

Hamed Morad

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Address: Kazem Besarati St., Kabiri Tameh Ave., Shahid Hemmat Expy, School of Pharmacy, Iran University of Medical Sciences, Tehran, Iran.

Academic Rank Group

Assistant Professor

Pharmaceutics and Pharmaceutical Nanotechnology

EDUCATION

Pharm.D.

MAZUMS, Iran

Year

2007 – 2013

Research Expert

Pharmaceutical Research Center, Mazandaran, Iran

2013 – 2015

Compact research training courses

UMCG, Netherlands

2014

PhD in Pharmaceutical Nanotechnology

MAZUMS, Iran

2016 – 2020

SKILLS

Pharmacist:

Educational Pharmacy, Alzahra and Montazeri Pharmacies, Isfahan, Iran, 2006-2007

General Pharmacist, Shahid Beheshti University of Medical Sciences, 2009-2013

Supervisor, Drug and Poisoning information center, Tehran, Iran, 2014

Vice-Chancellor, Food and Drug Administration, Tehran, Iran

Manager, EDO, School of Pharmacy, Iran University of Medical Sciences, Tehran, Iran 2015-2017

Manager, EDO, Shohadaye 7-Tir, Iran University of Medical Sciences, Tehran, Iran 2015 till now

Language Skills:

- Persian
- English
- Spanish

PRESENTATIONS

Reviewer of international journals

- Journal of nanoparticle research
- Journal of the European Academy of Dermatology and Venereology

- Journal of Applied Polymer Science
- Journal of microencapsulation
- journal of cluster Science

Editorial board of:

- Acta Scientific Pharmacology
- Journal of Societal

Book translate

- Pharmaceutical Calculations (HowardAnsel)
- Chapter 3. Pharmaceutical measurement
- Chapter 15. Altering product strength, use of stock solutions and problem solving by allegation

Chapter books

- Hamed Barabadi, Kamyar Jounaki, Elaheh Pishgahzadeh, Hamed Morad, Negar Bozorgchami, Hossein Vahidi, Chapter 17 - Bioengineered metal-based antimicrobial nanomaterials for surface coatings, Editor(s): Aditya Kumar, Ajit Behera, Tuan Anh Nguyen, Muhammad Bilal, Ram K. Gupta, Antiviral and Antimicrobial Smart Coatings, Elsevier, 2023, Pages 489-539, ISBN 9780323992916, <https://doi.org/10.1016/B978-0-323-99291-6.00012-8>.
- Morad, H., Jounaki, K., Ansari, M., Sadeghian-Abadi, S., Vahidi, H., Barabadi, H. (2022). Bioengineered Metallic Nanomaterials for Nanoscale Drug Delivery Systems. In: Barabadi, H., Mostafavi, E., Saravanan, M. (eds) Pharmaceutical Nanobiotechnology for Targeted Therapy. Nanotechnology in the Life Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-12658-1_7
- Hamed Barabadi, Kamyar Jounaki, Elahe Pishgahzadeh, Hamed Morad, Salar Sadeghian-Abadi, Hossein Vahidi, Chaudhery Mustansar Hussain, Chapter 14 - Antiviral potential of green-synthesized silver nanoparticles, Editor(s): Chaudhery Mustansar Hussain, Handbook of Microbial nanotechnology, Academic Press, 2022, Pages 285-310, ISBN 9780128234266, <https://doi.org/10.1016/B978-0-12-823426-6.00030-9>.
- Penicillium species as an Innovative Microbial Platform for Bioengineering of Biologically Active Nanomaterials (2023 –submitted)

Patents

- Colchicine loaded nanofibers; preparation method, characterization, optimization and related applications (International WIPO-PCT patent), (Patent number; 2020208619) (Application number; PCT/IB2020/054648) (2020).
- Fabrication of microcapsule dosage form of Atenolol (National Patent) (2013).
- Ventricular fibrillation therapy device for patients with unstable hemodynamics (National Patent) (2011).
- Gutta-percha base cutter during dental incision in endodontics (National Patent) (2012).

Publications

- Hadinejad, F., **Morad, H***, Jahanshahi, M. et al. A Novel Vision of Reinforcing Nanofibrous Masks with Metal Nanoparticles: Antiviral Mechanisms Investigation. Adv. Fiber Mater. (2023). <https://doi.org/10.1007/s42765-023-00275-7> (IF=13)

- Niloufar Talank, **Hamed Morad**, Hamed Barabadi, Faraz Mojab, Salimeh Amidi, Farzad Kobarfard, Mohammad Ali Mahjoub, Kamyar Jounaki, Neda Mohammadi, Ghazal Salehi, Milad Ashrafizadeh, Ebrahim Mostafavi. Bioengineering of green-synthesized silver nanoparticles: In vitro physicochemical, antibacterial, biofilm inhibitory, anticoagulant, and antioxidant performance. *Talanta*. Volume 243. 2022. 123374. ISSN 0039-9140: <https://doi.org/10.1016/j.talanta.2022.123374>. (IF=6)
- Morad H, Jahanshahi M*, Akbari J, Saeedi M, Gill P, Enayatifard R**.; Novel topical and transdermal delivery of colchicine with chitosanbased bio composite nanofiberous system; formulation, optimization, characterization, ex vivo skin deposition/permeation, and anti-melanoma evaluation. *Mater. Chem. Phys.* 263, <https://doi.org/10.1016/j.matchemphys.2021.124381>. (2021 April). (IF= 4)
- Asgarirad H, Ebrahimnejad P, Mahjoub MA, Jalalian M, Morad H, Ataeer, et al. A promising technology for wound healing; In-vitro and in-vivo evaluation of chitosan nano-biocomposite films containing gentamicin. *J Microencapsul.* 38 (2): 100-107, 100-107. doi:10.1080/02652048.2020.1851789. (2021 March) (IF=2.3)
- Hafez Raei, Mohsen Jahanshahi, Hamed Morad, Three-layer sandwich-like drug-loaded nanofibers of insulin, titanium oxide Nanotubes and Nitroglycerin as a promising wound healing candidate, *Materials Chemistry and Physics*, Volume 292, 2022, 126767, ISSN 0254-0584. <https://doi.org/10.1016/j.matchemphys.2022.126767>. (IF=4)
- Hadinejad F, Jahanshahi M, Morad H*; Microwave-assisted and ultrasonic phyto-synthesis of copper nanoparticles; A comparison study: *Nano Biomed. Eng.* 13 (1): 6-19. doi: 10.5101/nbe.v13i1.p6-19. (2021 Feb) (IF=1.9)
- Enayati-Fard R, Akbari J, Saeedi M, Morteza-Semnani K, Morad H* & Nokhodchi A. Preparation and Characterization of Atenolol Microparticles Developed by Emulsification and Solvent Evaporation. *Lat. Am. J. Pharm.* 38 (7): 1342-1349 (2019).
- Nasiri F, Ajeli S, Semnani D, Jahanshahi M, Morad H. Fuzzy VIKOR Optimization for Designing High Performance Hydroxyapatite/Polycaprolactone Scaffolds for Hard Tissue Engineering. *J Text Polym.* 8 (1): 17–36. Available from: http://www.itast.ir/article_101562.html. (2020)
- Morad H, Jahanshahi M*, Akbari J, Saeedi M, Gill P, Enayatifard R. Formulation, optimization, and evaluation of nanofiber-based fast dissolving drug delivery system of colchicine for pediatrics. *Int JPediatr.* ; Available from: https://ijp.mums.ac.ir/article_16710.html. (2020).
- Morad H*, Karami Saravi G, Razavian SS, Bazari E, Shojaee, H, Morad Hand Ghafrani, A. Ventricular fibrillation therapy device for patients with unstable hemodynamics. *International Conference on Research in Engineering, Science and Technology, Istanbul- Conference paper (2015)*.
- Morad H*, Morad H, Rezaei G and Dabbaghian I. Gutta-percha base cutter during dental incision in endodontics. *National Conference on Engineering Science, New Ideas- Conference paper (2014)*

Under review & submitted manuscripts

- Morad H*. Nanofiber-based drug delivery systems, new era in skin cancer management. *Review. J. Pharm. Biomed* (2023)
- Morad H*, Razavi H, Sadeghi H; Nanofiber-based ocular drug delivery systems. *Review. Pharmaceutical nanotechnology* (2023).
- Morad H, Jahanshahi M, Hadinejad F*. Cu nanoparticles-loaded PVP nanofibers as a wound healing formulation. *Pharmaceutical nanotechnology* (2023)
- Hadinejad F, Jahanshahi M, Morad H *. Nanofiber-based vaginal and rectal drug delivery systems. *Review. Pharmaceutical and biomedical research* (2023)
- Jafar Akbari*, Majid Saeedi, Katayoun Morteza-Semnani, Reza Enayati-Fard, Raouf Alizadeh, Khadijeh Hemmati, Seyyed Sohrab Rostamkalaei, Hamed Morad, Ali Nokhodchi; Preparation of magnetic nanocarrier based on pH/temperature-responsive amphiphilic terpolymer of PCL-PDMAEMA for in vitro quercetin release; *Materials Science & Engineering C*

Research projects contributions

- Cu nanoparticles loaded nanofibers as wound Nanofiber based formulation (Thesis advisor for M.S.C -2019)
- Nanofiber-based formulation for insulin delivery (Thesis advisor for M.S.C - 2020)
- Formulation and characterization of nanofiber based composite carrier for delivery of Plargonium Graveolens extract.(Thesis Advisor forM.S.C thesis- 2020)
- Synthesis, characterisation and toxicity evaluation of Calcium phosphate nanoparticles doped with chromium and coated with poly ethylen glycol for biological purposes; (Cooperator- 2015)
- Investigation the effect of drug:polymer on characteristics of Atenolol microcapsules. (Pharm.D thesis-2012)
- Preparation and evaluation of physical and antimicrobial characteristic of chitosan biodegradable films containing gentamicine nanoparticles on staphylococos aureos in order to use in diabetic foot ulcer. (Pharm.D thesis-2014)

Conference presentation

International

- Atenolol microcapsules formulation by emulsion solventevaporation technique and evaluation their characteristics ISCOMS, Netherlands, June 2014. (Oral presentation)
- Atenolol microcapsules formulation by emulsion solventevaporation technique and evaluation their characteristics CRS, Tehran, Iran, Feb 2014. (Oral presentation)
- Manufacturing fibrillation diagnosis and treatment automatic machine in patient with unstable hemodynamics. International Conference on research in Engineering, Science and Technology. Istanbul, Turkey, 2015. (Oral presentation)

National

- AFM based optimization of PVA:CS composite NFs as a drug delivery nanocarrier. CNF 2019, Tehran, Iran. (Poster)
- Preparation and evaluation of physical and antimicrobial characteristic of chitosan biodegradable films containing gentamicine nanoparticles on staphylococos aureos in order to use in diabetic foot ulcer. Nanomedicine and Nanosafety Conference, Tehran, Iran, 2017. (Poster)
- The invention of an automated device for the treatment of ventricular fibrillation in people with unstable hemodynamics. Annual research congress of Iran's Medical Sciences Students, Babol, Iran, 2012. (Oral)
- The Antioxidant Effect evaluation of Licorice Root from One of Sari's groceries, Annual student research congress of Mazandaran University of Medical Sciences, 2011. (poster)
- Gutta-percha base cutter during dental incision in endodontics. National Conference on Engineering Science, New Ideas, Tonekabon, Iran (2014). (poster presentation)

RESEARCH INTRESTS

- Nano drug delivery systems
- Nanofiber based drug delivery systems
- Industrial scale up
- Conventional drug delivery systems
- Transdermal and topical drug delivery systems
- Micro and nano particles
- Polymeric drug delivery systems

- Metallic nanoparticles
 - Nanofilms
 - Drug targeting
 - wound healing
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