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Jafar Ezzati Nazhad Dolatabadi, [M.Sc, PhD]

Education

Sep 2010 – O 2014 **Tabriz University of Medical Sciences**
PhD, Pharmaceutical Nanotechnology
Tabriz, Iran

Thesis

Jafar Ezzati Nazhad Dolatabadi: *Dry powder inhalation of Alendronate-loaded nanolipidic carriers: formulation and characterization*. 10/2014, Degree: Ph.D, Supervisor: Prof. Hadi Valizadeh

Jafar Ezzati Nazhad Dolatabadi: *Study of DNA interaction with 2-Tert-Butylhydroquinone and 3-Butylated Hydroxyanisol food additives*. Razi University, 04/2009, Degree: M.S, Supervisor: Prof. Soheila Kashanian

Research Experience

Jan 2015 – present **Assistant Professor**
Tabriz University of Medical Sciences, Research Center for Pharmaceutical
Nanotechnology
Tabriz, Iran

Awards & Grants

Oct 2014 Award: Top student in 20th Razi Research Festival on Medical Sciences

Sep 2014 Award: Top PhD student in 13th Research Festival of Tabriz University of
Medical Sciences

Skills

Skills Nanoparticle Preparation, Nanomedicine, Nanobiotechnology



Publication Highlights

Journal Publications

- Ahad Mokhtarzadeh, Jafar Ezzati Nazhad Dolatabadi, Khalil Abnous, Miguel de la Guardia, Mohammad Ramezani: *Nanomaterial-based cocaine aptasensors*. *Biosensors & Bioelectronics* 06/2015; 68. DOI:10.1016/j.bios.2014.12.052
- Morteza Eskandani, Jaleh Barar, Jafar Ezzati Nazhad Dolatabadi, Hamed Hamishehkar, Hossein Nazemiyeh: *Formulation, characterization and geno/cytotoxicity studies of galbanic acid-loaded solid lipid nanoparticles*. *Pharmaceutical Biology* 04/2015; DOI:10.3109/13880209.2014.991836
- Nazanin Rahmanian, Hamed Hamishehkar, Jafar Ezzati Nazhad Dolatabadi, Nasser Arsalani: *Nano graphene oxide: A novel carrier for oral delivery of flavonoids..* *Colloids and surfaces B: Biointerfaces* 09/2014; DOI:10.1016/j.colsurfb.2014.09.036
- Jafar Ezzati Nazhad Dolatabadi, Hamed Hamishehkar, Hadi Valizadeh: *Development of dry powder inhaler formulation loaded with alendronate solid lipid nanoparticles: solid-state characterization and aerosol dispersion performance..* *Drug Development and Industrial Pharmacy* 09/2014; DOI:10.3109/03639045.2014.956111
- Elham Rostami, Soheila Kashanian, Abbas H Azandaryani, Hossain Faramarzi, Jafar Ezzati Nazhad Dolatabadi, Kobra Omidfar: *Drug Targeting using Solid Lipid Nanoparticles..* *Chemistry and Physics of Lipids* 04/2014; 181. DOI:10.1016/j.chemphyslip.2014.03.006
- Ali Akbar Jamali, Mohammad Pourhassan-Moghaddam, Jafar Ezzati Nazhad Dolatabadi, Yadollah Omid: *Nanomaterials on the Road of miRNA Detection: Optical and Electrochemical Nanobiosensors*. *TrAC Trends in Analytical Chemistry* 03/2014; DOI:10.1016/j.trac.2013.10.008
- Jafar Dolatabadia Ezzati Nazhad, Hamed Hamishehkar, Morteza Eskandania, Hadi Valizadeh: *Formulation, Characterization and Cytotoxicity Studies of Alendronate Sodium-Loaded Solid Lipid Nanoparticles*. *Colloids and surfaces B: Biointerfaces* 02/2014; 117. DOI:10.1016/j.colsurfb.2014.01.055
- Morteza Eskandani, Hamed Hamishehkar, Jafar Ezzati Nazhad Dolatabadi: *Cytotoxicity and DNA Damage Properties of tert-butylhydroquinone (TBHQ) Food Additive*. *Food Chemistry* 01/2014; Ahead of Print(Ahead of Print):Ahead of Print. DOI:10.1016/j.foodchem.2013.12.087
- Jafar Ezzati Nazhad Dolatabadi, Miguel de la Guardia: *Nanomaterial-based electrochemical immunosensors as advanced diagnostic tools*. *Analytical methods* 01/2014; 6(12):3891. DOI:10.1039/c3ay41749b
- Jafar Ezzati Nazhad Dolatabadi, Vahid Panahi-Azar, Abolfazl Barzegar, Ali Akbar Jamali, Fahimeh Kheirdoosh, Soheila Kashanian, Yadollah Omid: *Spectroscopic and molecular modeling studies of human serum albumin interaction with propyl gallate*. *RSC Advances* 01/2014; DOI:10.1039/C4RA11103F
- Jafar Ezzati Nazhad Dolatabadi, Hamed Hamishehkar, Miguel de la Guardia, Hadi Valizadeh: *A fast and simple spectrofluorometric method for the determination of alendronate sodium in pharmaceuticals..* 01/2014; 4(1):39-42. DOI:10.5681/bi.2014.005



- Jafar Ezzati Nazhad Dolatabadi, Ahad Mokhtarzadeh, Seyed Morteza Ghareghoran, Gholamreza Dehghan: *Synthesis, Characterization and Antioxidant Property of Quercetin-Tb(III) Complex*.. Advanced Pharmaceutical Bulletin 01/2014; 4(2):101-4. DOI:10.5681/apb.2014.016
- Hamed Hamishehkar, Sajjad Khani, Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi, Morteza Eskandani: *Geno- and cytotoxicity of propyl gallate food additive*.. Drug and Chemical Toxicology 10/2013; DOI:10.3109/01480545.2013.838776
- Morteza Eskandani, Hamed Hamishehkar, Jafar Ezzati Nazhad Dolatabadi: *Cyto/genotoxicity Study of Polyoxyethylene (20) Sorbitan Monolaurate (Tween 20)*.. DNA and cell biology 07/2013; DOI:10.1089/dna.2013.2059
- Jafar Ezzati Nazhad Dolatabadi, Omid Mashinchian, Baharak Ayoubi, Ali Akbar Jamali, Ahmad Mobed, Dusan Losic, Yadollah Omid, Miguel de la Guardia: *Optical and electrochemical DNA nanobiosensors*. TrAC Trends in Analytical Chemistry 05/2013; 30:459-472. DOI:10.1016/j.trac.2010.11.010
- Somayeh Vandghanooni, Ali Forouharmehr, Morteza Eskandani, Abolfazl Barzegari, Vala Kafil, Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi: *Cytotoxicity and DNA fragmentation properties of butylated hydroxyanisole*.. DNA and cell biology 03/2013; 32(3):98-103. DOI:10.1089/dna.2012.1946
- Amir Ata Saei, Jafar Ezzati Nazhad Dolatabadi, Parvaneh Najafi-Marandi, Alireza Abhari, Miguel de la Guardia: *Electrochemical biosensors for glucose based on metal nanoparticles*. TrAC Trends in Analytical Chemistry 01/2013; 42:216-227. DOI:10.1016/j.trac.2012.09.011
- Ali Akbar Jamali, Afshin Tavakoli, Jafar Ezzati Nazhad Dolatabadi: *Analytical overview of DNA interaction with Morin and its metal complexes*. European Food Research and Technology 09/2012; DOI:10.1007/s00217-012-1778-8
- Mohammad Hasanzadeh, Nasrin Shadjou, Lotfali Saghatforoush, Jafar Ezzati Nazhad Dolatabadi: *Preparation of a new electrochemical sensor based on iron (III) complexes modified carbon paste electrode for simultaneous determination of mefenamic acid and indomethacin*.. Colloids and surfaces B: Biointerfaces 12/2011; 92:91-7. DOI:10.1016/j.colsurfb.2011.11.026
- Jafar Ezzati Nazhad Dolatabadi, Miguel de la Guardia: *Applications of diatoms and silica nanotechnology in biosensing, drug and gene delivery, and formation of complex metal nanostructures*. TrAC Trends in Analytical Chemistry 10/2011; 30(9):1538-1548. DOI:10.1016/j.trac.2011.04.015
- Jafar Ezzati Nazhad Dolatabadi, Yadollah Omid, Dusan Losic: *Carbon Nanotubes as an Advanced Drug and Gene Delivery Nanosystem*. Current Nanoscience 06/2011; 7(3):297-314. DOI:10.2174/157341311795542444
- Jafar Ezzati Nazhad Dolatabadi: *Molecular aspects on the interaction of quercetin and its metal complexes with DNA*. International journal of biological macromolecules 03/2011; 48(2):227-33. DOI:10.1016/j.ijbiomac.2010.11.012
- Seyed Mojtaba Ahmadi, Gholamreza Dehghan, Muhammad Ali Hosseinpourfeizi, Jafar Ezzati Nazhad Dolatabadi, Soheila Kashanian: *Preparation, characterization, and DNA binding studies of water-soluble quercetin--molybdenum(VI) complex*.. DNA and cell biology 03/2011; 30(7):517-23. DOI:10.1089/dna.2010.1205



- Balal Khalilzadeh, Mohammad Hasanzadeh, Soheila Sanati, Loftali Saghatforoush, Nasrin Shadjou, Jafar Ezzati Nazhad Dolatabadi, Peyman Sheikhzadeh: *Preparation of a New Electrochemical Sensor Based on Cadmium Oxide Nanoparticles and Application for Determination of Penicillamine*. International journal of electrochemical science 01/2011; 6:4164-4175..
- Jafar Ezzati Nazhad Dolatabadi, Ali Akbar Jamali, Mohammad Hasanzadeh, Yadollah Omid: *Quercetin Delivery into Cancer Cells with Single Walled Carbon Nanotubes*. 01/2011; 1:21-25.
DOI:10.7763/IJBBB.2011.V1.4
- Gholamreza Dehghan, Jafar Ezzati Nazhad Dolatabadi, Abolghasem Jouyban, Karim Asadpour Zeynali, Seyed Mojtaba Ahmadi, Soheila Kashanian: *Spectroscopic studies on the interaction of quercetin-terbium(III) complex with calf thymus DNA*.. DNA and cell biology 11/2010; 30(3):195-201.
DOI:10.1089/dna.2010.1063
- Jafar Ezzati Nazhad Dolatabadi, Soheila Kashanian: *A review on DNA interaction with synthetic phenolic food additives*. Food Research International 06/2010; 43(5-43):1223-1230.
DOI:10.1016/j.foodres.2010.03.026
- Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi: *In Vitro studies on calf thymus DNA interaction and 2-tert-butyl-4-methylphenol food additive*. European Food Research and Technology 04/2010; 230:821-825.. DOI:10.1007/s00217-010-1226-6
- S. Kashanian, J. Ezzati Nazhad Dolatabadi: *DNA Binding Studies of 2-tert Butyl hydroquinone (TBHQ) Food Additive*. Food Chemistry 10/2009; 116(3):743-747. DOI:10.1016/j.foodchem.2009.03.027
- Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi: *In vitro study of calf thymus DNA interaction with butylated hydroxyanisole*.. DNA and cell biology 07/2009; 28(10):535-40. DOI:10.1089/dna.2009.0906

Conference Proceedings

- Jafar Ezzati Nazhad Dolatabadi: *Development and Cytotoxicity Study of Alendronate-Loaded Solid Lipid Nanoparticles*. IFCC WorldLab, Istanbul; 06/2014
- Seyed Mojtaba Ahmadi, Gholamreza Dehghan, Muhammad Ali Hosseinpourfeizi, Jafar Ezzati Nazhad Dolatabadi: *In Vitro Studies on Calf Thymus DNA interaction with Quercetin-Palladium (II) Complex*. 2011 International Conference on Bioscience, Biochemistry and Bioinformatics - ICBBB 2011; 01/2011
- Jafar Ezzati Nazhad Dolatabadi, Ali Akbar Jamali, Mohammad Hasanzadeh, Nasser Razmaraii, Yadollah Omid: *Delivery of Quercetin as an Antioxidant Agent to Cancer Cells by Single-walled Carbon Nanotubes*. 2011 International Conference on Bioscience, Biochemistry and Bioinformatics - ICBBB 2011; 01/2011
- Jafar Ezzati Nazhad Dolatabadi, Soheila Kashanian: *DNA binding studies of propyl gallate using voltammetry*. 35th FEBS; 01/2010



- Jafar Ezzati Nazhad Dolatabadi, Ydollah Omid, Shahram Najafi, ali Ahmad Alipour, Ahmad Mobed: *Recent Progresses in Drug Delivery using Carbon Nanotubes*. Nanotech Conference & Expo; Applications and Industrial Development; 01/2010
- Jafar Ezzati Nazhad Dolatabadi, Mojtaba Ahmadi, Gholamreza Dehghan: *Studies on calf thymus DNA interaction and antimicrobial 2-arylbenzimidazole using Circular Dichroism*. 12th Iranian Pharmaceutical Science Congress (IPSC2010); 01/2010
- Jafar Ezzati Nazhad Dolatabadi: *Optical DNA Nano-biosensors*. Nanotech Conference & Expo; Applications and Industrial Development; 01/2010
- Jafar Ezzati Nazhad Dolatabadi, Gholamreza Dehghan, Seyed Mojtaba Ahmadi: *Spectrofluorimetric study of interaction between DNA and 2-arylbenzimidazole as an antimicrobial agent*. 12th Iranian Pharmaceutical Science Congress (IPSC2010), Zanjan, Iran; 01/2010
- Jafar Ezzati Nazhad Dolatabadi, Shahram Najafi, Ahmad Mobed: *Application of carbon nanotubes in cancer therapy*. 35th FEBS; 01/2010
- Jafar Ezzati Nazhad Dolatabadi, Soheila Kashanian: *Investigation of DNA Interaction with Butylated Hydroxyanisole Using Fluorimetry*. 3rd International Congress of Biochemistry; 11/2009
- Jafar Ezzati Nazhad Dolatabadi, Soheila Kashanian: *DNA binding study of 2-Tert-Butyl hydroquinone Using Viscosimetry*. 3rd International Congress of Biochemistry; 11/2009
- Jafar Ezzati Nazhad Dolatabadi, Soheila Kashanian: *DNA binding study of 2-Tert-Butyl hydroquinone and butylated Hydroxyanisole Using Circular Dichroism Spectroscopy*. 3rd International Congress of Biochemistry; 11/2009
- Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi: *Thermodynamic Studies of DNA Intercalative Food Additives*. 14th European Congress on Biotechnology; 09/2009
- Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi, Mehdi Zahedi, Marziyeh Sadeghi: *Voltammetric studies of interaction of 2-tert Butylhydroquinone with DNA*. 2nd Euchem Congress; 08/2008
- Soheila Kashanian, Jafar Ezzati Nazhad Dolatabadi: *Investigation of DNA interaction with 2-tert Butylhydroquinone using fluorimetry*. 2nd Euchem Congress; 08/2008