

Curriculum Vitae

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دکتر حسن نیک نژاد

عضو هیات علمی دانشکده پزشکی

دانشگاه علوم پزشکی شهید بهشتی

اطلاعات تماس:

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Dr. Hassan Niknejad, PharmD, PhD

Department of Pharmacology and Nanomedicine and Tissue Engineering Research Center, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Academic Position:

Associate Professor 2017-current

Department of Pharmacology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Assistant Professor 2010-2017

Nanomedicine and Tissue Engineering Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Other Personal Information:

Date of Birth: 21 Sep 1975

Gender & Marital: Male, Married

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Education:

1995-2002

Tehran University of Medical Sciences, Doctor of Pharmacy (Pharm.D.)

Thesis: Investigation of interaction between nitric oxide and ATP-dependent potassium channel in isolated rat atria

2002-2008

Shahid Beheshti University of Medical Sciences, PhD

Thesis: The effects of designed Nano-matrix on dopaminergic differentiation of amniotic epithelial stem cells.

Award:

- Among world's top 2% scientists based on ranking of Stanford university (Year: 2021)
- Chair of symposium and invited speaker, Tissue Engineering and Regenerative Medicine Congress. TERMIS European Chapter Meeting. TERMIS-EU 2019.
- First Rank of Research Festival in Shahid Beheshti University of Medical Sciences (Year of award: 2014)

Research interest:

Regenerative Medicine

Stem cells

Tissue Engineering

Medical Nanotechnology

Drug Delivery

Angiogenesis

Cancer

Grants:

- 1) International network for translational research on perinatal derivatives into therapeutic approaches
Funding organization: European Cooperation in Science & Technology (Ecost) (COST Action CA17116)
- 2) Design and construction of a bioreactor for liver decellularization and recellularization equipped with cell encapsulation microfluidic system for liver tissue engineering
Funding organization: National Institutes for Medical Research Development (NIMAD) (Award number: 963951)
- 3) In vitro effects of 2D and 3D chitosan-gelatine scaffolds on angiogenesis and immunological state of amniotic epithelial cells
Funding organization: National Institutes for Medical Research Development (NIMAD) (Award number: Elite Researcher Grant Proposal no. 963248)
- 4) Full- thickness wound healing in an animal model using freeze dried amniotic membrane and Lacto-N-Neotetraose oligosaccharide
Funding organization: National Institutes for Medical Research Development (NIMAD) (Award number: Elite Researcher Grant Proposal no. 958796)
- 5) Differentiation of amniotic epithelial stem cells into dopaminergic neurons via controlled delivery of CdSe quantum dots conjugated retinoic acid
Funding organization: Iran National Science Foundation (INSF) (Award number: 89002428)
- 6) Evaluating the effects of cold plasma atmospheric and its activated media on the viability and apoptosis of cancer cells
Funding organization: National Institutes for Medical Research Development (NIMAD) (Award number: Elite Researcher Grant Proposal no. 971253)
- 7) Design and Construction of Biocompatible Conducting Nanochitosan /polypyrrole-alginate Scaffold for Nerve Tissue Engineering Applications.
Funding organization: National Institutes for Medical Research Development (NIMAD) (Award number: Elite Researcher Grant Proposal no. 987688)
- 8) Comparison of the human amniotic epithelial stem cells resistance against the cytotoxic effect of Abraxane and Paclitaxel and evaluating the uptake/release ability of these cells. **Funding organization:** National Institutes for Medical Research Development (NIMAD) (Award number: Elite Researcher Grant Proposal no. 4000341)

فعالیت های اجرایی:

- رئیس دانشکده فناوری های نوین پزشکی دانشگاه علوم پزشکی شهید بهشتی
- قائم مقام مرکز تحقیقات نانو تکنولوژی پزشکی دانشگاه علوم پزشکی شهید بهشتی
- معاونت پژوهشی مرکز تحقیقات مهندسی بافت دانشگاه علوم پزشکی شهید بهشتی
- عضو بوردا امتحانات تخصصی سلول درمانی و مهندسی بافت وزارت بهداشت، درمان و آموزش پزشکی
- عضو کارگروه سلولی گروه علوم پایه فرهنگستان علوم پزشکی
- مسئول المپیاد علوم پایه دفتر استعداد درخشان دانشگاه علوم پزشکی شهید بهشتی
- عضو کمیته سلول درمانی و درمان ناباروری معاونت درمان وزارت بهداشت
- عضو کارگروه سلول های بنیادی و فرآورده های بافت ساخته سازمان غذا و دارو

فعالیت های آموزشی:

- تدریس دروس فارماکولوژی عمومی و تخصصی ریفرم برای دانشجویان پزشکی عمومی، دکترای تخصصی فارماکولوژی و کارشناسی ارشد فیزیولوژی و پرستاری.
- تدوین کوریکولوم آموزشی و تدریس درس "سلول درمانی با سلول های بنیادی" برای دانشجویان پزشکی اینترن.
- همکاری در تدوین و اصلاح کوریکولوم آموزشی دکتری تخصصی (PhD) مهندسی بافت و علوم سلولی کاربردی معاونت آموزشی وزارت بهداشت، درمان و آموزش پزشکی.
- تدوین کوریکولوم آموزشی و تدریس درس "تفکر علمی در علوم پایه پزشکی" برای دانشجویان پزشکی.
- راه اندازی گروه آموزشی علوم سلولی کاربردی (سلول درمانی) و پذیرش دانشجویان دکتری تخصصی (PhD) در دانشکده فناوری های نوین پزشکی.
- راه اندازی گروه آموزشی مهندسی بافت و پذیرش دانشجویان دکتری تخصصی (PhD) در دانشکده فناوری های نوین پزشکی.
- تدریس درس "پزشکی شخصی محور (Personalized Medicine)" برای دانشجویان دکتری تخصصی (PhD) بیوتکنولوژی پزشکی و پزشکی مولکولی.

- تدریس درس "بانک سلولی و اصول استانداردسازی" برای دانشجویان دکتری تخصصی (PhD) علوم سلولی کاربردی.
- تدریس درس "اصول کشت سلول دو بعدی و سه بعدی و روش ساخت و مشخصه های داربست ها" برای دانشجویان دکتری تخصصی (PhD) مهندسی بافت.
- استاد راهنمای ۱۴ پایان نامه دکتری تخصصی (PhD)، ۱۱ پایان نامه کارشناسی ارشد و ۹ پایان نامه پزشکی عمومی.

فعالیت های فناوری محور:

- تحقیق و توسعه و کسب مجوز استفاده بالینی پانسمان بیولوژیک زخم بستر و زخم پای دیابتی
- تحقیق و توسعه و کسب مجوز بالینی محلول پیوند کبد، کلیه و پانکراس
- تحقیق و توسعه و کسب مجوز اخلاق برای کارآزمایی بالینی محصول تزریقی داخل مفصلی برای بیماران دچار ضایعات مفصلی
- انجام کارآزمایی های بالینی با مجوز معاونت تحقیقات و فناوری بعنوان محقق اصلی با همکاری بیمارستان های دانشگاه
- تاسیس شرکت دانش بنیان زیست فناوران نیلفر و نیکان شفاپویان دارای تایید معاونت علمی و فناوری ریاست جمهوری
- آشنایی با قوانین ارتباط با صنعت و انجام قراردادهای انتقال دانش فنی، تولید قراردادی، مشارکت در تولید و سرمایه گذاری خطر پذیر

Publications:

Book

- 1) Hassan Niknejad (2012). Application of Embryonic Stem Cells in Parkinson's Disease, Mechanisms in Parkinson's Disease -Models and Treatments, Dr. Juliana Dushanova (Ed.), ISBN: 978-953-307-876-2, InTech, DOI: 10.5772/24400.
- 2) Payam Sadeghi and Mohammad Amiri (2018). Guideline for Scientific Olympiad of Medical Students. Publisher: SBMU. Under supervision of Hassan Niknejad.

Patents

- 1) Production of albumin nanoparticles without toxicity of glutaraldehyde.
- 2) Artificial skin through in situ differentiation of amniotic cells
- 3) Extraction of anti-cancer ingredients from human placenta
- 4) High-yield production of collagen type I and IV from human placenta
- 5) Biocompatible paclitaxel-conjugated albumin nanoparticles

Congress paper (National and International)

1. G. Yazdanpanah, M. Khayat-Khoei, **H. Niknejad**, (2012). Ps-99: Endothelial Differentiation of Human Amniotic Epithelial Cells (Pages: 68-0). Volume 14, supplement 1, Summer 2012 (Presented at 8th Royan Congress on Stem Cell Biology and Technology)
2. S. Masoumi, S. Jamili, **H. Niknejad**, (2014). Effects of Size and Concentration of Nanosilver on Liver Tissue of Common Carp (*Cyprinus carpio*). Iran NanoSafety Congress, Tehran, Iran.
3. Azizian S., Modaresifar K., Ghasemzaie N., **Niknejad H.**, (2016). 3rd Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine. Page 19-21. Tehran, Iran.
4. S. Sharifi, P. Ghavam Mostafavi, A. Mashinchian Moradi, M.H. Givianrad, **H. Niknejad**, (ICNP 2017). Cytotoxic Effect of Crude Extract of Sea Pen

- Virgularia gustaviana on HeLa and MDA-MB-231 Cancer Cell Lines. 19th International Conference on Natural Products.
5. A. Jafari, M. Rezaei-Tavirani, H. Zali, **H. Niknejad, (2018)**. A New Strategy for Cancer Therapy by Conditioned Medium Derived From Human Amniotic Epithelial Stem Cells. 3rd National Festival and International Congress of Rehabilitation Stem Cells and Medical Stems and Technologies, Tehran, Iran.
 6. **H. Niknejad (2018, invited speaker)**. Placenta stem cells as the crossroad of pharmacotherapy and regenerative medicine. 1st International Iranian Tissue Engineering and Regenerative Medicine Congress (ITERM2018)
 7. **H. Niknejad (2019, Invited speaker)**. Induction of angiogenesis by placenta derived stem cells and matrix for tissue engineering and regenerative medicine. TERMIS EU 2019. 27-31 May 2019 Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 105)
 8. A. Ahmadi, S.S. Ebadi, N Halvaei1, R. Mazloomnejad-Meybodi, **H.Niknejad. (2019)**. Osteogenic differentiation of the human placenta derived amniotic membrane using Simvastatin and BMP9. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 353).
 9. F. Biniazan, A. Manzari-Tavakoli, F. Safaeinejad, A. Moghimi, F. Rajaei, **H. Niknejad. (2019)**. The effect of BMP signaling on neural and keratinocyte differentiation of placenta derived cells. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 460).
 10. M.H. Farjoo, **H. Niknejad. (2019)** Human placenta derived membrane is a favourable natural biomaterial for vascular tissue engineering. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 667).
 11. A. Jafari, P. Parhizgar, H. Zali, B. Farhadi-Hoseinabadi, **H. Niknejad. (2019)** Application of human placenta derived amniotic epithelial cells as novel approach in cancer treatment. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 705).
 12. S.S. Ebadi, A. Ahmadi, **H. Niknejad. (2019)** Bone morphogenetic protein-9 and small-molecule phenamil synergistically induced osteogenic differentiation of intact human placenta membrane. TERMIS EU 2019. 27-31

- May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 775).
13. B.J. Nooshin, Sh. Rahmani, S.S. Shafiee, **H. Niknejad. (2019)** Design, construction and optimizing of a constant pressure bioreactor for whole liver decellularization. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 776).
 14. B. Farhadhosseinabadi, S. Shariatzadeh, A. Jafari, T. Tayebi, B.J. Noushin, A. ManzariTavakoli, **H. Niknejad (2019)** The co-application of freeze-dried amniotic membrane and lacto-n-neotetraose oligosaccharide as an inducer of type 2 immune response for full-thickness wound healing. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 784).
 15. T. Tayebi, A. Baradaran-Rafii, A. Zafari, B. Farhadhosseinabadi, **H. Niknejad. (2019)** Biofabrication of corneal endothelial grafts through culturing the human corneal endothelial cells on nanochitosan-polycaprolactone membrane. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 810).
 16. A. Ahmadi, S.S. Ebadi, R. Mazloomnejad-Meybodi, N. Halvaei, **H. Niknejad. (2019)**. Recent advances on application of small molecules as osteogenic inducers. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 889).
 17. F. Biniazan, F. Rajaei, A. Manzari-Tavakoli, F. Safaeinejad, **H. Niknejad (2019)** Signaling pathways involved in regulation of keratinocyte differentiation of stem cells. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 932).
 18. Manzari-Tavakoli, F. Biniazan, A. Moghimi, **H. Niknejad, F. Safaeinejad. (2019)**. BMP Signaling cross-talk with other pathways in neural differentiation. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 933).
 19. K. Amirzadeh gougheri, M.H. Farjoo, **H. Niknejad. (2019)**, Exosomes in diagnosis and therapy of cardiovascular diseases. Hype or hope? TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1054).
 20. E. Jamshidi, P. Soltani, M. Abbasi-Kangevari, M. H. Farjoo, **H. Niknejad (2019)**, Recent advances in placenta-derived mesenchymal stem cells and their

- exosomes in cancer therapy. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1055).
21. N. Halvaei, P. Parhizgar, A. Ahmadi, R. Mazloomnejad-Meybodi, **H. Niknejad. (2019)**, Presenting Animal models for investigation of gold storage solution in organ transplantation. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1060).
 22. R. Mazloomnejad-Meybodi, N. Halvaei, M. Malekpour, A. Ahmadi, **H. Niknejad. (2019)**. The current approaches on angiogenesis in decellularized scaffolds. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1061).
 23. P. Parhizgar, T. Tayebi, A. Jafari, N. Halvaei, **H. Niknejad. (2019)**. The recent advances on the ingredients of cold storage solutions for liver transplantation Presenting. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1068).
 24. F. Yousefimooghaddam, M. Nourbakhsh, S. Bideri, T. Tayebi, P. Parhizgar, **H. Niknejad. (2019)**. Recent advances on application of hydrogels for microfluidic-based stem cell encapsulation. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1069).
 25. S.S. Ebadi, A. Ahmadi, **H. Niknejad. (2019)**. Bone morphogenic proteins and osteogenic differentiation of stem cells. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1115).
 26. Esfandpour, S. Motamedi, S.S. Ebadi, **H. Niknejad. (2019)**. Cell Spray and Wound Healing: current approaches and technology. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1116).
 27. A. Manzari-Tavakoli, S. Shafiee, A. Moghimi, B. Farhadhosseinabadi, **H. Niknejad. (2019)**. Biocompatible conducting nanochitosan/polypyrrole-alginate scaffold for nerve tissue engineering. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1117).
 28. M.R. Malekpour, S. Shafiee, M. Abbasi-Kangevari, B. Jambar -Nooshin, R. Mazloomnejad-Meybodi, **H. Niknejad. (2019)** Presenting Recent advances on tissue and whole-organ decellularization protocols. TERMIS EU 2019. 27-31

- May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1118).
29. M. Kazemzadeh Hemmesi, S. Shariatzadeh, **H. Niknejad. (2019)**. The recent advances on the role of placenta stem cell and comparison with other sources in cell therapy of wound healing. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1120).
 30. D. Hayati, M. Valizadeh, S. Shariatzadeh, A. Jafari, H. Rajabi-Maham, **H. Niknejad. (2019)**. The effect of human amnion-derived exosomes on angiogenesis. TERMIS EU 2019. 27-31 May 2019Rhodes, Greece. eCM Periodical, Collection 3; TERMIS EU Abstracts (page 1121).

Published Articles:

1. E Jamshidi, A Babajani, P Soltani, H Niknejad. Proposed mechanisms of targeting COVID-19 by delivering mesenchymal stem cells and their exosomes to damaged organs. **Stem cell reviews and reports**, 2021. 1-17.
2. A Jafari, M Rezaei-Tavirani, B Farhadhosseinabadi, H Zali, H Niknejad. Human amniotic mesenchymal stem cells to promote/suppress cancer: two sides of the same coin. **Stem Cell Research & Therapy**, 2021, 12 (1), 1-11.
3. T Tayebi, A Baradaran-Rafii, A Hajifathali, A Rahimpour, H Zali, H Niknejad. Biofabrication of chitosan/ chitosan nanoparticles /polycaprolactone transparent membrane for corneal endothelial tissue engineering. **Scientific Reports**, 2021, 11 (1), 1-12
4. F Biniazan, A Manzari-Tavakoli, F Safaeinejad, A Moghimi, F Rajaei, H Niknejad. The differentiation effect of bone morphogenetic protein (BMP) on human amniotic epithelial stem cells to express ectodermal lineage markers. **Cell and Tissue Research**, 2021, 383 (2), 751-763
5. F Safaeinejad, S Asadi, S Ghafghazi, H Niknejad. The Synergistic Anti-Apoptosis Effects of Amniotic Epithelial Stem Cell Conditioned Medium and Ponesimod on the Oligodendrocyte Cells. **Frontiers in Pharmacology**, 2021, 12.
6. J Khanali, M Azangou-Khyavy, M Boroomand-Saboor, M Ghasemi, H Niknejad. JAK/STAT-Dependent Chimeric Antigen Receptor (CAR)

- Expression: A Design Benefiting From a Dual AND/OR Gate Aiming to Increase Specificity, Reduce Tumor Escape and Affect Tumor. **Frontiers in Immunology**, 2021, 12, 1-12.
7. A Babajani, P Hosseini-Monfared, S Abbaspour, E Jamshidi, H Niknejad. Targeted Mitochondrial Therapy with Over-expressed MAVS Protein from Mesenchymal Stem Cells: A New Therapeutic Approach for COVID-19. **Cell and Developmental Biology**, 2021, 9, 1475.
 8. A Manzari-Tavakoli, R Tarasi, R Sedghi, A Moghimi, H Niknejad. Fabrication of nanochitosan incorporated polypyrrole/alginate conducting scaffold for neural tissue engineering. **Scientific reports**, 2020, 10 (1), 1-10
 9. Sedghi R, Gholami M, Shaabani A, Saber M, Niknejad H. Preparation of novel chitosan derivative nanofibers for prevention of breast cancer recurrence. **European Polymer Journal**, 2020, 123, 109421.
 10. Farhadhosseinabadi, B., Gholipourmalekabadi, M., Salimi, M., Kazemi, B., Niknejad, H. The in vivo effect of Lacto-N-neotetraose (LNnT) on the expression of type 2 immune response involved genes in the wound healing process. **Scientific Reports**, 2020, 10(1), 997.
 11. Babajani, A., Soltani, P., Jamshidi, E., Farjoo, M.H., Niknejad, H. Recent Advances on Drug-Loaded Mesenchymal Stem Cells with Anti-neoplastic Agents for Targeted Treatment of Cancer. **Frontiers in Bioengineering and Biotechnology**, 2020, 8, 748.
 12. Sharifi, S., Mostafavi, P.G., Tarasi, R., Hamburger, M., Niknejad, H. Purified compounds from marine organism sea pen induce apoptosis in human breast cancer cell MDA-MB-231 and cervical cancer cell Hela. **European Journal of Pharmacology**, 2020, 877, 173075.
 13. Ghamari, S.-H., Abbasi-Kangevari, M., Tayebi, T., Bahrami, S., Niknejad, H. The Bottlenecks in Translating Placenta-Derived Amniotic Epithelial and Mesenchymal Stromal Cells into the Clinic: Current Discrepancies in Marker Reports. **Frontiers in Bioengineering and Biotechnology**, 2020, 8, 180.
 14. Pandamooz, S., Jafari, A., Salehi, M.S., Niknejad, H., Azarpira, N., Dargahi, L. Substrate stiffness affects the morphology and gene expression of epidermal neural crest stem cells in a short term culture. **Biotechnology and Bioengineering**, 2020, 117(2), pp.305-317.

15. Jezeh, M.A., Tayebi, T., Khani, M.R., Niknejad, H., Shokri, B. Direct cold atmospheric plasma and plasma-activated medium effects on breast and cervix cancer cells. **Plasma Processes and Polymers**, 2020, 1-11.
16. A Jafari, H Niknejad, M Rezaei-Tavirani, C D'Amico, H Zali. The biological mechanism involved in anticancer properties of amniotic membrane. **Oncology reviews**, 2020, 14 (1).
17. SJ Tabatabaei Rezaei, A Mashhadi Malekzadeh, L Sarbaz, H Niknejad. Hyperbranched polymers functionalized magnetic nanoparticles for targeted delivery and intracellular release of cisplatin. **Journal of Applied Chemistry**, 2020 15 (54), 55-70.
18. Tayebi, T., Aminrayajeze, M., Khani, M.R., Shokri, B., Niknejad, H. Evaluation of inducing apoptosis as cell death mechanism by cold atmospheric plasma in cervix cancer cell line (Hela). **Journal of Isfahan Medical School**, 2017, 37(556), pp.1354-1360
19. Jamadi, Z., Parhizgar, P., Yazdanpanah, G., Tarasi, R., Niknejad, H. Recent advances in organ preservation solutions and methods for using in liver and kidney transplantation. **JIMS**, 2020, 37(557), pp.1388-1400
20. Farhdihosseiniabadi, B., Salimi, M., Kazemi, B., Mozafari, M., Niknejad, H. Inducing type 2 immune response, induction of angiogenesis, and anti-bacterial and anti-inflammatory properties make Lacto-n-Neotetraose (LNnT) a therapeutic choice to accelerate the wound healing process. **Medical Hypotheses**, 2020, 134, 109389
21. G. Kafili, E. Tamjid, H. Niknejad, A. Simchi. Processing of a temperature responsive human amniotic membrane-derived hydrogel for soft tissue engineering by 3D bioprinting. **ISPST 2020**, 14th International Seminar on Polymer Science and Technology.
22. Jezeh, M.A., Khani, M.R., Niknejad, H., Shokri, B. Effects of cold atmospheric plasma on viability of breast (MDA-MB-231) and cervical (Hela) cancer cells. **Koomesh**, 2019, 21(4), pp.694-701
23. Rezaei, S.J.T., Malekzadeh, A.M., Ramazani, A., Niknejad, H. Ph-sensitive magnetite nanoparticles modified with hyperbranched polymers and folic acid for targeted imaging and therapy. **Current Drug Delivery**, 2019, 16(9), pp.839-848

24. Aminraya-Jezeh, M., Khani, M.R., Shokri, B., Niknejad, H. The effects of plasma-activated medium on the viability of breast (MDA-MB-231) and cervical (HeLa) cancer cell lines. **Journal of Isfahan Medical School**, 2019, 37(526), pp.493-499
25. Khalesi, N., Bandehpour, M., Bigdeli, M.R., Niknejad, H., Dabbagh, A., Kazemi, B. 14-3-3 protein protects against brain ischemia/reperfusion injury and induces BDNF transcription after MCAO in rat. **Journal of Applied Biomedicine**, 2019, 17(2), pp.99-106
26. M Abbasi-Kangevari, SH Ghamari, F Safaeinejad, S Bahrami, H Niknejad. Potential Therapeutic Features of Human Amniotic Mesenchymal Stem Cells in Multiple Sclerosis: Immunomodulation, Inflammation Suppression, Angiogenesis Promotion, Oxidative Stress Inhibition, Neurogenesis Induction, MMPs Regulation, and Remyelination Stimulation. **Frontiers in Immunology** (2019) 10, 238
27. G. Kafili, E. Tamjid, H. Niknejad, A. Simchi. Rheological behavior of amniotic membrane-based hydrogel containing laponite nanoparticles. **Proceedings of the ICNS8** (2019).
28. S Azizian, A Hadjizadeh, H Niknejad Chitosan-gelatin porous scaffold incorporated with Chitosan nanoparticles for growth factor delivery in tissue engineering. **Carbohydrate polymers** (2018) 202, 315-322
29. K Modaresifar, A Hadjizadeh, H Niknejad Design and fabrication of GelMA/chitosan nanoparticles composite hydrogel for angiogenic growth factor delivery. **Artificial cells, nanomedicine, and biotechnology** (2018) 46 (8), 1799-1808.
30. H Moravvej, F Abdollahimajd, MH Naseh, Z Piravar, E Abolhasani, Fibroblast injection vs. fibroblasts on amniotic membrane in RDEB. **British Journal of Dermatology** (2018) 179 (1), e60-e60.
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