

Hojjat Sadeghi-aliabadi

Curriculum Vitae

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Born: **29th March, 1964, Isfahan (IRAN)**
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Education:

1989 Doctor of Pharmacy - IUMSHS,
1996 Ph.D in pharmaceutical chemistry, School of Pharmacy, University of
Bradford, Bradford West Yorkshire, BD7 1DP, United Kingdom.
Post doc. In toxicology and cell biology, School of Pharmacy, University of Toronto,
Canada.

Previous Employment:

1989-1991, Academic staff of Faculty of Pharmacy and Pharmaceutical Sciences,
Kerman University of Medical sciences, Kerman, Iran.

1991-1992, Academic staff of Faculty of Pharmacy and Pharmaceutical Sciences,
Isfahan University of Medical sciences, Isfahan, Iran; and Head of Health Services
agency in Naenin, Isfahan province, simultaneously.

1992-1996 Ph.D Student, School of Pharmacy, University of Bradford, BD7 1DP, UK.
Thesis Title: Synthesis and Bioanalysis of Novel Steroidal Antitumour Prodrugs

1996-1997 Assistant Professor, Faculty of Pharmacy and Pharmaceutical Sciences,
IUMSHS; and Head of Food Inspection Agency, Isfahan Province simultaneously.

1998-2001 Deputy Head of Food and Drug Control Labs. (FDCL), Ministry of Health, Tehran, Iran.

2003-2004 Post Doc. Researcher, School of Pharmacy, University of Toronto, Canada.

1998-2003 Member of national HACCP committee, Ministry of Health, Tehran, Iran.

Present Employment:

2004- 2010 Associate Professor, Pharmaceutical Chemistry Dept., Faculty of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences and Health Services.

2005- Professor, Pharmaceutical Chemistry Dept., Faculty of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences and Health Services.

Abstracts submitted to congresses and seminars and published in the proceedings:

Samsam-shariat H. and **Sadeghi-aliabadi H.** "Macroscopic, microscopic and phytochemical evaluation and essential oils composition of Eucalyptus leaves grown in Iran and compared with standard samples", Journal of Tehran school of pharmacy, Summer 1993, volume 3(1).

Sadeghi-aliabadi H., Matthew A. and Brown J. "Chemosensitivity of MCF-7, MT-1 MCF-7ADR human breast tumor cells and K562 (leukemia cell) to oestrone and its novel prodrugs", British Journal of Cancer, March 1996, volume 73, Supplement XXVI, P57.

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Maghol M., Samsamshariat H. and **Sadeghi-aliabadi H.** "Comparative study of essential oils of eucalyptus species cultivated from Isfahan, Fars, Khozestan and Hormozgan provinces with officinal species" The first congress on herbal medicine and industry, 13th -15th October, 1997, Shiraz, Iran.

Sadeghi-aliabadi H. and Brown J. "Anti-tumour effects of novel steroidal prodrugs in breast cancer". 13th Iranian Congress of Physiology and Pharmacology, 26th -29th August 1997, Isfahan, Iran.

Sadeghi-aliabadi H. and Brown J. "Optimization of the separation of oestrone and structurally related compounds, using HPLC". The sixth congress of pharmaceutical sciences of Iran, 26th -27th August 1998, Isfahan, Iran.

Dormiani K., **Sadeghi-aliabadi H.** and Jafarian A. " A new synthesis method of steroidal Doxorubicin prodrugs as potentially active candidate against breast cancer". 7th Iranian seminar of pharmaceutical sciences (ISPS), 26th-28th August 2000, Mashhad, Iran.

Shafiee A., Zarghi A., **Sadeghi-aliabadi H.** and Fassihi A. “ synthesis of the intermediates needed for the preparation of pyrroloimidazoles as NSAIDs”. 7th Iranian seminar of pharmaceutical sciences (ISPS), 26th-28th August 2000, Mashhad, Iran.

Sadeghi-aliabadi H., Shahidi G., Emami A. and Fatemi A. “Cytotoxicity of Iranian conifers extracts on mutant yeast”. 7th Iranian seminar of pharmaceutical sciences (ISPS), 26th-28th August 2000, Mashhad, Iran.

Sadeghi-aliabadi H. “New methods in analysis of Genetically Modified Foods”. 1st Seminar of Methodology in Pharmaceutical Sciences, 25th –27th August 2001, Mashhad, Iran.

Sadeghi-aliabadi H., Jafarian A. Emami A. and Saeidi M. “ Cytotoxic effects of the extracts of different parts of Iranian junipers against cancer cells”. Viena, Austria. Published in Scientia Pharmaceutica 69(3), 2001.

Sadeghi-aliabadi H. and Ghafari F. “Comparison of determination of iodine value in edible oils by Hanus titration and FT-NIR”. 3rd Asian Congress of Dietetics, 18th-21th August 2002, Kuala Lumpur, Malaysia.

Sadeghi-aliabadi H., Jafarian A. and Mohammadi V. “Synthesis of Anthraquinone derivatives as potential anti breast cancer agents”. 8th Iranian Seminar of Pharmaceutical Sciences(ISPS8), 27th –29th August 2002, Shiraz, Iran.

Sadeghi-aliabadi H., Ahmadi A. “Cytotoxicity and antitumor properties of HESA-A (a marine compound) on cancer cells”. 2002 AAPS Annual Meeting and Exposition, 10th -14th November 2002, Toronto, Canada.

Sadeghi-aliabadi H., Tabarzadi M. and Zarghi A. "Synthesis and cytotoxic evaluation of two novel anthraquinone derivatives". 8th World Congress on clinical Pharmacology and Therapeutics (CPT), 1-6 August 2004, Brisbane, Australia.

Movahedian A., Ghannadi A., **Sadeghi H.**, Gharavi M. "Study of leek (*Allium porrum*) extract on cholestrol plasma levels in hyperlipidemic animals ". 8th World Conference on clinical pharmacology and Therapeutics (CPT 2004). 2004; Brisbane, Australia.

Hojjat sadeghi and Peter J. O'Brien. "molecular cytotoxic mechanisms of catecholic polychlorinated biphenyl metabolites " 9th Iranian Seminar of Pharmaceutical Sciences. 2004; Tabriz, Iran.

Hojjat sadeghi-aliabadi, Nasrollah Ghasemi, Ali fatahi." Cytotoxicv evaluation of Iranian mistletoe on a panel of cancer cells" 4th world congress of Cellular and Molecular Biology. 2005; France – Poitiers.

Hojjat Sadeghi-aliabadi. "IMPROVING TAXOL EXTRACTION YIELD FROM *Taxus baccata* USING DIFFERENT EXTRACTION SOLVENT BY TLC & LC-MC" 23rd (Montreux) Symposium on Liquid Chromatography-Mass Spectrometry(LC/MS; SFC/MS; CE/MS; MS/MS). 2006; Montreux – Switzerland.

Hojjat Sadeghi-aliabadi, Nasrollah Ghasemi, Mahdokht Kohi "Phytochemical study and cytotoxicity of convolvulus arvensis extracts on human cancerous cell line" 6th international traditional and complementary medicine conference and 3rd International Congress on Traditional Medicine and Materia Medica. 2007; Kuala Lumpur, Malaysia.

Naser Tavakoli, Nasrollah Ghasemi, **Hojjat Sadeghi** and Mehdi Ghodrati." HepatoHeal herbal Tablets: A new formulation of Strawberry and grape leaves" 6th international traditional and complementary medicine conference and 3rd International Congress on Traditional Medicine and Materia Medica. 2007; Kuala Lumpur, Malaysia.

Hojjat Sadeghi-aliabadi, Mohsen Minaian, Maryam Analoi." Evaluation of synergistic cytotoxicity of co-administration of Taxol and Atorvastatin on MDA-MB-468 cell line " 18th Iranian congress of physiology and pharmacology. 2007; Mashhad, Iran.

Hojjat Sadeghi-aliabadi. " Novel anthraquinones for anticancer purposes: synthesis and biological evaluation" EPS anticancer drugs 2011 (guest speaker); 26-27 October Sweden.

Jhaleh Varshosaz, Farshid Hasanzadeh, **Hojjat Sadeghi-aliabadi**, Mehnoosh Bani-Talebi, Mohamad Naebolsadrian. " Folate targeted micellar nanoparticle of Dextran/retinoic acid for doxorubicin delivery in Acute Leukemia" 4th international conference on nanostructures(ICNS4); 12-14 march 2012 Kish, Iran.

Hojjat Sadeghi-aliabadi, Maryam Aliasgharlou, Mina Mirrian. " In vitro cytotoxic evaluation of some cyclooxygenase-2 inhibitors derivatives against a panel of cancer cell line" 13th Tetrahedron Symposium; 26-29 June 2012, Amsterdam.

Hojjat Sadeghi-aliabadi, Fatemeh Mohamadi, Hossein Fazeli, Maryam Mirlohi. " *Effect of Lactobacillus plantarum A7 with Probiotic Potential on Colon Cancer and Normal Cells Proliferation in Comparison with a Commercial Strain*" 13th Iranian Congress of Pharmaceutical Sciences. 2012; Isfahan, Iran.

Hojjat Sadeghi-aliabadi, Farshid Hasanzadeh, Fatemeh Shafiee. " Evaluation of cytotoxic effects of some novel tetralin derivatives against human cancer cells" 13th Iranian Congress of Pharmaceutical Sciences. 2012; Isfahan, Iran.

Hojjat Sadeghi-aliabadi, Hossein Askarshamsi, Farshid Hasanzadeh, Jhaleh Varshosaz, Ali Fattahi. " Synthesis of chitosan oligomer conjugated MTX nanomicells for purpose of co-delivery of anticancer drugs" 13th Iranian Congress of Pharmaceutical Sciences. 2012; Isfahan, Iran.

Omid Asghari Khorasgani, Amir Abbas Momtazi, **Hojjat Sadeghi-aliabadi**, Frogh Mortezaieghad. " Antiproliferative activity and apoptosis induction of *Kelussia odoratissima* crude extract against various human cancer cell lines" First International Conference on New Ideas in Agriculture. 2014; Isfahan, Iran.

Hojjat Sadeghi-aliabadi, Fatemeh Hendijani, Shaghayegh Haghjoye Javanmard. " Human mesenchymal stem cells isolated from entire umbilical cord and wharton's jelly matrix using explants culture method display similar characteristics" 4th world congress on cell science and stem cell research. 24-26th June, 2014 Valencia, Spain.

Mina Mirrian, **Hojjat Sadeghi-aliabadi**, Mehran Behrooian, Mostafa Ghannadian. " Cytotoxicity and anti-angiogenesis effect of Rhus oritaria, Pistacia khinjuk, Pistacia vera gum extracts" 4th world congress on cell science and stem cell research. 24-26th June, 2014 Valencia, Spain.

Hojjat Sadeghi-Aliabadi*, Fatemeh Hendijani, and Shaghayegh Haghjoye-Javanmard. Evaluation of Umbilical cord mesenchymal stem cell-mediated induction of cytotoxicity and apoptosis in cancer cell lines – K562, A549 - after activation with IFN γ and in combination with Doxorubicin. 5th Annual World Congress of Molecular & Cell Biology; 25-28 April, 2015, Nanjing, China (oral).

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Selected Publications:

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Mina Mirriyan, Afshin Zarghi, Sedighe Sadeghi, Parisa Tabaraki, Mojdeh Toolai, Orkideh Dadras, **Hojjat Sadeghi-aliabadi**. Synthesis and cytotoxic evaluation of some novel sulfonamide derivatives against a few human cancer cells. *IJPR*; 2011; 10(4): 741-748.

Jalleh Varshosaz, **Hojjat Sadeghi-aliabadi**, Faezeh Shafieepoor. Biological safety evaluation of stealth solid lipid nanoparticles of risperidone.... *Farmacia*; 2012; 60 (1), 64-79.

Behshid Behdadfar, Ahmad Kermanpoor, **Hojjat Sadeghi-aliabadi**, Mariya Morrales, Morteza Mozafari. Synthesis of High intrinsic loss power aqueous ferrofluids of iron oxide nanoparticles by citric acid-assisted hydrothermal-reduction route. *J of Solid State Chemistry*; 2012; 187: 20-26.

Behshid Behdadfar, Ahmad Kermanpoor, **Hojjat Sadeghi-aliabadi**, Mariya Morrales, Morteza Mozafari. Synthesis of aqueous ferrofluids of $Zn_xFe_{3-x}O_4$ nanoparticles by citric acid-assisted hydrothermal-reduction route for magnetic hyperthermia applications. *J of Magnetism and magnetic Material*; 2012; 324: 2211-2217.

Hojjat Sadeghi-aliabadi, Hossein Mossavi, Mina Mirriyan, Saeed Kakhaki, Afshin Zarghi, The cytotoxic and synergistic effects of Flavonoid derivatives on doxorubicin cytotoxicity in Hela, MDA-MB-231 and HT-29 cancer cells. *Iranian Journal of Toxicology*; 2012; 15(5): 558-564.

Jalleh Varshosaz, **Hojjat Sadeghi-aliabadi**, Farshid Hasanzadeh, Sareh Andalib. Synthesis of octadecylamine-retinoic acid conjugate for enhanced cytotoxic effects of 5-FU using LDL targeted nanostructured lipid carriers. *European J Medicinal Chemistry*; 2012; 54: 429-438.

Jalleh Varshosaz, **Hojjat Sadeghi-aliabadi**, Farshid Hasanzadeh, Majid Shakeri. Folate targeted solid lipid nanoparticles of simvastatin for enhanced cytotoxic effects of doxorubicin in chronic myeloid leukemia. *Current Nanoscience*; 2012; 8: 249-258.

Mohamad Tavakoli, Ensiyeh Bateni, Mansoor Rismanchiyan, Mohamad Hossein Fathi, Ali DostMohamadi, Azim Rabiee, **Hojjat Sadeghi-aliabadi**, Mahmood Etebari, Mina Mirriyan. Genotoxicity effects of nano bioactive glass and Novabone bioglass on gingival fibroblasts using single cell gel electrophoresis (comet assay): an in vitro study. *Dental Research Journal*; 2012; 9(3): 314-320.

Jalleh Varshosaz, Farshid Hasanzadeh, **Hojjat Sadeghi-aliabadi**, Mostafa Khadem. Galactosylated nanostructured lipid carriers for delivery of 5-FU to hepatocellular carcinoma. *J Liposome Res.*; 2012; 22(3): 224-36.

Jaleh Varshosaz, Farshid Hasanzadeh, **Hojjat Sadeghi-aliabadi**, Farzin Firozian, and Mina Mirian. Effect of Molecular Weight and Molar Ratio of Dextran on Self-Assembly of Dextran Stearate Polymeric Micelles as Nanocarriers for Etoposide. *Journal of Nanomaterials*; 2012: 10 pages

M. Nayebsadrian, Jaleh Varshosaz, Farshid Hasanzadeh, **Hojjat Sadeghi-aliabadi**, M. Banitalebi, M. Rostami. Screening the most effective variables on physical properties of folate-targeted dextran/retinoic acid micelles by Taguchi design. *Journal of Nanomaterials*; 2012: 7 pages.

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Fassihi, A., Mahnam, K., Moeinifard, B., Bahmanziari, M., **Hojjat Sadeghi-aliabadi**, Zarghi, A., Sabet, R., Salimi M., Mansourian, M. Synthesis, calcium-channel blocking activity, and conformational analysis of some novel 1,4-dihydropyridines: Application of PM3 and DFT computational metho. *Medicinal Chemistry Research*; 2012; 21: 2749-2761.

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Hojjat Sadeghi-aliabadi, Maryam Aliasgharluo, Ali Fatahi, Mina Mirian, Mostafa Ghanadian. In vitro cytotoxic evaluation of some synthesized COX-2 inhibitor derivatives against a panel of human cancer cell lines. *Res Pharmaceu Sci (RPS)*; 2013; 8(4): 299-304.

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Hojjat Sadeghi-aliabadi, Morteza Mozaffarib, Behshid Behdadfarc, Maryam Raesizadehd, Hamid Zarkesh-Esfahanie. Preparation and cytotoxic evaluation of

magnetite (Fe_3O_4) nanoparticles on breast cancer cells and its combinatory effects with doxorubicin used in hyperthermia. *Avicenna J Med Biotech*; 2013; 5(2): 96-103.

Jaleh Varshosaz, Farshid Hassanzadeh, **Hojjat Sadeghi-aliabadi**, Zahra Ghelich Khan, and M. Rostami. Retinoic Acid Decorated Albumin-Chitosan Nanoparticles for Targeted Delivery of Doxorubicin Hydrochloride in Hepatocellular Carcinoma. *Journal of Nanomaterials*; 2013; 12 pages.

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Book

A chapter under title of "**Taxol and related compounds**" in a book titled "**Natural Products**" has been published by Elsevier in 2014.

Association Membership:

AAPS: American Association of Pharmaceutical Scientists

BACR: British Association of Cancer Research

Training courses:

- 1) Training course on "GMO detection methods – the analysis of food samples for the presence of genetically modified organisms"; 20-24 Nov.2000, Italy.
- 2) Training course on " Hazard analysis and critical control points" 7th sep. 2000, SGS and IRTCI, Tehran, Iran.
- 3) HACCP workshop, 13-17th July 1999, WHO, Tehran, Iran.
- 4) Workshop on "nanotechnology", 28-30 May 2005, Iran and Russia, Tehran, Iran.

- 5) Training course on "AFM and STM microscopes" Feb. 2005, Faculty of physics, Isfahan University, DME Company, Isfahan, Iran.
- 6) Training course on "Application of Nanotechnology in Drug Delivery" 11-12 september 2005, Universite De Geneve and Iran Polymer and Petrochemical Institute, Tehran, Iran.
- 7) Training course on "LCMS in Pharmaceutical Research" 2005, Beirut, Lebanon, Shimadzu Company.

Teaching Experiences:

General Chemistry (theory and laboratory)
Organic Chemistry (theory and laboratory)
Pharmaceutical (Medicinal) Chemistry
Advanced Medicinal Chemistry
Synthesis in Organic Chemistry
Molecular Cell Biology (Human Cell Culture)

Instrumental Familiarity:

HPLC, Infra Red (IR and FT-IR), LC-MS, NMR, Elemental analysis, Animal Cell Culture Methods and Instruments, PCR.

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