

## **CURRICULUM VITAE**

- **NAME:** Ali Fattahi
- **DATE OF BIRTH:** 1<sup>st</sup> September 1977
- **PLACE OF BIRTH:** Ardakan (Yazd), Iran
- **Marital Status:** Married
- **GENDER:** Male
- **ADDRESS:** Kermanshah University of Medical Sciences, Faculty of Pharmacy;  
Kermanshah, Iran
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  - **EMAIL:** [a.fatahi@ma.itu.ac.ir](mailto:a.fatahi@ma.itu.ac.ir)
  
- **EDUCATION:**
  - 2007-2012 **PhD of biomaterial** Isfahan University of Technology (<http://www.iut.ac.ir>), **Materials Engineering Dep.**, (<http://www.materials.iut.ac.ir>) & Isfahan University of Medical Science (<http://www.mui.ac.ir>)
  - 1996-2003: **PharmD** Isfahan University of Medical Science (<http://www.mui.ac.ir>)  
**Faculty of Pharmacy** (<http://www.pharm.mui.ac.ir>)
  - 1995, High School **Diploma**, Biology & Chemistry.
  
- **ACTIVITIES:**
  - **Research projects:**
    - Synthesis of pH sensitive comptotheicin-chitosan conjugates and preparation of their nanomicelles as a carrier of comptotheicin (2012)
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    - Co-delivery and targeted drug delivery of anticancer drugs dexamethasone and doxorubicin using nanomicelles of dexamethasone-chitosan-polyethyleneglycol-folate usable in treatment of all hematopoietic malignances and evaluation of nano micelles cytotoxicity on K562 cell line (2011)
    - Stabilization of lactoperoxidase by tragacanth-chitosan nano composites (2011)
    - Modification of Chitosan Mediated Non-Viral Gene Delivery System with Tretinoin (All Trans Retinoic Acid) and Pectin for Targeted Gene Delivery to Hepatocyte Cells (2010-2011)
    - Extraction of MAP pectin (an analog of pectin) from a traditional Gum endemic to Iran and Evaluation of ionic cross linking behavior of MAP pectin and prepare ionic cross linked macrosphere by MAP pectin (2009-2010).
    - Cytotoxicity effects of Iranian mistletoe extract on a panel of cancer cells (2001-2003)
  
  - **Research & experimental Skills:**
    - Nano/Micro particle technologies
    - Microfluidics system technology; design and fabrication of chips for synthesis of nanoparticles and diagnostic kits.
    - Human cell culture
    - *In vitro* model of baddy barriers (e.g. epithelial model of gastrointestinal system)
    - *In vitro* cell transfection: GFP and Luciferase assay, pDNA, mRNA, siRNA delivery
    - Induced pluripotent stem cell (iPSCs)
    - Spectroscopic analyses including HNMR, CNMR, IR, UV, Fluorimetry
    - Separation & chromatography methods including HPLC and GPC
    - PCR
    - Flow cytometry
    - Electrospinning and electrospraying
  
  - **Executive Activities:**
    - Chief hospital pharmacist of Hajar hospital pharmacy, Shahrekord, chaharmahal-bakhtyari, Iran. 2003-2005
    - Chief hospital pharmacist of Fereidunshahr hospital pharmacy, Fereidunshahr, Isfahan, Iran. 2005
    - Pharmacist in Zeitoun private pharmacy, Isfahan, Iran.2006-2007
    - Pharmacist in Dr Fattahi private pharmacy, Isfahan, Iran.2003-2008.
  
  - **Workshop:**

- “Real Time PCR” workshop, Isfahan Uni of Med Sci, Physiology Research Center, September 24, 2009.
  - “experimental design”. Workshop. 12<sup>th</sup> Iranian congress of pharmaceutical sciences, Zanjan, Iran, 2010.
- **Teaching Experiences:**
- "Pharmacology for nurses" workshop, in Fereidunshahr Hospital, Fereidunshahr, Isfahan, Iran. 2005
  - “Cell culture techniques and molecular biology for Biomaterial Students”. Workshop in Med. Uni. of Isfahan, Iran. 2007
  - “Application of Statistic in Biomaterial Researches”. Workshop in Isfahan Uni. of Tech., Isfahan, Iran, 2010
  - “Concept of Biocompatibility in Biomaterials”. Workshop in Isfahan Uni. of Tech., Isfahan, Iran, 2010
  - “Chemistry of nano-drug delivery” workshop: Payame-noor University of Isfahan. Isfahan, Iran, 2010
- **ACADEMIC INTERESTS:**
- Applications of microfluidic technology in medical sciences.
  - Polymeric Micro/nano systems for drug/gene delivery esp. polysaccharide and polypeptide mediated
  - Application of gene delivery in tissue engineering.
  - Trans-differentiation and induced pluripotent stem cell
  - Develop of *in vitro* models for evaluating drug transport across body barriers
  - Nano/Microfluidics systems
- **COMPUTER SKILLS:**
- Microsoft Office (Word, Excel, Access, PowerPoint)
  - Windows software
  - Statistics software (SPSS, Excel)
  - Chemistry software (Chemoffice)
- LANGUAGE SKILLS:**
- English
  - French (elementary)
- **RECENT ACTIVITIES:**
- Preparation and optimization of a modified chitosan system for oral gene delivery.
  - Working on a system for improving of neuronal trans-differentiation.
  - Preparation of self-assembled nanoparticles and micelles for co-delivery of anticancer drugs and combination therapy of cancers.
- ❖ **PUBLICATIONS:**
- ❖ **Book**
  - **Fattahi A.**, Varshosaz J. What are the limitations of chitosan use in non-viral gene delivery and how to overcome them? In: Wang SF, editor. Biocompatible Nanomaterials: Synthesis, Characterization and application. NOVA publisher; 2010.
  - ❖ **Article**
  - **Fattahi A**, Petrini P, Munarin F, Shokoohinia Y, Golozar MA, Varshosaz J, Tanzi MC. Polysaccharides derived from tragacanth as biocompatible polymers and gels. *J. Appl. Polym. Sci.* 2012 (accepted).
  - **Fattahi, A.**, Golozar, M.-A., Varshosaz, J., Sadeghi, H. M., & Fathi, M., Preparation and characterization of micelles of oligomeric chitosan linked to all-trans retinoic acid, *Carbohydrate Polymers* (2010), doi:10.1016/j.carbpol.2011.08.093
  - Sadeghi-Aliabadi H, Ghasemi N, **Fattahi A**. Cytotoxic effects of Iranian mistletoe extract on a panel of cancer cells. *Iranian J of Pharmaceutical Sciences* 2006; 2(3):157-162.
  - ❖ **Congress**
  - **Fattahi A.**, Pezzoli D., Varshosaz j., Golozar M.A., Mohammad-Sadeghi H.M., Petrini P., Tanzi M.C., Candiani G., Characterization of pectin-coated polyethylenimine polyplexes as effective gene delivery systems. 23<sup>th</sup> ESB (European Society of Biomaterials), Tampere, Finland, 2010.
  - **Fattahi A.**, Petrini P., Munarin F., Golozar M.A., Varshosaz J., Fathi M.A., Tanzi M.C., UV Evaluation of Polyplex/Pectin Micro- and Nano-particles for Gene Therapy. 23<sup>th</sup> ESB (European Society of Biomaterials), Tampere, Finland, 2010.
  - Sadeghi-Aliabadi H, Ghasemi N, **Fattahi A**. Cytotoxic evaluation of Iranian mistletoe extract on a panel of

- cancer cells. 4<sup>th</sup> World Congress of cellular and molecular biology, Poitiers, France, October 2005.
- Sadeghi-Aliabadi H, **Fatahi A**, Ghassemi-Dehkordi N, Cytotoxicity of Iranian Mistletoe Extract (IME) on a panel of cancer cells. 3<sup>rd</sup> International Congress of Health, Environment & natural products. Mashhad, Iran, 2004.
- ❖ **Awards**
- PhD students travel award of 2<sup>nd</sup> Nanotoday conference.

**REFERENCES:**

**Dr Kam W Leong**, James B. Duke Professor Department of Biomedical Engineering, Duke University, Durham, NC, USA E-mail: [kam.leong@duke.edu](mailto:kam.leong@duke.edu)

**Dr Hamid Mirmohamad-Sadeghi**, Associate Professor of Pharmaceutical Biotechnology, Faculty of Pharmacy, Isfahan Uni.of Med. Sci., Isfahan, Iran E-mail: [h\\_sadeghi@pharm.mui.ac.ir](mailto:h_sadeghi@pharm.mui.ac.ir)

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**Dr. Mohammad Hossein Fathi**, Associate Professor of Materials Engineering Department, Isfahan University of Technology, Isfahan, Iran. E-mail: [fathi@cc.iut.ac.ir](mailto:fathi@cc.iut.ac.ir)