expression. **Acta Biomaterialia**. 2011, 7: 2209-17.
12. Hamidreza Montazeri Aliabadi, B. Landry, Remant Bahadur K. C., A. Neamark, O. Suwantong, H. Uludağ. Impact of lipid-substitution on assembly and delivery of siRNA by cationic polymers. **Macromolecular Bioscience**. 2011, 11: 662-72.
11. Hamidreza Montazeri Aliabadi, M. Romanick, V. Somayaji, P. Mahdipoor, A. Lavasanifar. Evaluation of the stability of compounded thioguanine suspension. **American Journal of Health-system Pharmacy**. 2011, 68: 900-8.
10. S. Hamdy, A. Haddadi, A. Shayeganpour, A. Alshamsan, Hamidreza Montazeri Aliabadi, A. Lavasanifar. The immunosuppressive activity of polymeric micellar formulation of cyclosporine A: in vitro and in vivo studies. **AAPS Journal**. 2011, 13(2): 159-68.
9. S. Khiljee, N.U. Rehman, M.K. Sarfraz, Hamidreza Montazeri Aliabadi, T. Khiljee, R. Löbenberg. In vitro release of Indian Penny Wort, Walnut, and Turmeric from topical preparations using two different types of membranes. **Dissolution Technologies**. 2010, 17(4): 27-32.
8. Hamidreza Montazeri Aliabadi, M. Romanick, S. Desai, A. Lavasanifar. Determination of stability of 6-mercaptapurine suspension. **American Journal of Health-system Pharmacy**. 2008, 65(5): 441-7.
7. Hamidreza Montazeri Aliabadi, S. Elhasi, D. Brocks, A. Lavasanifar. Polymeric micellar delivery reduces the nephrotoxicity of cyclosporine A. **Journal of Pharmaceutical Sciences**. 2008, 97(5): 1916-26.

6. Hamidreza Montazeri Aliabadi, P. Mahdipoor, D. Brocks, A. Lavasanifar. Effects of loading levels on stability and pharmacokinetic profile of cyclosporine A-loaded poly(ethylene oxide)-block-poly( $\epsilon$ -caprolactone) micelles: A novel use of an in vitro method to predict the stability of block copolymer based nano-containers. **Journal of Controlled Release**. 2007, 122(1): 63 – 70.
5. Hamidreza Montazeri Aliabadi, S. Elhasi, R. Gulamhusein, A. Mahmud, A. Lavasanifar. Encapsulation of hydrophobic drugs in polymeric micelles by co-solvent evaporation method: The effect of assembly condition on micellar properties and drug loading. **International Journal of Pharmaceutics**. 2007, 329: 158 - 165.
4. Hamidreza Montazeri Aliabadi, T. Spencer, P. Mahdipoor, A. Lavasanifar, D. Brocks. Insights into the effects of hyperlipoproteinemia on cyclosporine A biodistribution and relationship to renal function. **AAPS Journal**. 2006, 8(4): E672 – E681.
3. D. Brocks, S. Ala, Hamidreza Montazeri Aliabadi. The effect of increased lipoprotein levels on the pharmacokinetics of cyclosporine A in laboratory rat. **Biopharmaceutics & Drug Disposition**. 2006, 27: 7-16.
2. Hamidreza Montazeri Aliabadi, D. Brocks, A. Lavasanifar. Polymeric micelles for the solubilization and delivery of cyclosporine A: Pharmacokinetics and biodistribution. **Biomaterials**. 2005, 26(35): 7251-9.
1. Hamidreza Montazeri Aliabadi, A. Mahmud, A. Dehmoobed, A. Lavasanifar. Micelles of methoxy poly(ethylene oxide)-*b*-poly( $\epsilon$ -caprolactone) as vehicles for the solubilization and controlled delivery of Cyclosporine A. **Journal of Controlled Release**. 2005, 104(2): 301 - 311.

#### **Review Articles (Refereed)**

4. Hamidreza Montazeri Aliabadi, B. Landry, C. Sun, T. Tang, H. Uludağ. Supramolecular Assemblies in siRNA Delivery: Where do we stand? **Biomaterials**. 2012, 33(8): 2546-2569.
3. Hamidreza Montazeri Aliabadi, Mostafa Shahin, Dion Brocks, Afsaneh Lavasanifar. Disposition of drugs in block copolymer micelle delivery systems: from discovery to recovery. **Clinical Pharmacokinetics**. 2008, 47(10): 619-634.
2. Abdullah Mahmud, Xiong Xiao-bing, Hamidreza Montazeri Aliabadi, and Afsaneh Lavasanifar. Polymeric micelles for drug targeting. **Journal of Drug Targeting**. 2007, 15(9): 553 – 584.
1. Hamidreza Montazeri Aliabadi and Afsaneh Lavasanifar. Polymeric micelles for drug delivery. **Expert Opinion in Drug Delivery**. 2006, 3(1): 139 – 162.

#### **Conference Presentations:**

1. Hamidreza Montazeri Aliabadi, Parvin Mahdipoor, Hasan Uludağ. Potential Targets for siRNA-Mediated Combinational Therapy of Breast Cancer Cells. AACR Annual Meeting, April 2013, Washington D.C., USA.
2. Hamidreza Montazeri Aliabadi, Breanne Landry, Parvin Mahdipoor, Hasan Uludağ. Impact of Lipid Substitution on Assembly and Delivery of siRNA by Cationic Polymers. Molecularly Targeted Therapies: Mechanisms of Resistance Conference, May 2012, San Diego, California, USA.
3. Hamidreza Montazeri Aliabadi, Breanne Landry, Parvin Mahdipoor, Hasan Uludağ. Combinational siRNA silencing of MCL-1 and P-gp enhances the apoptotic response in

- Human Breast Cancer Cells. Molecularly Targeted Therapies: Mechanisms of Resistance Conference, May 2012, San Diego, California, USA.
4. Hamidreza Montazeri Aliabadi, Breanne Landry, Parvin Mahdipoor, Hasan Uludağ. Down-regulation of Breast Cancer Resistance Protein (BCRP) by siRNA Delivery using Lipid-Substituted Aliphatic Polymers. 29<sup>th</sup> Annual Canadian Biomaterials Society Conference, June 2011, Vancouver, BC, Canada.
  5. Hamidreza Montazeri Aliabadi, Breanne Landry, Hasan Uludag. Impact of Lipid-Substitution on Assembly and Delivery of siRNA by Cationic Polymers. 29<sup>th</sup> Annual Canadian Biomaterials Society Conference, June 2011, Vancouver, BC, Canada. (Winner of the best podium presentation)
  6. Hamidreza Montazeri Aliabadi, Breanne Landry, Parvin Mahdipoor, Hasan Uludağ. Down-regulation of Breast Cancer Resistance Protein (BCRP) by siRNA Delivery using Lipid-Substituted Aliphatic Polymers. American Society of Gene & Cell Therapy 14<sup>th</sup> Annual Meeting, May 2011, Seattle, Washington, USA.
  7. Hamidreza Montazeri Aliabadi, Breanne Landry, Parvin Mahdipoor, Hasan Uludağ. Survivin Down-regulation in Human Breast Cancer Cell Line by siRNA Delivery Using Hydrophobically Modified Aliphatic Polymers. American Society of Gene & Cell Therapy 14<sup>th</sup> Annual Meeting, May 2011, Seattle, Washington, USA.
  8. Breanne Landry, Hamidreza Montazeri Aliabadi, Hasan Uludağ. Development of Polymeric siRNA Delivery System for Treatment of Childhood Leukemias Stage 1. Women and Children's Health Research Institute (WCHRI) Research Day, November 2010, Edmonton, Alberta, Canada.
  9. Breanne Landry, Hamidreza Montazeri Aliabadi, Hasan Uludağ. Polymeric siRNA Delivery System for Treatment of Acute Myeloid Leukemia. Materials and Nanotechnology Symposium, Queen's University, April 2009, Kingston, Ontario, Canada.
  10. Hamidreza Montazeri Aliabadi, Marcel Romanick, Sunil Desai, Afsaneh Lavasanifar, "Stabilization of compounded 6-mercaptopurine suspension". Research day, Faculty of Pharmacy and Pharmaceutical sciences, University of Alberta, October 2007, Edmonton, Alberta, Canada.
  11. Hamidreza Montazeri Aliabadi, Parvin Mahdipoor, Dion Brocks, Afsaneh Lavasanifar, "Novel use of an *in vitro* method to predict the stability of the block copolymer based nanocarriers". Utah, January 2007.
  12. Hamidreza Montazeri Aliabadi, Parvin Mahdipoor, Dion Brocks, Afsaneh Lavasanifar, "The effect of drug loading levels on the *in vivo* stability and pharmacokinetic profile of micellar nano-containers". CSPS 10<sup>th</sup> Annual Symposium, May 30<sup>th</sup> – June 2<sup>nd</sup>, 2007, Montreal, Quebec, Canada.
  13. Hamidreza Montazeri Aliabadi, Parvin Mahdipoor, Dion Brocks, Afsaneh Lavasanifar, "Novel use of an *in vitro* method to predict the stability of the block copolymer based nanocarriers". Research day, Faculty of Pharmacy and Pharmaceutical sciences, University of Alberta, October 2006, Edmonton, Alberta, Canada.
  14. Hamidreza Montazeri Aliabadi, Parvin Mahdipoor, Dion Brocks, Afsaneh Lavasanifar, "Novel use of an *in vitro* method to predict the stability of the block copolymer based nanocarriers". CSPS 9<sup>th</sup> Annual Symposium, May 24<sup>th</sup> – 26<sup>th</sup>, 2006, Ottawa, Ontario, Canada.
  15. Hamidreza Montazeri Aliabadi, Tara J. Spencer, Parvin Mahdipoor, Dion Brocks, "Biodistribution of cyclosporine A in normal and hyperlipidemic rats". Canadian Biomaterial Society (CBS) Conference, May 27<sup>th</sup>, 2006, Calgary, Alberta, Canada.

16. Hamidreza Montazeri Aliabadi, "Polymeric micelles for tumor-targeted delivery of P-glycoprotein inhibitors". Research day, Faculty of Pharmacy and Pharmaceutical sciences, University of Alberta, October 2005, Edmonton, Alberta, Canada. Podium presentation.
17. Hamidreza Montazeri Aliabadi, Sara Elhasi, Dion Brocks, Afsaneh Lavasanifar, "Polymeric micellar delivery reduces the nephrotoxicity of cyclosporine A". Research day, Faculty of Pharmacy and Pharmaceutical sciences, University of Alberta, October 2005, Edmonton, Alberta, Canada.
18. Hamidreza Montazeri Aliabadi, Tara J. Spencer, Parvin Mahdipoor, Dion Brocks, "Biodistribution of cyclosporine A in normal and hyperlipidemic rats". Research day, Faculty of Pharmacy and Pharmaceutical sciences, University of Alberta, October 2005, Edmonton, Alberta, Canada.
19. Hamidreza Montazeri Aliabadi, Dion Brocks, and Afsaneh Lavasanifar, "Polymeric micelles for the solubilization and delivery of cyclosporine A: Pharmacokinetics and biodistribution". CSPS 8<sup>th</sup> Annual Symposium, May 30<sup>th</sup> - June 2<sup>nd</sup>, 2005, Toronto, Ontario, Canada.
20. Hamidreza Montazeri Aliabadi, Dion Brocks, and Afsaneh Lavasanifar, "Polymeric micelles for the solubilization and delivery of cyclosporine A: Pharmacokinetics and biodistribution". Research day, Faculty of Pharmacy and Pharmaceutical sciences, University of Alberta, October 2004, Edmonton, Alberta, Canada.
21. Hamidreza Montazeri Aliabadi, Annahita Dehmoobed Sharifabadi and Afsaneh Lavasanifar, "Methoxy Poly(Ethylene Oxide)- Poly( $\epsilon$ -Caprolactone) Copolymer Micelles for the Solubilization and Delivery of Cyclosporine A". The 2004 Canada-Japan, Nanopharmaceutical Symposium, August 25-27, 2004, Banff, Alberta, Canada.
22. Hamidreza Montazeri Aliabadi, Dion Brocks and Afsaneh Lavasanifar, "Polymer-based nanocarriers for the solubilization and delivery of Multi-drug resistant modulators", Presented in the annual meeting of the CSPS, June 9-12, 2004, Vancouver, British Columbia, Canada.
23. Hamidreza Montazeri Aliabadi, Dion Brocks and Afsaneh Lavasanifar, "Polymeric micelles as long circulating drug carriers for the delivery of Multi-drug Resistance Modulators". Research day, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, October, 2003, Edmonton, Alberta, Canada.

### **SPECIAL TRAININGS**

1. Full training for working with animal models (rats and mice)
2. Training for lab work with radioactive substances
3. Completing University Teaching Services (UTS) and UTS orientation for graduate student teaching assistants: Winter 2003
4. Completing Toastmaster Course: Fall 2004

### **CERTIFICATES**

1. Certification of passing evaluation exam for "The Pharmacy Examining Board of Canada" (PEBC)
2. Certification of passing the "Radiation safety course"
3. Certification of passing the "Animal handling course" Skills



## **REFERENCES**

### **Dr. Reza Mehvar**

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