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Morteza Eskandani, Pharmaceutical Nanotechnology (Doctor of Philosophy), Associate Professor

H-Index in google scholar: 43, Research items: 129, Citation: 4005

Education

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2011-08 to 2015-08-01

Ph.D/ Pharmaceutical Nanotechnology

University of Guilan: Rasht, Guilan, Iran

2005-07 to 2007-07-01

M.Sc/ Biochemistry

Gorgan University of Agricultural Sciences and Natural Resources: Gorgan, Golestan, Iran

2001-07 to 2005-07-01

Bachelor science/ Zoology

Thesis

PhD *Isolation and elucidation of cytotoxic compound of Dorema glabrum Fisch. C.A, Ferula ovina Boiss and Salvia sahendica Boiss and Buhse, their formulation in to the nano*

structured lipids and assessment of their effects on ovarian and lung cancer cell lines in hypoxia condition., Supervisor: **Professor Hossein Nazemiyeh**

MSc *Assessment of oxidative stress and alpha-MSH gene sequences in Iranian vitiligo patients.*, Supervisor: **Professor Sadegh Hasannia**

Employments

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran
2023 to present
Associate professor

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran
2015-11 to 2023
Assistant professor

Islamic Azad University: Bonab, Azarbayjan, Iran
2009-07 to 2011-07-01
Lecturer (Biology-Biochemistry)

Payame Noor University: Maragheh, Maragheh, Iran
2009-07 to 2011-07-01
Lecturer (Biology-Biochemistry)

Golestan Hospital: Teharn, Teharn, Iran
2007-07 to 2009-07-01
Assistant manager (Medical laboratory)

Executive occupations

BioImpacts journal

2018 to present

Editor

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2023 to present

Deputy of Research, Research Center for Pharmaceutical Nanotechnology

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2020-2022

Dean, Core research laboratory

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2016-2018

Manager, Research Center for Pharmaceutical Nanotechnology

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2015 to 2019 present

Director of web design and maintenance, Research Center for Pharmaceutical Nanotechnology

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2015 to 2017 present

Secretary and founder of Scientific Meetings In RCPN (SMIR), Research Center for Pharmaceutical Nanotechnology

<http://nano.tbzmed.ac.ir>

Tabriz University of Medical Sciences: Tabriz, East Azerbaijan, Iran

2016 to 2018 present

Secretary and founder of e-Learning In RCPN (e-LIR), Research Center for Pharmaceutical Nanotechnology

<http://nano.tbzmed.ac.ir/?PageID=106>

Grants

2024-6-23 Tabriz University of Medical Sciences. Investigation of anti-tumor effects of methotrexate and curcumin loaded nanogels on 4T1 breast cancer cells in vitro and in vivo

Morteza Eskandani Alireza Karimian Shaddel Hamed Dadashi Milad Mashinchian Somayeh Vandghanooni Aria Mohabbat¹ Under Supervision

2024-5-11 Tabriz University of Medical Sciences. Evaluating the effects of chitosan nanoparticles containing doxorubicin and 6-gingerol against A549 lung cancer cells.

Zahra Farshbaf Roudbar Jamshidi Khosro Adibkia **Morteza Eskandani** Somayeh Vandghanooni Hamed Dadashi Samar Mahari Hossein Abdolmohammadzadeh² Under Supervision

2024-5-8 Kermanshah University of Medical Sciences. Fabrication and characterization of an antibacterial natural hydrogel based on hydroxyethyl cellulose for bone tissue engineering application

Mehdi Jaymand **Morteza Eskandani**³ Under Supervision

2024-5-7 Tabriz University of Medical Sciences. Investigation of the simultaneous effect of methotrexate and metformin drugs loaded in chitosan nanoparticles on the treatment of 4T1 breast cancer tumor cells.

Morteza Eskandani Alireza Karimian Shaddel Hamed Dadashi Aria Mohabbat Somayeh Vandghanooni Milad Mashinchian⁴ Under Supervision

2024-3-17 Tabriz University of Medical Sciences. Synthesis and characterization of chitosan nanogels containing Paclitaxel and Quercetin and evaluation of their antitumor effect on MDA-MB-231 triple negative cells in-vitro and in-vivo

Morteza Eskandani Hamed Dadashi Alireza Karimian Shaddel Amirreza Nazemiyeh Somayeh Vandghanooni Milad Mashinchian Nilufar Ahdeno⁵ Under Supervision

2024-3-13 Tabriz University of Medical Sciences. Evaluation of the effect of doxorubicin and metformin loaded chitosan nanoparticles on the treatment of A549 lung cancer tumor cells

Morteza Eskandani Somayeh Vandghanooni Hamed Dadashi Alireza Karimian Shaddel Aria Mohabbat Milad Mashinchian⁶Accepted

2024-2-28Tabriz University of Medical Sciences. Combination Therapy of solid lipid nanoparticles containing curcumin and cinnamaldehyde against MCF-7 breast cancer cells

Samar Mahari Khosro Adibkia **Morteza Eskandani** Somayeh Vandghanooni Hamed Dadashi Zahra Farshbaf Roudbar Jamshidi Hossein Abdolmohammadzadeh⁷Under Supervision

2024-2-13Tabriz University of Medical Sciences. Evaluation of combinatorial effects of PLGA nanoparticles containing curcumin and doxorubicin on MDA-MB-231 breast cancer cells

Hossein Abdolmohammadzadeh Khosro Adibkia Somayeh Vandghanooni **Morteza Eskandani** Aria Mohabbat Zahra Farshbaf Roudbar Jamshidi Samar Mahari⁸Under Supervision

2024-1-6Tabriz University of Medical Sciences. Investigating the effects of natural antioxidants on the anticancer and antibacterial activity of probiotic bacteria

Ahad Mokhtarzadeh **Morteza Eskandani** Behzad Baradaran⁹Under Supervision

2024-1-3Tabriz University of Medical Sciences. Investigation of the simultaneous effect of methotrexate and quercetin loaded chitosan nanoparticles on OVCAR-3 ovarian cancer cell line

Somayeh Vandghanooni **Morteza Eskandani** Hamed Dadashi Alireza Karimian Shaddel Milad Mashinchian Aria Mohabbat Shahr Banoo Karamnejad¹⁰Under Supervision

2023-12-13Kermanshah University of Medical Sciences. Synthesis and characterization of novel hydrogel biomaterials based on hyperbranched polyglycerol for bone tissue engineering and doxorubicin targeted delivery applications

Mehdi Jaymand Soheila Zare **Morteza Eskandani**¹¹Under Supervision

2023-11-25Tabriz University of Medical Sciences. Investigating the effects of silver nanoparticles in increasing the effectiveness of radiotherapy in breast cells pre-treated with metformin-loaded chitosan nanoparticles

Fateme Shiridokht Alireza Farajollahi **Morteza Eskandani** Somayeh Vandghanooni Hamed Dadashi¹² Under Supervision

2023-11-15 Tabriz University of Medical Sciences. Preparation of wound dressing based on natural polymers and shikonin derivatives

Amirreza Nazemiyeh Hossein Nazemiyeh Khosro Adibkia **Morteza Eskandani** Mohammad Yousef Memar¹³ Under Supervision

2023-10-31 Tabriz University of Medical Sciences. Impact of protein corona formation on solid lipid nanoparticles function

Fereshteh Bagheri **Morteza Eskandani** Behzad Baradaran Ahad Mokhtarzadeh¹⁴ Under Supervision

2023-5-8 Tabriz University of Medical Sciences. Designing a colorimetric chemosensor of malondialdehyde (a significant biomarker in respiratory diseases) using silver based Nano-probes and integrating with paper based microfluidic system

Mohammad Hassanzadeh Hossein Navay Baghban Farnaz Bahavarnia **Morteza Eskandani**¹⁵ Under Supervision

2023-4-26 Tabriz University of Medical Sciences. Evaluating the effects of mesenchymal stem cells-conditioned medium (MSC-CM) and Shilajit on breast cancer cells proliferation, apoptosis and metastasis

Somayeh Vandghanooni Zohreh Sanaat Parisa Kangari Amir Mehdizadeh Raheleh Farahzadi **Morteza Eskandani**¹⁶ Under Supervision

2023-1-29 Tabriz University of Medical Sciences. Preparation and standardization of Camelia sinensis extract and anti Genital Warts cream formulation based on Camelia sinensis extract

Amir Mahdi Imanzadeh Hossein Nazemiyeh Hadi Valizadeh **Morteza Eskandani**¹⁷ Under Supervision

2023-1-4 Kermanshah University of Medical Sciences. Fabrication and characterization of a pH-, thermal- and radiation-sensitive hydrogel based on carboxymethyl cellulose containing MnO₂ nanoparticles for chemoradiotherapy of breast cancer cells

Mehdi Jaymand Hossein Derakhshankhah **Morteza Eskandani** Soheila Zare¹⁸ Finished

2024-7-272022-12-14Kermanshah University of Medical Sciences. Fabrication and characterization of a hydrogel containing silica nanoparticles based on chitosan and poly(2-hydroxy ethyl metacrylate) loaded with ciprofloxacin as a scaffold for bone tissue engineering application

Mehdi Jaymand Morteza Eskandani Somayeh Vandghanooni . . Soheila Zare19Under

Supervision

2022-12-11Tabriz University of Medical Sciences. Preparing and evaluation, physical-mechanical characterization, and antifungal effect of polymethylmethacrylate denture base material containing nystatin-coated silver nanoparticles (AgNPs)

Elaheh Salehi Ali Torab Morteza Eskandani Mohammad Yousef Memar Yashar

Rezaei20Under Supervision

2022-11-2Kermanshah University of Medical Sciences. Fabrication and characterization of folate-conjugated redox- and pH-responsive magnetite hydrogel based on tragacanth gum for delivery doxorubicin anti-cancer drug and chemo/hyperthermia therapy of cancerous MCF7 cells

Mehdi Jaymand Hossein Derakhshankhah Morteza

Eskandani21Under Supervision

2022-10-26Kermanshah University of Medical Sciences. Fabrication and characterization of enzymatically cross-linked magnetic starch-grafted poly(tannic acid) hydrogel for `smart` cancer treatment: An in vitro chemo/hyperthermia therapy study

Mehdi Jaymand Hossein Derakhshankhah Morteza

Eskandani22Under Supervision

2022-10-11Tabriz University of Medical Sciences. Analysis of Hop (*Humulus lupulus*) seed chemical compounds

Amirreza Nazemiyeh Hossein Nazemiyeh Sanaz Hamedeyazdan Morteza Eskandani23Under Supervision

2022-8-20Tabriz University of Medical Sciences. Development and physicochemical evaluation of gingerol-loaded hyaluronic acid/PEG-coated PLGA nanoparticles for targeted therapy of gastric cancer

Morteza Eskandani Somayeh Vandghanooni Khosro Adibkia Amirali Azizanrouhi²⁴ Under Supervision
2022-7-20 Kermanshah University of Medical Sciences. Preparation and characterization of alginate-based electroconductive nanofibrous scaffolds for bone tissue engineering application
Mehdi Jaymand Hossein Derakhshankhah **Morteza Eskandani** Saeid Abbasi Maleki²⁵ Under Supervision
2022-6-6 Tabriz University of Medical Sciences. Development and evaluation of shikonin-loaded self-fluorescent hyaluronic acid/PEG-coated poly (d, l-lactide-co-glycolide) nanoparticles for effective therapy against prostate cancer
Morteza Eskandani Somayeh Vandghanooni Hossein Nazemiyeh Khosro Adibkia²⁶ Under Supervision
2022-5-28 Tabriz University of Medical Sciences. Engineering of hyaluronic acid coated PLGA-PEG nanoparticles for targeted delivery of acriflavine to triple negative breast cancer cells
Somayeh Vandghanooni Zohreh Sanaat **Morteza Eskandani** Raheleh Farahzadi²⁷ Under Supervision
2022-5-24 Tabriz University of Medical Sciences. Synthesis and evaluation of antitumor efficacy of digoxin and metformin-loaded nanogels on simultaneous inhibition of Notch-1 and HIF-1a pathways in MCF-7 breast cancer cell line in vitro
Hamed Dadashi Rana Jahanban-Esfahlan Mehdi Dadashpour Mehdi Jaymand **Morteza Eskandani** Masoume Sharifiazad²⁸ Under Supervision
2022-4-27 Tabriz University of Medical Sciences. Reinforcing the induction of immunogenic Cell Death by silibinin-loaded nano-carriers
Mina Amiri Ommoleila Molavi Soheila Montazersaheb Mohammad Saeid Hejazi **Morteza Eskandani**²⁹ Under Supervision
2021-11-14 Tabriz University of Medical Sciences. Study of Phytochemical constituents and cytotoxic effects of *Halanthium rarifolium*
Nazanin Hadavi Hossein Nazemiyeh **Morteza Eskandani** Sanaz Hamedeyazdan³⁰ Finished

2022-8-132021-10-3Tabriz University of Medical Sciences. The protective role of L-carnitine-loaded solid lipid nanoparticles against intracellular oxidative stress damages and cell death

Morteza Eskandani Somayeh

Vandghanooni31Under

Supervision

2021-8-30Tabriz University of Medical Sciences. The study of anti-tumor effects of miR-375 loaded, folic acid-decorated dendrimer nanoparticles on oral squamous cancer (HN5) cells, in vitro

AREF FARAJI BARHAGH Efat Alizade Rana Jahanban-Esfahlan Amir Zarebkohan Morteza Eskandani Farzin

Ahmadpourpournaki32Under Supervision

2021-2-17Tabriz University of Medical Sciences. Evaluation of the Pharmacokinetic parameters of Imatinib lipid nanoparticles modified with HER2 aptamer

Tooba Gholikhani Naharsouldouz Parvin Zakeri-Milani Khosro Adibkia Hadi Valizadeh Mohammad Barzegar Jalali Balam Jimenez Brito Shalen Kumar33Under Supervision

2021-1-20Tabriz University of Medical Sciences. Evaluation of the anti-cancer effects of 3-Bromopyruvate and Rapamycin-loaded dendrimers on Breast cancer cells

Mohammad Hosein Ayoubi-Joshaghani Rana Jahanban-Esfahlan Nosrat Zarghami Morteza Eskandani34Under

Supervision

2021-1-18Tabriz University of Medical Sciences. Evaluation of the effects of Acriflavin-loaded nanostructured lipidic carriers on improvement of immunogenic chemotherapy in breast cancer cells

Morteza Eskandani Somayeh

Vandghanooni Khosro Adibkia Zohreh

Sanaat35Under Supervision

2021-1-18Tabriz University of Medical Sciences. Preparation and physicochemical characterization of silver-Mesoporous Silica Nanoparticles Janus for chemotherapy and photothermal therapy of breast cancer cells

Adel Mahmoudi Gharehbaba Khosro Adibkia Jale

Barar Yadollah Omidi Morteza Eskandani36Finished

2024-2-132021-1-18Tabriz University of Medical Sciences. Aptamer-based detection of ovarian cancer biomarkers employing SPR technique

Morteza

Eskandani Somayeh

Vandghanooni37Finished

2024-6-52020-11-11Tabriz University of Medical Sciences. Targeted therapy of breast cancer cells using niclosamide-loaded polymeric NPs for attenuation of their adaptation to hypoxia

Somayeh Vandghanooni Zohreh Sanaat Morteza

Eskandani Khosro Adibkia38Under Supervision

2020-10-12Tabriz University of Medical Sciences. Evaluation of the anticancer effect of dendrimer loaded with rapamycin on breast cancer cells

Mostafa Niazi Rana Jahanban-Esfahlan Nosrat

Zarghami Efat Alizade Morteza Eskandani39Under

Supervision

2020-8-19Kermanshah University of Medical Sciences. Fabrication of biodegradable and electroconductive scaffold containing PVA, PCL and PANI for tissue engineering application

Mehdi Jaymand Bakhshali

Massoumi Morteza

Eskandani40Finished

2023-8-132020-3-18Tabriz University of Medical Sciences. Inhibition of drug resistance to cisplatin in ovarian cancer cells (A2780R) by silibinin loaded nanostructured lipid carriers

Atabak Bakhshaie Morteza

Eskandani Ommoleila Molavi41Under

Supervision

2020-1-7Tabriz University of Medical Sciences. Phytochemical study and Anti-cancer effects of Halocnemum strobilaceum.

Parinaz Pourabdollah Hossein

Nazemiyeh Morteza

Eskandani42Finished

2021-8-252019-7-10Tabriz University of Medical Sciences. Electrically conductive biomaterials based on natural polymer for tissue engineering

Morteza
Eskandani Somayeh
Vandghanooni⁴³Finished
2024-3-92019-6-17Tabriz University of Medical Sciences. Mesenchymal stem cells-derived IL-4 promotion in M1 into M2 microglial phenotype polarization
Reza Rahbarghazi Mohammad Hossein Geranmayeh Morteza
Eskandani Mahdi Ahmadi Bababak Davand Baranji⁴⁴Under
Supervision
2019-5-26Tabriz University of Medical Sciences. Preparation of Dunaliella salina extract-Loaded nano liposome for topical delivery and evaluation of its anti-aging and hair growth potential
Hamed Hamishe Kar MohammadReza Rashidi Mohammad Amin Hejazi Morteza Eskandani Soheil Abbaspour-Ravasjani Hamideh Azimi⁴⁵Finished
2022-2-212018-10-20Shahid Beheshti University of Medical Sciences. Phytochemical and pharmacological investigation of Cota tinctoria
Morteza Eskandani Seyed Abdulmajid
Ayatollahi Mir Babak Bahadori⁴⁶Finished
2022-11-52018-5-20Tabriz University of Medical Sciences. Phytochemical investigation and anti-Alzheimer's disease properties of three Stachys species
Morteza Eskandani Mir Babak
Bahadori⁴⁷Under Supervision
2018-5-19Shahid Beheshti University of Medical Sciences. Regulation of hypoxia-inducible factor-1 α and metabolic adaptation to hypoxia microenvironment in human lung epithelial cancer cells by Corosolic acid
Morteza Eskandani Seyed Abdulmajid
Ayatollahi Mir Babak Bahadori⁴⁸Under
Supervision

Patents

Production of fluorescent nanoparticles containing acetyl shikonin for drug distribution studies in vivo

Registration No: 84336 (2014)

Country: Iran

Journal Publications

[1] S. Zare, M. Eskandani, S. Vandghanooni, H. Hossainpour, M. Jaymand, Ciprofloxacin-loaded chitosan-based nanocomposite hydrogel containing silica nanoparticles as a scaffold for bone tissue engineering application, *Carbohydrate Polymer Technologies and Applications* 7 (2024) 100493.

[2] S. Valizadeh Shahbazlou, S. Vandghanooni, B. Dabirmanesh, M. Eskandani, S. Hasannia, Ultrasensitive quantification of MUC16 antigen/amine-terminated aptamer interaction by surface plasmon resonance: kinetic and thermodynamic studies, *Advanced Pharmaceutical Bulletin* (2024).

[3] A.A. Rouhi, A. Valizadeh, N. Sedghizadeh, L. Beba, H. Dadashi, M. Kazempour, K. Adibkia, S. Vandghanooni, M. Eskandani, Targeted therapy of gastric cancer with gingerol-loaded hyaluronic acid/PEG-coated PLGA nanoparticles: Development and physicochemical evaluation, *Journal of Drug Delivery Science and Technology* 97 (2024) 105734.

[4] M. Javid, M. Eskandani, M. Jaymand, B. Massoumi, Nanofibrous electroconductive scaffolds composed of poly (vinyl alcohol) and modified polyaniline for skin tissue engineering application, *Journal of Applied Polymer Science* (2024) e55871.

[5] F. Gholipour, M. Entezar, M. Amini, S. Vandghanooni, B. Baradaran, M. Eskandani, A.A. Mokhtarzadeh, Crocin effects on the anticancer properties of *Lactobacillus lactis* probiotics against colorectal adenocarcinoma cells, (2024).

[6] A.M. Gharehbaba, Y. Omid, J. Barar, M. Eskandani, K. Adibkia, Innovative horizons in cancer therapy, imaging, and sensing with Janus

Nanoparticles: a comprehensive review, *TrAC Trends in Analytical Chemistry* (2024) 117822.

[7] M. Eskandani, A. Mohabbat, A. Karimiyan, H. Dadashi, K. Adibkia, Z. Sanaat, S. Vandghanooni, MUC1 aptamer-conjugated niclosamide-loaded PLGA-PEG nanoparticles attenuate HIF-1 stabilization upon hypoxia in MCF7 breast cancer cells, *Journal of Drug Delivery Science and Technology* 92 (2024) 105278.

[8] M. Eskandani, R. Jahanban-Esfahlan, M.M. Sadughi, M. Jaymand, Thermal-responsive β -cyclodextrin-based magnetic hydrogel as a de novo nanomedicine for chemo/hyperthermia treatment of cancerous cells, *Heliyon* 10(11) (2024).

[9] H. Derakhshankhah, M. Eskandani, S. Akbari Nakhjavani, S. Tasoglu, S. Vandghanooni, M. Jaymand, Electro-conductive silica nanoparticles-incorporated hydrogel based on alginate as a biomimetic scaffold for bone tissue engineering application, *International Journal of Polymeric Materials and Polymeric Biomaterials* 73(4) (2024) 266-278.

[10] H. Dadashi, S. Vandghanooni, S. Karamnejad-Faragheh, A. Karimian-Shaddel, M. Eskandani, R. Jahanban-Esfahlan, A rapid protocol for synthesis of chitosan nanoparticles with ideal physicochemical features, *Heliyon* (2024).

[11] E.S. Abar, S. Vandghanooni, A. Torab, M. Jaymand, M. Eskandani, A comprehensive review on nanocomposite biomaterials based on gelatin for bone tissue engineering, *International Journal of Biological Macromolecules* 254 (2024) 127556.

[12] S. Zare, M. Eskandani, H. Derakhshankhah, M. Jaymand, Thermal-and radiation-sensitive hydrogel based on hydroxyethyl cellulose and manganese dioxide nanoparticles for synergistic chemoradiotherapy of breast cancer, *Carbohydrate Polymer Technologies and Applications* 6 (2023) 100394.

[13] S.V. Shahbazlou, S. Vandghanooni, B. Dabirmanesh, M. Eskandani, S. Hasannia, Biotinylated aptamer-based SPR biosensor for detection of CA125 antigen, *Microchemical Journal* 194 (2023) 109276.

- [14] Y. Omid, J. Barar, S. Vandghanooni, M. Eskandani, H. Omidian, Aptamers as smart ligands for the development of cancer-targeting nanocarriers, *Aptamers Engineered Nanocarriers for Cancer Therapy*, Woodhead Publishing 2023, pp. 103-139.
- [15] A. Nakhband, A. Garjani, N. Saeedi, Y. Omid, S. Ghaffari, J. Barar, M. Eskandani, Atherosclerosis preventive effects of marrubiin against (TNF- α)-induced oxidative stress and apoptosis, *Journal of Cardiovascular and Thoracic Research* 15(3) (2023) 174.
- [16] S. Najafian, M. Eskandani, H. Derakhshankhah, M. Jaymand, B. Massoumi, Extracellular matrix-mimetic electrically conductive nanofibrous scaffolds based on polyaniline-grafted tragacanth gum and poly (vinyl alcohol) for skin tissue engineering application, *International Journal of Biological Macromolecules* 249 (2023) 126041.
- [17] S. Najafian, M. Eskandani, H. Derakhshankhah, M. Jaymand, B. Massoumi, Biomimetic electroactive nanofibrous hydrogel scaffolds based on polythiophene-grafted tragacanth gum and poly (vinyl alcohol) for skin tissue engineering application, *Materials Today Communications* 37 (2023) 107532.
- [18] F. Gholipour, M. Amini, B. Baradaran, A. Mokhtarzadeh, M. Eskandani, Anticancer properties of curcumin-treated *Lactobacillus plantarum* against the HT-29 colorectal adenocarcinoma cells, *Scientific Reports* 13(1) (2023) 2860.
- [19] M. Eskandani, H. Derakhshankhah, S. Zare, R. Jahanban-Esfahlan, M. Jaymand, Enzymatically crosslinked magnetic starch-grafted poly (tannic acid) hydrogel for “smart” cancer treatment: An in vitro chemo/hyperthermia therapy study, *International journal of biological macromolecules* 253 (2023) 127214.
- [20] M. Eskandani, H. Derakhshankhah, R. Jahanban-Esfahlan, M. Jaymand, Biomimetic alginate-based electroconductive nanofibrous scaffolds for bone tissue engineering application, *International Journal of Biological Macromolecules* 249 (2023) 125991.
- [21] M. Eskandani, H. Derakhshankhah, R. Jahanban-Esfahlan, M. Jaymand, Folate-conjugated pH-and redox-responsive magnetic hydrogel based on

tragacanth gum for “smart” chemo/hyperthermia treatment of cancerous cells, *Journal of Drug Delivery Science and Technology* 84 (2023) 104449.

[22] H. Dadashi, M. Eskandani, L. Roshangar, M. Sharifi-Azad, M. Shahpouri, W.C. Cho, R. Jahanban-Esfahlan, Remotely-controlled hydrogel platforms for recurrent cancer therapy, *Journal of Drug Delivery Science and Technology* 82 (2023) 104354.

[23] F. Bahavarnia, H.N. Baghban, M. Eskandani, M. Hasanzadeh, Microfluidic paper-based colorimetric quantification of malondialdehyde using silver nanoprism toward on-site biomedical analysis: a new platform for the chemical sensing and biosensing of oxidative stress, *RSC advances* 13(43) (2023) 30499-30510.

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[26] S. Vandghanooni, H. Samadian, S. Akbari-Nakhjavani, B. Khalilzadeh, M. Eskandani, B. Massoumi, M. Jaymand, Electroactive nanofibrous scaffold based on polythiophene for bone tissue engineering application, *Journal of Materials Research* 37(3) (2022) 796-806.

[27] S. Vandghanooni, M. Eskandani, Z. Sanaat, Y. Omid, Recent advances in the production, reprogramming, and application of CAR-T cells for treating hematological malignancies, *Life Sciences* 309 (2022) 121016.

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applications in regenerative medicine, *International Journal of Polymeric Materials and Polymeric Biomaterials* (2022) 1-15.

[30] N. Rahmanian, M. Mohammadpour, A. Bagheri, M. Shokrzadeh, M. Eskandani, Doxorubicin and Doxorubicin-loaded Nanoliposome Triggers Hepatocyte Cells Senescence through Accumulation of Inflammatory Factors and Activation of P53, *J Mazandaran Univ Med Sci* 31(205) (2022) 17-28 (Persian).

[31] F. Mehdizadeh, R. Mohammadzadeh, H. Nazemiyeh, M. Mesgari-Abbasi, M. Barzegar-Jalali, M. Eskandani, K. Adibkia, Electrospayed Nanoparticles Containing Hydroalcoholic Extract of *Echinacea Purpurea* (L.) Moench Stimulates Immune System by Increasing Inflammatory Factors in Male Wistar Rats, (2022).

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[33] S. Jafari, A. Bakhshaei, M. Eskandani, O. Molavi, Silibinin-Loaded Nanostructured Lipid Carriers for Growth Inhibition of Cisplatin-Resistant Ovarian Cancer Cells, *Assay and Drug Development Technologies* (<https://doi.org/10.1089/adt.2022.060>) (2022).

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Selected Conference Proceedings

[1] **Morteza Eskandani:** Apoptosis inducing properties of *Salvia Sahendica* on MCF-7 human breast adenocarcinoma, 21st International Iranian Congress of Physiology & Pharmacology, Tabriz. 21st International Iranian Congress of Physiology & Pharmacology, Tabriz 2013; 09/2013

[2] **Morteza Eskandani:** stimuli responsive nanofibers prepared from poly (NIPAcrylAmidVproline) by green electospuning as an anticancer drug delivery. Conference Proceeding: Apoptosis inducing properties of *Salvia Sahendica* on MCF-7 human breast adenocarcinoma, 21st International Iranian Congress of Physiology & Pharmacology, Tabriz Morteza Eskandani 21st International Iranian Congress of Physiology & 08/2013

[3] **Morteza Eskandani:** Phytochemical analysis and cytotoxic activity of the methanolic extract of *prangos aculis* roots. Conference Proceeding: Apoptosis inducing properties of *Salvia Sahendica* on MCF-7 human breast adenocarcinoma, 21st International Iranian Congress of Physiology & Pharmacology, Tabriz Morteza Eskandani 21st International Iranian Congress of Physiology & 08/2013

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[6] **Morteza Eskandani:** The construction of chimeric T-cell receptor base of modeling study of VHH with MUC1 interaction. Nanotechnologies in oncology, Moscow (2008) as Oral presentation. Nanotechnologies in oncology, Moscow (2008); 10/2008

Skills & Activities

Skills Nanomedicine, Cell Culture, Cancer Biology, Comet Assay, DNA Damage, Genotoxicity, Oxidative Stress, Cytotoxicity, Nanoparticles Drug Delivery, Electrospinning, Mutagenicity, Biochemistry, Oncology, Apoptosis, Biomarkers, Molecular Toxicology, Antioxidants, Cytotoxicity Assays, Cell Biology, MTT Assay, Biotechnology, Nanocomposites, Natural Product Chemistry, Hypoxia, Nano Drug Delivery, HPLC-UV, Nanoparticles, Pharmacology, In vitro Toxicology, Genetic Toxicology, Oxidative Stress Biomarkers, Natural Products, Genotoxicology, Hypoxia-Inducible Factor 1, DNA Fragmentation, Reactive Oxygen Species, Medicinal Plants, Antioxidant Activity, NMR Spectroscopy, Electrochemistry, Scaffold, Targeted Drug Delivery, Regenerative Medicine

Languages English, Persian and Turkish

Hobbies Ney, Setar and Tar playing, Music listening, Car driving, Sport, Hiking, Studying

Scientific Memberships - Physiology and Pharmacology Society of Iran
- Biochemistry Society of Iran
- Nanotechnology Society of Iran

Interests - Nanomaterials, Biomaterials, Drug delivery, Targeted therapy, Tissue engineering