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University Educations & Foreign Languages

- **Assoc. Prof. Dr. of Molecular Biology and Genetics, [Inter-University Council \(UAK\)](#), 2018**
- **Ph.D. Biotechnology, [Middle East Technical University](#), ANKARA Feb 2008 – Sept 2013**
Title of Ph.D. Thesis: The Synthesis and Characterization of Doxorubicin and Bortezomib Loaded Magnetic Nanoparticles for Targeting Tumor Cells.
- **M.Sc. Biotechnology, [Middle East Technical University](#), ANKARA Feb 2003 – Feb 2006**
Title of M.Sc. Thesis: Biochemical Characterization of Recombinant 20S Proteasomes from *Thermoplasma volcanium* and Cloning of its Regulatory Subunit Gene.
- **B.Sc. Department of Biology, [Gazi University](#), ANKARA Sept 1996 – Jun 2001**
- **H.S.D. Mathematics and Science, [Private Yükseliş College](#), ANKARA Sept 1985 – Jun 1996**
- **English (Fluent), German (Basic), Romanian (Basic),**

Awards & Scholarships

- **METU Thesis of the Year Award (Ph.D. Thesis), METU School of Natural and Applied Sciences 2013**
- **METU Publication Award (Parsian, M., Ünsoy, G., et al. "Loading of Gemcitabine on chitosan magnetic nanoparticles increases the anti-cancer efficacy of the drug." *European Journal of Pharmacology* 784 (2016): 121-128.), METU Faculty of Arts and Sciences 2016**
- **Web of Science - Highly Cited Paper in Field, (Ünsoy, G., et al. "Synthesis of Doxorubicin-loaded magnetic chitosan nanoparticles for pH-responsive targeted drug delivery." *European Journal of Pharmaceutical Sciences*, 62(2014):243–250.), Thomson Reuters, 2014**
- **TÜBİTAK Publication Award (Ünsoy, G., et al. "Synthesis optimization and characterization of chitosan-coated iron oxide nanoparticles produced for biomedical applications." *Journal of Nanoparticle Research* 14.11 (2012): 964.), TÜBİTAK - UBYT 2012**
- **TÜBİTAK Publication Award (Khodadust, R., et al. "Doxorubicin loading, release, and stability of polyamidoamine dendrimer-coated magnetic nanoparticles." *Journal of Pharmaceutical Sciences* 102.6 (2013): 1825-1835.), TÜBİTAK – UBYT 2013**
- **TÜBİTAK Publication Award (Ünsoy, G. and Gunduz U., "Targeted silencing of Survivin in cancer cells by siRNA loaded chitosan magnetic nanoparticles." *Expert Review of Anticancer Therapy* 16.7 (2016): 789-797.), TÜBİTAK – UBYT 2017**
- **TÜBİTAK, TBAG 1001 Project Scholarship, "Idarubicin loaded magnetic nanoparticles synthesis and cytotoxicity analysis on MCF-7 breast cancer cell line." (TBAG: 109T949), METU - TÜBİTAK 2010-2012**
- **TÜBİTAK, EEEAG 1003 Project Scholarship, "Development of a Lab-on-a-Chip System for the Rare Cell Screening from Blood." (EEEAG: 213E024), METU - TÜBİTAK 2015-2018**

Publications

Book Chapters Published by International Scientific Publishing Houses

1. **Unsoy, G.** and Gunduz, U. (2017). Targeted drug delivery via chitosan-coated magnetic nanoparticles. *Nanostructures for Drug Delivery (Elsevier)* (pp. 835-864) Hardcover ISBN: 9780323461436.

Papers Published in SCI and SCI-Expanded Indexed International Journals

1. **Unsoy, G.** and Gunduz, U. (2018) Smart Drug Delivery Systems in Cancer Therapy. *Current Drug Targets*, 19(3), 202-212.
2. Parsian, M., **Unsoy, G.**, Mutlu, P., Yalcin, S., Tezcaner, A., & Gunduz, U. (2016). Loading of Gemcitabine on chitosan magnetic nanoparticles increases the anti-cancer efficacy of the drug. *European Journal of Pharmacology*, 784, 121-128.
3. **Unsoy, G.**, & Gunduz, U. (2016). Targeted silencing of Survivin in cancer cells by siRNA loaded chitosan magnetic nanoparticles. *Expert Review of Anticancer Therapy*, 16(7), 789-797.
4. Mutlu, P., Mutlu, M., Yalcin, S., Yaylacı, A., **Unsoy, G.**, Saylam, G., ...& Korkmaz, H. (2015). Association between XRCC3 Thr241Met polymorphism and laryngeal cancer susceptibility in Turkish population. *European Archives of Oto-Rhino-Laryngology*, 272(12), 3779-3784.
5. **Unsoy, G.**, Gunduz, U., Oprea, O., Fikai, D., Sonmez, M., Radulescu, M., ...& Fikai, A. (2015). Magnetite: from synthesis to applications. *Current Topics in Medicinal Chemistry*, 15(16), 1622-1640.
6. Yalcin, S., Khodadust, R., **Unsoy, G.**, Ceren Garip, I., Didem Mumcuoglu, Z., & Gunduz, U. (2015). Synthesis and Characterization of Polyhydroxybutyrate Coated Magnetic Nanoparticles: Toxicity Analyses on Different Cell Lines. *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, 45(5), 700-8.
7. Mutlu, P., Mutlu, M., Yalcin, S., **Unsoy, G.**, Yaylacı, A., Saylam, G., ...& Gunduz, U. (2015). Detection of XRCC1 gene polymorphisms in Turkish head and neck squamous cell carcinoma patients: a comparative analysis with different populations. *Journal of BUON. Offic. J. of the Balkan Union of Oncology*, 20(2), 540.
8. Yalcin, S., **Unsoy, G.**, Mutlu, P., Khodadust, R., & Gunduz, U. (2014). Polyhydroxybutyrate-coated magnetic nanoparticles for doxorubicin delivery: cytotoxic effect against doxorubicin-resistant breast cancer cell line. *American Journal of Therapeutics*, 21(6), 453-461.
9. Khodadust, R., **Unsoy, G.**, & Gunduz, U. (2014). Development of poly (I: C) modified doxorubicin loaded magnetic dendrimer nanoparticles for targeted combination therapy. *Biomedicine & Pharmacotherapy*, 68(8), 979-987.
10. **Unsoy, G.**, Khodadust, R., Yalcin, S., Mutlu, P., & Gunduz, U. (2014). Synthesis of Doxorubicin-loaded magnetic chitosan nanoparticles for pH-responsive targeted drug delivery. *European Journal of Pharmaceutical Sciences*, 62, 243-250.
11. **Unsoy, G.**, Yalcin, S., Khodadust, R., Parsian, M., Mutlu, P., Bayanbold, K., & Gunduz, U. (2014). PAMAM coated MNPs for siRNA delivery and gene silencing. *Journal of Cancer Studies and Therapy*, 1(1):1-5.
12. Yalcin, S., Erkan, M., **Unsoy, G.**, Parsian, M., Kleeff, J., & Gündüz, U. (2014). Effect of gemcitabine and retinoic acid-loaded PAMAM dendrimer-coated magnetic nanoparticles on pancreatic cancer and stellate cell lines. *Biomedicine & Pharmacotherapy*, DOI: 10.1016/j.biopha.2014.07.003.
13. Gunduz, U., Keskin, T., Tansik, G., Mutlu, P., Yalcin, S., **Unsoy, G.**, Yakar, A., Khodadust, R., & Gunduz, G. (2014). Idarubicin-loaded folic acid conjugated magnetic nanoparticles as a targetable drug delivery system for breast cancer. *Biomedicine & Pharmacotherapy*, DOI: 10.1016/j.biopha.2014.08.013.

14. **Unsoy, G.**, Yalcin, S., Khodadust, R., Mutlu, P., Onguru, O., &Gunduz, U. (2014). Chitosan magnetic nanoparticles for pH-responsiveBortezomib release in cancer therapy. *Biomedicine and Pharmacotherapy*, 68, 641–648
15. Khodadust, R., Mutlu, P., Yalcin, S., **Unsoy, G.**, &Gunduz, U. (2013). Polyinosinic: polycytidylic acid loading onto different generations of PAMAM dendrimer-coated magnetic nanoparticles. *Journal of Nanoparticle Research*, 15 (8), 1-12.
16. Khodadust, R., Mutlu, P., Yalcin, S., **Unsoy, G.**, &Gunduz, U. (2013). Doxorubicin loading, release, and stability of polyamidoamine dendrimer-coated magnetic nanoparticles. *Journal of Pharmaceutical Sciences*, 102 (6), 1825–1835.
17. Khodadust, R., **Unsoy, G.**, Yalcin, S., Gunduz, G., &Gunduz, U. (2013). PAMAM dendrimer coated iron oxide nanoparticles: synthesis and characterization of different generations. *Journal of Nanoparticle Research*, 15 (3), 1-13.
18. **Unsoy, G.**, Yalcin, S., Khodadust, R., Gunduz, G., &Gunduz, U. (2012). Synthesis optimization and characterization of chitosan-coated iron oxide nanoparticles produced for biomedical applications. *Journal of Nanoparticle Research*, 14(964), 1-13.
19. Keskin, T., Tansik, G., Yakar, A., **Unsoy, G.**, Khodadust, R., &Gunduz, U. (2010). *In vitro* cytotoxic studies of polymer-coated magnetic nanoparticles for anti-cancer drug delivery. *International Journal of Material Science and Electronics Research (IJMSER)*, 1(2) 45-47.

Full Papers Published in International Conferences

1. **Unsoy, G.**, Yalcin, S., Khodadust, R., Mutlu, P., &Gunduz, U. (2012). In situ synthesis and characterization of chitosan-coated iron oxide nanoparticles and loading of doxorubicin. *NANOCON 2012*, October, 23-25, Brno, Czech Republic. EU, PE11. (Full Conference Paper)
2. Yalcin, S., **Unsoy, G.**, Khodadust, R., Mutlu, P., Taghavi, N. P., &Gunduz, U. (2012). The cytotoxicity analysis of PHB coated magnetic nanoparticles on sensitive and doxorubicin-resistant MCF-7 cell lines. *NANOCON 2012*, October, 23-25, Brno, Czech Republic. EU, PD5. (Full Conference Paper)
3. Khodadust, R., Mutlu, P., Yalcin, S., **Unsoy, G.**, Taghavi, N. P., &Gunduz, U. (2012). Loading efficiency and optimization of doxorubicin on dendrimer coated magnetic nanoparticles using different buffers. *NANOCON 2012*, October, 23-25, Brno, Czech Republic. EU, PA72. (Full Conference Paper)

Abstracts Published in International Conferences

1. **Unsoy G.**,&Gunduz U. (2017). Optimization Studies of Antibody Coating on Gold Surfaces. (Poster presentation) 22nd International Biomedical Science and Technology Symposium, May 12-14, Ankara, Turkey.
2. **Unsoy G.**,&Gunduz U. (2017). Site-directed Antibody Coating of Gold Surfaces. (Poster presentation) 22nd International Biomedical Science and Technology Symposium, May 12-14, Ankara, Turkey.
3. **Unsoy G.**,&Gunduz U. (2016). Smart drug delivery systems: targeteddelivery of chemotherapeutics,immunostimulators and siRNA molecules. (Oral presentation), 2nd International Conference and Expo on Drug Discovery & Designing (Drug Discovery), October 27-29, Rome, Italy, p29.
4. Yalçin S., **Unsoy G.**, Khodadust R., Mutlu P., Gunduz U. (2015). Doxorubicin-Loaded Dextran Coated Magnetic Nanoparticles Change Gene Expression Levels inBreast Cancer Cell Lines. (Poster presentation)4th International Congress of the Molecular Biology Association ofTurkey (MolBiyoKon 2015)(No:2808136)
5. Yalçin S., **Unsoy G.**, Khodadust R., Gunduz U. (2015).Doxorubicin-loadeddextran-coated magnetic nanoparticles enhance cytotoxicity in Doxorubicin resistant MCF-7 cells.(Poster presentation) 11th International Symposium on Pharmaceutical Sciences (ISOPS-11)(No:2807692)
6. **Unsoy G.**, Yalçin S., Khodadust R., Mutlu P., Macit E.,UlusoyG., Onguru O.,Gunduz U. (2015). In vitro and in vivo toxicity analyses of bare and chitosan coated MNPS. (Poster presentation)11th International Symposium on Pharmaceutical Sciences (ISOPS-11) (No:2807624)

7. **Ünsoy G.**, Yalçın S., Mutlu P., Khodadust R., Gunduz U., Macit E., Ulusoy G., Onguru O., ...Celik T., (2015). Biodistribution of magnetite nanoparticles chemically modified with chitosan in mice liver and brain tissue. (Poster presentation) *11th International Symposium on Pharmaceutical Sciences (ISOPS-11)*(No:2807660)
8. Yalçın S., **Ünsoy G.**, Mutlu P., Khodadust R., Gunduz U., Macit E., Ulusoy G., Onguru O., ...Celik T., (2015). Toxicity of polyhydroxybutyrate coated magnetic nanoparticles in mice and mda-mb-231 cell line. (Poster presentation) *11th International Symposium on Pharmaceutical Sciences (ISOPS-11)*(No:2807678)
9. **Unsoy, G.**, Yalçın, S., Khodadust, R., Mutlu, P., Pourianazar, N.T., & Gunduz, U. (2014). Loading and release efficiencies of Bortezomib on chitosan-coated magnetic nanoparticles. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P140.
10. **Unsoy, G.**, Yalçın, S., Khodadust, R., Mutlu, P., Pourianazar, N.T., & Gunduz, U. (2014). Cellular internalization of Bortezomib loaded CS MNPs by cervical cancer cells. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P443.
11. **Unsoy, G.**, Khodadust, R., Yalçın, S., Mutlu, P., Pourianazar, N.T., Parsian, M., & Gunduz, U. (2014). Effect of doxorubicin-loaded CS MNPs on cell proliferation in sensitive and doxorubicin-resistant MCF-7 cell lines. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P457.
12. Yalçın, S., **Unsoy, G.**, Pourianazar, N.T., & Gunduz, U. (2014). Preparation of fluorescent IgG monoclonal antibody conjugated PHB coated magnetic nanoparticles for imaging and cancer therapy. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P496.
13. Yalçın, S., **Unsoy, G.**, Mutlu, P., Khodadust, R., Pourianazar, N.T., Parsian, M., & Gunduz, U. (2014). The cytotoxic analysis of free doxorubicin and doxorubicin loaded PHB-MNPs on sensitive and doxorubicin-resistant MCF-7 cell lines. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P507.
14. Parsian, M., **Unsoy, G.**, Mutlu, P., Yalçın, S., Pourianazar, N.T., & Gunduz, U. (2014). Chitosan-coated magnetic nanoparticles as vehicles for the delivery of the antitumor drug gemcitabine. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P445.
15. Yalçın, S., Mutlu, P., **Unsoy, G.**, Parsian, M., Pourianazar, N.T., & Gunduz, U. (2014). Cellular internalization of polyhydroxybutyrate coated magnetic nanoparticles in SKBR-3 cell lines. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P444.
16. Pourianazar, N.T., Parsian, M., **Unsoy, G.**, Yalçın, S., & Gunduz, U. (2014). Comparison of two polymeric nanocarriers for targeted CpG-ODN delivery: chitosan- and poly (amidoamine) dendrimer-coated magnetic nanoparticles. (Poster presentation) *The FEBS Journal, Volume 281, Issue Supplement, Special Issue: FEBS EMBO Conference*, August 30 - September 4, Paris, France, P449.
17. Khodadust, R., Mutlu, P., Yalçın, S., **Unsoy, G.**, Pourianazar N.T. & Gunduz, U. (2013). Doxorubicin Loading, Release and Stability in Dendrimer Coated Magnetic Nanoparticles for Targeted Drug Delivery. (Poster presentation) *PPM International Porous and Powder Materials Symposium & Exhibition*, September, 3-6, İzmir, Turkey
18. **Unsoy, G.**, Yalçın, S., Khodadust, R., Mutlu, P., & Gunduz, U. (2012). In situ synthesis and characterization of chitosan-coated iron oxide nanoparticles. (Poster presentation) *Nanocon Conference. 4th International Conference*, October, 23-25, Brno, Czech Republic, EU, p128.
19. **Unsoy, G.**, Yalçın, S., Khodadust, R., Mutlu, P., & Gunduz, U. (2012). Determination of loading and release efficiencies of doxorubicin by using chitosan coated of magnetic nanoparticles designed for targeted drug delivery. (Poster presentation) *Nanomedicine: From Molecules to Diagnosis and Therapy*, October, 1-3, Consiglio Nazionale Delle Ricerche, Rome, Italy, P26.

20. Khodadust, R., **Unsoy, G.**, Yalcin, S., Mutlu, P., & Gunduz, U. (2012). Synthesis of dendrimeric magnetic nanoparticles and imaging studies using IgG-FITC. (Oral presentation) *Nanomedicine: From Molecules to Diagnosis and Therapy*, October, 1-3, Consiglio Nazionale Delle Ricerche, Rome, Italy, SL4.
21. Yalcin, S., **Unsoy, G.**, Mutlu, P., Khodadust, R., & Gunduz, U. (2012). Loading, Release, stability of anticancer drug from in situ formation PHB coated magnetic nanoparticles. (Poster presentation) *Nanomedicine: From Molecules to Diagnosis and Therapy*, October, 1-3, Consiglio Nazionale Delle Ricerche, Rome, Italy, P28.
22. Yalcin, S., **Unsoy, G.**, Mutlu, P., Khodadust, R., & Gunduz, U. (2012). Preparation of antibody-FITC binding dextran-coated magnetic nanoparticles for imaging and cancer therapy. (Poster presentation) *Nanomedicine: From Molecules to Diagnosis and Therapy*, October, 1-3, Consiglio Nazionale Delle Ricerche, Rome, Italy, P29.
23. Yalcin, S., **Unsoy, G.**, Mutlu, P., Khodadust, R., & Gunduz, U. (2012). The identification of cytotoxicity of various polymers coated magnetic iron oxide nanoparticles in MCF-7 cells. (Poster presentation) *Nanomedicine: From Molecules to Diagnosis and Therapy*, October, 1-3, Consiglio Nazionale Delle Ricerche, Rome, Italy, P30.
24. **Unsoy, G.**, Yalcin, S., Khodadust, R., Mutlu, P., Gunduz, G., & Gunduz, U. (2012). Cellular internalization of chitosan-coated magnetic nanoparticles by MCF-7 cells. (Poster presentation) *ISOPS 10th International Symposium on Pharmaceutical Sciences*, June, 26-29, Ankara, Turkey, P240.
25. Khodadust, R., **Unsoy, G.**, Yalcin, S., Mutlu, P., Gunduz, G., & Gunduz, U. (2012). Synthesis of IgG Monoclonal Antibody Conjugated Fluorescent Dendrimer Coated Magnetic Nanoparticles for Cancer Therapy. (Poster presentation) *ISOPS 10th International Symposium On Pharmaceutical Sciences*, June, 26-29, Ankara, Turkey, P271.
26. Yalcin, S., Khodadust, R., **Unsoy, G.**, Mutlu, P., Garip, C., & Gunduz, U. (2012). Synthesis and Characterization of Poly-hydroxy butyrate (PHB) Coated Magnetic Nanoparticles for Anti-Cancer Agent Delivery in Cancer Therapy. (Poster presentation) *ISOPS 10th International Symposium on Pharmaceutical Sciences*, June, 26-29, Ankara, Turkey, P256.
27. **Unsoy, G.**, Khodadust, R., Yalcin, S., Gunduz, G., & Gunduz, U. (2011). Characterization of Etoposide Loaded Magnetic Nanoparticles Prepared for Drug Delivery. (Poster presentation) *BIOMED 2011, XVIIth International Symposium on Biomedical Science and Technology*, November, 23-25, Ankara, P-16.
28. Yalcin, S., **Unsoy, G.**, Khodadust, R., Gunduz, G., & Gunduz, U. (2011). Synthesis and Characterization of Dextran Coated Magnetic Nanoparticles for Anti-Cancer Agent Delivery in Cancer Therapy. (Poster presentation) *BIOMED 2011, XVIIth International Symposium on Biomedical Science and Technology*, November, 23-25, Ankara, p.P-20.
29. Khodadust, R., Yalcin, S., **Unsoy, G.**, Gunduz, G., & Gunduz, U. (2011). Synthesis and Characterization of Dendrimer Coated Magnetic Nanoparticles for Drug Delivery. (Oral presentation), *BIOMED 2011, XVIIth International Symposium on Biomedical Science and Technology*, November, 23-25, Ankara, p.O-22.
30. **Unsoy, G.**, Gündüz, G., & Gündüz, U. (2011). The cytotoxic analyses of synthesized bare and chitosan coated superparamagnetic nanoparticles for targeted drug delivery. (Poster presentation) *EACR, Anticancer Drugs Research Congress*, October, 13-16, Antalya, Turkey, p.115.
31. **Baydar, G.**, & Kocabiyik, S. (2005). Biochemical characterization of *Thermoplasma volcanium* recombinant 20S proteasome and its regulatory subunit. (Poster presentation) *30th FEBS Congress and 9th IUBMB Conference*, The FEBS Journal, B4-007P, July, 2-7, Budapest, Hungary, p.176.
32. Kocabiyik, S., Demirok, B., & **Baydar, G.** (2006). Programmed proteolytic machinery of *Thermoplasma volcanium*. (Oral presentation) *20th IUBMB International Congress of Biochemistry and Molecular Biology*, June, 18-23 Kyoto, Japan", (2006), p.696.

Abstracts Published in National Conferences

1. **Ünsoy G.**, Gündüz U., (2016) Cell Surface Markers on Doxorubicin and Imatinib-Resistant K562 Cells. (Poster)3. *Uluslararası Katılımlı Deneysel Hematoloji Kongresi*, May 5-8, Kayseri, Turkey, P23, s.43.
2. **Unsoy, G.**, Yalcin, S., Khodadust, R., Mutlu, P., &Gunduz, U. (2015). Bortezomib yüklü kitosan manyetik nanoparçacıkların pH'a duyarlı ilaç salımı. (Poster) *ODTÜ Biyoteknoloji 25. Yıl Etkinliği*, November 14, Ankara, Turkey, P6.
3. **Unsoy, G.**, Khodadust, R., Yalcin, S., Mutlu, P., & Gunduz, U. (2015). Doksorubisin Yüklü Kitosan Manyetik Nanoparçacıkların Hücre İçerisine Girmesi ve Hücre Çoğalmasını Önlemesi. (Poster) *ODTÜ Biyoteknoloji 25. Yıl Etkinliği*, November 14, Ankara, Turkey, P7.
4. Yalcin, S., **Unsoy, G.**, Mutlu, P., Khodadust, R. Taghavi N., Parsian M., & Gunduz, U. (2015). Doksorubisin Yüklü Kitosan Manyetik Nanoparçacıkların Hücre İçerisine Girmesi ve Hücre Çoğalmasını Önlemesi. (Poster) *ODTÜ Biyoteknoloji 25. Yıl Etkinliği*, November 14, Ankara, P8.
5. Taghavi N., Parsian M., **Unsoy, G.**, Yalcin, S., &Gunduz, U. (2015). CpG-ODN taşıyıcıları olarak kitosan- ve poli(amidoamin) dendrimer-kaplı manyetik nanoparçacıkların karşılaştırılması. (Poster) *ODTÜ Biyoteknoloji 25. Yıl Etkinliği*, November 14, Ankara, Turkey, P11.
6. Parsian M., **Unsoy, G.**, Mutlu, P., Yalcin, S.,Taghavi N., &Gunduz, U. (2015). Anti-kanser İlacı Gemcitabin'in Taşınmasında Kitosan Kaplı Manyetik Nanoparçacıkların Kullanılması. (Poster) *ODTÜ Biyoteknoloji 25. Yıl Etkinliği*, November 14, Ankara, Turkey, P2.
7. Mutlu P., Mutlu M., YalçınS., Yaylacı A., **Ünsoy G.**, Saylam G., Akın I., GündüzU., Korkmaz H. (2014). Türk Toplumunda XRCC3 Thr241Met polimorfizmi ile larinks kanseri yatkınlığı arasındaki ilişkinin değerlendirilmesi. (Poster)36. *Türk Ulusal Kulak Burun Bogaz ve Bas Boyun Cerrahisi Kongresi*, (No:2808040)
8. **Unsoy, G.**, Yalcin, S., Khodadust, R., Mutlu, P., &Gunduz, U. (2012). Preparation of fluorescent IgG monoclonal antibody conjugated chitosan-coated magnetic nanoparticles for cancer theranostics. (Poster)*NANOTR VIII,8th Nanoscience and Nanotechnology Conference & 3th World Congress IANM*, June, 25-29, Hacettepe University, Ankara, Turkey, pp-342.
9. Yalcin, S., **Unsoy, G.**, Khodadust, R., Mutlu, P., Mumcuoğlu,D., &Gunduz, U. (2012). Cellular internalization of Poly-hydroxybutyrate (PHB) coated magnetic nanoparticles in MCF-7 cell lines. (Poster)*NANOTR VIII,8th Nanoscience and Nanotechnology Conference & 3th World Congress IANM*, June, 25-29, Hacettepe University, Ankara, Turkey,pp-264.
10. Khodadust, R., Mutlu, P., Yalcin, S., **Unsoy, G.**, & Gunduz, U. (2012). The cytotoxic analysis of free Doxorubicin and Doxorubicin loaded dendrimer coated magnetic nanoparticles on sensitive and Doxorubicin resistant MCF-7 cell lines. (Poster)*NANOTR VIII,8th Nanoscience and Nanotechnology Conference & 3th World Congress IANM*, June, 25-29, Hacettepe University, Ankara, Turkey,pp-262.
11. **Unsoy, G.**, Gunduz, G., Yakar, A., & Gunduz, U. (2011). Synthesis of iron-oxide nanoparticles for targeted drug delivery and their characterization. (Poster)*NANOTR VII, 7th Nanoscience and Nanotechnology Conference*, June 27-July 01, Sabancı University, Istanbul, Turkey, s.64.
12. Yakar, A., **Unsoy, G.**, Khodadust, R., Tansık, G., Keskin, T., & Gunduz, U. (2010). Preparation of PLGA and Chitosan-modified PLGA coated magnetite nanoparticles. (Poster)*NANOTR VI,6th Nanoscience and Nanotechnology Conference*, June 15-18, Çeşme, İzmir, Turkey,s.477.
13. Keskin, T., Tansık, G., Yakar, A., **Unsoy, G.**, Khodadust, R., & Gunduz, U. (2010). In vitro Cytotoxic Studies of Polymer Coated Magnetic Nanoparticles for Anti-Cancer Drug Delivery. (Poster)*NANOTR VI,6th Nanoscience and Nanotechnology Conference*, June 15-18, Çeşme, İzmir, Turkey,s.470.
14. Yakar, A., Tansık, G., Khodadust, R., Keskin, T., **Unsoy, G.**, & Gunduz, U. (2010). Synthesis of Magnetic Nanoparticles as a Targeting System for Drug Delivery. (Poster)*NANOTR VI,6th Nanoscience and Nanotechnology Conference*, June 15-18, Çeşme, İzmir, Turkey,s.476.
15. **Baydar, G.**, Kocabıyık, S., & Özdemir, İ. (2004). Recombinant 20S Proteasome of *Thermoplasma volcanium* and its Regulation. (Oral)31th*Türk Mikrobiyoloji Kongresi*, September, 19-23, Kuşadası, Aydın, Turkey, p.252.

Projects Involved

1. **METU – TÜBİTAK -1005** (Researcher): Preparation and Characterization of Mometasone Furoate Loaded Transmucosal Drug Carrier Protein Based Sericin Nanoparticles for the Treatment of Allergic Rhinitis, and their *in vitro* analysis on 3D Epithelial Cell Culture and *in vivo* analysis on Rat Allergic Rhinitis Model. SBAG:520426 **SUBMITTED**, (2019-).
2. **METU – TÜBİTAK -1002** (Advisor): Preparation of Tofacitinib Loaded Chitosan Coated Magnetic Nanoparticles and Investigation of Anti-inflammatory Efficacy for the Treatment of Rheumatoid Arthritis. SBAG: 515537 **SUBMITTED**, (2019-).
3. **Başkent University, School of Medicine, Department of Otolaryngology, Research Foundation Project** (Researcher): Preparation and characterization of transmucosal drug carrier nanoparticles containing mometasone furoate for use in the treatment of allergic rhinitis, their efficacy on 3D cell culture and rat allergic rhinitis model. (2019-2020).
4. **Başkent University, School of Medicine, Department of Medical Genetics, Research Foundation Project** (Researcher): Investigation of the efficacy of chitosan coated magnetic nanoparticles loaded with Tofacitinib in the treatment of rheumatoid arthritis. DA18/33, (2018-2019).
5. **Başkent University, School of Medicine, Department of Medical Genetics, Research Foundation Project** (Researcher): Evaluation of single nucleotide polymorphisms (SNPs) of Interleukin-1 gene in patients with gastric and esophageal cancer in Hakkari. KA18/354, (2018-2019).
6. **METU – TÜBİTAK -1003** (Researcher): Development of a Lab-on-a-Chip System for the Rare Cell Screening from Blood. EEEAG: 213E024, (2015-2018).
7. **METU – TÜBİTAK -3001** (Researcher): Determination of the relationship between the expression levels of genes in Wnt signaling pathways and Doxorubicin resistance. SBAG: 214S634, (2014-2017)
8. **METU – TÜBİTAK -1001** (Researcher): Idarubicin loaded magnetic nanoparticles synthesis and cytotoxicity analysis on MCF-7 breast cancer cell line. TBAG: 109T949, (2010-2012).
9. **METU - Gülhane Military School of Medicine Partner Project** (Researcher): *In vitro* and *in vivo* Toxicity and Efficiency analysis of Cyclosporin loaded chitosan-coated magnetic nanoparticles. BAP-08-11-2016-012.
10. **METU - Gülhane Military School of Medicine Partner Project** (Researcher): Efficacy Determination of Anti-cancer drug loaded PHB coated magnetic nanoparticles by immunocytochemistry analysis. BAP-08-11-2015-017.
11. **METU - Gülhane Military School of Medicine Partner Project** (Researcher): Immunocytochemistry analysis of Doxorubicin-loaded chitosan-coated magnetic nanoparticles on cancer cell line. BAP-08-11-2013-018.
12. **METU - Gülhane Military School of Medicine Partner Project** (Researcher): *In vivo* cytotoxicity analysis of synthesized polymer coated magnetic nanoparticles prepared for targeted drug delivery in cancer therapy. BAP-08-11-2012-012.
13. **METU Interdisciplinary Research Foundation Project** (Researcher): Molecular-based determination of cell surface charge differences on Doxorubicin resistant and sensitive breast cancer cell lines. BAP-07-02-2015-004.
14. **METU Interdisciplinary Research Foundation Project** (Researcher): Suppression of *SURVIVIN* gene expression in cancer cell line with siRNA loaded magnetic nanoparticles. BAP-07-02-2012-001.
15. **METU Interdisciplinary Research Foundation Project** (Researcher): Dendrimer coated magnetic nanoparticles application for drug targeting in cancer therapy. BAP-07-02-2010-06.
16. **METU Research Foundation Project** (Researcher): Investigation of the Nek6 effect on apoptosis, cell cycle, and invasion at prednisone resistant multiple myeloma cell lines. BAP-07-02-2014-003.
17. **METU Research Foundation Project** (Researcher): Biochemical characterization of recombinant 20S proteasome from *Tp.volcanium* and cloning of its regulatory subunit gene. BAP-2005-07-02-00-17.

Conferences, Courses & Workshops Participated

1. **Applied Mesenchymal Stem Cell Course**, Dokuz Eylül University - Cellular Therapy and Regenerative Medicine Society, (2011) February, İzmir, Turkey.
2. **2nd National Cellular Therapy and Regenerative Medicine Congress**, (2011) February 11-13, İzmir, Turkey.
3. **Health Communication and Ethics Symposium**, Başkent University, (2018) November 01-02, Ankara, Turkey.
4. **3rd National Biotechnology Student Summit**, Başkent University, (2018) December 08, Ankara, Turkey.
5. **3rd Basic Oncology Course**, Association of Clinical Oncology (2019) March 02-03, Wyndham Otel Ankara, Turkey.
6. **20th Biotechnology Congress with International Participation**, Başkent University, (2019) October 10-12, Ankara, Turkey.

Professional Experience

- **Başkent University, Medical School- Ankara Hospital (Assoc. Prof. Dr. in Medical Genetics)** 2018-
- **TÜBİTAK 1003 - EEEAG: 213E024 (Scientific Researcher in METU)** 2015-2018
- **TÜBİTAK 1001 - TBAG: 109T949 (Scientific Researcher in METU)** 2010-2012
- **Undersecretariat of Defence Industries, (Project Assistant STM personnel),** 2005-2008
- **ARI Engineering and Design, (Biologist in a Project)** 2001-2003
- **Gülhane Military School of Medicine (GATA), (Internship)** Aug 2000-Sept 2000

Lectures Given & Courses Offered

1. **TED University, Faculty of Arts and Sciences**, Spring 2019-2020, BIO 110_02 - Introduction to Modern Biology.
2. **TED University, Faculty of Arts and Sciences**, Fall 2019-2020, BIO 110_02 - Introduction to Modern Biology.
3. **TED University, Faculty of Arts and Sciences**, Spring 2018-2019, BIO 110_02 - Introduction to Modern Biology.