

# Prof. NAGİHAN GÜLSOY

## Personal Information

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## International Researcher IDs

ORCID: 0000-0003-3849-722X

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## Education Information

Doctorate, Marmara University, Faculty of Arts and Sciences, Biology, Turkey 1998 - 2003

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Biology, 2016 - Continues

Associate Professor, Marmara University, Faculty of Arts and Sciences, Biology, 2010 - Continues

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Biology, 2009 - 2010

## Academic and Administrative Experience

Marmara University, Faculty of Arts and Sciences, Biology, 2009 - Continues

Vice Dean, Marmara University, Faculty of Arts and Sciences, 2016 - 2019

Marmara University, Nanoteknoloji Ve Biyomalzemeler Uygulama Ve Araştırma Merkezi, 2015 - 2018

Marmara University, Faculty of Arts and Sciences, Biology, 2012 - 2017

## Courses

Animal embryology, Undergraduate, 2021 - 2022

Histology, Undergraduate, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Genotoxicity in the goldfish of TiO<sub>2</sub> nanoparticles combined with high CO<sub>2</sub> levels**  
BİLGİSEVEN I., GÜLSOY N.  
Mutation Research - Genetic Toxicology and Environmental Mutagenesis, vol.900, 2024 (SCI-Expanded)
- II. **Comparative genotoxic and histopathological effects of copper nanoparticles and copper chloride in goldfish (*Carassius auratus*)**  
Yavaş C., GÜLSOY N.  
Iranian Journal of Fisheries Sciences, vol.23, no.3, pp.485-503, 2024 (SCI-Expanded)
- III. **Effects of gallic acid on expressions of MMP-2 and MMP-9 through the pathway of p38/JNK in C6 glioma cells**  
Yaka E. B., Yazici Z. M. C., Ersoz M., GÜLSOY N.  
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.36, no.1, pp.59-66, 2023 (SCI-Expanded)
- IV. **Preparation and antimicrobial properties of LL-37 peptide immobilized lignin/caprolactone polymer film**  
OGAN A., Yuce-Dursun B., Abdullah D., Beyler-Cigil A., KAHRAMAN M. V., ÇAĞLAYAN P., BİRBİR M., MUTLU Ö., GÜLSOY N.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.31, no.10, pp.2222-2228, 2020 (SCI-Expanded)
- V. **Experimentation and analysis of powder injection molded Ti<sub>10</sub>Nb<sub>10</sub>Zr alloy: a promising candidate for electrochemical and biomedical application**  
Yemisci I., MUTLU Ö., GÜLSOY N., Kunal K., Atre S., GÜLSOY H. Ö.  
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.8, no.6, pp.5233-5245, 2019 (SCI-Expanded)
- VI. **Novel hydroxyapatite/graphene oxide/collagen bioactive composite coating on Ti<sub>16</sub>Nb alloys by electrodeposition**  
Yilmaz E., Cakiroglu B., Gokce A., Findik F., GÜLSOY H. Ö., GÜLSOY N., MUTLU Ö., Ozacar M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.101, pp.292-305, 2019 (SCI-Expanded)
- VII. **Comparative Analysis of the *Flavobacterium columnare* Genomovar I and II Genomes**  
Kumru S., Tekedar H. C., GÜLSOY N., Waldbieser G. C., Lawrence M. L., Karsi A.  
FRONTIERS IN MICROBIOLOGY, vol.8, 2017 (SCI-Expanded)
- VIII. **Effect of Zr, Nb and Ti addition on injection molded 316L stainless steel for bio-applications: Mechanical, electrochemical and biocompatibility properties**  
Gülsoy H. Ö., Pazarlioglu S. S., Gülsoy N., Gundede B., Mutlu Ö.  
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.51, pp.215-224, 2015 (SCI-Expanded)
- IX. **GENOTOXIC EFFECTS OF BORIC ACID AND BORAX IN ZEBRAFISH, DANIO RERIO USING ALKALINE COMET ASSAY**  
GÜLSOY N., Yavas C., MUTLU Ö.  
EXCLI JOURNAL, vol.14, pp.890-899, 2015 (SCI-Expanded)
- X. **Particle morphology influence on mechanical and biocompatibility properties of injection molded Ti alloy powder**  
GÜLSOY H. Ö., GÜLSOY N., Calisici R.  
BIO-MEDICAL MATERIALS AND ENGINEERING, vol.24, no.5, pp.1861-1873, 2014 (SCI-Expanded)
- XI. **Genome Sequence of the Fish Pathogen *Flavobacterium columnare* ATCC 49512**  
Tekedar H. C., Karsi A., Gillaspay A. F., Dyer D. W., Benton N. R., Zaitshik J., Vamenta S., Baner M. M., GÜLSOY N., Aboko-Cole M., et al.  
JOURNAL OF BACTERIOLOGY, vol.194, no.10, pp.2763-2764, 2012 (SCI-Expanded)
- XII. **Effect of boron addition on injection molded 316L stainless steel: Mechanical, corrosion properties and in vitro bioactivity**  
Bayraktaroglu E., GÜLSOY H. Ö., GÜLSOY N., Er O., KILIÇ H.  
BIO-MEDICAL MATERIALS AND ENGINEERING, vol.22, no.6, pp.333-349, 2012 (SCI-Expanded)
- XIII. **Proteomic analysis of the fish pathogen *Flavobacterium columnare***  
Dumpala P. R., GÜLSOY N., Lawrence M. L., Karsi A.

PROTEOME SCIENCE, vol.8, 2010 (SCI-Expanded)

**XIV. ULTRASTRUCTURAL ASPECTS OF PREVITELLOGENIC OOCYTE GROWTH IN HERMAPHRODITE SHARPSNOUT SEABREAM, DIPLODUS PUNTAZZO (TELEOSTEI, SPARIDAE)**

GÜLSOY N., Colak S.

ACTA BIOLOGICA HUNGARICA, vol.60, no.2, pp.159-166, 2009 (SCI-Expanded)

**XV. High-Throughput Bioluminescence-Based Mutant Screening Strategy for Identification of Bacterial Virulence Genes**

Karsi A., GÜLSOY N., Corb E., Dumpala P. R., Lawrence M. L.

APPLIED AND ENVIRONMENTAL MICROBIOLOGY, vol.75, no.7, pp.2166-2175, 2009 (SCI-Expanded)

## Articles Published in Other Journals

**I. Development of yolk nucleus of previtellogenic oocytes in rainbow trout *Oncorhynchus mykiss* studied by light microscopy**

GÜLSOY N.

Journal of Applied Biological Sciences, vol.1, no.2, pp.33-35, 2007 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. Hücre ve Moleküler Biyoloji Sözlüğü**

Gülsoy N. (Editor), Aydın Y. (Editor), Altınkut Uncuoğlu A. (Editor)

Nobel Yayın Dağıtım, İstanbul, 2014

## Refereed Congress / Symposium Publications in Proceedings

**I. Yüksek Karbondioksit ve Sıcaklık Koşullarında Titanyum Dioksit Nanopartikülünün Zebra Balığı (*Danio rerio*) Üzerindeki Genotoksik Etkileri**

Çakır B. Ü., Gülsoy N.

3.Uluslararası Lisansüstü Çalışmalar Kongresi / 3rd International Graduate Studies Congress, Burdur, Turkey, 14 - 17 June 2023, pp.938-939

**II. Effect of Sintering Conditions on Mechanical Properties of Injection Molded Ti10Nb10Zr Alloy for Bio-applications**

ışıl y., GÜLSOY N., GÜLSOY H. Ö.

Biomat2018, 12 - 16 March 2018

**III. NANO BAKIR OKSİT PARTİKÜLLERİNİN JAPON BALIĞI (*Carassius auratus*) SOLUNGAÇLARINDAKİ HİSTOPATOLOJİK ETKİLERİ**

Yavaş C., GÜLSOY N.

1. Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, 7 - 10 December 2017

**IV. Functional classification of proteins having role in cellular response to nanoparticles: A proteome-wide and bioinformatics approach**

MUTLU Ö., GÜLSOY N.

1st International Conference of Applied Sciences, Engineering and Mathematics (ICASEM 2017), 5 - 07 May 2017

**V. Powder Injection Molded of Ti10Nb10Zr Alloy for Bio applications Electrochemical Properties and Biocompatibility**

yemişçi İ., GÜLSOY H. Ö., MUTLU Ö., GÜLSOY N.

worldPM2016, 9 - 13 October 2016

**VI. Covalent immobilization of LL 37 onto lignin caprolactone based polymer and investigation of its antimicrobial activities**

OGAN A., YÜCE DURSUN B., Farah D. A., Ash B. C., ÇAĞLAYAN P., MUTLU Ö., KAHRAMAN M. V., GÜLSOY N., BİRBİR M.  
FEBS, 3 - 08 September 2016

- VII. **Protein interaction network construction and analysis using the quantitative proteomics data**  
MUTLU Ö., GÜLSOY N.  
Belgrade Bioinformatics 2016 Conference, Belgrat, Montenegro, 20 - 24 June 2016, pp.127
- VIII. **HASTANE ATIKSULARININ Carassius auratus BALIKLARINDAKİ GENOTOKSİK ETKİLERİNİN COMET YÖNTEMİYLE BELİRLENMESİ**  
KAYA S., GÜLSOY N.  
1st Urban Environment Health, Magosa, Cyprus (Kktc), 11 - 15 May 2016, vol.1, pp.338-341
- IX. **LL 37 Peptidinin Lignin Kaprolakton Polimerine İmmobilizasyonu ve Antimikrobiyal Özelliğinin İncelenmesi**  
FARAH D., OGAN A., YÜCE DURSUN B., BEYLER ÇİÇİL A., KAHRAMAN M. V., MUTLU Ö., GÜLSOY N., ÇAĞLAYAN P., BİRBİR M.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- X. **S MA057 LL 37 PEPTİDİNİN LİGNİN KAPROLAKTON POLİMERİNE İMMOBİLİZASYONU VE ANTİMİKROBİYAL ÖZELLİĞİNİN İNCELENMESİ**  
DEKA A. F., OGAN A., BEYLER ÇİÇİL A., KAHRAMAN M. V., MUTLU Ö., YÜCE DURSUN B., GÜLSOY N., ÇAĞLAYAN P., BİRBİR M.  
27. Ulusal Kimya Kongresi 23-28 August 2015, Turkey, 23 - 28 August 2015
- XI. **Enhancing the corrosion resistance and biocompatibility of injection molded 316L stainless steel for Bio applications**  
PAZARLIOĞLU S. S., BÜŞRA G., MUTLU Ö., GÜLSOY N., GÜLSOY H. Ö.  
16th International Scientific Congress, CNIC 2015, 22 - 24 June 2015
- XII. **Enhancing the Corrosion Resistance and Biocompatibility of Injection Molded 316L Stainless Steel for Bio applications**  
PAZARLIOĞLU S. S., Büşra G., MUTLU Ö., GÜLSOY N., GÜLSOY H. Ö.  
16. International Scientific Congress CNIC 2015, 22 - 26 June 2015
- XIII. **Effect of Ti Nb and Zr Additives on Biocompatibility of Injection molded 316L Stainless Steel for Biomedical Application**  
Büşra G., MUTLU Ö., GÜLSOY N.  
ICMIBE 2015: XIII International Conference on Medical Informatics and Biomedical Engineering, 26 - 27 February 2015
- XIV. **Structure Analysis and Cytotoxic Evaluation of the ZnO Nanoparticles on Human Dermal Fibroblast Cells**  
MUTLU Ö., GÜLSOY N.  
ICMIBE 2015: XIII International Conference on Medical Informatics and Biomedical Engineering, 26 - 27 February 2015
- XV. **Effect of Ti Nb and Zr Additives on Biocompatibility of Injection molded 316L Stainless Steel for Biomedical Applications**  
MUTLU Ö., GÜLSOY N.  
Biomedical and Biological Engineering Conferences, 26 - 27 February 2015
- XVI. **Determination of genotoxic effects of boron in wheat (Triticum aestivum L.) by comet assay**  
Sahin E. C., Akgul N., Dayi S., Ismailoglu I., VARDAR F., GÜLSOY N., AYDIN Y.  
Eurobiotech Agriculture Symposium, Kayseri, Turkey, 12 - 14 April 2012, vol.161, pp.46

## Metrics

Publication: 35

Citation (WoS): 266

Citation (Scopus): 222

H-Index (WoS): 9

H-Index (Scopus): 9

## **Non Academic Experience**

Biruni Tibbi Tahlil Laboratuvarı

Ahmet Hamdi tanpınar İ.Ö.Ö