

# 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

Post Graduate, Iowa State University, United States Of America 1973 - 1975

Under Graduate, 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

Post Graduate, 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

## Professional Experience

Assistant Director of the Institute, Middle East Technical University, Graduate School of Natural and Applied Sciences, 1996 - 2002

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

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

## Advising Theses

- 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, Post Graduate, M.CAN(Student), 2018
- GÜNDÜZ U., MUTLU P., Targeted co-delivery of doxorubicin and TPGS to breast cancer cells by PLGA coated magnetic nanoparticles, Post Graduate, 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., Synthesis and characterization of polyethylene glycol coated magnetic nanoparticles and their use for anti-cancer drug delivery, Post Graduate, M.ERDEM(Student), 2014
- GÜNDÜZ U., Synthesis and characterization of polymeric magnetic nanoparticles loaded by gemcitabine, Post Graduate, M.PARSİAN(Student), 2014
- GÜNDÜZ U., The roles of protein kinase D2 in chemoresistant breast cancer cell lines, Post Graduate, A.ALPSOY(Student), 2014
- GÜNDÜZ U., Reversal of multidrug resistance in MCF-7 breast adenocarcinoma cell line by silencing interleukin 6 with RNA interference, Post Graduate, N.ÇAKMAK(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., Metastatic behaviour of doxorubicin resistant MCF-7 breast cancer cells after vimentin silencing, Post Graduate, O.TEZCAN(Student), 2013
- GÜNDÜZ U., THE PREPARATION AND CHARACTERIZATION OF DENDRIMER COATED MAGNETIC NANOPARTICLES FOR TARGETED CANCER THERAPY, Doctorate, R.KHODADUST(Student), 2013
- GÜNDÜZ U., Investigation of telomerase activity and gene expression in colorectal cancer, Post Graduate, A.İZGİ(Student), 2012
- GÜNDÜZ U., Reversal of paclitaxel resistance in MCF-7 cell line by a chemical modulator elacridar, Post Graduate, E.ÇİĞDEM(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, Post Graduate, B.ÖZSOY(Student), 2012
- GÜNDÜZ U., Preparation of polyethylene glycol coated magnetic nanoparticles for targeting of cancer cells, Post Graduate, T.KESKİN(Student), 2012
- GÜNDÜZ U., Reversal of breast cancer resistance protein mediated multidrug resistance in MCF7 breast adenocarcinoma cell line, Post Graduate, Ç.URFALI(Student), 2012
- GÜNDÜZ U., Synthesis of Poly(dl-lactic-co-glycolic acid) coated magnetic nanoparticles for anti-cancer drug delivery, Post Graduate, G.TANSİK(Student), 2012
- GÜNDÜZ U., Genome wide variation analysis of formalin fixed paraffin embedded pulmonary metastatic tumor samples of osteosarcoma patients, Post Graduate, Z.NİL(Student), 2012
- GÜNDÜZ U., Photofermentative hydrogen production using dark fermentation effluent of sugar beet thick juice by Rhodobacter capsulatus, Post Graduate, E.ÖZKAN(Student), 2011
- GÜNDÜZ U., Kinetic analyses of the effects of temperature and light intensity on growth, hydrogen production and organic acid utilization by rhodobacter capsulatus, Post Graduate, P.SEVİNÇ(Student), 2010
- GÜNDÜZ U., Reversal of multidrug resistance by small interfering RNAs (siRNA) in doxorubicin resistant MCF-7 breast cancer cells, Post Graduate, Y.DÖNMEZ(Student), 2010
- GÜNDÜZ U., Deletion mutation of GlnB and GlnK genes in rhodobacter capsulatus to enhance biohydrogen production, Post Graduate, G.PEKGÖZ(Student), 2010
- GÜNDÜZ U., Development and investigation of etoposide resistance in MCF-7 breast cancer cell line, Post Graduate, E.KAPLAN(Student), 2010
- GÜNDÜZ U., Differential gene expression analysis in drug resistant multiple myeloma cell lines, Doctorate, P.MUTLU(Student), 2009
- GÜNDÜZ U., Poly (DL-lactic-co-glycolic acid) microparticles and synthetic peptide drug conjugate for anti-cancer drug

delivery, Post Graduate, G.PETEK(Student), 2009

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

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

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

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

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

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

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

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

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

GÜNDÜZ U., Transcriptional analysis of hydrogenase genes in Rhodobacter sphaeroides O.U.001, Post Graduate, 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., Identification of polymorphisms in multidrug resistance gene in leukemia patients, Post Graduate, P.KAYA(Student), 2002

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

GÜNDÜZ U., Drug resistance mediated by MRP gene in breast cancer, Post Graduate, D.OGAN(Student), 2002

GÜNDÜZ U., Expression of multidrug resistance associated protein (MRP) in doxorubicin selected HL-60 cell line, Post Graduate, B.GÜR(Student), 2002

GÜNDÜZ U., Hydrogen production by Rhodobacter sphaeroides in a solar bioreactor, Post Graduate, A.TABANOĞLU(Student), 2002

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

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

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

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

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

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

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

GÜNDÜZ U., Characterization of Aspergillus oryzae transformed with a plasmid carrying alfa-amylase gene, Post Graduate, 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., Identification of hydrogenase from *rhodobacter* species and hydrogen gas production in photobioreactors, Post Graduate, S.TÜRKARSLAN(Student), 1999

GÜNDÜZ U., Detection of the immunoglobulin heavy chain gene rearrangements in B-cell lymphoma by using polymerase chain reaction, Post Graduate, 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., Determination of parental origin in trisomy 21. by use of polymorphisms, Post Graduate, B.ANAR(Student), 1998

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

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, Post Graduate, V.ÜNAL(Student), 1996

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., Production of hydrogen by *rhodobacter sphaenoides* O,U 001, Post Graduate, T.ARIK(Student), 1995

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

GÜNDÜZ U., Partial purification and characterization of beta-galactosidase from *streptococcus thermophilus* strain RSKK 667, Post Graduate, R.REJAEI(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., Transformation of *saccharomyces cerevisiae* with a shuttle vector plasmid DNA from *E.Coli* by electroporation, Post Graduate, F.ROOHVAND(Student), 1992

GÜNDÜZ U., Transformation of *Streptococcus thermophilus* with plasmid DNA by electroporation, Post Graduate, I.ENERGİZ(Student), 1991

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

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

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

GÜNDÜZ U., Transformation of *E. coli* by electroporation, Post Graduate, E.EREN(Student), 1990

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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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, pp.4965-4978, 2020 (Journal Indexed in SCI)
- **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, pp.1233-1240, 2020 (Journal Indexed in SCI)
- **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, pp.105-114, 2020 (Journal Indexed in SCI)

- **Magnetic Fe<sub>3</sub>O<sub>4</sub>-chitosan micro- and nanoparticles for wastewater treatment**  
ŞAHBAZ D. A. , YAKAR A., GÜNDÜZ U.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.37, pp.728-736, 2019 (Journal Indexed in SCI)
- **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, pp.18801-18810, 2019 (Journal Indexed in SCI)
- **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, pp.661-671, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Exploring the relationship between cytoplasmic ion content variation and multidrug resistance in cancer cells via ion-release based impedance spectroscopy**  
Demircan Yağın Y., Sukas S., Töral T. B. , Gündüz U., Külah H.  
Sensors and Actuators, B: Chemical, vol.290, pp.180-187, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, pp.17269-17277, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, pp.150-159, 2018 (Journal Indexed in SCI)
- **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, pp.1138-1147, 2018 (Journal Indexed in SCI)
- **Smart Drug Delivery Systems in Cancer Therapy**  
ÜNSOY G., GÜNDÜZ U.  
CURRENT DRUG TARGETS, vol.19, pp.202-212, 2018 (Journal Indexed in SCI)
- **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, pp.1589-1601, 2017 (Journal Indexed in SCI)
- **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, pp.1891-1902, 2017 (Journal Indexed in SCI)

- **Iron metabolism and drug resistance in cancer**  
Kazan H. H. , Urfali-Mamatoglu C., GÜNDÜZ U.  
BIOMETALS, vol.30, pp.629-641, 2017 (Journal Indexed in SCI)
- **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, pp.22743-22755, 2017 (Journal Indexed in SCI)
- **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, pp.833-845, 2017 (Journal Indexed in SCI)
- **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, pp.589-599, 2017 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Loading of Gemcitabine on chitosan magnetic nanoparticles increases the anti-cancer efficacy of the drug**  
PARSIAN M., UNSOY G., MUTLU P., Yalcin S., TEZCANER A., GÜNDÜZ U.  
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.784, pp.121-128, 2016 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **APOBEC3B expression in drug resistant MCF-7 breast cancer cell lines**  
Onguru O., Yalcin S., Rosembli C., Zhang P. J. , Kilic S., GÜNDÜZ U.  
BIOMEDICINE & PHARMACOTHERAPY, vol.79, pp.87-92, 2016 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Targeted silencing of Survivin in cancer cells by siRNA loaded chitosan magnetic nanoparticles**  
ÜNSOY G., GÜNDÜZ U.  
EXPERT REVIEW OF ANTICANCER THERAPY, vol.16, pp.789-797, 2016 (Journal Indexed in SCI)
- **An update on molecular biology and drug resistance mechanisms of multiple myeloma**  
MUTLU P., Kiraz Y., GÜNDÜZ U., BARAN Y.  
CRITICAL REVIEWS IN ONCOLOGY HEMATOLOGY, vol.96, pp.413-424, 2015 (Journal Indexed in SCI)
- **Association between XRCC3 Thr241Met polymorphism and laryngeal cancer susceptibility in Turkish population**  
MUTLU P., Mutlu M., Yalcin S., Yaylaci A., Unsoy G., Saylam G., Akm I, GÜNDÜZ U., Korkmaz H.  
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.272, pp.3779-3784, 2015 (Journal Indexed in SCI)
- **Hydrogen production by hup(-) mutant and wild-type strains of Rhodobacter capsulatus from dark fermentation effluent of sugar beet thick juice in batch and continuous photobioreactors**  
Uyar B., Gurgan M., Ozgur E., GÜNDÜZ U., YÜCEL A. M. , Eroglu I.

- BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.38, pp.1935-1942, 2015 (Journal Indexed in SCI)  
**Characterization of the distribution of rotational torque on electrorotation chips with 3D electrodes**  
Bahrieh G., Ozgur E., Koyuncuoglu A., ERDEM M., GÜNDÜZ U., KÜLAH H.
- ELECTROPHORESIS, vol.36, pp.1785-1794, 2015 (Journal Indexed in SCI)  
**Protein kinase D2 silencing reduced motility of doxorubicin-resistant MCF7 cells**  
Alpsoy A., GÜNDÜZ U.
- TUMOR BIOLOGY, vol.36, pp.4417-4426, 2015 (Journal Indexed in SCI)  
**Transcriptional Profiling of Hydrogen Production Metabolism of Rhodobacter capsulatus under Temperature Stress by Microarray Analysis**  
Gurgan M., Erkal N. A. , Ozgur E., GÜNDÜZ U., Eroglu I., YÜCEL A. M.
- INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.16, pp.13781-13797, 2015 (Journal Indexed in SCI)  
**Synthesis of Magnetic Fe<sub>3</sub>O<sub>4</sub>-Chitosan Nanoparticles by Ionic Gelation and Their Dye Removal Ability**  
ŞAHBAZ D. A. , YAKAR A., GÜNDÜZ U.
- WATER ENVIRONMENT RESEARCH, vol.87, pp.425-436, 2015 (Journal Indexed in SCI)  
**Label-free detection of multidrug resistance in K562 cells through isolated 3D-electrode dielectrophoresis**  
Demircan Y., Koyuncuoglu A., ERDEM M., Ozgur E., GÜNDÜZ U., KÜLAH H.
- ELECTROPHORESIS, vol.36, pp.1149-1157, 2015 (Journal Indexed in SCI)  
**Investigation of the effects of initial substrate and biomass concentrations and light intensity on photofermentative hydrogen gas production by Response Surface Methodology**  
Akman M. C. , ERGÜDER T. H. , GÜNDÜZ U., EROĞLU İ.
- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, pp.5042-5049, 2015 (Journal Indexed in SCI)  
**Detection of XRCC1 gene polymorphisms in Turkish head and neck squamous cell carcinoma patients: a comparative analysis with different populations**  
MUTLU P., Mutlu M., Yalcin S., Unsoy G., Yaylaci A., Saylam G., Akin I., Korkmaz H., GÜNDÜZ U.
- JOURNAL OF BUON, vol.20, pp.540-547, 2015 (Journal Indexed in SCI)  
**Magnetite: From Synthesis to Applications**  
Unsoy G., GÜNDÜZ U., Oprea O., FICAI D., Sonmez M., Radulescu M., Alexie M., FICAI A.
- CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.15, pp.1622-1640, 2015 (Journal Indexed in SCI)  
**Synthesis and Characterization of Polyhydroxybutyrate Coated Magnetic Nanoparticles: Toxicity Analyses on Different Cell Lines**  
Yalcin S., Khodadust R., Unsoy G., Garip I. C. , Mumcuoglu Z. D. , GÜNDÜZ U.
- SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.45, pp.700-708, 2015 (Journal Indexed in SCI)  
**Polyhydroxybutyrate-Coated Magnetic Nanoparticles for Doxorubicin Delivery: Cytotoxic Effect Against Doxorubicin-Resistant Breast Cancer Cell Line**  
Yalcin S., Unsoy G., MUTLU P., Khodadust R., GÜNDÜZ U.
- AMERICAN JOURNAL OF THERAPEUTICS, vol.21, pp.453-461, 2014 (Journal Indexed in SCI)  
**Development of poly (I:C) modified doxorubicin loaded magnetic dendrimer nanoparticles for targeted combination therapy**  
Khodadust R., Unsoy G., GÜNDÜZ U.
- BIOMEDICINE & PHARMACOTHERAPY, vol.68, pp.979-987, 2014 (Journal Indexed in SCI)  
**Synthesis of Doxorubicin loaded magnetic chitosan nanoparticles for pH responsive targeted drug delivery**  
ÜNİSOY G., Khodadust R., Yalcin S., MUTLU P., GÜNDÜZ U.
- EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.62, pp.243-250, 2014 (Journal Indexed in SCI)  
**Different Types of Cell Cycle- and Apoptosis-Related Gene Expressions Alter in Corticosteroid-, Vincristine-, and Melphalan-Resistant U-266 Multiple Myeloma Cell Lines**  
MUTLU P., Ural A. U. , GÜNDÜZ U.
- TURKISH JOURNAL OF HEMATOLOGY, vol.31, pp.231-238, 2014 (Journal Indexed in SCI)

- **Telomere 1 (POT1) gene expression and its association with telomerase activity in colorectal tumor samples with different pathological features**  
Izgi A., Gunal A., Yalcin S., GÜNDÜZ U.  
BIOMEDICINE & PHARMACOTHERAPY, vol.68, pp.841-846, 2014 (Journal Indexed in SCI)
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