

## **Assoc. Prof. NESLİHAN TOYRAN ALOTAİBİ**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: AAA-5195-2022

Yoksis Researcher ID: 101991

### **Education Information**

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoloji (Dr), Turkey  
1999 - 2003

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoloji (YI) (Tezli),  
Turkey 1997 - 1999

Undergraduate, Middle East Technical University, Faculty Of Education, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi  
Bölümü, Turkey 1993 - 1997

### **Dissertations**

Doctorate, Molecular approach with fourier transform infrared spectroscopy to different pathological systems (diabetes mellitus and arteriovenous malformation) with various treatments, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), 2003

Postgraduate, The Effect of divalent ions on antioxidant phospholipid model membrane interactions, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), 1999

### **Research Areas**

Biophysics

### **Academic Titles / Tasks**

Associate Professor, Dokuz Eylul University, Sağlık Hizmetleri Meslek Yüksekokulu, Tibbi Hizmetler ve Teknikler Bölümü,  
2015 - Continues

Associate Professor, Baskent University, School Of Medicine, Department Of Basic Medical Sciences, 2013 - 2015

Expert, Baskent University, School Of Medicine, Department Of Basic Medical Sciences, 2012 - 2013

Assistant Professor, Baskent University, School Of Medicine, Department Of Basic Medical Sciences, 2005 - 2010

Lecturer, Baskent University, School Of Medicine, Department Of Basic Medical Sciences, 2003 - 2005

Research Assistant, Middle East Technical University, Fen-Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 1997 - 2003

## Courses

Temel Laboratuvar Uygulamaları II (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Fizyoloji (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Temel Laboratuvar Uygulamaları II (Uygulama), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Fizyoloji (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
İngilizce Okuma ve Konuşma, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Moleküler Biyolojik Yöntemler (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Fizyoloji (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
FİZYOLOJİ (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Temel Laboratuvar Uygulamaları I (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Mesleki İngilizce I (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023  
Fizyoloji (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Temel Laboratuvar Uygulamaları I (Uygulama), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
FİZYOLOJİ (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Fizyoloji (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
İngilizce Okuma ve Konuşma (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
FİZYOLOJİ (Teorik), Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022  
HÜCRE BİLGİSİ (Teorik), Associate Degree, 2021 - 2022  
Mesleki İngilizce, Associate Degree, 2015 - 2016, 2014 - 2015  
Fizyoloji, Associate Degree, 2015 - 2016  
Fizyoloji, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004  
Meslek Etiği, Associate Degree, 2014 - 2015  
Biyofizik, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004  
İnsan Anatomisi ve Fizyolojisi, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004  
Experimental Techniques in Molecular Biology Laboratory, Undergraduate, 2002 - 2003, 2000 - 2001  
Molecular and Cellular Biology Laboratory, Undergraduate, 2002 - 2003, 2000 - 2001  
Experimental Techniques in Biology Laboratory , Undergraduate, 2002 - 2003, 2000 - 2001

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

- I. DETERMINING THE RELATIONSHIP BETWEEN HEALTH TECHNICIAN STUDENTS' ATTITUDES TO THE COVID-19 PANDEMIC AND INTOLERANCE OF UNCERTAINTY WITH DEPRESSION, ANXIETY, AND STRESS LEVELS  
AÇIKGÖZ A., Yoruk S., Toyran N., Guler D. S.  
Psychiatria Danubina, vol.35, no.4, pp.544-553, 2023 (SCI-Expanded)
- II. An evaluation of the effectiveness of dental health training administered at a health services school  
Kılınç G., Açıkgöz A., Koca B., Toyran Al Otabi N., Güldaş N.  
HEALTH PROMOTION JOURNAL OF AUSTRALIA, vol.32, no.2, pp.295-302, 2021 (SSCI)
- III. The Transcription Factor Elf3 Is Essential for a Successful Mesenchymal to Epithelial Transition  
Sengez B., Aygun I., Shehwana H., TOYRAN ALOTAİBİ N., Avci S. T., KONU KARAKAYALI Ö., Stemmler M. P., Alotaibi H.  
CELLS, vol.8, no.8, 2019 (SCI-Expanded)
- IV. Exposure to continuous darkness leads to atypical symptoms of seasonal affective disorder in rats  
Isman C. A., Toyran N., Gundogan N. U.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.40, no.2, pp.271-277, 2010 (SCI-Expanded)
- V. The Effect of Cellular Phone on Cancer: Review

- Toyran N.  
TÜRKİYE KLINIKLERİ TIP BİLİMLERİ DERGİSİ, vol.28, no.6, pp.933-941, 2008 (SCI-Expanded)
- VI. Fourier Transform Infrared Microspectroscopy Technique: Review  
Toyran N.  
TÜRKİYE KLINIKLERİ TIP BİLİMLERİ DERGİSİ, vol.28, no.5, pp.704-714, 2008 (SCI-Expanded)
- VII. Effects of selenium supplementation on rat heart apex and right ventricle myocardia by using FTIR spectroscopy: A cluster analysis and neural network approach  
Toyran N., Severcan F., Severcan M., Turan B.  
FOOD CHEMISTRY, vol.110, no.3, pp.590-597, 2008 (SCI-Expanded)
- VIII. Interaction between vitamin D-2 and magnesium in liposomes: Differential scanning calorimetry and FTIR spectroscopy studies  
Toyran N., Severcan F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.839, no.1-3, pp.19-27, 2007 (SCI-Expanded)
- IX. Selenium alters the lipid content and protein profile of rat heart: An FTIR micro spectroscopic study  
Toyran N., Turan B., Severcan F.  
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.458, no.2, pp.184-193, 2007 (SCI-Expanded)
- X. Investigation of diabetes-induced effect on apex of rat heart myocardium by using cluster analysis and neural network approach: An FTIR study  
Toyran N., Severcan F., Severcan M., Turan B.  
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, vol.21, no.5-6, pp.269-278, 2007 (SCI-Expanded)
- XI. Early alterations in myocardia and vessels of the diabetic rat heart: an FTIR microspectroscopic study  
Toyran N., Lasch P., Naumann D., Turan B., Severcan F.  
BIOCHEMICAL JOURNAL, vol.397, pp.427-436, 2006 (SCI-Expanded)
- XII. Effect of stereotactic radiosurgery on lipids and proteins of normal and hypoperfused rat brain homogenates: A Fourier transform infrared spectroscopy study  
Toyran N., Zorlu F., Severcan F.  
INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.81, no.12, pp.911-918, 2005 (SCI-Expanded)
- XIII. Chronic hypoperfusion alters the content and structure of proteins and lipids of rat brain homogenates: a Fourier transform infrared spectroscopy study  
Toyran N., Zorlu F., Donmez G., Oge K., Severcan F.  
EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS, vol.33, no.6, pp.549-554, 2004 (SCI-Expanded)
- XIV. Competitive effect of vitamin D-2 and Ca<sup>2+</sup> on phospholipid model membranes: an FTIR study  
Toyran N., Severcan F.  
CHEMISTRY AND PHYSICS OF LIPIDS, vol.123, no.2, pp.165-176, 2003 (SCI-Expanded)
- XV. Infrared spectroscopic studies on the dipalmitoyl phosphatidylcholine bilayer interactions with calcium phosphate: Effect of vitamin D-2  
Toyran N., Severcan F.  
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, vol.16, no.3-4, pp.399-408, 2002 (SCI-Expanded)
- XVI. Vitamin D-2 at high and low concentrations exert opposing effects on molecular order and dynamics of dipalmitoyl phosphatidylcholine membranes  
Kazancı N., Toyran N., Haris P., Severcan F.  
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, vol.15, no.2, pp.47-55, 2001 (SCI-Expanded)
- XVII. Fourier transform infrared study of the effect of diabetes on rat liver and heart tissues in the C-H region  
Severcan F., Toyran N., Kaptan N., Turan B.  
TALANTA, vol.53, no.1, pp.55-59, 2000 (SCI-Expanded)
- XVIII. The effect of magnesium ions on vitamin D-2-phospholipid model membrane interactions in the presence of different buffer media  
Toyran N., Severcan F.  
TALANTA, vol.53, no.1, pp.23-27, 2000 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. THE EFFECT OF SOCIOECONOMIC STATUS AND ENVIRONMENTAL FACTORS ON HEALTH TECHNICIAN STUDENTS' USE OF TOBACCO PRODUCTS  
Kılınç G., Açıkgöz A., Kılınç O., Toyran Alotaibi N.  
JOURNAL OF BASIC AND CLINICAL HEALTH SCIENCES, vol.8, no.1, pp.65-74, 2024 (ESCI)
- II. Evaluating The Transcriptional Regulation of Cdh1 by Grhl3 in Different Cellular Models  
Alotaibi N., Alotaibi H.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.4, 2022 (Peer-Reviewed Journal)
- III. Relation between visio spatial abilities and academic success Baskent University Medical Faculty experience  
KIZILTAN E., YAZICI A. C., TOYRAN AL OTAİBİ N., Bodur B., FATMA PELİN Ç., ERDEM İ., KAYA T., GAMZE Ö.  
Turkiye Klinikleri J Med Sci, vol.35, no.3, pp.138-145, 2015 (Scopus)
- IV. Effects of sulindac and naproxen on model membrane dynamics  
TOYRAN AL OTAİBİ N., GÜNDÖĞAN N. Ü., Bayhan A.  
Biotechnology: an Indian Journal, vol.11, no.3, pp.102-108, 2015 (Scopus)
- V. Fourier Transform İnfrared Mikrospektroskopı Tekniği Fourier Transform Infrared Microspectroscopy Technique Review  
TOYRAN AL OTAİBİ N.  
Turkiye Klinikleri J Med Sci, vol.28, pp.704-714, 2008 (Peer-Reviewed Journal)
- VI. Cep Telefonunun Kanser Üzerine Etkisi The Effect of Cellular Phone on Cancer Review  
TOYRAN AL OTAİBİ N.  
Turkiye Klinikleri J Med Sci, vol.28, no.6, pp.933-941, 2008 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. The role of selenium treatment on diabetes-induced changes in rat heart at the molecular level  
Toyran N., Turan B., Severcan F.  
25th Annual Scientific Session of the European Section of the International-Society-for-Heart-Research, Tromso, Norway, 21 - 25 June 2005, vol.38, pp.1066
- II. Divalent İyon Vitamin D2 DPPC Model Membran Etkileşmesinin FTIR Spektroskopik Tekniği Kullanılarak İncelenmesi  
TOYRAN AL OTAİBİ N., Feride S.  
XI. Ulusal Biyofizik Kongresi, Turkey, 31 October - 02 November 1999, pp.35
- III. Kalsiyum iyonunun değişik tampon çözelti ortamında antioksidan fosfolipit model membran etkileşimindeki etkisi  
TOYRAN AL OTAİBİ N., Feride S., Eker F.  
X. Ulusal Biyofizik Kongresi, Turkey, 10 - 12 September 1998

## **Metrics**

Publication: 27

Citation (WoS): 506

Citation (Scopus): 19

H-Index (WoS): 11

H-Index (Scopus): 1