

Assoc. Prof. PELİN MUTLU

Personal Information

Office Phone: [+90 312 210 6403](tel:+903122106403)

Fax Phone: [+90 312 210 6477](tel:+903122106477)

Email: pmutlu@metu.edu.tr

Web: <https://avesis.metu.edu.tr/pmutlu>

International Researcher IDs

ScholarID: 6tCIRTIAAAAJ

ORCID: 0000-0001-7970-880X

Publons / Web Of Science ResearcherID: AAZ-6710-2021

ScopusID: 26032190300

Yoksis Researcher ID: 218134

Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoloji (Dr), Turkey 2002 - 2009

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoteknoloji (YI) (Tezli), Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1996 - 2000

Dissertations

Doctorate, İlaç Dirençli Multipl Myeloma Hücre Hatlarında Farklı Gen Anlatım Analizleri, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoloji (Dr), 2009

Postgraduate, Lösemi Hastalarında Çoklu İlaç Dirençliliği Genindeki Polimorfizmlerin Belirlenmesi, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoteknoloji (YI) (Tezli), 2002

Research Areas

Natural Sciences

Advising Theses

MUTLU P., GÜNDÜZ U., Targeted co-delivery of doxorubicin and TPGS to breast cancer cells by PLGA coated magnetic nanoparticles, Postgraduate, E.METİN(Student), 2017

GÜNDÜZ U., MUTLU P., The Role of NEK6 gene expression in multidrug resistance and apoptosis in MCF-7 and K-562 cell lines, Postgraduate, A.Nabioğlu(Student), 2015

MUTLU P., Nek6'nın k-562 ve mcf-7 hücre hatlarında çoklu ilaç dirençliliği ve apoptozdaki işlevleri, Postgraduate, A.NABIOĞLU(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vancomycin Containing PDLLA and PLGA/β-TCP Inhibit Biofilm Formation but Do Not Stimulate Osteogenic Transformation of Human Mesenchymal Stem Cells**
Kankilic B., Bayramli E., KORKUSUZ P., EROĞLU H., ŞENER B., MUTLU P., KORKUSUZ F.
Frontiers in Surgery, vol.9, 2022 (SCI-Expanded)
- II. **Differential gene expression analysis related to extracellular matrix components in drug-resistant RPMI-8226 cell line**
MUTLU P., Ural A. U., GÜNDÜZ U.
BIOMEDICINE & PHARMACOTHERAPY, vol.66, no.3, pp.228-231, 2012 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Targeting ability and internalization of gemcitabine loaded polyhydroxybutyrate coated magnetic nanoparticles on breast cancer cell lines.**
Parsian M., MUTLU P., YALÇIN AZARKAN S., Gündüz U.
Uluslararası katılımlı 7. Multidisipliner Kanser Araştırma 1. Temel Onkoloji Kongresi, Turkey, 11 - 14 October 2018
- II. **Polyhydroxybutyrate (Phb) Coated Magnetic Nanoparticles For Targeting Delivery of Gemcitabine.**
Parsian M., MUTLU P., YALÇIN AZARKAN S., Gündüz U.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- III. **The effect of Vitamin E TPGS on Drug loading, release and accumulation capacities of PLGA coated magnetic nanoparticles**
METİN E., MUTLU P., GÜNDÜZ U.
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.2474
- IV. **The Effect of Vitamin E TPGS on Drug Resistance in Breast Cancer Cells**
METİN E., MUTLU P., GÜNDÜZ U.
International Advanced Researches and Engineering Congress-2017, Osmaniye, Korkut Ata Univ., Turkey, 16 - 18 November 2017, pp.2469
- V. **Gene expression analysis related to drug resistance and wnt signaling pathway in doxorubicin resistant K562 cell line.**
MUTLU P., YALÇIN AZARKAN S., Taghavi Pourianazar N., Meral Y., GÜNDÜZ U.
XV. Ulausal Tıbbi Biyoloji ve Genetik Kongresi, Turkey, 26 - 28 October 2017
- VI. **Differential Gene Expression Analysis Related To Wnt Signaling Pathway In Doxorubicin Resistant Hela Cell Line**
MUTLU P., YALÇIN AZARKAN S., Taghavi Pourianazar N., Meral Y., GÜNDÜZ U.
International DNA Day And Genome Congress, 24 - 28 April 2017
- VII. **Doxorubicin Loaded Dextran Coated Magnetic Nanoparticles Affect on Cytokines Gene Expression in Breast Cancer Cell Line**
YALÇIN AZARKAN S., MUTLU P., GÜNDÜZ U.
International DNA Day And Genome Congress, 24 - 28 April 2017
- VIII. **Doksorubisin üklü Dekstran kaplı manyetik nanoparçacıkların MCF-7 meme kanseri hücre hattında sitokin genlerinin ifade düzeyleri üzerindeki etkileri**
YALÇIN AZARKAN S., MUTLU P., GÜNDÜZ U.
II. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 23 - 25 February 2017
- IX. **Synthesis of PLGA Coated Magnetic Nanoparticles for Co Delivery of Cancer Drug and Vitamin E TPGS**
Metin E., MUTLU P., GÜNDÜZ U.
6. Multidisipliner Kanser Araştırma Kongresi, Konya, Turkey, 27 - 30 October 2016
- X. **Gemsitabin Yüklü Yarınl Jenerasyon PAMAM Dendrimer Kaplı Manyetik Nanoparçacıkların Meme Kanseri Hücre Hatları Üzerindeki Sitotoksik Etkileri**

- Parsian M., MUTLU P., YALÇIN AZARKAN S., TEZCANER A., GÜNDÜZ U.
I. Yaşam Bilimleri Sempozyumu, Kayseri, Turkey, 23 - 24 February 2016
- XI. **Nek6 nın K562 Hücre Hatlarında Çoklu İlaç Dirençliliği ve Apoptoz Üzerindeki Etkileri**
Nabioğlu A., MUTLU P., YALÇIN AZARKAN S., GÜNDÜZ U.
I. Yaşam Bilimleri Sempozyumu, Turkey, 23 - 24 February 2016
- XII. **Cellular internalization of Bortezomib loaded CS MNPs by cervical cancer cells**
Unsoy G., Yalcin S., Khodadust R., MUTLU P., Pourianazar N. T., GÜNDÜZ U.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.443-444
- XIII. **Conjugation of gemcitabine to PAMAM dendrimer-coated magnetic nanoparticles for targeted delivery**
Parsian M., PourianAzar N. T., Yalcin S., MUTLU P., GÜNDÜZ U.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.449-450
- XIV. **Effect of doxorubicin loaded CS MNPs on cell proliferation in sensitive and doxorubicin resistant MCF-7 cell lines**
Unsoy G., Khodadust R., Yalcin S., MUTLU P., Pourianazar N. T., Parsian M., GÜNDÜZ U.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.457-458
- XV. **Loading and release efficiencies of Bortezomib on chitosan coated magnetic nanoparticles**
Unsoy G., Yalcin S., Khodadust R., MUTLU P., Pourianazar N. T., GÜNDÜZ U.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.140-141
- XVI. **Chitosan-coated magnetic nanoparticles as vehicles for the delivery of the antitumor drug gemcitabine**
Parsian M., Unsoy G., MUTLU P., Yalcin S., PourianAzar N. T., GÜNDÜZ U.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.445
- XVII. **Expression of multidrug resistance 1, lung resistance protein and breast cancer resistance protein genes in chronic lymphocytic and chronic myelogeneous leukemia.**
Ural A. U., Iseri O. D., Mutlu P. K., Kars M. D., Avcu F., Gunduz U., İlhan O.
48th Annual Meeting of the American-Society-of-Hematology, Florida, United States Of America, 9 - 12 December 2006, vol.108

Metrics

Publication: 46
Citation (WoS): 580
Citation (Scopus): 457
H-Index (WoS): 9
H-Index (Scopus): 9