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Ahad Mokhtarzadeh, PhD (Pharmaceutical Biotechnology)

Dr. Ahad Mokhtarzadeh is the holder of a PhD awarded to him by the Department of pharmaceutical biotechnology at Mashed university of medical science, Iran. Currently, he is working as an Assistant Professor in the Immunology Research center at Tabriz University of Medical Sciences, Iran. His fields of interests are research in Cancer Research, nanoparticle based gene/drug delivery systems and development of biosensors for detection of different analyte especially cancer biomarkers.

https://www.researchgate.net/profile/Ahad_Mokhtarzadeh

<https://scholar.google.com/citations?user=ZXsDD3IAAAAJ&hl=en>

Education

Industrial microbiology, MS

Pharmaceutical Biotechnology, PhD

Skills & Activities

<i>Skills</i>	PCR, Transfection, Cancer Biomarkers, Cell Culture, Gene Delivery, Nanobiosensors, Gene Expression, Molecular Cloning, Real time PCR Apoptosis, Western Blot Analysis, Flow Cytometry, Gene Silencing methods
<i>Interests</i>	Drug/ gene delivery by nanoparticles, Gene Therapy, Targeting, Nano biosensors

Books

1. Ahad Mokhtarzadeh, Javad Akhtari, Zahra Salmasi, Sahar Taghavi, Morteza Ghandadi, Behzad Behnam, Jafar Ezzati Nazhad Dolatabadi, Sara Ayatollahi, Zohreh Rezvani, Marzieh Mohammadi, Hamideh Parhiz: Nanomedicine. Edited by Ahad Mokhtarzadeh, 08/2017; kerman university of medical sciences.
2. Ahad Mokhtarzadeh, Maryam Hejazi: Molecular biology. Lecture/Exam. 06/2016; Mir Publisher/ Tehran.
3. Ahad Mokhtarzadeh: The world of the cell (cell and molecular biology) (920 Pages). Edited by Professor Ahmad Majd, 12/2015; Mir.
4. Maryam Hashemi, Ahad Mokhtarzadeh ·, Mohammad Ramezani, Mahmoud Reza Jaafari ·, Fatemeh Soltani, Hamideh Parhiz: Production and evaluation of peptide and protein preparations. 09/2015; Mahshad University of Medical Sciences (MUMS).
5. Ahad Mokhtarzadeh, Maryam Hejazi: Cell biology. Lecture/Exam. 05/2011;

Journal Publications

1. Hasanzadeh M, Tagi S, Solhi E, Shadjou N, Jouyban A, Mokhtarzadeh A. Label free immunoassay of a prognostic marker in breast cancer in adenocarcinoma cell lysates and unprocessed human plasma samples using gold nanostructure coated on organic substrate. *International Journal of Biological Macromolecules*. 2018 Jun 21.
2. Hasanzadeh M, Javidi E, Jouyban A, Mokhtarzadeh A, Shadjou N, Mahboob S. Electrochemical recognition of taurine biomarker in unprocessed human plasma samples using silver nanoparticlebased nanocomposite: A new platform for early stage diagnosis of neurodegenerative diseases of the nervous system. *Journal of Molecular Recognition*. 2018 Jun 28:e2739.
3. Mohammad Hasanzadeh, Amir Zargami, Hossein Navay Baghban, Ahad Mokhtarzadeh, Nasrin Shadjou, Soltanali Mahboob: *Aptamer-based assay for monitoring genetic disorder phenylketonuria (PKU)*. *International Journal of Biological Macromolecules* 05/2018; 116., DOI:10.1016/j.ijbiomac.2018.05.028
4. Raziye Salmazadeh, Morteza Eskandani, Ahad Mokhtarzadeh, Somayeh Vandghanooni, Roghaiyeh Ilghami, Hadi Maleki, Nazli Saeedi, Yadollah Omid: *Propyl gallate (PG) and tert-butylhydroquinone (TBHQ) may alter the potential anti-cancer behavior of probiotics*. *Food Bioscience* 05/2018; 24., DOI:10.1016/j.fbio.2018.05.005
5. Mohammad Hasanzadeh, Fozieh Mokhtari, Vahid Jouyban-Gharamaleki, Ahad Mokhtarzadeh, Nasrin Shadjou: *Electrochemical monitoring of malondialdehyde biomarker in biological samples via electropolymerized amino acid/chitosan nanocomposite*. *Journal of Molecular Recognition* 04/2018;, DOI:10.1002/jmr.2717
6. Reza Eivazzadeh-Keihan, Paria Pashazadeh-Panahi, Behzad Baradaran, Miguel de la Guardia, Maryam Hejazi, Hessamaddin Sohrabi, Ahad Mokhtarzadeh, Ali Maleki: *Recent progress in optical and electrochemical biosensors for sensing of Clostridium Botulinum neurotoxin*. *TrAC Trends in Analytical Chemistry* 04/2018;, DOI:10.1016/j.trac.2018.03.019
7. Nasrin Razmi, Behzad Baradaran, Maryam Hejazi, Mohammad Hasanzadeh, Jafar Mosafer, Ahad Mokhtarzadeh, Miguel de la Guardia: *Recent advances on aptamer-based biosensors to detection of platelet-derived growth factor*. *Biosensors & Bioelectronics* 04/2018;, DOI:10.1016/j.bios.2018.04.048

8. Mohammad Hasanzadeh, Solmaz Tagi, Elham Solhi, Ahad Mokhtarzadeh, Nasrin Shadjou, Aziz Eftekhari, Soltanali Mahboob: *An innovative immunoassay for ultrasensitive detection of breast cancer specific carbohydrate (CA-15-3) in unprocessed human plasma and MCF-7 breast cancer cell lysates using gold nanoparticle electrochemically assembled onto thiolated graphene quantum dots*. International Journal of Biological Macromolecules 04/2018; 114., DOI:10.1016/j.ijbiomac.2018.03.183
9. Karim Khanmohammadi Chenab, Reza Eivazzadeh-Keihan, Paria Pashazadeh-Panahi, Ahad Mokhtarzadeh, Ali Maleki: *Biological Applications of Bacterial Nano-Surface Layers: A Brief Overview*. Nanomedicine 03/2018; 5(2)., DOI:10.22038/nmj.2018.005.002
10. Ayda Pouyafar, Milad Zadi Heydarabad, Soltanali Mahboob, Ahad Mokhtarzadeh, Reza Rahbarghazi: *Angiogenic potential of YKL-40 in the dynamics of tumor niche*. Biomedicine & Pharmacotherapy 02/2018; 100., DOI:10.1016/j.biopha.2018.02.050
11. Mohammad Hasanzadeh, Soodabeh Hassanpour, Arezoo Saadati Nahr, Nasrin Shadjou, Ahad Mokhtarzadeh, Soltanali Mahboob: *Electropolymerization of Proline Supported beta-Cyclodextrin inside Amino Functionalized Magnetic Mesoporous Silica Nanomaterial: One Step Preparation, Characterization and Electrochemical Application*. Analytical and Bioanalytical Electrochemistry 02/2018; 10(1):77–97.
12. Seyed Hossein Rajabnejad, Ahad Mokhtarzadeh, Khalil Abnous, Seyed Mohammad Taghdisi, Mohammad Ramezani, Bibi Marjan Razavi: *Targeted delivery of melittin to cancer cells by AS1411 anti-nucleolin aptamer*. Drug Development and Industrial Pharmacy 01/2018; 44(6):1-20., DOI:10.1080/03639045.2018.1427760
13. Reza Eivazzadeh-Keihan, Paria Pashazadeh-Panahi, Behzad Baradaran, Ali Maleki, Maryam Hejazi, Ahad Mokhtarzadeh, Miguel de la Guardia: *Recent advances on nanomaterial based electrochemical and optical aptasensors for detection of cancer biomarkers*. TrAC Trends in Analytical Chemistry 01/2018; 100., DOI:10.1016/j.trac.2017.12.019
14. Abbas Alibakhshi, Fatemeh Abarghooi Kahaki, Shahrzad Ahangarzadeh, Hajar Yaghoobi, Fatemeh Yarian, Roghaye Arezumand, Javad Ranjbari, Ahad Mokhtarzadeh, Miguel de la Guardia: *Targeted cancer therapy through antibody fragments-decorated nanomedicines*. Journal of Controlled Release 11/2017; 268:323-334., DOI:10.1016/j.jconrel.2017.10.036
15. Mohammad Hasanzadeh, Nasrin Razmi, Ahad Mokhtarzadeh, Nasrin Shadjou, Soltanali Mahboob: *Aptamer based assay of platelet-derived growth factor in unprocessed human*

- plasma sample and MCF-7 breast cancer cell lysates using gold nanoparticle supported α -cyclodextrin*. International Journal of Biological Macromolecules 11/2017; 108., DOI:10.1016/j.ijbiomac.2017.11.149
16. Soodabeh Hassanpour, Behzad Baradaran, Maryam Hejazi, Mohammad Hasanzadeh, Ahad Mokhtarzadeh, Miguel de la Guardia: *Recent trends in rapid detection of Influenza infections by Bio and nanobiosensor*. TrAC Trends in Analytical Chemistry 11/2017; 98., DOI:10.1016/j.trac.2017.11.012
 17. Mohammad Hasanzadeh, Hossein Navay baghban, Nasrin Shadjou, Ahad Mokhtarzadeh: *Ultrasensitive electrochemical immunosensing of tumor suppressor protein p53 in unprocessed human plasma and cell lysates using a novel nanocomposite based on polycysteine/graphene quantum dots/gold nanoparticle*. International Journal of Biological Macromolecules 11/2017; 107(Pt A), DOI:10.1016/j.ijbiomac.2017.11.006
 18. Ahad Mokhtarzadeh, Reza Eivazzadeh-Keihan, Paria Pashazadeh, Maryam Hejazi, Nasrin Gharaatifar, Mohammad Hasanzadeh, Behzad Baradaran, Miguel de la Guardia: *Nanomaterial-based biosensors for detection of pathogenic virus*. TrAC Trends in Analytical Chemistry 10/2017; 97., DOI:10.1016/j.trac.2017.10.005
 19. Maryam Afsharzadeh, Maryam Hashemi, Ahad Mokhtarzadeh, Khalil Abnous, Mohammad Ramezani: *Recent advances in co-delivery systems based on polymeric nanoparticle for cancer treatment*. Artificial Cells 09/2017;, DOI:10.1080/21691401.2017.1376675
 20. Mohammad Hasanzadeh, Soodabeh Hassanpour, Arezoo Saadati, Nasrin Shadjou, Ahad Mokhtarzadeh: *Magnetic mesoporous silica/chitosan/poly-proline: A novel nanocomposite towards sensing of some clinically relevant biomolecules*. 09/2017; 07(03n04), DOI:10.1142/S1793984417500064
 21. Ahad Mokhtarzadeh, Soodabeh Hassanpour, Zahra Farajzadeh Vahid, Maryam Hejazi, Maryam Hashemi, Javad Ranjbari, Maryam Tabar zad, Saeed Noorolyai, Miguel de la Guardia: *Nano-delivery system targeting to cancer stem cell cluster of differentiation biomarkers*. Journal of Controlled Release 09/2017; 266., DOI:10.1016/j.jconrel.2017.09.028
 22. Homa Ahmadi, Mohammad Ramezani, Rezvan Yazdian Robati, Behzad Behnam, Kamal Razavi Azarkhiavi, Azadeh Hashem Nia, Ahad Mokhtarzadeh, Maryam Matbou Riahi, Bibi Marjan Razavi, Khalil Abnous: *Acute toxicity of functionalized single wall carbon*

- nanotubes: A biochemical, histopathologic and proteomics approach*. Chemico-Biological Interactions 08/2017; 275., DOI:10.1016/j.cbi.2017.08.004
23. Mohammad Hasanzadeh, Hosein Navayebagban, Ahad Mokhtarzadeh, Nasrin Shadjou, Soltanali Mahboob: *An innovative mediator-free immunosensor for detection of tumor suppressor protein p53 in unprocessed human plasma and cancer cell lysates*. International journal of biological macromolecules 07/2017; 105., DOI:10.1016/j.ijbiomac.2017.07.165
 24. Mohammad Hasanzadeh, Soodabeh Hassanpour, Arezoo Saadati Nahr, Nasrin Shadjou, Ahad Mokhtarzadeh, Jalal Mohammadi: *Proline Dehydrogenase-entrapped mesoporous magnetic silica nanomaterial for electrochemical biosensing of L-proline in biological fluids*. Enzyme and Microbial Technology 06/2017; 105., DOI:10.1016/j.enzmictec.2017.05.007
 25. Mohammadreza Yousefi, Safar Farajnia, Ahad Mokhtarzadeh, Bahman Akbari, Shiva Ahdi Khosroshahi, Mina Mamipour, Hassan Dariushnejad, Vahideh Ahmadzadeh: *Soluble Expression of Humanized Anti-CD20 Single Chain Antibody in Escherichia coli by Cytoplasmic Chaperones Co-expression*.
 26. Javad Ranjbari, Ahad Mokhtarzadeh, Abbas Alibakhshi, Maryam Tabar zad, Maryam Hejazi, Mohammad Ramezani: *Anti-Cancer Drug Delivery Using Carbohydrate-Based Polymers*. Current pharmaceutical design 05/2017; 23(999)., DOI:10.2174/1381612823666170505124927
 27. Behzad Behnam, Mohammad Rezazadehkermani, Saeid Ahmadzadeh, Ahad Mokhtarzadeh, Seyed Nouredin Nematollahi-Mahani, Abbas Pardakhty: *Microniosomes for concurrent doxorubicin and iron oxide nanoparticles loading; preparation, characterization and cytotoxicity studies*. Artificial Cells 04/2017; 46(1):1-11., DOI:10.1080/21691401.2017.1296850
 28. Mahboubeh Ebrahimian, Sahar Taghavi, Ahad Mokhtarzadeh, Mohammad Ramezani, Maryam Hashemi: *Co-delivery of Doxorubicin Encapsulated PLGA Nanoparticles and Bcl-xL shRNA Using Alkyl-Modified PEI into Breast Cancer Cells*. Applied Biochemistry and Biotechnology 02/2017; 183(1)., DOI:10.1007/s12010-017-2434-3
 29. Mohammad Hasanzadeh, Sattar Sadeghi, Leyla Bageri, Ahad Mokhtarzadeh, Ayub Karimzadeh, Nasrin Shadjou, Soltanali Mahbub: *Corrigendum to "Poly-dopamine-beta-cyclodextrin: A novel nanobiopolymer towards sensing of amino acids at physiological*

- pH*” [Materials Science and Engineering: C Volume 69, 1 December 2016, Pages 343–357]. Materials Science and Engineering C 02/2017; 75., DOI:10.1016/j.msec.2017.02.162
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 32. Mohamadreza Yousefi, Mehdi Dadashpour, Maryam Hejazi, Mohammad Hasanzadeh, Miguel de la Guardia, Nasri Shadjou, Ahad Mokhtarzadeh, Behzad Behnam: *Anti-bacterial activity of graphene oxide as a new weapon nanomaterial to combat multidrug- resistance bacteria*. Materials Science and Engineering C 01/2017; 74., DOI:10.1016/j.msec.2016.12.125
 33. E. Nemati, A. Azami, A. Mokhtarzadeh, Y. Rahbar Saadat, Y. Omid, J. Ezzati Nazhad Dolatabadi: *Formulation and characterization of ethambutol loaded nanostructured lipid carrier*.
 34. Jafar Mosafer, Khalil Abnous, Mohsen Tafaghodi, Ahad Mokhtarzadeh, Mohammad Ramezani: *In vitro and in vivo evaluation of anti-nucleolin-targeted magnetic PLGA nanoparticles loaded with doxorubicin as a theranostic agent for enhanced targeted cancer imaging and therapy*. European Journal of Pharmaceutics and Biopharmaceutics 12/2016; 113., DOI:10.1016/j.ejpb.2016.12.009
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 36. Ahad Mokhtarzadeh, Abbas Alibakhshi, Maryam Hashemi, Maryam Hejazi, Vahedeh Hosseini, Miguel de la Guardia, Mohammad Ramezani: *Biodegradable nano-polymers as delivery vehicles for therapeutic small non-coding ribonucleic acids*. Journal of Controlled Release 11/2016; 245., DOI:10.1016/j.jconrel.2016.11.017

37. Fatemeh Soltani, Mohammad Ramezani, Sara Amel Farzad, Ahad Mokhtarzadeh, Maryam Hashemi: *Comparison study of the effect of alkyl-modified and unmodified PAMAM and PPI dendrimers on solubility and antitumor activity of crocetin*. Artificial Cells 10/2016;, DOI:10.1080/21691401.2016.1236805
38. Mohammad Hasanzadeh, Ayub karimzadeh, Ahad Mokhtarzadeh, Nasrin Shadjou: *Magnetic Nanoparticles Embedded on Graphene Quantum dots: A New Platform towards Screening the Effect of Electroactive Amino Acids on Electrochemical Signals of Each other at Physiological pH*. Analytical and Bioanalytical Electrochemistry 09/2016; 8(6):790-802.
39. Ahad Mokhtarzadeh, Abbas Alibakhshi, Maryam Hejazi, Yadollah Omid, Jafar Ezzati Nazhad Dolatabadi: *Bacterial-derived biopolymers: advanced natural nanomaterials for drug delivery and tissue engineering*. TrAC Trends in Analytical Chemistry 09/2016; 82(9):367–384.
40. Paria Pashazadeh, Ahad Mokhtarzadeh, Mohammad Hasanzadeh, Maryam Hejazi, Maryam Hashemi, Miguel de la Guardia: *Recent Advances on materials and methods for sensing salmonella infections*. Biosensors & Bioelectronics 08/2016; 87., DOI:10.1016/j.bios.2016.08.012
41. Mohammad Hasanzadeh, Ayub Karimzadeh, Nasrin Shadjou, Ahad Mokhtarzadeh, Leyla Bageri, Sattar Sadeghi, Soltanali Mahbub: *Graphene quantum dots decorated with magnetic nanoparticles: Synthesis, electrodeposition, characterization and application as an electrochemical sensor towards determination of some amino acids at physiological pH*. Materials Science and Engineering C 07/2016; 68., DOI:10.1016/j.msec.2016.07.026
42. Zohreh Hafezi Ghahestani, Fatemeh Alebooye Langroodi, Ahad Mokhtarzadeh, Mohammad Ramezani, Maryam Hashemi: *Evaluation of anti-cancer activity of PLGA nanoparticles containing crocetin*. Artificial Cells 06/2016; 45(5), DOI:10.1080/21691401.2016.1198359
43. Ahad Mokhtarzadeh, Abbas Alibakhshi, Maryam Hejazi, Yadollah Omid, Jafar Ezzati Nazhad Dolatabadi: *Bacterial-derived biopolymers: Advanced natural nanomaterials for drug delivery and tissue engineering*. TrAC Trends in Analytical Chemistry 06/2016; 82., DOI:10.1016/j.trac.2016.06.013
44. Mohammad Hasanzadeh, Sattar Sadeghi, Leyla Bageri, Ahad Mokhtarzadeh, Ayub karimzadeh, Nasrin Shadjou, Soltanali Mahbub: *Poly-dopamine-Beta-cyclodextrin: A*

- novel nanobiopolymer towards sensing of some amino acids at physiological pH*. Materials Science and Engineering C 06/2016; 69., DOI:10.1016/j.msec.2016.06.081
45. Ahad Mokhtarzadeh, Maryam Tabar zad, Javad Ranjbari, Miguel de la Guardia, Maryam Hejazi, Mohammad Ramezani: *Aptamers as smart ligands for nano-carriers targeting*. TrAC Trends in Analytical Chemistry 06/2016; 82., DOI:10.1016/j.trac.2016.06.018
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 51. Sara Ayatollahi, Maryam Hashemi, Reza Kazemi Oskuee, Zahra Salmasi, Ahad Mokhtarzadeh, Mona Alibolandi, Khalil Abnous, Mohammad Ramezani: *Synthesis of efficient gene delivery systems by grafting pegylated alkylcarboxylate chains to PAMAM dendrimers: Evaluation of transfection efficiency and cytotoxicity in cancerous and mesenchymal stem cells*. Journal of Biomaterials Applications 08/2015; 30(5)., DOI:10.1177/0885328215599667

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56. Maryam Hashemi, Hamideh Parhiz, Ahad Mokhtarzadeh, Seyed Meghdad Tabatabai, Sara Amel Farzad, Haniyeh Rezagholizadeh Shirvan, Mohammad Ramezani: *Preparation of Effective and Safe Gene Carriers by Grafting Alkyl Chains to Generation 5 Polypropyleneimine*. AAPS PharmSciTech 01/2015; 16(5)., DOI:10.1208/s12249-015-0284-2
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59. Ahad Mokhtarzadeh, Majid Bouzari: *Detection of the Frequency of the Novel TT virus by PCR and Its Role in the Induction of Hepatic Injuries in Blood Donors in West Azerbaijan, Iran*.