

Prof. UFUK GÜNDÜZ

Personal Information

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Biography

Prof. Dr. Ufuk Gündüz works as a professor (retired, 2018) of Molecular Biology and Genetics in Middle East Technical University, Biological Sciences Department. Her research subjects are Cancer molecular biology, drug resistance, anti-cancer drug targeting by using polymeric nanoparticles.

Another line of research of Dr. Gündüz is related to Biohydrogen production by photosynthetic bacteria. Dr. Gündüz' s scientific publications are cited more than 4700 times in international journals.

Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1975 - 1980

Postgraduate, Iowa State University, United States Of America 1973 - 1975

Undergraduate, Iowa State University, Kimya Mühendisliği, United States Of America 1968 - 1970

Dissertations

Doctorate, Study of Isoacceptors of tRNAs During Chicken Development, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1980

Postgraduate, The properties of xylanase from *Aspergillus niger*, Iowa State University, 1975

Research Areas

Health Sciences, Basic Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, 1990 - Continues

Academic and Administrative Experience

Middle East Technical University, Graduate School of Natural and Applied Sciences, 1996 - 2002

Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoteknoloji (YI) (Tezli), 1991 - 1992

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1988 - 1991

Advising Theses

- EROĞLU İ., GÜNDÜZ U., Immobilization of bacteriorhodopsin on synthetic membrane, Postgraduate, V.Sediroğlu(Student), Continues
- GÜNDÜZ U., The effects of palbociclib on 2d and 3d cell cultures and doxorubicin resistance, Postgraduate, G.Damla(Student), 2020
- GÜNDÜZ U., The role of 15-LOX-1 in resistance to chemotherapeutics, Doctorate, H.Hüseyin(Student), 2020
- GÜNDÜZ U., Investigation of the role of programmed cell death 10 (PDCD10) protein in multidrug resistance, Doctorate, Ç.URFALI(Student), 2018
- Bayramoğlu T. H., Gündüz U., Investigating the effects of operational parameters on photofermentation in batch and semi-batch reactors and the applications of photofermentation in multi-stage energy systems, Postgraduate, M.CAN(Student), 2018
- 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., Targeted delivery of CpG-oligodeoxynucleotide to breast cancer cells by poly-amidoamine dendrimer-modified magnetic nanoparticles, Doctorate, N.TAGHAVİ(Student), 2016
- 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
- GÜNDÜZ U., The roles of protein kinase D2 in chemoresistant breast cancer cell lines, Postgraduate, A.ALPSOY(Student), 2014
- GÜNDÜZ U., Synthesis and characterization of polyethylene glycol coated magnetic nanoparticles and their use for anti-cancer drug delivery, Postgraduate, M.ERDEM(Student), 2014
- GÜNDÜZ U., Synthesis and characterization of polymeric magnetic nanoparticles loaded by gemcitabine /, Postgraduate, M.PARSİAN(Student), 2014
- GÜNDÜZ U., Metastatic behaviour of doxorubicin resistant MCF-7 breast cancer cells after vimentin silencing, Postgraduate, O.TEZCAN(Student), 2013
- GÜNDÜZ U., Reversal of multidrug resistance in MCF-7 breast adenocarcinoma cell line by silencing interleukin 6 with RNA interference, Postgraduate, N.ÇAKMAK(Student), 2013
- GÜNDÜZ U., THE PREPARATION AND CHARACTERIZATION OF DENDRIMER COATED MAGNETIC NANOPARTICLES FOR TARGETED CANCER THERAPY, Doctorate, R.KHODADUST(Student), 2013
- GÜNDÜZ U., The synthesis and characterization of doxorubicin and bortezomib loaded magnetic nanoparticles for targeting tumor cells, Doctorate, G.ÜNSOY(Student), 2013
- GÜNDÜZ U., Reversal of breast cancer resistance protein mediated multidrug resistance in MCF7 breast adenocarcinoma cell line, Postgraduate, Ç.URFALI(Student), 2012
- GÜNDÜZ U., Preparation of polyethylene glycol coated magnetic nanoparticles for targeting of cancer cells, Postgraduate, T.KESKİN(Student), 2012
- GÜNDÜZ U., Synthesis of Poly(dl-lactic-co-glycolic acid) coated magnetic nanoparticles for anti-cancer drug delivery, Postgraduate, G.TANSİK(Student), 2012
- GÜNDÜZ U., Hydrogen and poly-beta hydroxy butyric acid production and expression analyses of related genes in Rhodobacter capsulatus at different acetate concentrations, Postgraduate, B.ÖZSOY(Student), 2012
- GÜNDÜZ U., Reversal of paclitaxel resistance in MCF-7 cell line by a chemical modulator elacridar, Postgraduate, E.ÇİĞDEM(Student), 2012
- GÜNDÜZ U., Genome-wide variation analysis of formalin fixed paraffin embedded pulmonary metastatic tumor samples of osteosarcoma patients, Postgraduate, Z.NİL(Student), 2012
- GÜNDÜZ U., Investigation of telomerase activity and gene expression in colorectal cancer, Postgraduate, A.İZGİ(Student), 2012
- GÜNDÜZ U., Photofermentative hydrogen production using dark fermentation effluent of sugar beet thick juice by Rhodobacter capsulatus, Postgraduate, E.ÖZKAN(Student), 2011
- GÜNDÜZ U., Kinetic analyses of the effects of temperature and light intensity on growth, hydrogenm production and organic acid utilization by rhodobacter capsulatus, Postgraduate, P.Sevinç(Student), 2010
- GÜNDÜZ U., Reversal of multidrug resistance by small interfering RNAs (siRNA) in doxorubicin resistant MCF-7 breast cancer cells, Postgraduate, Y.DÖNMEZ(Student), 2010

GÜNDÜZ U., Deletion mutation of GlnB and GlnK genes in rhodobacter capsulatus to enhance biohydrogen production, Postgraduate, G.PEKGÖZ(Student), 2010

GÜNDÜZ U., Kinetic analyses of the effects of temperature and light intensity on growth, hydrogen production and organic acid utilization by rhodobacter capsulatus, Postgraduate, P.SEVİNÇ(Student), 2010

GÜNDÜZ U., Development and investigation of etoposide resistance in MCF-7 breast cancer cell line, Postgraduate, E.KAPLAN(Student), 2010

GÜNDÜZ U., Differential gene expression analysis in drug resistant multiple myeloma cell lines, Doctorate, P.MUTLU(Student), 2009

GÜNDÜZ U., Investigation of docetaxel and doxorubicin resistance in MCF-7 breast carcinoma cell line, Doctorate, Ö.DARCANSOY(Student), 2009

GÜNDÜZ U., Poly (DL-lactic-co-glycolic acid) microparticles and synthetic peptide drug conjugate for anti-cancer drug delivery, Postgraduate, G.PETEK(Student), 2009

GÜNDÜZ U., Improvement of biohydrogen production by genetic manipulations in Rhodobacter sphaeroides O.U.001, Doctorate, G.KARS(Student), 2008

GÜNDÜZ U., Expression analysis of nitrogenase genes in Rhodobacter sphaeroides O.U.001 grown under different physiological conditions, Postgraduate, S.AKKÖSE(Student), 2008

GÜNDÜZ U., Molecular mechanisms of vincristine and paclitaxel resistance in MCF-7 cell line, Doctorate, M.DEMİREL(Student), 2008

GÜNDÜZ U., Synthesis and characterization of fatty acid based hyperbranched polymers for anti-cancer drug delivery, Postgraduate, E.GÜÇ(Student), 2008

GÜNDÜZ U., Investigation of telomerase activity in diagnosis of endometrial and cervical cancer, Postgraduate, U.ESKİOCAK(Student), 2007

GÜNDÜZ U., Development of helical tubular reactor for hydrogen producing photosynthetic bacteria, Postgraduate, S.SARI(Student), 2007

GÜNDÜZ U., Preparation and evaluation of polymer based microcarriers for hydrophobic anti-cancer drugs, Postgraduate, D.DEMETÇİ(Student), 2007

GÜNDÜZ U., Multidrug resistance mechanisms in imatinib resistant human chronic myeloid leukemia cells, Doctorate, Y.BARAN(Student), 2006

GÜNDÜZ U., Biological hydrogen production from olive mill wastewater and its applications to bioremediation, Doctorate, E.EROĞLU(Student), 2006

GÜNDÜZ U., Preparation and characterization of poly (D, L-lactide-co-glycolide) microspheres for controlled release of anticancer drugs, Postgraduate, G.EYÖVGE(Student), 2005

GÜNDÜZ U., Multidrug resistance in locally advanced breast cancer, Doctorate, M.Can(Student), 2004

GÜNDÜZ U., Transcriptional analysis of hydrogenase genes in Rhodobacter sphaeroides O.U.001, Postgraduate, N.DOĞRUSÖZ(Student), 2004

GÜNDÜZ U., Multidrug resistance in locally advanced breast, Doctorate, M.CAN(Student), 2004

GÜNDÜZ U., Controlled release systems for anticancer drugs and drug targeting in cancer therapy, Doctorate, A.MUVAFFAK(Student), 2003

GÜNDÜZ U., Expression of multidrug resistance associated protein (MRP) in doxorubicin selected HL60 cell line., Postgraduate, B.GÜR(Student), 2002

EROĞLU İ., GÜNDÜZ U., Hydrogen production from olive mill wastewater by rhodobacter sphaeroides o.u,001., Postgraduate, E.Eroğlu(Student), 2002

EROĞLU İ., GÜNDÜZ U., Hydrogen production by rhodobacter sphaeroides O.U.001 in a solar bioreactor., Postgraduate, A.Tabanoğlu(Student), 2002

GÜNDÜZ U., Expression of MDR1 gene in HL60 selected with vincristine., Postgraduate, Y.Baran(Student), 2002

GÜNDÜZ U., Identification of polymorphisms in multidrug resistance gene in leukemia patients, Postgraduate, P.KAYA(Student), 2002

GÜNDÜZ U., Hydrogen production from olive mill wastewater by Rhodobacter sphaeroides O. U. 001, Postgraduate, E.EROĞLU(Student), 2002

GÜNDÜZ U., Expression of MDR 1 gene in HL 60 cells selected with vincristine, Postgraduate, Y.BARAN(Student), 2002

GÜNDÜZ U., Hydrogen production by Rhodobacter sphaeroides in a solar bioreactor, Postgraduate,

A.TABANOĞLU(Student), 2002

GÜNDÜZ U., Drug resistance mediated by MRP gene in breast cancer, Postgraduate, D.ÖGAN(Student), 2002

GÜNDÜZ U., Drug resistance mediated by MRP gene in breast cancer., Postgraduate, O.Demir(Student), 2002

GÜNDÜZ U., Hydrogen metabolism and factors affecting hydrogen production in rhodobacter sphaeroides, Postgraduate, H.KOKU(Student), 2001

GÜNDÜZ U., Investigation of polyhydroxybutyrate (PHB) production by rhodobacter sphaeroides O.U.001, Postgraduate, D.SULUDERE(Student), 2001

GÜNDÜZ U., Multidrug resistance in chronic lymphocytic leukemia, Postgraduate, S.Şimşek(Student), 2000

GÜNDÜZ U., Multidrug resistance in chronic lymphocytic leukemia, Postgraduate, S.ŞİMŞEK(Student), 2000

GÜNDÜZ U., Southern analysis of *Torula thermophila* genome for the multiplicity of cellulase genes, Postgraduate, Ş.BETÜL(Student), 2000

GÜNDÜZ U., Purification and characterization of bacteriocins produced by *pediococcus acidilactici* and *pediococcus pentosaceus*, Doctorate, Ö.OSMANAĞAOĞLU(Student), 1999

GÜNDÜZ U., Identification of hydrogenase from rhodobacter species and hydrogen gas production in photobioreactors, Postgraduate, S.TÜRKARSLAN(Student), 1999

GÜNDÜZ U., Characterization of *Aspergillus oryzae* transformed with a plasmid carrying α -Amylase gene, Postgraduate, G.Tolun(Student), 1999

GÜNDÜZ U., Purification and characterization of bacteriocins produced by *pediococcus acidilactici* and *pediococcus pentosaceus*, Doctorate, Ö.Osmanağaoğlu(Student), 1999

GÜNDÜZ U., Photoproduction of hydrogen from wastewater of a sugar refinery by rhodobacter sphaeroides O.U. 001, Postgraduate, M.YETİŞ(Student), 1999

GÜNDÜZ U., Characterization of *Aspergillus oryzae* transformed with a plasmid carrying α -amylase gene, Postgraduate, G.TOLUN(Student), 1999

GÜNDÜZ U., Identification of by-products in hydrogen producing bacteria; *Rhodobacter sphaeroides* O.U. 001 grown in waste water of a sugar refinery, Postgraduate, D.Özgür(Student), 1999

GÜNDÜZ U., Identification of by products in hydrogen producing bacteria *Rhodobacter sphaeroides* OU 001 grown in waste water of a sugar refinery, Postgraduate, D.ÖZGÜR(Student), 1999

GÜNDÜZ U., Determination of parental origin in trisomy 21. by use of polymorphisms, Postgraduate, B.ANAR(Student), 1998

GÜNDÜZ U., Detection of the immunoglobulin heavy chain gene rearrangements in b-cell lymphoma by using polymerase chain reaction, Postgraduate, M.Güven(Student), 1998

GÜNDÜZ U., PCR based, isolation, cloning on expression of streptokinase gene from a group c streptococcus equisimilis in e.coli, Doctorate, F.ROOHVAND(Student), 1998

GÜNDÜZ U., PCR-based isolation, cloning and expression of streptokinase gene from a group C streptococcus equisimilis in E.Coli, Doctorate, F.Roohvand(Student), 1998

GÜNDÜZ U., Isolation and characterization of *leuconostoc* species from Turkish kashar cheese, Postgraduate, B.ÖDEN(Student), 1998

EROĞLU İ., GÜNDÜZ U., Continuous hydrogen production by *Rhodobacter sphaeroides* O.U.001, Postgraduate, K.Aslan(Student), 1998

GÜNDÜZ U., Determination of parental origin in trisomy 21 by use of STR polymorphism, Postgraduate, B.Anar(Student), 1998

GÜNDÜZ U., Detection of the immunoglobulin heavy chain gene rearrangements in B-cell lymphoma by using polymerase chain reaction, Postgraduate, M.GÜVEN(Student), 1998

GÜNDÜZ U., The functions of cyclin-dependent kinase inhibitors p16(INK4a) and p15(INK4b) in human osteosarcomas., Doctorate, U.Aytaç(Student), 1996

GÜNDÜZ U., Increase of alpha amylase production of *aspergillus oryzae* by electroporation, Postgraduate, Y.Ünal(Student), 1996

GÜNDÜZ U., The Functions of cyclin-dependent kinase inhibitors p16INK4a and p15INK4b in human osteosarcomas, Doctorate, U.AYTAÇ(Student), 1996

GÜNDÜZ U., Increase of alpha amylase production of *aspergillus oryzae* by electroporation, Postgraduate, V.ÜNAL(Student), 1996

EROĞLU İ., GÜNDÜZ U., Production of hydrogen by rhodobacter sphaeroides O.U. 001, Postgraduate, T.Arik(Student), 1995

GÜNDÜZ U., Production of hydrogen by rhodobacter sphaenoides O,U 001, Postgraduate, T.ARIK(Student), 1995

GÜNDÜZ U., Detection of the gene rearrangements in chronic myelocytic leukemia and B-cell lymphoma by RNA and DNA based techniques, Doctorate, E.Eren(Student), 1995

GÜNDÜZ U., Isolation identification and characterization of non-starter microorganisms from Turkish kasher cheese, Postgraduate, Ö.Aydın(Student), 1995

GÜNDÜZ U., Detection of the gene rearrangements in chronik myelorytic leukomsa and B-coll lymphoma by RNA and DNA based techniques, Doctorate, E.EREN(Student), 1995

GÜNDÜZ U., Isolation, identification, and characterization of three nisin-producing strains of lactococcus lactis subsp. lactis from raw milk, Postgraduate, B.Samara(Student), 1994

GÜNDÜZ U., Isolation identification and characterization of three nisin producing strains of lactococcus lactis subsp. lactic from raw milk, Postgraduate, B.SAMARA(Student), 1994

GÜNDÜZ U., Partial purification and characterization of B-galactosidase from streptococcus thermophilus strain RSKK 667, Postgraduate, R.Rejaee(Student), 1993

GÜNDÜZ U., Identification, characterization and subcellular localization of salt induced proteins in rice (Oryza sativa L.), Doctorate, S.MOHAMMAD(Student), 1993

GÜNDÜZ U., Partial purification and characterization of beta-galactosidase from streptococcus thermophilus strain RSKK 667, Postgraduate, R.REJAE(Student), 1993

GÜNDÜZ U., Transformation of saccharomyces cerevisiae with a shuttle vector plasmid DNA from E.Coli by electroporation, Postgraduate, F.ROUHVAND(Student), 1992

GÜNDÜZ U., Partial characterization of three lactococcus (Streptococcus) lactis ssp.lactis strains for lactose utilization, Postgraduate, M.NOKHBEH(Student), 1991

GÜNDÜZ U., Purification and characterization of M2-type kinase isozyme from human meningioma., Doctorate, A.Awsat(Student), 1991

GÜNDÜZ U., Q nucleoside levels of tRNAs in meningiomas and astrocytomas, Postgraduate, U.AYTAÇ(Student), 1991

GÜNDÜZ U., Transformation of Streptococcus thermophilus with plasmid DNA by electroporation, Postgraduate, I.NERGİZ(Student), 1991

GÜNDÜZ U., Purification and characterization of m2-type pyruvate kinase isozyme from human meningioma, Doctorate, A.AWSAT(Student), 1991

GÜNDÜZ U., Transformation of E. coli by electroporation, Postgraduate, E.EREN(Student), 1990

GÜNDÜZ U., Studies on tRNA from human cancers., Postgraduate, M.Candaş(Student), 1988

GÜNDÜZ U., Studies on transfer RNA from human cancers, Postgraduate, M.CANDAŞ(Student), 1988

GÜNDÜZ G., GÜNDÜZ U., Trypsin immobilization on porous styrene-maleic anhydride copolymer., Postgraduate, S.Shaghghi(Student), 1988

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Differential synergistic effects of palbociclib and doxorubicin on doxorubicin-resistant cancer cells with diverse tumor origins**
Yalcin G. D., MUTLU P., Kazan H. H., GÜNDÜZ U.
Journal of Chemotherapy, 2024 (SCI-Expanded)
- II. **Investigation of the Therapeutic Effects of Palbociclib Conjugated Magnetic Nanoparticles on Different Types of Breast Cancer Cell Lines**
Parsian M., MUTLU P., Taghavi Pourianazar N., Yalcin Azarkan S., GÜNDÜZ U.
Cellular and Molecular Bioengineering, vol.16, no.2, pp.143-157, 2023 (SCI-Expanded)
- III. **Development of a microfluidic platform to maintain viability of micro-dissected tumor slices in culture**
Parsian M., MUTLU P., YILDIRIM E., Ildiz C., ÖZEN C., GÜNDÜZ U.
Biomicrofluidics, vol.16, no.3, 2022 (SCI-Expanded)

- IV. **A microfluidic device enabling drug resistance analysis of leukemia cells via coupled dielectrophoretic detection and impedimetric counting**
Demircan Yalçın Y., Töral T. B., Sukas S., YILDIRIM E., Zorlu Ö., Gündüz U., KÜLAH H.
Scientific Reports, vol.11, no.1, 2021 (SCI-Expanded)
- V. **Topical delivery of heparin from PLGA nanoparticles entrapped in nanofibers of sericin/gelatin scaffolds for wound healing**
Basaran D. D. A., GÜNDÜZ U., TEZCANER A., KESKİN D.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.597, 2021 (SCI-Expanded)
- VI. **15-LOX-1 has diverse roles in the resensitization of resistant cancer cell lines to doxorubicin**
Kazan H. H., Urfali-Mamatoglu C., Yalcin G. D., Bulut O., Sezer A., BANERJEE S., GÜNDÜZ U.
JOURNAL OF CELLULAR PHYSIOLOGY, vol.235, no.5, pp.4965-4978, 2020 (SCI-Expanded)
- VII. **Poly (I:C)- and doxorubicin-loaded magnetic dendrimeric nanoparticles affect the apoptosis-related gene expressions in MCF-7 cells**
Khodadust R., Alpsyoy A., Unsoy G., GÜNDÜZ U.
TURKISH JOURNAL OF BIOLOGY, vol.44, no.4, pp.133-144, 2020 (SCI-Expanded)
- VIII. **Characterization of Gemcitabine Loaded Polyhydroxybutyrate Coated Magnetic Nanoparticles for Targeted Drug Delivery**
Parsian M., MUTLU P., Yalcin S., GÜNDÜZ U.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.20, no.10, pp.1233-1240, 2020 (SCI-Expanded)
- IX. **Fomes fomentarius and Tricholoma anatolicum (Agaricomycetes) Extracts Exhibit Significant Multiple Drug-Resistant Modulation Activity in Drug-Resistant Breast Cancer Cells**
DOĞAN H. H., Kars M. D., Ozdemir O., GÜNDÜZ U.
INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS, vol.22, no.2, pp.105-114, 2020 (SCI-Expanded)
- X. **Magnetic Fe₃O₄-chitosan micro- and nanoparticles for wastewater treatment**
ŞAHBAZ D. A., YAKAR A., GÜNDÜZ U.
PARTICULATE SCIENCE AND TECHNOLOGY, vol.37, no.6, pp.728-736, 2019 (SCI-Expanded)
- XI. **Long-term stable hydrogen production from acetate using immobilized Rhodobacter capsulatus in a panel photobioreactor**
Elkahlout K., Sagir E., Alipour S., KOKU H., GÜNDÜZ U., Eroglu I., Yucel M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.34, pp.18801-18810, 2019 (SCI-Expanded)
- XII. **Comparative chromosomal microarray analysis of doxorubicin-resistant MCF7 cells**
Kazan H. H., Urfali-Mamatoglu C., Karahan P. C., Kayhan G., Gunduz U.
FEBS OPEN BIO, vol.9, pp.101-102, 2019 (SCI-Expanded)
- XIII. **ALOX15 participates in re-sensitization of doxorubicin resistance in MCF7 and HeLa cells by re-organizing cell membrane, inducing apoptosis and regulating intracellular redox states**
Kazan H. H., Urfali-Mamatoglu C., Yalcin G. D., Sezer A., Gunduz U.
FEBS OPEN BIO, vol.9, pp.131, 2019 (SCI-Expanded)
- XIV. **Exploring the relationship between cytoplasmic ion content variation and multidrug resistance in cancer cells via ion-release based impedance spectroscopy**
Demircan Yalçın Y., Sukas S., Töral T. B., Gündüz U., Külah H.
Sensors and Actuators, B: Chemical, vol.290, pp.180-187, 2019 (SCI-Expanded)
- XV. **Transcriptome analysis of Rhodobacter capsulatus grown on different nitrogen sources**
Erkal N. A., Eser M. G., Ozgur E., GÜNDÜZ U., EROĞLU İ., Yucel M.
ARCHIVES OF MICROBIOLOGY, vol.201, no.5, pp.661-671, 2019 (SCI-Expanded)
- XVI. **Hydrogen and poly-beta-hydroxybutyric acid production at various acetate concentrations using Rhodobacter capsulatus DSM 1710**
Demiriz B. O., Kars G., Yucel M., EROĞLU İ., GÜNDÜZ U.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.32, pp.17269-17277, 2019 (SCI-Expanded)
- XVII. **Dual function of programmed cell death 10 (PDCD10) in drug resistance**
Urfali-Mamatoglu C., Kazan H. H., GÜNDÜZ U.
BIOMEDICINE & PHARMACOTHERAPY, vol.101, pp.129-136, 2018 (SCI-Expanded)

- XVIII. **Smart Drug Delivery Systems in Cancer Therapy**
ÜNŞOY G., GÜNDÜZ U.
CURRENT DRUG TARGETS, vol.19, no.3, pp.202-212, 2018 (SCI-Expanded)
- XIX. **DETERMINATION OF THE RELATIONSHIP BETWEEN DOXORUBICIN RESISTANCE AND WNT SIGNALING PATHWAY IN HELA AND K562 CELL LINES**
MUTLU P., Azarkan S. Y., Pourianazar N. T., Yucel M., GÜNDÜZ U.
EXCLI JOURNAL, vol.17, pp.386-398, 2018 (SCI-Expanded)
- XX. **Folic acid functionalized PEG coated magnetic nanoparticles for targeting anti-cancer drug delivery: Preparation, characterization and cytotoxicity on Doxorubicin, Zoledronic acid and Paclitaxel resistant MCF-7 breast cancer cell lines**
Keskin T., Yalcin S., GÜNDÜZ U.
INORGANIC AND NANO-METAL CHEMISTRY, vol.48, no.2, pp.150-159, 2018 (SCI-Expanded)
- XXI. **Co-delivery of Doxorubicin and D-alpha-Tocopherol Polyethylene Glycol 1000 Succinate by Magnetic Nanoparticles**
Metin E., MUTLU P., GÜNDÜZ U.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.18, no.8, pp.1138-1147, 2018 (SCI-Expanded)
- XXII. **Single-stage photofermentative biohydrogen production from sugar beet molasses by different purple non-sulfur bacteria**
Sagir E., Ozgur E., GÜNDÜZ U., Eroglu I., YÜCEL A. M.
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.40, no.11, pp.1589-1601, 2017 (SCI-Expanded)
- XXIII. **Dark fermentative hydrogen production from sucrose and molasses**
TUNÇAY E. G., ERGUDER T. H., EROĞLU İ., GÜNDÜZ U.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.41, no.13, pp.1891-1902, 2017 (SCI-Expanded)
- XXIV. **Iron metabolism and drug resistance in cancer**
Kazan H. H., Urfali-Mamatoglu C., GÜNDÜZ U.
BIOMETALS, vol.30, no.5, pp.629-641, 2017 (SCI-Expanded)
- XXV. **Scale-up studies for stable, long-term indoor and outdoor production of hydrogen by immobilized Rhodobacter capsulatus**
Sagir E., ALIPOUR S., ELKAHLOUT K., KOKU H., GÜNDÜZ U., Eroglu I., YUCEL M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.22743-22755, 2017 (SCI-Expanded)
- XXVI. **Folic acid-conjugated polyethylene glycol-coated magnetic nanoparticles for doxorubicin delivery in cancer chemotherapy: Preparation, characterization and cytotoxicity on HeLa cell line**
ERDEM M., Yalcin S., GÜNDÜZ U.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.36, no.8, pp.833-845, 2017 (SCI-Expanded)
- XXVII. **Long-term biological hydrogen production by agar immobilized Rhodobacter capsulatus in a sequential batch photobioreactor**
Elkahlout K., Alipour S., Eroglu I., GÜNDÜZ U., YÜCEL A. M.
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.40, no.4, pp.589-599, 2017 (SCI-Expanded)
- XXVIII. **Half generations magnetic PAMAM dendrimers as an effective system for targeted gemcitabine delivery**
PARSIAN M., MUTLU P., Yalcin S., TEZCANER A., GÜNDÜZ U.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.515, pp.104-113, 2016 (SCI-Expanded)
- XXIX. **Changes in apoptosis-related gene expression and cytokine release in breast cancer cells treated with CpG-loaded magnetic PAMAM nanoparticles**
Pourianazar N. T., GÜNDÜZ U.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.515, pp.11-19, 2016 (SCI-Expanded)
- XXX. **Loading of Gemcitabine on chitosan magnetic nanoparticles increases the anti-cancer efficacy of the drug**
PARSIAN M., UNŞOY G., MUTLU P., Yalcin S., TEZCANER A., GÜNDÜZ U.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.784, pp.121-128, 2016 (SCI-Expanded)
- XXXI. **Effects of doxorubicin-loaded dextran coated magnetic nanoparticles: on gene and protein**

- expression profile of p53, survivin and bcl-2 in doxorubicin sensitive/resistant MCF-7 cell lines**
Yalcin S., Onguru O., GÜNDÜZ U.
EUROPEAN JOURNAL OF CANCER, vol.61, 2016 (SCI-Expanded)
- XXXII. **APOBEC3B expression in drug resistant MCF-7 breast cancer cell lines**
Onguru O., Yalcin S., Rosemblic C., Zhang P. J., Kilic S., GÜNDÜZ U.
BIOMEDICINE & PHARMACOTHERAPY, vol.79, pp.87-92, 2016 (SCI-Expanded)
- XXXIII. **CpG oligodeoxynucleotide- loaded PAMAM dendrimer-coated magnetic nanoparticles promote apoptosis in breast cancer cells**
Pourianazar N. T., GÜNDÜZ U.
BIOMEDICINE & PHARMACOTHERAPY, vol.78, pp.81-91, 2016 (SCI-Expanded)
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Publication: 256

Citation (WoS): 5817

Citation (Scopus): 4995

H-Index (WoS): 43

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