Curriculum Vitae

Samideh Khoei
Professor of Biophysics

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Academic Background

Professor **(**2016-…)

Department of Medical Physics, School of Medicine, Iran University of Medical Science, Tehran, IRAN

Associate Professor **(**2012-2016)

Department of Medical Physics, School of Medicine, Iran University of Medical Science, Tehran, IRAN

Assistant Professor **(**2005-2012)

Department of Medical Physics, School of Medicine, Iran University of Medical Science, Tehran, IRAN

Postdoctoral Scholar **(**2004-2005)

Laboratory of Biophysics and Molecular Biology, Institute of Biochemistry and Biophysics, University of Tehran, Tehran, IRAN

Ph.D. in Biophysics **(**1998-2004)

Institute of Biochemistry and Biophysics, University of Tehran

- Project "The effect of hyperthermia on level of HSP70 protein and expression of HSP70 mRNA in spheroid and monolayer cultures of DU145 prostate carcinoma cell line".

M.Sc. in Biophysics **(**1995-1998)

Institute of Biochemistry and Biophysics, University of Tehran

- Project "The effect of hyperthermia on the differentiation of LNCaP and PC-3 prostate carcinoma cell lines".

B.Sc. in Zoology **(**1987-1991)

Faculty of Science, University of Esfahan

Positions

Deputy of Research (2019-…)

School of Medicine, Iran University of Medical Science, Tehran, IRAN

Management of Research Development & Education (2018-2019)

Iran University of Medical Science, Tehran, IRAN

Deputy of Basic Medical Sciences (2016-2018)

School of Medicine, Iran University of Medical Science, Tehran, IRAN

Head of Medical Physics department (2013-2019)

Medical Physics Department, School of Medicine, Iran University of Medical Science, Tehran, IRAN

Vice-President of Research at International Campus (2014-2015)

International Campus- Iran University of Medical Science, Tehran, IRAN

Deputy of Education of Medical Physics department (2010-2013)

Medical Physics Department, School of Medicine, Iran University of Medical Science, Tehran, IRAN

Research Officer (2003-2004)

Laboratory of Molecular Research. Faculty of Pharmacy, Tehran University of Medical Science, Tehran, IRAN.

Lecturer (2004-….)

Biotechnology Department, Faculty of Science, University of Tehran.
Institute of Biophysics and Biochemistry, University of Tehran
Biology Department, Faculty of Science, University of Tehran.

Teaching assistant (1998-2004)

Radiation Biophysics, a M.Sc. courses in Biophysics in Institute of Biochemistry and Biophysics, University of Tehran.

Laboratory supervision (1990-1991)

Laboratory of Biochemical Physics, Institute of Biochemistry and Biophysics, University of Tehran.

Teaching

Radiobiology, Radiation protection, Radiation Oncology, Nanobiotechnology, Radiation Biophysics, Biophysics, Radiation Biology, Medical Physics, Cell and Molecular Biology, Genetics

Research Projects Granted

- ”Evaluation of biodistribution and tracing of Doxorubicin carrying Fulic acid conjugated magnetic-fluorescent nanoparticles under the effect of alternative magnetic field in an allograft model of C6 cell line in rat” (2021-…)
- ”Evaluation of the effects of targeted Doxorubicin loaded Platinum based polymeric nanomotors as a sensitizer agent in photothermal therapy on C6 glioblastoma cells” (2021- …)
- ”Evaluation of the cell damages of magnetic hyperthermia and ionizing radiation in the presence of transferrin and folic acid linked magnetic nanoparticles carrying 5-fluorouracil in the retinoblastoma Y79 cancer cell line” (2020-…)
- ”Evaluation of the induce of apoptosis and autophagy in the allograft model of colon cancer in mice treated with triblock copolymer nanoparticles loaded with 5 fluorouracil and radiofrequency hyperthermia” (2019-2021)
- ”Efficiency of magnetic nanoparticles in combination with common treatments chemotherapy radiation therapy and hyperthermia to improve glioblastoma treatment A systematic review and Metanalysis” (2019-2020)
- ”Evaluation of the Effect of Alternating Magnetic Field Hyperthermia on the Response to treatment Induced by Targeted Magnetic Nanoparticles carrying fluorescent dye and Doxorubicin in Allograft model of Glioblastoma C6 cancer cells in rat” (2020-…)
- ”Evaluating the Effects of Targeted Triblock Copolymer Coated Iron Oxide Nanoparticles as a 5 fluorouracil Carrier on Radiosensitiviy of HT29 Colon Cancer Cell Line” (2019-2021)
- ”Evaluation of the Hyperthermia Effect of Radio Frequency waves and Ionizing Radiation on Treatment Damages-Induced by Nano Graphene Oxide as 5-Iodo-2-deoxyuridine in healthy brain tissue of rat-allograft model of glioblastoma C6 cells” (2019-2021)
- ”Evaluation of the Cytotoxic Effects of Ionizing Radiation and Magnetic Hyperthermia in the Presence of Targeted Magnetic Triblock Copolymer Nanoparticle as a 5 fluorouracil Carrier in HT29 Cancer Cell Line” (2018-2020)

- ”Evaluation of the combination effect of ionizing radiation and tri-block copolymer coated magnetic nanoparticles as 5-Fluorouracil chemotherapy drug carrier on induction of apoptosis in human colon adenocarcinoma cell lines HT-29 and HCT116” (2018-2020)
- ”Evaluation of the combination effect of radiofrequency waves and PEG- polyester-PEG coated magnetic nanoparticles as 5-Fluorouracil drug carrier on the induction of apoptosis in human colon adenocarcinoma cell lines HT-29 and HCT116” (2018-2020)
- ”Evaluation of the Effect of Radio Frequency Hyperthermia on Response to Therapy Induced by Targeted Tri-Block Copolymer Nanoparticle With Iron Oxide Core as a Carrier of Temozolomide in Allograft Model of C6 Glioma Cells in Rat” (2017-2020)
- ”Evaluation of the Cytotoxic Effects of Radio Frequency Hyperthermia and Ionizing Radiation in the Presence of Targeted-Magnetic Triblock Copolymer Nanoparticle as a Carrier of Temozolomide in C6 Glioblastoma Cancer Cell Line” (2017-2019)
- ”Evaluation of the effects of Folic acid linked gold nanoparticles as fluorescence material carrier and ionizing radiation on prostate cancer cell line” (2017-2019)
- ” Comparison between the effects of two different polymeric coated Nano-graphene oxide as 5-fluorouracil carrier and radiofrequency on colon cancer in vitro” (2016-2018)
- ” Evaluation of the cytotoxic effects of PLGA coated nano-graphene oxide as 5-fluorouracil carrier and near infrared radiation in vivo” (2016-2018)
- ” Evaluation of the Hyperthermia Effect of Radio Frequency Waves and Ionizing Radiation on Response to Therapy- Induced by Nano Graphene Oxide as 5-Iodo-2-deoxyuridine on the Allograft model of C6 Glioma cells in rat” (2016-2018)
- ” Evaluation of the cytotoxic effects of hyperthermia and chitosan / polycaprolacton coated nano-graphene oxide as 5-fluorouracil carrier on CT26 colon cancer cells in BALB/c mouse” (2016-2018)
- ” Evaluation of the Combined Effect of Near-infrared waves and ionizing radiation on cellular damages induced by polymeric coated Graphene oxide nanostructures as 5-Iodo-2-deoxyuridine carrier in terms of in vitro” (2015-2017)
- ” An investigation of the bystander effect in human melanoma cancer cells (A375) by GRID radiotherapy in vitro” (2015-2016)
- ” Evaluation of the Combined Effects of hyperthermia and PEG/PCL polymeric coated magnetic nanoparticles as 5-Iodo-2-Deoxyuridine carrier on radiosensitivity of U87-MG human glioblastoma cancer cell lines” (2014-2016)

• ” Evaluation of the cytotoxic effects of hyperthermia and polymeric nanoparticles as 5 –fluorouracil carrier with and without iron oxide core in Spheroid model of colon cancer cell line HT-29” (2013-2015)

• ” study of the combination effect of hyperthermia and polymeric nanoparticles as 5 – fluorouracil carrier with and without iron oxide core on DNA damages in Spheroid model of colon cancer cell line HT-29” (2013-2015)

• ” Evaluation of the effect of Methoxyamine on 5-fluorouracil radiosensitivity in the presence of ionizing irradiation in colon cancer cells HT29” (2013-2015)

• ” The Effect of Gold Coated Magnetic Nanoparticles on Radiosensitivity and Thermosensitivity of Cancer Stem Cells of Human Prostate Carcinoma Cell Lines DU145” (2013-2017)

• ” Evaluation of the effect of resveratrol on the cytogenetic damages due to IUdR radiosensitizer in spheroid culture model of glioblastoma with colonogenic and comet assay” (2012-2013)

• “An Investigation into the Effects of 5-fluorouracil Loaded PLGA Coated Paramagnetic Nanoparticles in the Presence of External Magnetic Field and Ultrasonic Waves on Xenograft Model of Human Prostate Carcinoma Cell Line DU145 in Nude Mice” (2012-2014)

• ” Evaluation of the cytotoxic and genotoxic effects of iron oxide nanoparticles as a carrier of 5-Fluorouracil and 6Mv X-ray radiation in DU 145 human prostate carcinoma cell lines” (2012- 2013)

• ” Evaluation of the cytotoxic and genotoxic effects of iron oxide nanoparticles as 5-Fluorouracil carrier DU 145 human prostate carcinoma cell line” (2011-2012)

• ” Study of the effect of radiation therapy by iron oxide nanoparticles on survival fraction of DU-145 human prostate carcinoma cell line in monolayer culture” (2010-2012)

• ” Evaluation of the combination effect of hyperthermia and polymeric nanoparticles as quercetin carrier on the expression of heat shock protein 70 in the spheroid model of prostate carcinoma cell line (DU 145)” (2008- 2010)

• ” Evaluation of the cytotoxic and genotoxic effects of hyperthermia and PEG-polyester-PEG nanoparticles as quercetin carrier on spheroid model of DU 145 human prostate carcinoma cell line” (2007-2009)

• ” Evaluation the effect of 2ME2 and gamma radiation on the level of the cytogenetic damages induced by Iudr in spheroid model of glioblastoma cell line using alkaline comet assay” (2007-2009)

- "Study of the neuroprotective role of PEG–polyester–PEG nanoparticles as quercetin carrier on 6-hydroxydopamine-induced apoptosis in mouse dopaminergic neurons" (2007-2009)
- " Preparation of thermo sensitive and magnetic smart polymers, loading of their nanoparticles with 5-Fluorouracil and investigation on the effect of loaded nanoparticles on DU145 human prostate carcinoma cell line" (2007- 2011)
- " Design of a two dimensional gel analyzer software" (2005-2007)
- "The effect of hyperthermia and Quercetin on heat shock protein 70 expression in spheroid culture model of prostate carcinoma cell line DU 145" (2005-2007)
- "Effects of Phospho-organic toxics on Workers of Pesticide Factory", (2003-2004)
- "The effect of hyperthermia on level of HSP70 protein and expression of HSP70 mRNA in spheroid and monolayer cultures of DU145 prostate carcinoma cell line". (1998-2003)
- "The effect of hyperthermia on the differentiation of LNCaP and PC-3 prostate carcinoma cell lines". (1996-1998)

Publications

Articles

1. Parvin Sadat Mirzaghavami, **Samideh Khoei**, Sepideh Khoee, Sakine Shirvalilou (2022) Folic acid-conjugated magnetic triblock copolymer nanoparticles for dual targeted delivery of 5-fluorouracil to colon cancer cells. *Cancer Nanotechnology*. 13(1), 1-18.
2. Soraya Emamgholizadeh Minaei, **Samideh Khoei**, Sepideh Khoee, Seied Rabi Mahdavi (2022) Sensitization of glioblastoma cancer cells to radiotherapy and magnetic hyperthermia by targeted temozolomide-loaded magnetite tri-block copolymer nanoparticles as a nanotheranostic agent. *Life Sciences*. 120729.
3. Abolhasan Rezaeyan, Somayeh Asadi, S Kamran Kamrava, **Samideh Khoei**, Arash Zare-Sadeghi (2022) Reorganizing brain structure through olfactory training in post-traumatic smell impairment: an MRI study. *Journal of Neuroradiology*. 49(4), 333-342.
4. A Amraee, **S Khoei,** MT Bahreyni-Toossi, H Azimian, F Ansari, F Fallahi, N Robatmili, SH Teshnizi, L Darvish (2022) Evaluation of ultra-small iron oxide nanoparticles as T1-weighted MRI contrast in cancerous tissues: a meta-analysis. *Clinical and Translational Imaging*. 1-9.
5. Afzalipour R., **Khoei S.**, Khoee S., Shirvalilou S., Jamali Raoufi N., Motevalian M., Karimi M.Y. (2021) *Nanomedicine: Nanotechnology, Biology and Medicine*. 31, 102319.
6. Sheervalilou R., Shirvaliloo M., Sargazi S., Shirvalilou S., Shahraki O., Pilehvar-Soltanahmadi Y., Sarhadi A., Nazarlou Z., Ghaznavi H., **Khoei S**. (2021) *Applied Microbiology and Biotechnology.* 105(7), 2615-2624.
7. Sakine Shirvalilou, **Samideh Khoei**, Azam Janati Esfahani, Mahboobeh Kamali, Milad Shirvaliloo, Roghayeh Sheervalilou, Parvin Mirzaghavami (2021) Magnetic Hyperthermia as an adjuvant cancer therapy in combination with radiotherapy versus radiotherapy alone for recurrent/progressive glioblastoma: A systematic review. *Journal of Neuro-Oncology*. 152(3), 419-428.
8. Parvin Sadat Mirzaghavami, **Samideh Khoei**, Sepideh Khoee, Sakine Shirvalilou, Seied Rabi Mahdavi, Vahid Pirhajati Mahabadi (2021) Radio-sensitivity enhancement in HT29 cells through magnetic hyperthermia in combination with targeted nano-carrier of 5-Flourouracil. *Materials Science and Engineering: C.* 124, 112043.
9. Soraya Emamgholizadeh Minaei, Alireza Ghader, Ali Abbasian Ardakani, **Samideh Khoei,** Hamid Asgari, Mohammad Hosein Majles Ara (2021) Z-scan

method to measure the nonlinear optical behavior of cells for evaluating the cytotoxic effects of chemotherapy and hyperthermia treatments. *Lasers in Medical Science*. 36(5), 1067-1075.

10. Kianoush Karimipour, Jaber Keyvan Rad, Sakine Shirvalilou, **Samideh Khoei**, Ali Reza Mahdavian (2021) Spiropyran-based photoswitchable acrylic nanofibers: A stimuli-responsive substrate for light controlled C6 glioma cells attachment/detachment. *Colloids and Surfaces B: Biointerfaces*. 203, 11731.
11. Leila Kiamohammadi, Leili Asadi, Sakine Shirvalilou, **Samideh Khoei**, Sepideh Khoee, Maryam Soleymani, Soraya Emamgholizadeh Minaei (2021) Physical and Biological Properties of 5-Fluorouracil Polymer-Coated Magnetite Nanographene Oxide as a New Thermosensitizer for Alternative Magnetic Hyperthermia and a Magnetic Resonance Imaging Contrast Agent: In Vitro and In Vivo Study. *ACS omega*. 6(31), 20192-20204.
12. **Samideh Khoei**, Vahid Hosseini, Mehdi Hosseini, Sepideh Khoee, Sakine Shirvalilou, Seied Rabi Mahdavi, Jalil Pirayesh Islamian (2021) Enhancement of radio-thermo-sensitivity of 5-iodo-2-deoxyuridine-loaded polymeric-coated magnetic nanoparticles triggers apoptosis in U87MG human glioblastoma cancer cell line. *Cellular and Molecular Bioengineering.* 14(4), 365-377.
13. Saba Jahangiri, Samideh Khoei, Sepideh Khoee, Majid Safa, **Sakine Shirvalilou**, Vahid Pirhajati Mahabadi (2021) Potential anti-tumor activity of 13.56 MHz alternating magnetic hyperthermia and chemotherapy on the induction of apoptosis in human colon cancer cell lines HT29 and HCT116 by up-regulation of Bax, cleaved caspase 3&9, and cleaved PARP proteins. *Cancer Nanotechnology.* 12(1), 1-17.
14. Golbaz R., **Khoei S.,** Khoee S., Shirvalilou S., Safa M., Mahdavi S.R., Karimi M.R. (2020) Apoptosis pathway in the combined treatment of x-ray and 5-FU-loaded triblock copolymer-coated magnetic nanoparticles. *Nanomedicine*. 15(23), 2255-2270.
15. Minaei S.E., Ghader A., Abbasian Ardakani A., Khoei S., Majles Ara M.H. (2020) Assessment of the non-linear optical behavior of cells for discrimination between normal and malignant glial cells. *Laser Physics*. 30(12), 125601.
16. Changizi O., **Khoei S.**, Mahdavian A., Shirvalilou S., Mahdavi SR, Rad JK. (2020) Enhanced radiosensitivity of LNCaP prostate cancer cell line by gold-photoactive nanoparticles modified with folic acid. *Photodiagnosis and Photodynamic Therapy* 29, 101602.
17. Sheervalilou R., Shirvaliloo M., Dadashzadeh N., Shirvalilou S., Shahraki O., Pilehvar-Soltanahmadi Y., Ghaznavi H., **Khoei S.**, Nazarlou Z. (2020) COVID-19

under spotlight: A close look at the origin, transmission, diagnosis, and treatment of the 2019-nCoV disease. *Journal of Cellular Physiology*. 235(12), 8873-8924.

18. Shirvalilou S., **Khoei S.,** Khoee S., Mahdavi SR, Jamali Raoufi N., Motevalian M., Karimi MY. (2020) Enhancement radiation-induced apoptosis in C6 glioma tumor-bearing rats via pH-responsive magnetic graphene oxide nanocarrier. *Journal of Photochemistry and Photobiology B: Biology* 205, 111827.
19. Rajaee Z., **Khoei S.**, Mahdavian A., Shirvalilou S., Mahdavi SR, Ebrahimi M. (2020) Radio-thermo-sensitivity Induced by Gold Magnetic Nanoparticles in the Monolayer Culture of Human Prostate Carcinoma Cell Line DU145. *Anti-Cancer Agents in Medicinal Chemistry* (Formerly Current Medicinal Medicinal Chemistry-Anti-Cancer Agents) 20(3), 315-324.
20. Alipour Fayez E., Farajihaye Qazvini F., Mahmoudi SM, **Khoei S.**, Vesaltalab M., Teimourian S. (2020) Diagnosis of radiosensitive severe combined immunodeficiency disease (RS-SCID) by Comet Assay, management of bone marrow transplantation. *Immunobiology*, 151961.
21. Afzalipour R., **Khoei S.**, Khoee S., Shirvalilou S., Jamali Raoufi N., Motevalian M., Karimi MR (2019) Dual-targeting temozolomide loaded in folate-conjugated magnetic triblock copolymer nanoparticles to improve the therapeutic efficiency of rat brain gliomas. *ACS Biomaterials Science & Engineering* 5 (11), 6000-6011.
22. Beik j., Asadi M., **Khoei S.**, Laurent S., Abed Z., Mirrahimi M., Farashahi A., Hashemian R., Ghaznavi H., Shakeri-Zadeh A. (2019) Simulation-guided photothermal therapy using MRI-traceable iron oxide-gold nanoparticle. *Journal of Photochemistry and Photobiology B: Biology* 199, 111599.
23. Shirvalilou S., **Khoei S.**, Khoee S. (2019) In vivo 3T Magnetic Resonance Imaging (MRI) of Rat Brain GliomaBearing Tumor: A Comparison with Digital Caliper Measurement and Histology. *Frontiers in Biomedical Technologies* 6(2), 73-78.
24. Heshmati M., Bidgoli SA, **Khoei S.**, Mahmoudzadeh A., Sorkhabadi SMR (2019) Cytotoxicity and genotoxicity of silver nanoparticles in Chinese Hamster ovary cell line (CHO-K1) cells. *The Nucleus* 62 (3), 221-225.
25. Irajirad R., Ahmadi A., Khalili Najafabad B., Abed Z., Sheervalilou R., **Khoei S.**, Shiran MB, Ghaznavi H., Shakeri-Zadeh A. (2019) Combined thermo-chemotherapy of cancer using 1 MHz ultrasound waves and a cisplatin-loaded sonosensitizing nanoplatform: an in vivo study. *Cancer Chemotherapy and Pharmacology* 84 (6), 1315-1321.
26. Keyvan Rad J., Alinejad Z., **Khoei S.**, Mahdavian AR (2019) Controlled Release and Photothermal Behavior of Multipurpose Nanocomposite Particles Containing

Encapsulated Gold-Decorated Magnetite and 5-FU in Poly (lactide-co-glycolide). *ACS Biomaterials Science & Engineering* 5 (9), 4425-4434.

27. Minaei S.E., **Khoei S.**, Khoee S., Vafashoar F., Pirhajati Mahabadi V. (2019) In vitro anti-cancer efficacy of multifunctionalized magnetite nanoparticles combining alternating magnetic hyperthermia in glioblastoma cancer cells. *Material Science and Engineering: C*. 101: 575-587.
28. Ghader A., Mohammadi Gazestani A., Minaei S.E., Abbasian Ardakani A., **Khoei S.,** Mohajer S., Majles Ara M.H. (2019) Evaluation of nonlinear optical behavior of mouse colon cancer cell line CT26 in hyperthermia treatment. *Lasers in Medicine*. 1-9.
29. Minaei S.E., **Khoei S.**, Khoee S. (2019) Tri-Block Copolymer Nanoparticles Modified with Folic Acid for Temozolomide Delivery in Glioblastoma. *The international journal of biochemistry & cell biology*. 108: 72-83.
30. Mahdavi S.R., Janati Esfahani A., **Khoei S.**, Bakhshandeh M., Rajabi A. (2019) Capacitive hyperthermia as an alternative to brachytherapy in DNA damages of human prostate cancer cell line (DU-145). *International Journal of Radiation Biology*, 95(2): 193-200.
31. Shirvalilou S., **Khoei S.,** Khoee S., Raoufi N.J., Karimi M.R., Shakeri-Zadeh A. (2018) Development of a magnetic nano-graphene oxide carrier for improved glioma-targeted drug delivery and imaging: In vitro and in vivo evaluations. *Chemico-biological interactions* 295, 97-108.
32. Rezaie P., **Khoei S**., Khoee S., Shirvalilou S., Mahdavi S.R. (2018) Evaluation of combined effect of hyperthermia and ionizing radiation on cytotoxic damages induced by IUdR-loaded PCL-PEG-coated magnetic nanoparticles in spheroid culture of of U87MG glioblastoma cell line. *International journal of radiation biology*, 94(11): 1027-1037.
33. Keyvan Rad J., Mahdavian A.R., **Khoei S.**, Shirvalilou S. (2018) Enhanced photogeneration of reactive oxygen species and targeted photothermal therapy of C6 glioma brain cancer cells by folate-conjugated gold-photoactive polymer nanoparticles. *ACS applied materials & interfaces*. 10(23): 19483-19493.
34. Abed Z., **Khoei S.,** Ghalandari B., Beik J., Shakeri-Zadeh A., Ghaznavi H., Shiran M.B. (2018) The Measurement and Mathematical Analysis of 5-Fu Release from Magnetic Polymeric Nanocapsules, following the Application of *Ultrasound*. *Anti-Cancer Agents in Medicinal Chemistry* 18(3): 438-449.
35. Shabani R., Ashjari M., Ashtari K., Izadyar F., Behnam B., Khoei S., Asghari-Jafarabadi M., Korouji M. (2018) Elimination of mouse tumor cells from neonate

spermatogonial cells utilizing cisplatin-entrapped folic acid-conjugated poly (lactic-co-glycolic acid) nanoparticles in vitro. *International journal of nanomedicine* 13, 2943

36. Asadi L., Shirvalilou S., Khoee S., **Khoei S.** (2018) Cytotoxic effect of 5-Fluorouracil-loaded polymer-coated magnetite nanographene oxide combined with radiofrequency. *Anti-Cancer Agents in Medicinal Chemistry*. 18(8): 1148-1155.
37. Mohammadi Gazestani A., **Khoei S.**, Khoee S., Minaei S.E., Motevalian M. (2018) In vivo evaluation of the combination effect of near-infrared laser and 5-fluorouracil-loaded PLGA-coated magnetite nanographene oxide. *Artificial Cells, Nanomedicine, and Biotechnology.* 46 (Sup2): 25-33.
38. Kargar S., **Khoei S.**, Khoee S., Shirvalilou S., Mahdavi S.R. (2018) Evaluation of the combined effect of NIR laser and ionizing radiation on cellular damages induced by IUdR-loaded PLGA-coated Nano-graphene oxide. Photodiagnosis and Photodynamic Therapy. 21: 91-7.
39. Rajaee Z., **Khoei S.**, Mahdavi S.R., Ebrahimi M., Shirvalilou S., Mahdavian A. (2018) Evaluation of the effect of hyperthermia and electron radiation on prostate cancer stem cells. *Radiation and Environmental Biophysics*. 57:133–42.
40. Abbasian Ardakani A., Rajaee J., **Khoei S.** (2017) Diagnosis of human prostate carcinoma cancer stem cells enriched from DU145 cell lines changes with microscopic texture analysis in radiation and hyperthermia treatment using run-length matrix. *International Journal of Radiation Biology*. 93(11): 1248-56.
41. Abed Z., **Khoei S.**, Ghalandari B., Beik J., Shakeri-Zadeh A., Ghaznavi H., Shiran M.B. (2017) The Measurement and Mathematical Analysis of 5-Fu Release from Magnetic Polymeric Nanocapsules, following the Application of Ultrasound. *Anti-Cancer Agents in Medicinal Chemistry*. 21. doi: 10.2174/1871520617666170921124951.
42. Cheraghi S., Nikoofar A., Bakhshandeh M., **Khoei S.**, Farahani S., Abdollahi H., Mahdavi S.R. (2017) Normal tissue complication probability modeling of radiation-induced sensorineural hearing loss after head-and-neck radiation therapy. *International Journal of Radiation Biology*. 93(12): 1327-33.
43. Eynali S., **Khoei S.**, Khoee S., Esmaelbeygi E. (2017) Evaluation of the Cytotoxic Effects of Hyperthermia and 5-Fluorouracil Loaded Magnetic Nanoparticles on Human Colon Cancer Cell Line HT-29. *International Journal of Hyperthermia.* 33(3): 327-35.
44. Mousavi M., Nedaei H.A., **Khoei S.**, Eynali S., Khoshgard K., Robatjazi M., Iraji Rad R. (2017) Enhancement of radiosensitivity of melanoma cells by pegylated

gold nanoparticles under irradiation of megavoltage electrons. *International Journal of Radiation Biology*, 93(2): 214-21.

45. **Khoei S.**, Poorabdollahi R., Mostaar A., Faeghi F. (2017) Methoxyamine Enhances 5-Fluorouracil-Induced Radiosensitization in Colon Cancer Cell Line HT29. *Cell Journal*. 19(2): 283-91.
46. Mahdavi S.R., Esfahani A.J., Shiran M.B., **Khoei S.,** Estiri N. (2017) Enhanced DNA Damages of Human Prostate Cancer Cells Induced by Radiofrequency Capacitive Hyperthermia Pre-and Post X-rays: 6 MV versus 15 MV. *Cell Journal*. 19 (Suppl 1): 79-85.
47. Esfahani A.J., Mahdavi S.R., Shiran M.B., **Khoei S.** (2017) The Role of Radiofrequency Hyperthermia in The Radiosensitization of A Human Prostate Cancer Cell Line. *Cell Journal*. 19 (Suppl 1): 86-95.
48. Abed Z., Beik J., Khoee S., **Khoei S.**, Shakeri-Zadeh A., Shiran M.B. (2016) Effects of Ultrasound Irradiation on the Release Profile of 5-fluorouracil from Magnetic Polylactic co-glycolic Acid Nanocapsules. *Journal of Biomedical Physics and Engineering.* 6(3):
49. Keyvan Rad J., Mahdavian A.R., **Khoei S**., Janati Esfahani A. (2016) FRET-based acrylic nanoparticles with dual-color photoswitchable properties in DU145 human prostate cancer cell line labeling. *Polymer*. 98 (263-9).
50. Refahi S., Minaei B., Haddadi G.H., **Khoei S.**, Bakhtiarian A., Pourissa M., Takavar A. (2016) Histopathological Evaluation of the Effectiveness of Glycyrrhizic Acid as a Radioprotector Against the Development of Radiation-Induced Lung Fibrosis. *Iranian Journal of Radiology* 13 (2): e21012
51. Naseroleslami M., Parivar K., **Khoei S.**, Aboutaleb N. (2016) MR imaging of human-derived amniotic membrane stem cells using PEGylated SPIONs. *Cell Journal*. 18(3): 332-9.
52. **Khoei S.**, Shoja M., Mostaar A., Faeghi F. (2016) Effects of resveratrol and methoxyamine on the radiosensitivity of iododeoxyuridine in U87MG glioblastoma cell line. *Experimental Biology and Medicine*. 241(11):1229-36.
53. Refahi S., Minaei B., Hadadi G.H., **Khoei S.**, Bakhtiyarian A., Pourissa M., Takavar A. (2016) Histopathological Evaluation of the Effectiveness of Glycyrrhizic Acid as a Radioprotector Against the Development of Radiation-Induced Lung Fibrosis. *Iranian Journal of Radiology.* In press.
54. Naseroleslami M., Parivar K., **Khoei S.**, Aboutaleb N. (2015) Optimal concentration of PEG-coated Fe_3O_4 nanoparticles for generation of reactive oxygen species in human-derived amniotic membrane stem cells. *Advanced Studies in Biology*. 7(8): 377-88.

55. Esmaelbeygi E., **Khoei S.**, Khoee S., Eynali S. (2015) Role of iron oxide core of polymeric nanoparticles in the thermosensitivity of colon cancer cell line HT-29. *International Journal of Hyperthermia*. 31(5):489-97.
56. Meidanchi A., Akhavan O., **Khoei S.**, Shokri A.A., Hajikarimi Z., Khansari N. (2015) ZnFe2O4 nanoparticles as radiosensitizers in radiotherapy of human prostate cancer cells. *Materials Science and Engineering C.* 46, 394-399.
57. Shakeri-Zadeh A., Khoee S., Shiran M.B., Sharifi A.M., **Khoei S.** (2015) Synergistic effects of magnetic drug targeting using a newly developed nanocapsule and tumor irradiation by ultrasound on CT26 tumors in BALB/c mice. *Journal of Materials Chemistry B.* 3, 1879-1887.
58. Firouzi F., **Khoei S.,** Mirzaei H.R. (2015) Role of Resveratrol on the Cytotoxic Effects and DNA damages of Iododeoxyuridine and Megavoltage Radiation in Spheroid Culture of U87MG Glioblastoma Cell Line. *General Physiology and Biophysics.* 34: 43-50.
59. Shakeri-Zadeh A., **Khoei S.,** Khoee S., Sharifi A.M., Shiran M.B. (2015) Combination of Ultrasound and Newly Synthesized Magnetic Nanocapsules Affects the Temperature Profile of CT26 Tumors in BALB/c Mice. *Journal of Medical Ultrasonics*. 42: 9-16.
60. Heshmati M., Arbabi Bidgoli S., **Khoei S.,** Rezayat S.M., Parivar K. (2015) Mutagenic Effects of Nanosilver Consumer Products: a new Approach to Physicochemical Properties. *International Journal of Pharmaceutical Research*. 14 (4): 1171-1180.
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