

	<p style="text-align: center;"><b>Mohsen Tafaghodi (Pharm.D., Ph.D.)</b></p> <p style="text-align: center;">Professor in Pharmaceutics and Nanotechnology</p>
<p style="text-align: right;"><b>Address:</b></p> <p style="text-align: right;">School of Pharmacy, Nanotechnology Research Center, Mashhad University of Medical Sciences, Mashhad-Iran</p> <p style="text-align: right;">++98-51-38823255-66 (Office) <b>Tel:</b> ++98-51-38823251 <b>Fax:</b></p> <p style="text-align: right;"><b>tafaghodim[at]mums.ac.ir</b></p> <p style="text-align: right;"><b>Updated at: June 2016</b></p>	
<p style="text-align: right;"><b>Educational Background</b> and</p> <p>School of Pharmacy, Mashhad University of Medical Sciences (1991-1997). <b>Pharm.D.:</b> Pharmacy, Mashhad University of Medical Sciences (1997-2003). <b>Ph.D. (Pharmaceutics):</b> <i>ization using biodegradable microspheres and liposomes: Tetanus toxoid as a thesis title:</i> <i>model</i></p>	
<p style="text-align: right;"><b>Research fellowships:</b></p> <p>armacy, University of Alberta, Canada (cancer vaccination using nano- and microparticulate drug delivery systems). 2001.</p> <p>en/Amsterdam center for Drug Research, University of Leiden, Netherland (preparation and ation and in vivo study of TMC:HBsAg and chitosan:HBsAg nanoparticles as a nasal delivery /adjuvant system). 2011.</p>	

### Research Interests

Adjuvanted vaccine and drug delivery by nanoparticulate and microparticulate delivery systems (nanospheres, microspheres and liposomes)

### Publications

#### Books

- Hosseinzadeh, H., 1998. Adverse Effects of Herbal Drugs. Volume 1, MUMS Press, Mashhad. **Tafaghodi, M.** 1. *print 2007. <sup>th</sup>(Translation), 4*
- Hosseinzadeh, H., 2002. Adverse Effects of Herbal Drugs. Volume 2, MUMS Press, Mashhad. **Tafaghodi, M.** 2. *print, 2007. <sup>rd</sup>(Translation), 3*
- Adverse Effects of Herbal Drugs. Volume 3, MUMS Press, Mashhad. **Tafaghodi, M.** 3. Hosseinzadeh, H., *(Translation)*
- Sadeghi, F., 2006. Pharmaceutics, the science of dosage form design. Volume 1, MUMS Press, Mashhad. **Tafaghodi, M.,** 4. Afrasiabi, H., *print, 2009) <sup>nd</sup>(Translation, 2*
- Sadeghi, F., Fazly, B.S., 2007. Pharmaceutics, the science of dosage form design. Volume 2. **Tafaghodi, M.,** 5. Afrasiabi, H., *print, 2010. <sup>nd</sup> (Translation), 2*
- Trouzi, Zohreh, 2011. Nonprescription Drug Therapy. MUMS press, Mashhad. **Tafaghodi, M.** 6. Imenshahidi, M., Moallem, S.A., *(Translation)*
- Sadeghi, F., Fazly, B.S., 2013. Aulton's Pharmaceutics, the design and manufacture of medicines. Volume 1, MUMS Press, Mashhad. **Tafaghodi, M.,** 7. Afrasiabi, H., *(Translation, 2015)*
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#### Papers

2. Enhancement of immune responses by co-delivery of a CpG oligonucleotide and tetanus toxoid in biodegradable nanospheres. Journal of Controlled Release, 85, 247-262. **Tafaghodi, M.** 1- Diwan, M.,
- S.A., Jaafari, M.R., 2002. Drug delivery from nasal route. Razi, 155, 32-42. **Tafaghodi, M.** 2-
- Shah, M., Rahimizadeh, M., 2003. Isolation and identification of Hyoscyamus aureus alkaloids. Iranian journal of Medicinal Plants, 2(7), 29-36. **Tafaghodi, M.** 3-
- S.A., Jaafari, M.R., 2004. Utilization of particulate and immuno-modulating **Tafaghodi, M.** 4-

- enhancement of immune responses against tumors antigenic markers. Iranian Journal of Basic Medical Sciences, 6(4), 336-345.
- S.A., Jaafari, M.R., Zakavi, S.R., Momen-nejad, M., 2004. Evaluation of the **Tafaghodi, M. 5-** characteristics of various microspheres in the human nose by gamma-scintigraphy. International Journal of Pharmaceutics, 280, 125-135.
- Tabasi, S.A., Jaafari, M.R., 2004. Mucosal immunization. Razi, 175, 17-24. **Tafaghodi, M. 6-**
- , Jaafari, M.R., Sajadi Tabasi, S.A., 2004. Adjuvants. Razi, 174, 34-45. **Tafaghodi, M. 7-**
04. Dextran microspheres encapsulated with tetanus **Tafaghodi, M.8-** Sajadi Tabasi, S.A., delivery system for nasal immunization: in vitro and in vivo characterization. Iranian Journal of Basic Medical Sciences, 7(2), 88-98.
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- , S.A., Jaafari, M.R., 2006. Formulation and characterization and release **Tafaghodi, M.10-** alginate microsphere encapsulated with tetanus toxoid. Journal of Biomaterials Science. Polymer Edition., 17(8), 909-924.
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- f Alginate *In Vitro* 2007. Preparation and **Tafaghodi, M., 15-** Ghiasi, Z., Sajadi Tabasi, S.A., ODN. Iranian Journal of Basic *Leishmania major* Microspheres Encapsulated with Autoclaved Medical Sciences, 10(2), 90-98.
- si, S.A., Payan, M., 2007. Alginate microspheres as delivery system and **Tafaghodi, M.16-** autoclaved *Leishmania major* (ALM) and Quillaja saponin (QS) - Preparation and characterization. Iranian Journal of Pharmaceutical Sciences, 3(2), 61-68.
- n, F., Mohammad-Poor, A-H, Naghibi, M, Hasanzadeh-Khayat, M., Tafaghodi, M., Charkazi, S., [oxiphylline on hemoglobin levels in patients with erythropoietin resistant](#) Abrisham, S., 2007.

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- Tafaghodi, M.** 23- Deldar, K., Nazemi, E., Balali Mood, M., Emami, S.A., Mohammadpour, A.H.,  
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- Tafaghodi, M.** 63- Alipour, S., Montaseri, H., Nekouian, A.A., Khalili Azad, A., Mohamadpour, A.H., Oral delivery of paclitaxel loaded alginate microparticles: pharmacokinetic study. *Journal of Chemotherapy (In Press)*.
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- A., Chamani, J., Khameneh, B., **Tafaghodi, M.** 65- Hadizadeh, F., Khodaverdi, E., Javan, M., Kie, F.S., 2016. Sustained Drug Delivery System for Insulin using Supramolecular Hydrogels Composed of Tri-block Copolymers. Submitted to *IJPR*.
- Ghazvini, K., Fasihi-Ramandi, M., 2016. TB trifusion **Tafaghodi, M.** 66- Amini, Y., Moradi, B., on calcium phosphate nanoparticles stimulated strong cellular immunity in mice. Submitted to *experimental nanoscience*.
- (HT) and trimethylchitosan (TMC) **Tafaghodi, M.** 67- Karimi, S.M., Sankian, M., Khademi, F.,

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- tion of immunoadjuvant potential of dry **Tafaghodi, M.** 68- Pirouzmand, H., Khameneh, B., cross-linked dextran microspheres (CDM) mixed with chitosan nanospheres encapsulated with tetanus toxoid, after nasal immunization in rabbits. Submitted to Pharmaceutical Biology.
- S., Meshkat, Z., Moradi, B., Sankian, M., 2016. Heterologous **Tafaghodi, M.**, 69- Amini, Y., purification and characterization of the HspX, Ppe44 and EsxV proteins of Mycobacterium as a vaccine candidate in prokaryotic system. Submitted to Asian Pacific Journal of Tropical Medicine.
- vaccine preparation, characterization and **Tafaghodi, M.** 70- Dehghan, S., Kheiri, M.T., ... , evaluation of Alginate-based whole inactivated influenza nasal vaccine in rabbits. Submitted to journal of Colloids and Surfaces B.
- M., 2016. In vitro and in vivo evaluation of anti-**Tafaghodi, M.** 71- Mosafer, J., Abnous, Kh., magnetic PLGA nanoparticles loaded with doxorubicin as a theranostic agent for enhanced targeted cancer imaging and therapy. Submitted to Applied surface Science.

### Presentations

- , 1995. Evaluation of different methods of determination of poor soluble **Tafaghodi, M.** 1- congress of Iranian pharmacy students, Mashhad, Iran. <sup>nd</sup> substances. Proceeding of the 2
- udy of HPMC concentrations on physical **Tafaghodi M.** 2- Moghimipour E., Dehghan G. and of Pharmaceutical Sciences, Tehran, Iran. <sup>th</sup>properties of coated tablets. Proceeding of the 6
- h M., Hassanzadeh M., 2000. Isolation and characterization of alkaloids of **Tafaghodi M.** 3- ress of Pharmaceutical Sciences, Mashhad, Iran. <sup>th</sup>Hyoscyamus insanus. Proceeding of the 7
- Sajadi Tabasi, S.A., 2000. Formulation and characterization of liposomes **Tafaghodi, M.** 4- of Pharmaceutical Sciences, Mashhad, Iran. <sup>th</sup>containing tetanus toxoid. Proceeding of the 7
- asi, S.A., Jaafari, M.R., 2002. Preparation and characterization of alginate **Tafaghodi, M.** 5- s of <sup>th</sup>microspheres encapsulated with tetanus toxoid for nasal delivery. Proceeding of the 8 Pharmaceutical Sciences, Shiraz, Iran.



- Samuel, J., Jaafari, M.R., Sajadi Tabasi, S.A., 2002. Increasing the immune **Tafaghodi, M. 6-** delivery of tetanus toxoid and CpG ODN encapsulated in PLGA nanospheres. Proceeding of Iranian Congress of Pharmaceutical Sciences, Shiraz, Iran. <sup>th</sup>the 8
- vi, S.R., Sajadi Tabasi, S.A., Jaafari, M.R., Momen Nejad, H., 2002. Gamma-**Tafaghodi, M. 7-** a novel method to study the distribution and clearance rate of different mucoadhesive nasal Annual Meeting of Nuclear Medicine, Mashhad, Iran. <sup>th</sup>delivery systems. Proceeding of the 6
- S.A., Jaafari, M.R., 2003. Nasal immunization using alginate microspheres **Tafaghodi, M. 8-** Drug Delivery Systems, Tehran, <sup>st</sup>encapsulated with tetanus toxoid (TT). Proceeding of the 1 Iran.
2003. Nasal immunization using cross-linked dextran **Tafaghodi, M. 9-** Sajadi Tabasi, S.A., New Drug Delivery <sup>st</sup>microspheres encapsulated with tetanus toxoid (TT). Proceeding of the 1 Systems, Tehran, Iran.
- ..., Sajadi Tabasi, S.A., 2003. Nasal immunization using neutral, cationic, **Tafaghodi, M. 10-** and cationic-fusogenic liposomes encapsulated with tetanus toxoid (TT). Proceeding of the 1 Drug Delivery Systems, Tehran, Iran.....
- Diwan, M., Sajadi, S.A., Jaafari, M.R., 2003. Utilization of particulate and **Tafaghodi, M. 11-** adjuvants for enhancement of immune response against tumors antigenic markers. Proceeding of the 3rd Congress of National Biotechnology, Mashhad, Iran.
- A., Jaafari, M.R., 2006. Nasal immunization studies by alginate and cross**Tafaghodi, M. 12-** microspheres and PLGA nanospheres encapsulated with tetanus toxoid (TT). Proceeding of the Iranian Congress of Pharmaceutical Sciences, Tehran, Iran. <sup>th</sup>10
- S.A., Kharazizadeh, M., 2007. Preparation and characterization of PLGA **Tafaghodi, M., 13-** adjuvant. Proceeding of the 3 *Leishmania major* nonospheres encapsulated with autoclaved Congress of New Drug Delivery Systems, Tehran, Iran. <sup>rd</sup>
- n, H., Farahmand, F., 2007. Determination of encapsulation efficiency of **Tafaghodi, M. 14-** tetanus toxoid in microsphere and Liposome drug delivery systems by spectrofluorimetry Congress of New Drug Delivery Systems, Tehran, Iran. <sup>rd</sup>method. Proceeding of the 3
- Amin, M.R., 2007. Nasal Immunization Studies in Rabbits by Anionic and **Tafaghodi, M. 15-** coated Liposomes Encapsulated with Tetanus Toxoid as a Model Antigen. Proceeding of the 1 Amsterdam, Netherland.
- Sajadi Tabasi, S.A., 2008. Preparation, characterization and immunization **Tafaghodi, M. 16-** in adjuvant. *Leishmania major* studies with PLGA nonospheres encapsulated with autoclaved Iranian Congress of Pharmaceutical Sciences, Kerman, Iran. <sup>th</sup> Proceeding of the 11
- particulate drug delivery systems as vaccine adjuvant and delivery system. **Tafaghodi, M. 17-** e Nanodrugs, nano-biotechnology, nano-biosensors and nano-materials in medical sciences. Mashhad, Iran.

M.R., Sajadi, S.A., Khamesipour, A., Amiri, N., 2009. Immunization against **Tafaghodi, M.** 18-  
by PLGA nanospheres encapsulated with autoclaved Leishmania major (ALM) and CpG-ODN.  
ICRC 2009, Zanjan, Iran.

2009. Dextran microspheres could enhance immune responses against **Tafaghodi, M.** 19-  
sal immunization in rabbit. *Quillaja*PLGA nanospheres encapsulated with tetanus toxoid and  
ICRC 2009, Zanjan, Iran.

M.R., Sajadi Tabasi, S.A., 2009. Induction of immune responses against **Tafaghodi, M.** 20-  
and *Leishmania major* leishmaniasis by alginate microspheres encapsulated with autoclaved  
n vaccine adjuvant and delivery systems, Vienna, Austria. <sup>rd</sup> CpG-ODN. Proceeding of the 3

, Saluja, V., 2011. Hepatitis B surface antigen (HBsAg) nanoparticles coated **Tafaghodi** 21-  
and trimethyl chitosan (TMC): impact of formulation on physicochemical and immunological  
characteristics.

r based nanoparticles as adjuvant/vaccine delivery system for systemic and **Tafaghodi** 22-  
tional Congress of Immunology and allergy of Iran. Tabriz, Iran. <sup>th</sup> mucosal immunizations. 13

### Honors & Awards

igator (student) in medicinal sciences, Ferdowsi Festival, Mashhad, 2001 (Offered by MUMS  
and FUM).

Honored Pharmacist, Mashhad, 2002 (Offered by Khorasan Association of Pharmacists).

minar of Pharmaceutical Scientists (Ph.D. student), Shiraz, 2002 <sup>th</sup> The best presentation in 8  
(Offered by Iranian Association of Pharmaceutical Scientists).

of Pharmaceutical Sciences, Tabriz, 2004 (Offered by Iranian <sup>th</sup> Honored young researcher, 9  
Association of Pharmaceutical Scientists).

translation (Adverse effects of herbal drugs vol. 1 and 2), Research week festival, Mashhad,  
2004 (Offered by MUMS)

Three awards from Iranian Nanotechnology Initiative for supervision of two Pharm.D. thesis.

translation (Pharmaceutics, vol. 1), Research week festival, Mashhad, 2006 (Offered by MUMS)

Honored lecturer, MOALEM week festival, Mashhad, 2007 (Offered by MUMS)

translation (Pharmaceutics, vol. 2), Research week festival, Tehran, 2007 (Offered by University of Tehran)

translation (Pharmaceutics, vol. 2), Research week festival, Mashhad, 2007 (Offered by MUMS)

presentation in ICRC 2011, Mashhad, 2011 (Offered by Iranian Controlled Release Society).

translation (Nonprescription Drug Therapy), Research week festival, Mashhad, 2011 (Offered by MUMS)

translation (Pharmaceutics, vol. 1), Research week festival, Mashhad, 2015 (Offered by MUMS).

#### **Membership**

Member of "Nanotechnology Research Center", Mashhad University of Medical Sciences

Member of "Pharmaceutical Research Center", Mashhad University of Medical Sciences

Member of "Controlled Release Society of Iran"

Editorial member of Asian Pacific Journal of Tropical Medicine (2009-2011)

Editorial member of Nanomedicine Journal

Reviewer of Drug Development and Industrial Pharmacy journal

Reviewer of Journal of Drug Targeting

Reviewer of Journal of Microencapsulation

Reviewer of Journal of the Taiwan Institute of Chemical Engineers

Reviewer of Iranian Journal of Pharmaceutical Research

Reviewer of Iranian Journal of Basic Medical Sciences

Reviewer of DARU journal

Reviewer of Colloids and Surfaces, B journal

<b>Administrative Responsibilities</b>
<b>Other Skills</b>