



# Shiva Akbari Birgani

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## Publications

### Journals

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- Seyed Ali Karimifard, Ali Salehzadeh-Yazdi, Reza Taghizadeh-Tabarsi, Shiva Akbari-Birgani, "Mechanical effects modulate drug resistance in MCF-7-derived organoids: Insights into the wnt/ $\beta$ -catenin pathway", Biochemical and Biophysical Research Communications, 2024, doi: <https://doi.org/10.1016/j.bbrc.2023.149420>
- Soheila Mohammadi, Shiva Akbari-Birgani, Nasser Nikfarjam, Mahsa Rasekhian, "Polyethyleneimine-decorated graphene oxide quantum dot as a carrier for suicide gene delivery to the breast cancer three-dimensional model", Journal of Drug Delivery Science and Technology, 2023, doi: <https://doi.org/10.1016/j.jddst.2023.104849>
- F Khatami, A Baharian, S Akbari-Birgani, N Nikfarjam, "Tubular scaffold made by gelatin/polylactic acid nanofibers for breast ductal carcinoma in situ tumor modeling", Journal of Drug Delivery Science and Technology, 2023, doi: <https://doi.org/10.1016/j.jddst.2023.104606>
- Saghatchi, Fatemeh and Akbari-Birgani, Shiva and Kaboudin, Babak, "Synthesis of magnetic carbon nanotubes functionalized with pyridine groups-supported gold nanoparticles and their application in Imaging", ACS Applied Polymer Materials, Vol. 13, NO. 2, 2023



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- Davoodi-Monfared, Parviz and Akbari-Birgani, Shiva and Mohammadi, Saeed and Kazemi, Foad and Nikfarjam, Nasser and Nikbakht, Mohsen and Mousavi, Seyed Asadollah, "Synthesis, characterization, and in vitro evaluation of the starch-based  $\alpha$ -amylase responsive hydrogels", *Journal of Cellular Physiology*, Vol. 236, NO. 5, 2021
- Atefeh Safaei-Yaraziz, Shiva Akbari-Birgani and Nasser Nikfarjam\*, "Porous scaffolds with the structure of an interpenetrating polymer network made by gelatin methacrylated nanoparticle-stabilized high internal phase emulsion polymerization targeted for tissue engineering", *RSC Advances*, 06, 2021, doi: [DOI  
https://doi.org/10.1039/D1RA03333F](https://doi.org/10.1039/D1RA03333F)
- Zahra Madadi, Shiva Akbari-Birgani<sup>1\*</sup>, Saeed Mohammadi\*,



- Mitra Khademy, Seyed Asadollah Mousavi, "The Effect of Caspase-9 in the Differentiation of SH-SY5Y Cells", *European Journal of Pharmacology*, Vol. 904, NO. 174138, 4, 2021, doi: [10.1016/j.ejphar.2021.174138](https://doi.org/10.1016/j.ejphar.2021.174138)
- Hosein Kafian, Meelad Lalenejad, Sahar Moradi-Mehr, Shiva Akbari Birgani, Daryoush Abdollahpour, "Light-Sheet Fluorescence Microscopy with Scanning Non-diffracting Beams", *Scientific Reports*, Vol. 10, 05, 2020, doi: [10.1038/s41598-020-63847-2](https://doi.org/10.1038/s41598-020-63847-2)
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  - Fatemeh Saghatchi<sup>1</sup> & Masoud Mohseni-Dargah<sup>2</sup> & Shiva Akbari-Birgani<sup>2,3</sup> & Samaneh Saghatchi<sup>4</sup> & Babak Kaboudin<sup>1,3</sup>, "Cancer Therapy and Imaging Through Functionalized Carbon Nanotubes Decorated with Magnetite and Gold Nanoparticles as a Multimodal Tool", *Applied Biochemistry & Biotechnology*, 02, 2020, doi: [10.1007/s12010-020-03280-3](https://doi.org/10.1007/s12010-020-03280-3)
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- Shiva Akbari-Birgania,b,\*, Mitra Khademya, Masoud Mohseni Dargaha, Zahra Madadia, Roya Mokhtar Ahmadabadia, Parviz Davoodi Monfareda. , "Caspases interplay with kinases and phosphatases to determine cell fate. ", European Journal of Pharmacology, 1, 2019, doi: [10.1016/j.ejphar.2019.04.048](https://doi.org/10.1016/j.ejphar.2019.04.048)
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