

Curriculum Vitae (new)

Name	Dr. Ismaeil Haririan
Designation	Professor
Department	Department of Pharmaceutics, and Department of Pharmaceutical Biomaterials
Faculty	Faculty of Pharmacy, Tehran University of Med. Sci. (TMS), Tehran, Iran, P.O. Box: 14155-6451
Tel. No. (Office)	0098(21)66482607, Fax: 0098(21)66461178
E-mail Address	haririan@tums.ac.ir
Homepage	www.tums.ac.ir/faculties/haririan ; http://pharmacy.tums.ac.ir
TUMS	www.mbrc.tums.ac.ir
Address	https://orcid.org/0000-0003-4264-0084 Scopus Author ID: 23008588300



Biography

Mr. Ismail Haririan received his Ph.D. from Tabriz State University (Iran) in 1986 under the title of study on SAR (Structure-Activity Relationship) of Drug Molecules. He worked as a quality laboratory manager as well as research and development manager at Razak Pharmaceutical Company (Iran) and then as a head of the drug design research group at DaruPhakhsh Company (Iran). Between the years 1989-1994, he received his philosophy doctorate (Ph.D) in the field of solid mechanics from the School of Pharmacy in London and returned to his country in 1994, he joined Tehran Faculty of Pharmacy as an assistant professor. He was promoted to associate professor in 2000 and full professor in 2011. In 2016, he collaborated with a number of other faculty members of Tehran University to establish the Biomaterials

Research Center (BRC) and after some time, he established the Pharmaceutical Biomaterials Department in the Faculty of Pharmacy of Tehran University of Medical Sciences (TUMS), 2013. Apart from some important scientific works on new drug delivery systems and physicochemical studies on some polymer films, his attention was focused on biological materials and nanotechnology. In 2006, he collaborated with a number of other faculty members of the University of Tehran to establish the Biomaterials Research Center (BRC) and after some time, he established the Department of Pharmaceutical Biomaterials in the Faculty of Pharmacy of Tehran University of Medical Sciences (TUMS) at 2013. This allowed him to enter the new field of investigating cancer gene therapy and drug targeting by using biodegradable polymeric/non-polymeric drug carriers (biomaterials).

His efforts to educate and research of many Ph.D students led to the publication of more than 100 original articles and conference papers. He is the judge of several prestigious magazines in his field of expertise. He is the founder of the novel field of pharmaceutical biomaterials as a new field in the Faculty of Pharmacy of Tehran University of Medical Sciences (TUMS) and also the head of the research center of Medical Biomaterials Research Center (MBRC) in Tehran University of Medical Sciences. In his last effort, he cooperated in establishing the educational and research institute of biomaterials between the universities of Tehran (UT) and Tehran University of Medical Sciences (TUMS) named IBUTUMS for postgraduate studies and has been appointed as its director since 2015.

Research interests:

Pharmaceutics (Micro- Nano Drug Delivery)

Pharmaceutical Biomaterials, Tissue engineering

3D pharming & 3D-printing

Pharmaceutical Rheology

Microfluidic systems for pharmaceuticals

Education

1979 – 1985	Pharm.D.	Doctorate of Pharmacy Tabriz university, East Azarbayjan Iran
1988 – 1993	Ph.D.	Pharmaceutics (Supervisor: Professor J.M. Newton) London University, Brunswick Square, London, UK
12/2002– 08/2003	Postdoctoral research	Targeted drug delivery to colon. School of Pharmacy, University of London

Faculty Academic Appointments

22nd May 1994 -2001	Assistant Professor	Department of Pharmaceutics Tehran University of Medical Sciences, Tehran, Iran
6th Nov. 2001-2012	Associated Professor	Department of Pharmaceutics Tehran University of Medical Sciences, Tehran, Iran
5th Sept. 2012-continued	Professor (Full)	Department of Pharmaceutics Tehran University of Medical Sciences, Tehran, Iran

Report of Local Teaching and Training

Pharmaceutics (micro/nano)	PharmD and Ph.D students, School of Pharmacy, Tehran University of Medical Sciences
Industrial Internship	PharmD students, School of Pharmacy, Tehran University of Medical Sciences
Biomaterials (Biomaterials behavior)	Ph.D students of TUMS & UT
Physical Pharmacy	PharmD and Ph.D students , School of Pharmacy, Tehran University of Medical Sciences
Powder Technology	MSc students of Pharmaceutical Engineering, Tehran University (UT)

Publications:

- Biomaterials coated with zwitterionic polymer brush demonstrated significant resistance to bacterial adhesion and biofilm formation in comparison to brush coatings incorporated ...

Maryam Hassani, Mojtaba Kamankesh, Mazda Rad-Malekshahi, Kobra Rostamizadeh, Farhad Rezaee, **Ismaeil Haririan***, Seyed Mojtaba Daghighi; *Colloids and Surfaces B: Biointerfaces*; **2024**

- Fabrication of a Controlled-Release Core-Shell Floating Tablet of Ketamine Hydrochloride Using a 3D Printing Technique for Management of Refractory Depressions and Chronic Pain

Tahmineh Karami, Emad Ghobadi, Mohammad Akrami, **Ismaeil Haririan**; *Polymers*, **2024**

- Chondrogenic Potential of PMSCs Cultured on Chondroitin Sulfate/Gelatin-Modified DBM Scaffold

Fatemeh Haghwerdi, **Ismaeil Haririan***, Masoud Soleimani; *BioImpacts*, 2024

- Tablet of Ketamine Hydrochloride Using a 3D Printing Technique for Management of Refractory Depressions and Chronic Pain; Tahmineh Karami, Emad Ghobadi, Mohammad Akrami,* and Ismaeil Haririan; *Polymers* 2024, 16(6), 746; <https://doi.org/10.3390/polym16060746>

- Self-assembled peptide/polymer hybrid nanoplatfor for cancer immunostimulating therapies. *Drug Delivery and Translational Research*,

Saeedeh Khazaei^{1,2}, Ruben Varela-Calviño³, Mazda Rad-Malekshahi¹, Federico Quattrini², Safura Jokar⁴, Nima Rezaei⁵, Saeed Balalaie⁶, **Ismaeil Haririan** , Vol.:(**0123456789**)**1 3**, **Drug Delivery and Translational Research (2024) 14:455–473**; <https://doi.org/10.1007/s13346-023-01410-y>

- Future Nanotechnology-Based Strategies for Improved Management of Helicobacter pylori Infection. M. Kamankesh, A. Yadegar, A. Llopis-Lorente, C. Liu, **I. Haririan**, H. A. Aghdaei, M. A. Shokrgozar, M. R. Zali, A. H. Miri,* M. Rad-Malekshahi,* M. R. Hamblin,* M. G. Wacker* *Small*, **2023**

- An anti-inflammatory nanoghost for atherosclerosis therapy: a red blood cell based bio-mimetic strategy

Zahra Karami, Mohammad Akrami, Mehdi Esfandyari-Manesh, Ismaeil Haririan, Saeed Nateghi, <https://doi.org/10.21203/rs.3.rs-3288904/v1>, *Research Square*, **2023**

- Facile fabrication of an extended-release tablet of Ticagrelor using three-dimensional printing technology,

Sama Rastpeiman, Zahra Panahi, Mohammad Akrami*, **Ismaeil Haririan** and Maryam Asadi, *Journal of Biomedical Materials Research Part A*, Wiley, **2023**.

- An anti-inflammatory Glyburide-loaded nanoghost for atherosclerosis therapy: a red blood cell based bio-mimetic strategy, Zahra Karami, Mohammad Akrami*, Jalil Mehrzad, Mehdi Esfandyari-Manesh, **Ismaeil Haririan**, Saeed Nateghi. *Giant*:100206, **2023**.
- Additive manufacturing of an extended-release tablet of tacrolimus, Azin Abdollahi, Zahra Ansari, Mohammad Akrami*, **Ismaeil Haririan**, Simin Dashti-Khavidaki, Mohammad Irani, Mojtaba Kamankesh, Emad Ghobadi, *Materials*, 16(14),4927, **2023**.
- Microfluidic synthesis of zoledronic acid loaded chitosan nanoparticles used for osteogenic differentiation of mesenchymal cells, Maryam Khayati, Hamidreza Kheiri Manjili, Masoud Soleimani, Simzar Hosseinzadeh, Mohammad Akrami, **Ismaeil Haririan**, Seyed Hossein Ahmadi Tafti, *International Journal of Biological Macromolecules*, 234,123056, **2023**.
- Factors associated with treatment failure, and possible applications of probiotic bacteria in the arsenal against *Helicobacter pylori*, Amir Hossein Miri a, Mojtaba Kamankesh b, Mazda Rad-Malekshahi a, Abbas Yadegar c, Maryam Banar d, **Michael R. Hamblin e**, **Ismaeil Haririan a**, Hamid Asadzadeh Aghdaeif and Mohammad Reza Zalig, *EXPERT REVIEW OF ANTI-INFECTIVE THERAPY*, 21(6), pp. 617-639, **2023**
<https://doi.org/10.1080/14787210.2023.2203382>
- Design and Fabrication of a High Performance Microfluidic Chip for Blood Plasma Separation: Modelling and Prediction of System Behaviour via CFD Method, Hossein Amini, Amin Sokhansanj, Mohammad Akrami*, **Ismaeil Haririan***, *International journal of Analytical Chemistry*, Hindawi, **2023**.
- Nanomedicine "New Food for an Old Mouth": Novel Approaches for the Treatment of COVID-19, Drug Delivery Letters, S Handali, **I Haririan**, M Vaziri, FA Dorkoosh, *Drug Delivery Letters* 13 (2), 83-91, **2023**
- Targeting pathophysiological changes using biomaterials-based drug delivery systems: A key to managing inflammatory bowel disease. *Frontiers in Pharmacology*, Sahar Mohajeri, Saeed Moayedi, Shabnam Mohajeri, Abbas Yadegar, **Ismaeil Haririan***, 13,1045575, **2023**
- Nanoarchitectonics of doxycycline-loaded vitamin E–D- α -tocopheryl polyethylene glycol 1000 succinate micelles for ovarian cancer stem cell treatment, Hajikhani, Zoha; Haririan, **Ismaeil; Akrami**, Mohammad; Hajikhani, Saba, *Nanomedicine, Future Medicine*, **2023**.
- The Potential Use of Antibiotics Against *Helicobacter pylori* Infection: Biopharmaceutical Implications, Amir Hossein Miri, Mojtaba Kamankesh, **Antoni Llopis-Lorente**, **Chenguang Liu**, **Matthias G. Wacker**,

Ismaeil Haririan, Hamid Asadzadeh Aghdaei, **Michael R. Hamblin***, Abbas Yadegar*, Mazda Rad-Malekshahi* and Mohammad Reza Zali*

Frontiers in Pharmacology | June **2022**, Volume 13, 2351, Article 917184

- Nanobiosensor Based on Sugar Code-AuNPs Aggregation: A Key to Opening New Gates in Rapid Diagnosis of Streptococcal Pharyngitis, Sahar Mohajeri, Saeed Moayedi, Leila Azimi, Mohammad Akrami, Mazda Rad-Malekshahi, Mohammad Reza Fazeli, Fatemeh Fallah, **Ismaeil Haririan***, Frontiers in Bioengineering and Biotechnology, **2022**

- Biomedical applications of silkworm (*Bombyx Mori*) proteins in regenerative medicine (a narrative review). Journal of Tissue Engineering and Regenerative Medicine 16(2), pp. 91-109, **2022**

- An investigation into the polylactic acid texturization through thermomechanical processing and the improved d33 piezoelectric outcome of the fabricated scaffolds, Amirhossein Farahani, Abbas Zarei-Hanzaki, Hamid Reza Abedi, **Ismaeil Haririan**, Mohammad Akrami, Zeynab Aalipour, Lobat Tayebi, Journal of Materials Research and Technology, 15, **2021**, 6356-6366.

- Application of bone and cartilage extracellular matrices in articular cartilage regeneration. Biomedical Materials (Bristol), Fatemeh Haghwerdi¹, Mojtaba Khozaei Ravari², Leila Taghiyar², Mohammad Amin Shamekhi³, Shahrbano Jahangir², **Ismaeil Haririan⁴**, Mohamadreza Baghaban Eslaminejad² **Biomed Mater.** **2021 Jun 28;16(4)**. doi: **10.1088/1748-605X/ac094b**

- Chlorambucil and quantum dots co-loaded nanostructured lipid carrier for in vitro cytotoxicity and imaging evaluation. **Ameer S. Sahib***, M. Akrami, Shaima'a N. A. **Alhammid**, **Hussein A. Muhammed**, **I. Haririan**; International Journal of Drug Delivery Technology, 11(2), pp. 365-370, **2021**

- Mohammad Akrami et al, Potential anticancer activity of a new pro-apoptotic peptide-thioctic acid gold nanoparticle platform, Mohammad Akrami^{9,1}, Shabnam Samimi², Mohsen Alipour³, Hassan Bardania⁴, Sorour Ramezanpour⁵, Niayesh Najafi⁶, Saman Hosseinkhani⁷, Mojtaba Kamankesh⁸, Ismaeil Haririan^{1,2} and Fatemeh Hassanshahi, Nanotechnology, **2021**;32(14):145101.

Sugar codes conjugated alginate: An innovative platform to make a strategic breakthrough in simultaneous prophylaxis of gerd and helicobacter pylori infection. Saeed Moayedi, Abbas Yadegar, Saeed Balalaie , Mahdiyeh Yarmohammadi, Mohammad Reza Zali, Hidekazu Suzuki , **Gert Fricker**, **Ismaeil Haririan**; Drug Design, Development and Therapy, 14, pp. 2405-2412, **2020**

- Moghimi M, Motlagh GH, Sorouri F, **Haririan E**, Khoobi M. Cross-Linked Poly (acrylic acid) Hydrogel Loaded with Zinc Oxide Nanoparticles and Egg White Proteins for Antimicrobial

Application. Journal of Inorganic and Organometallic Polymers and Materials. **2020** Dec;30(12):5234-43.

- Cross-Linked Poly (acrylic acid) Hydrogel Loaded with Zinc Oxide Nanoparticles and Egg White Proteins for Antimicrobial Application. Mehdi Khoobi, Morvarid Moghimi, Ghodrattollah Heashemi Motlag, Farzaneh Sorouri, **Esmael Haririan**; , DOI:10.1007/s10904-020-01619-1 **2020** | Journal of Inorganic and Organometallic Polymers and Materials

- Optimization of electrospinning parameters for producing silk fibroin/poly(ethylene oxide) nanofibers using D-optimal method. Journal of Natural Fibers, 16(8), pp. 1113-11, **2019**

- 3-Aryl Coumarin Derivatives Bearing Aminoalkoxy Moiety as Multi-Target-Directed Ligands against Alzheimer's Disease. Chemistry and Biodiversity, 16(5), e1800436, **2019**

- A coherent rhythm from basic sciences of medicine, pharmacy and engineering, Journal of Medicine and Cultivation, Ministry of Health and Medical Education (MOHME), Hamid Akbari Javar Saeed Moayedi, Seyed Nasser Ostad, Mehdi Khoobi, Mohammad Akrami, Mazda Rad-Malekshahi, **Ismaeil Haririan**, Deputy of Education, 58-66. **2019**.

- Protein corona variation in nanoparticles revisited: A dynamic grouping strategy Colloids and Surfaces B: Biointerfaces, **2019** | Biointerfaces, GhassemRezaeiab Seyed MojtabaDaghighic **Ismael Haririan** and ImanYousefie MohammadRaoufib FarhadRezaeefg RassoulDinarvandbh DOI: 10.1016/j.colsurfb.2019.04.003, EID: 2-s2.0-85064390114

- Synthesis and biological evaluation of new N-benzylpyridinium-based benzoheterocycles as potential anti-Alzheimer's agents Bioorganic Chemistry., **2019** | Bioorganic Chemistry DOI: 10.1016/j.bioorg.2018.11.010, EID: 2-s2.0-85056896479

- Controlled release of Naltrexone using three layered drug-loaded PVA/PLA nanofibrous scaffolds, **2018** | Journal of Advanced Chemical and Pharmaceutical Materials Efficacy and safety of micro/nanostructured polymeric coatings for drug eluting stents Vol. 4 No. 3 (**2018**): Summer 2018 | J Contemp Med Sci.

- Fabrication and characterization of electrospun laminin-functionalized silk fibroin/poly (ethylene oxide) nanofibrous scaffolds for peripheral nerve regeneration DOI: 10.1002/jbm.b.33968, **2018** | Journal of Biomedical Materials Research - Part B Applied Biomaterials

- Comparative study of different polymeric coatings for the next-generation magnesium-based biodegradable stents Artificial Cells, Nanomedicine and Biotechnology, **2018** | Journal of Artificial Cells, Nanomedicine, and Biotechnology, DOI: 10.1080/21691401.2017.1369424

EID: 2-s2.0-85028557419

- Continuous nanoparticles production through a combination of a micro electro mechanical system and an electromagnetic resonator cavity.

2018 | Particulate Science and Technology

DOI: 10.1080/02726351.2017.1287796

EID: 2-s2.0-85015666861

- Curcumin-lipoic acid conjugate as a promising anticancer agent on the surface of gold-iron oxide nanocomposites: A pH-sensitive targeted drug delivery system for brain cancer theranostics
European Journal of Pharmaceutical Sciences

2018 | European Journal of Pharmaceutical Sciences

DOI: 10.1016/j.ejps.2017.12.008, EID: 2-s2.0-85038405925

- Electrospun biocompatible poly (ϵ -caprolactonediol)-based polyurethane core/shell nanofibrous scaffold for controlled release of temozolomide.

2018 | International Journal of Polymeric Materials and Polymeric Biomaterials

DOI: 10.1080/00914037.2017.1331350, EID: 2-s2.0-85033407317

- Glutathione conjugated polyethylenimine on the surface of Fe₃O₄ magnetic nanoparticles as a theranostic agent for targeted and controlled curcumin delivery

2018 | Journal of Biomaterials Science, Polymer Edition

DOI: 10.1080/09205063.2018.1427013, EID: 2-s2.0-85042229120

- A novel biocompatible drug delivery system of chitosan/temozolomide nanoparticles loaded PCL-PU nanofibers for sustained delivery of temozolomide

2017 | International Journal of Biological Macromolecules

DOI: 10.1016/j.ijbiomac.2017.01.073, EID: 2-s2.0-85010376109

- An investigation of electrospun Henna leaves extract-loaded chitosan based nanofibrous mats for skin tissue engineering

2017 | Materials Science and Engineering C

DOI: 10.1016/j.msec.2017.02.076, EID: 2-s2.0-85013661368

- Curcumin-loaded nanoliposomes linked to homing peptides for integrin targeting and neuropilin-1- mediated internalization

2017 | Pharmaceutical Biology

DOI: 10.1080/13880209.2016.1261301, EID: 2-s2.0-85015107100

- Efficient multicomponent synthesis of 1,2,3-triazoles catalyzed by Cu(II) supported on PEI-Fe₃O₄ MNPs in a water/PEG300 system

2017 | Turkish Journal of Chemistry, DOI: 10.3906/kim-1607-40, EID: 2-s2.0-85019648376

- Gold coated poly (ϵ -caprolactonediol) based polyurethane nanofibers for controlled release of temozolomide

2017 | Biomedicine and Pharmacotherapy

DOI: 10.1016/j.biopha.2017.01.097, EID: 2-s2.0-85010894604

- Synthesis of novel benzimidazole and benzothiazole derivatives bearing a 1,2,3-triazole ring system and their acetylcholinesterase inhibitory activity

2017 | Journal of Chemical Research

DOI: 10.3184/174751917X14836231670980, EID: 2-s2.0-85011827045

- The sustained delivery of Temozolomide from electrospun PCL-Diol-b-PU/gold nanocomposite nanofibers to treat glioblastoma tumors

2017 | Materials Science and Engineering C

DOI: 10.1016/j.msec.2017.02.029, EID: 2-s2.0-85012994475

- Synthesis and structure-activity relationship study of tacrine-based pyrano[2,3-c]pyrazoles targeting AChE/BuChE and 15-LOX European

2016 | Journal of Medicinal Chemistry

DOI: 10.1016/j.ejmech.2016.07.043, EID: 2-s2.0-84979759160

- Mohammad Akrami et al. Tuning the anticancer activity of a novel pro-apoptotic peptide using gold nanoparticle platforms. Sci. Rep. 6, 31030; doi: 10.1038/srep31030 (**2016**).

- Comparison of adsorption and photo-Fenton processes for phenol and paracetamol removing from aqueous solutions: Single and binary systems

2015 | Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy

DOI: 10.1016/j.saa.2014.09.052, EID: 2-s2.0-84911933956

- Comparison study of phenol degradation using cobalt ferrite nanoparticles synthesized by hydrothermal and microwave methods

2015 | Desalination and Water Treatment

DOI: 10.1080/19443994.2014.977960, EID: 2-s2.0-84946500809

- Development of carrier free montelukast dry powder inhalation formulation

2015 | Pharmazeutische Industrie, EID: 2-s2.0-84946599994

- Removal of Cu²⁺, Pb²⁺ and Cr⁶⁺ from aqueous solutions using a chitosan/graphene oxide composite nanofibrous adsorbent

2015 | RSC Advances, DOI: 10.1039/c5ra90015h, EID: 2-s2.0-84930000399

- Evaluation of multilayer coated magnetic nanoparticles as biocompatible curcumin delivery platforms for breast cancer treatment

2015 | RSC Advances, DOI: 10.1039/c5ra13838h, EID: 2-s2.0-84945256976

- Fabrication of PEO/chitosan/PCL/olive oil nanofibrous scaffolds for wound dressing applications
Fibers and Polymers

2015 | Fibers and Polymers, DOI: 10.1007/s12221-015-1201-8, ID: 2-s2.0-84937404759

- Fabrication of PLA/PEG/MWCNT electrospun nanofibrous scaffolds for anticancer drug delivery
2015 | Journal of Applied Polymer Science

DOI: 10.1002/app.41286, EID: 2-s2.0-85027928661

- Optimization of the combined adsorption/photo-Fenton method for the simultaneous removal of phenol and paracetamol in a binary system

2015 | Microporous and Mesoporous Materials

DOI: 10.1016/j.micromeso.2014.12.009, EID: 2-s2.0-84926172233

- Scientific evaluation of medicinal plants used for the treatment of abnormal uterine bleeding by Avicenna

2015 | Archives of Gynecology and Obstetrics

DOI: 10.1007/s00404-015-3629-x, EID: 2-s2.0-84939934819

- Simultaneous degradation of phenol and paracetamol during photo-Fenton process: Design and optimization

2015 | Journal of the Taiwan Institute of Chemical Engineers

DOI: 10.1016/j.jtice.2014.10.014, EID: 2-s2.0-84922355491

- Comparison of chitosan, alginate and chitosan/alginate nanoparticles with respect to their size, stability, toxicity and transfection. , **2014** | Asian Pacific Journal of Tropical Disease

DOI: 10.1016/S2222-1808(14)60590-9, EID: 2-s2.0-84899506383

- Control of super elastic behavior of NiTi wires aided by thermomechanical treatment with reference to three-point bending

2014 | Journal of Materials Engineering and Performance

DOI: 10.1007/s11665-014-0901-3, EID: 2-s2.0-84898788895

- Interaction, controlled release, and antitumor activity of doxorubicin hydrochloride from pH-sensitive P(NIPAAm-MAA-VP) nanofibrous scaffolds prepared by green electrospinning
International

2014 | Journal of Polymeric Materials and Polymeric Biomaterials

DOI: 10.1080/00914037.2013.854234, EID: 2-s2.0-84899866016

- The effects of technical and compositional variables on the size and release profile of bovine serum albumin from PLGA based particulate systems

2014 | Research in Pharmaceutical Sciences, EID: 2-s2.0-84907469268

- Effect of bovine colostrum on open wound healing in guinea pigs

RJMS 2014, 21(125): 66-74

2014 | Razi Journal of Medical Sciences Iran University of Medical Sciences

- Cell-surface glycosaminoglycans inhibit intranuclear uptake but promote post-nuclear processes of polyamidoamine dendrimer-pDNA transfection

2013 | European Journal of Pharmaceutical Sciences

DOI: 10.1016/j.ejps.2012.10.016, EID: 2-s2.0-84869887902

- Evaluation of cationic dendrimer and lipid as transfection reagents of short RNAs for stem cell modification

2013 | International Journal of Pharmaceutics

DOI: 10.1016/j.ijpharm.2013.03.035, EID: 2-s2.0-84875919492

- Evaluation of melt rheology of lactose-filled polyethylene glycol composites by means of capillary rheometry

2013 | Pharmaceutical Development and Technology

DOI: 10.3109/10837450.2011.640685, EID: 2-s2.0-84870903202

- Rheological evaluation of wet masses for the preparation of pharmaceutical pellets by capillary and rotational rheometers

2013 | Pharmaceutical Development and Technology

DOI: 10.3109/10837450.2011.640687, EID: 2-s2.0-84870943152

- Stimuli-responsive nanofibers prepared from poly(N-isopropylacrylamide- acrylamide- vinylpyrrolidone) by electrospinning as an anticancer drug delivery

2013 | Designed Monomers and Polymers

DOI: 10.1080/15685551.2013.771303, EID: 2-s2.0-84878061701

- Poly (amidoamine) dendrimer silences the expression of epidermal growth factor receptor and p53 gene in vitro

2012 | African Journal of Pharmacy and Pharmacology, Vol. 6(8), pp. 530-537, 29 February, 2012

- Ciprofloxacin Loaded Alginate/Chitosan and Solid Lipid Nanoparticles, Preparation, and Characterization

2012 | Journal of Dispersion Science and Technology

DOI: 10.1080/01932691.2011.579831, EID: 2-s2.0-84860912916

- Mechanical influence of static versus dynamic loadings on parametrical analysis of plasticized ethyl cellulose films

DOI: 10.1016/j.ijpharm.2010.11.031

2011 | International Journal of Pharmaceutics, Volume 408, Issues 1–2, 15 April 2011, Pages 1-8

- Characterization of chitosan/alginate self-assembled nanoparticles as a protein carrier

2011 | Journal of Dispersion Science and Technology

DOI: 10.1080/01932691003757314, EID: 2-s2.0-79953178643

- Entrapment of 5-fluorouracil into PLGA matrices using supercritical anti solvent processes

2011 | Journal of Pharmacy and Pharmacology

DOI: 10.1111/j.2042-7158.2010.01249.x, EID: 2-s2.0-79952726161

- A Comparative Study Between the Antibacterial Effect of Nisin and Nisin-Loaded Chitosan/Alginate Nanoparticles on the Growth of Staphylococcus aureus in Raw and Pasteurized Milk Samples

2010 | Probiotics and Antimicrobial Proteins

DOI: 10.1007/s12602-010-9047-2, EID: 2-s2.0-78449237437

- Anionic linear-globular dendrimer-cis-platinum (II) conjugates promote cytotoxicity in vitro against different cancer cell lines

2010 | International Journal of Nanomedicine

EID: 2-s2.0-77951168942

- Anionic linear-globular dendrimers: Biocompatible hybrid materials with potential uses in nanomedicine

2010 | Journal of Materials Science: Materials in Medicine

DOI: 10.1007/s10856-009-3978-8, EID: 2-s2.0-77951254308

- Inhibition of EGFR expression with chitosan/alginate nanoparticles encapsulating antisense oligonucleotides in T47D cell line using RT-PCR and immunocytochemistry

2010 | Carbohydrate Polymers

DOI: 10.1016/j.carbpol.2010.01.022, EID: 2-s2.0-77950368148

- Physicochemical properties and cell culture activity of self-assembled antisense/poly (amido amine) dendrimer nanoparticles: the effect of dendrimer generation and charge ratio

2010 | International Journal of Nanomedicine, DOI: 10.2147/ijn.s9070

- Preparation of 5-fluorouracil nanoparticles by supercritical anti solvents for pulmonary delivery

2010 | International Journal of Nanomedicine

DOI: 10.2147/IJN.S12415, EID: 2-s2.0-79952116605

- Release profile and stability evaluation of optimized chitosan/alginate nanoparticles as EGFR antisense vector

2010 | International Journal of Nanomedicine, EID: 2-s2.0-79952115945

- Solubilities of flutamide, dutasteride, and finasteride as antiandrogenic agents, in supercritical carbon dioxide: Measurement and correlation

2010 | Journal of Chemical and Engineering Data

DOI: 10.1021/je900520a., EID: 2-s2.0-77249170254

- Chitosan/alginate nanoparticles for bactericidal protein delivery in food

DOI:10.1016/j.jbiotec.2010.09.244, **2010** | Journal of Biotechnology

- Cellular Delivery of Nanostructured Poly (amido amine) Dendrimers and Establishment of a Simple Methodology upon Ninhydrin Reaction

<https://www.researchgate.net/publication/228501805>

2010 | Iranian Journal of Pharmaceutical Sciences

- A Comparative Study Between the Antibacterial Effect of Nisin and Nisin-Loaded Chitosan/Alginate Nanoparticles on the Growth of Staphylococcus aureus in Raw and Pasteurized Milk Samples.

DOI: 10.1007/s12602-010-9047-2, **2010** | Probiotics & Antimicro. Prot.

- Assessment of Bond Strength between Metal Brackets and Non-Glazed Ceramic in Different Surface Treatment Methods

PMCID: PMC3184746

PMID: 21998777

2010 | Journal of Dentistry, Tehran University of Medical Sciences

- Evaluation of Alginate/Chitosan nanoparticles as antisense delivery vector: Formulation, optimization and in vitro characterization

2009 | Carbohydrate Polymers

DOI: 10.1016/j.carbpol.2009.02.019, EID: 2-s2.0-67349253077

- Synthesis and characterization of gold nanocomposites with modified and intact polyamidoamine dendrimers

2009 | Microchimica Acta

DOI: 10.1007/s00604-009-0156-0, EID: 2-s2.0-67349204008

- Nanoparticles of 5-FU for inhalation precipitated by supercritical carbon dioxide

PMCID: PMC2962272

PMID: 21042422

2009 | Respiratory Drug Delivery Europe 2009 – Vatanara et al.

- Incorporation of Ibuprofen into SBA-15; Drug loading and Release properties, Dynamic Biochemistry, Dynamic biochemistry; **2009** | Process Biothechnology and Molecular Biology

- The mechanical and thermal behaviors of heat-treated Ni-Rich NiTi orthodontic archwires

2009 | Journal of Materials Engineering and Performance

DOI: 10.1007/s11665-009-9489-4, EID: 2-s2.0-6765116030

- Effect of Fast Curing Lights, Argon Laser, and Plasma Arc on Bond Strengths of Orthodontic Brackets: An in Vitro Study,

2008 | Journal of Dentistry, Tehran University of Medical Sciences

- Physico-mechanical analysis of free ethyl cellulose films comprised with novel plasticizers of vitamin resources

2008 | International Journal of Pharmaceutics

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- A stability-indicating high performance liquid chromatographic assay for the determination of Orlistat in capsules

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2001 | Indian Journal of Pharmaceutical Sciences, 63(1)24-29
EID: 2-s2.0-1842634762
- Determination of mechanical strength of different material double-layer rectangular tablets
2000 | Daru
EID: 2-s2.0-52849131481
- The determination of the mechanical properties of elongated tablets of varying cross section
2000 | European Journal of Pharmaceutics and Biopharmaceutics
DOI: 10.1016/S0939-6411(99)00065-X, EID: 2-s2.0-0033987315
- The influence of punch curvature on the mechanical properties of compacted powders
2000 | Powder Technology
DOI: 10.1016/S0032-5910(99)00173-4, EID: 2-s2.0-0033985975
- An Investigation into the formulation and in-vitro evaluation of Clozapine tablet
2000 | Journal of Pharmacy and Pharmacology
- Determination of mechanical strength of same material double-layer rectangular tablets
DARU JOURNAL OF PHARMACEUTICAL SCIENCE 2000 , Volume 8 , Number 1-2;
2000 | DARU Page(s) 22 To 27,
- A Controlled release matrix tablet using hydrophilic and hydrophobic polymers
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2000 | Iranian Journal of Basic Medical Sciences
- Tensile strength of circular flat and convex-faced Avicel PH102 tablets
DARU: Journal of Pharmaceutical Sciences, Volume 7, Number 3
1999 | DARU

SUPERVISION

Post Graduate Level

(Name of Degree), (Name of Candidates), (Title of Thesis), (Academic Session)

Post Doctoral

Dr. S. Mojtaba Daghighi, I. Haririan, since 2014

Synthesis of functionalized graphene oxide nanosheets decorated with TiO₂ nanoparticles as an antibacterial coating for implants-associated infection prevention and synthesis of electrical cell-substrate impedance sensing (ECIS) based biosensor for evaluation of antimicrobial efficacy of graphene oxide nanosheets.

Ph.D Degree

- Ph.D Degree, Maryam Khayati, Microfluidics synthesized nanoparticles as Zoledronic Acid delivery carrier for osteogenic differentiation of mesenchymal stem cells
- Ph.D Degree, Fatemeh Haghverdi, Design and preparation of novel DBM-based scaffolds for Cartilage Tissue Repair and Regeneration
- Ph.D Degree, Sahar Mohajeri, Preparation and characterization of nanobiosensor to detect the M1 streptococcus pyogenes
- Ph.D Degree, Mohammad Akrami, Preparation and characterization of oligonucleotide-Peptide functionalized gold nanorods for breast cancer cell therapy
- Ph.D Degree, Sogul Kangarlou, synthesis of a protein transduction domain and its combination with curcumin as a biological carrier for increased cell penetration and cytotoxicity in cancer cells
- Ph.D Degree, Mostafa Rahvar, preparation and characterization of new generation of coating based on drug containing nanocomposite on the surface of coronary stent to improve its drug release and mechanical properties
- Ph.D Degree, Saeed Moayedi, Surface modification of sodium alginate based on a novel concept in order to prepare new generation of Gaviscon: A breakthrough in the management of Helicobacter pylori infection
- Ph.D Degree, Fatemeh Hasanshahi, Preparation and Characterization of avidin based pH sensitive conjugate for sustained release of salinomycin to inhibit breast cancer cell proliferation
- Ph.D Degree, Gholamreza Ahmadi, Mechanical and corrosion properties optimization of magnesium alloy WE43 and coating with drug containing PLGA nanoparticles for absorbable drug eluting cardiovascular stent application
- Doctoral degree (Ph.D), Behzad Taghipour, A study to develop a safe and effective sustained release formulation of recombinant growth hormone using composite microparticles of PLGA.
- Ph.D Degree, Taraneh Gazori, Preparation and in-vitro evaluation of biodegradable nanopolymer vectors containing EGFR antisense for cancer gene therapy, 2006- 2010
- Ph.D Degree, Alireza Nomani, Synthesis and evaluation of polymeric vector containing oligonucleotide for cancer gene delivery, 2005-2010,
- Ph.D Degree, Mohammad Shafiee Alavidjeh, Preparation & in-vitro biocompatibility evaluation of Linear-globular dendritic polymers as new carriers for cisplatin, 2006-2011,
- Ph.D Degree, Pardis Kalantarian, Particle engineering of model polymeric-anti cancer systems using supercritical fluid technology, 2007-2011
- Ph.D Degree, ZarrinTaj ZirzkSaz, Designing and comparing two nanocarriers for efficient siRNA delivery to the embryonic Stem Cells in culture, 2009-2012

- Ph.D Degree, Zohreh Eftekhari, Extraction and evaluation of Calf and Cattle lung surfactant (for treatment of neonatal respiratory distress syndrome), 2009-2013
 - Ph.D Degree, Masoumeh Mobli, Traditional Medicine, Formulation and Standardization of syrup from fruit of Myrtus communis L. for treatment of hypermenorrhea
 - Ph.D Degree, Farnoush Haghighi, Design and preparation of mesoporous carrier for Itraconazole delivery and study of its in vitro/in vivo characteristics
 - Ph.D Degree, Amir Sabah Sahib Al-Jibawi, Preparing Chlorambucil anticancer as a liquid nanoparticles with active targeting by using Folic Acid and studying its targeting effect after injecting on rats and formula trafficking by using Quantum Dots (CdSe/ZnS) inside the nanoparticles.
 - Ph.D Degree, Hossein Abdolamir Mohammad, Intravehicular Tacrolimus Lipid Polymer hybrid Nanoparticle for bladder pain syndrome.
 - Ph.D Degree, Mohamad Akrami. Photothermal therapy study of brain cancer cells through targeting peptide conjugated gold nanorods
 - Ph.D Degree, Maryam Yaghchali., Sustained release formulation of PLGA nanoparticles containing growth hormone by double emulsion technique
 - Ph.D Degree, Osamah Neamah Wennas, Design, synthesize and evaluation of cellulose nanowiskers as a drug delivery system for targeted cancer therapy
 - Ph.D Degree, Saeideh Khazaeii, Design, preparation and in vivo study of vaccine cancer against Non-small cell lung cancer (NSCLC) based on self-assembling peptide nanoparticles
 - Ph.D Degree, Maryam Hasani, Zwitterionic polymer brush coating decorated with Vancomycin to prevent catheter associated-infections
-
- Pharm.D degree, Maniya Habibi, Preparation of nanofibers composed of anti-addiction drugs by electrospinning.
 - Pharm.D Degree, Zoha Hajikhani, Preparation and characterization of ionizable anti-PDL1 peptide targeted lipid nanoparticles containing poly metformin and DNA repair enzyme siRNA for colorectal cancer cell
 - Pharm.D degree, Neda Habibi sarawi, Release study of Nicotine and stradiol from polymeric nanofiber electrospun scaffolds
 - Pharm.D degree, Pouya Faramarzi, formulation and evaluation of Montelokast dry powder inhaler
 - Pharm.D degree, Golnoush Zamanian, design and evaluation of dental electrspun nonofibers composed of metronidazole
 - Pharm.D. Degree, Maryam alinejad, Formulation and in-vitro evaluation of SR Theophylline pellets prepared by extrusion-spheronization process, 2003
 - Pharm.D. Degree, Amir asadollah Mehrabani-tabari, Synthesis and evaluation of nano-pegilate PAMAM dendrimers, 2010

- Pharm.D. Degree, saeid Huj aghayee, Determination and comprehensive study of two dental cements of (GI , ZPh), 2005
- Pharm.D. Degree, Ali Khosrawi, Herbal tablet preparation from extracted Chamomile for Irritable bowel syndrome (IBS) treatment, 2010
- Pharm.D. Degree, Mohsen Hoseini Ahmadabadi , Herbal pellet preparation from extracted Chamomile for Irritable bowel syndrome (IBS) treatment, 2010
- Pharm.D. Degree, sara allahyari, Formulation of a coated pellet using extracted Peppermint Pepperoni for irritable bowel syndrome (IBS) treatment, 2008
- Pharm.D. Degree, hutan ebrahimi Luyeh, Synthesis and Follic acid bio-conjugation of cationic dendrimers, 2009
- Pharm.D. Degree, Mohammad Shafiee alavijeh, applying various capillary and cone & plate rheometers for study of an oral suspension, 2003
- Pharm.D. Degree, maryam safizadeh, Formulation of Galega officinalis L. from its aqueous extracted spray-dried powder as a coated tablet., 2006
- Pharm.D. Degree, Qweis Badri, Biopharmaceutical evaluation (BSC) of Metformin 500 mg tablet., 2005
- Pharm.D. Degree, Sogol Kangarlou, Physico-mechanical analysis of free ethyl cellulose films comprised with novel plasticizers of vitamin resources., 2008
- Pharm.D. Degree, somayeh Teimouri, Design and in-vitro evaluation of pellets composed of Folic acid and Ferrous sulfate, 2006
- Pharm.D. Degree, Leila Quiasi, Preparation and in-vitro nevaluation of Orlistat pellets, 2006
- Pharm.D. Degree, Tahereh Pazdar, The Use of liquid Redispersed Eudragits in the formulation of Gastroprotected Omeprazole Pellets by Extrusion/Spheronization process, 2007
- Pharm.D. Degree, qasem rezaeie, Formulation of Sillimarine tablet from extracted silybum marianum., 2002
- Pharm.D. Degree, Anahita Dadollahi, Comprative micromeretics study of powder Dicalcium phosphate, 2001
- Pharm.D. Degree, Masumeh Farahani, Comprative miromeretics study of two sources of Microcrystalline Cellulose and Maze starch, 2000
- Pharm.D. Degree, Akram salehZadeh Qamsari, Preparation of Nifedipine SR pellets by layering process
- Pharm.D. Degree, Shekouhosadat Mousavi, creating continuous improvement in tablet pruding line through implementing the method of Statistical Process Control (SPC), 2001
- Pharm.D. Degree, Minireh Jalalipour, Formulation and in-vitro evaluation of SR Diclophenac Na pellets by extrusion/spheronization thechnique., 2005
- Pharm.D. Degree, Zohreh Abdolrashidi, manufacturing and Optimization of matrix ketoprofen SR pellet with extrusion/ spheronization method and design of experiment, 2012
- Pharm.D. Degree, Elaheh Karimpour Razkanari, Release profile styudy of Mezalamin colonic pellets prepared by extrusion/ spheronization method using DOE, 2013

- Pharm.D. Degree, Hamed Mansouri, Optimization of enteric coated Omeprazole pellets by DOE (design of experiments), 2012
- Pharm.D. Degree, Hamideh Parvizi, Optimization of SR Mebeverin pellets by DOE, 2013
- Pharm.D. Degree, Effat Dawoudi, Optimization of Saccharomyces boulardii production in a low-cost media and its effects on the viability of the strain after spray drying, 2013
- Pharm.D. Degree, Maryam Yakhchali, Sustained release formulation of PLGA nanoparticles containing growth hormone by double emulsion technique, 2013
- Pharm.D. Degree, Pouya Faramarzi, Formulation and characterization of montelukast spray dried microparticles for inhalation drug delivery, 2014
- Pharm.D. Degree, Mahboobeh Etaat, Preparation and characterization of multilayered controlled released topical patch containing tetracycline with electrospinning, 2014
- Pharm.D. Degree, Azin Abdollahi, Formulation and characterization of extended-release Tacrolimus tablet by 3D printing technique

- Masters Degree, Hosein Amini, Design and Fabrication of High-Performance Microfluidic Chip for Blood Plasma Separation: Modelling and Prediction System Behaviour via CFD Method
- Masters Degree, Amaneh Zarghami., Preparation of nanofibers using olive oil for skin wound dressing
- Masters Degree, Iman Yousefi., Fabricatin and evaluatin of mechanical properties for nanofiber composite scaffold by using biodegradable polymer for tissue engineering applications, 2013
- Masters Degree, Zahra Jahanshahi, Preparation of electrosun polymeric nanofiber composed of Tretinoin, 2013
- Masters Degree, Arash Afshar, Evaluation of pharmaceutically viscoelastic materials in designated Hot-melt extruder, 2006
- Masters Degree, Mahboubeh Asghari, Disgning and optimization of drying process in production of pharmaceutical Magnesium Stearate, 2007
- Masters Degree, Mastoufi faremeh, Hydrodynamic study of pharmaceutical powders in fluidized powders, 2010
- Masters Degree, Panahi rezwan, Production of metatic oxide nanoparticles using Ultrasonic atomizer, 2011
- Masters Degree, Bahareh MadadKhah Salmasi, Application of bioreactor membranes in pharmaceutical wastewater treatment, 2007
- Masters Degree, Ahmad Khayer dastjerdi, design and production of single step press to be mounted to Universal Test machine, 2006
- Masters Degree, Shabnam Majidi Salehi, Study of rheological properties in pharmaceutical pellets prepared by wet extrusion prococess, 2010
- Masters Degree, Bahareh Bahramian, Study of rheological properties excipients used in pharmaceutical pellets prepared by Hot-melt extrusion process, 2010

- Masters Degree, Maryam Zohri, Inhibition of staphylococcus aureus growth in raw and pasteurized milk by addition of Nisin nanoparticles, 2010
- Masters Degree, Leila rowshanfekr, advanced oxidation process based on photo-Fenton process to be used to degrade the phenol and paracetamol from pharmaceutical wastewater, 2013
- Masters Degree, Ali Abdi Jahanghir, Synthesis and Evaluation of magnetic nanoparticles based on hydrophobic silica as a pharmaceutical excipients, 2008
- Masters Degree, Amaneh zarghami, olive oil loaded PCL(core)/POE-Chitosan (shell) electrspun nanofiber scaffolds for wound dressing applications, 2012
- Masters Degree, Reza Karimi, Design of Potentiometry Biosensor for WASTE WATER modification, 2013
- Masters Degree, Seyed Masih Adyani, Modeling and Kinetics study in Microwave Vacuum-Assisted Drying process of pharmaceutical pellets and Determining of effective diffusivity coefficient and characterization of dried pellets, 2014
- Masters Degree, Mina Rajabi, Study of silk electrospun consisting schwann cells for peripheral nerve system healing scaffolds
- Masters Degree. Morvarid Moghimi, antimicrobial properties of polymer compounds containing ZnO/Graphene
- Masters Degree, Ali Esmacili, Feasibility study and development of Glucose biosensor based on Polyaniline nanofiber
- Masters Degree, Fatemeh Amirzadeh, Evaluating the inhibiting role of chitosan/poly vinyl alcohol/ carbon nanotube scaffold nanofiber in candida biofilm formation
- Masters Degree, Pooya Faramarzi, **Formulation and evaluation of dry powder inhaler of Montelukast**

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Ongoing

Postgraduate

- Ph.D Degree, Zoha Hajikhani, Preparation and characterization of ionizable anti-PDL1peptide targeted lipid nanoparticles containing poly metformin and DNA repair enzyme siRNA for colorectal cancer cell
- Ph.D Degree, Bahareh Sadri, The impact of ECM-enrichment with Adiponectin to attenuate fibrogenic features in 3D microtissues
- Ph.D Degree, Esmat Sadjadi, 99mTc Radiolabeling single-chain variable fragment(scFv) anti tau for diagnosis of traumatic brain injury(TBI)

- Ph.D Degree, Razieh Sohrabi, Evaluation of antiviral effects of combined scaffold based collagen / GI-20 peptide nanoparticles in rabbit herpes simplex virus epithelial keratitis model
- Ph.D Degree, Tahereh Saveii, Surface display of receptor binding domain (RBD) of SARS-CoV-2 spike protein in yeast
- Ph.D Degree, Amir Hosein Miri, Preparation and evaluation of clarithromycin loaded targeted Self Nano-Emulsifying Drug Delivery System (SNEDD) for drug delivery to the epithelial cells of stomach in H.Pylori infection.
- Ph.D Degree, Mahdieh Bahrami, Preparation and evaluation of injectable hydrogel PLGA - PEG - PLGA / RFE loaded with kartogenin for repair and regeneration of cartilage tissue
- Ph.D Degree, , Fatemeh Amirzadeh, Study of Tamoxifen antifungal activity alone and in combination with some other antifungal agents on resistant Candida species isolated from clinical specimens using microfluidic systems
- Ph.D Degree, Fatemeh Hasanshahi, Preparation and Characterization of avidin based pH sensitive conjugate for sustained release of salinomycin to inhibit breast cancer cell proliferation