

## **Prof. PELİN ARIBAL AYRAL**

### **Personal Information**

**Office Phone:** [+90 312 595 8230](tel:+903125958230)

**Email:** [payral@ankara.edu.tr](mailto:payral@ankara.edu.tr)

**Web:** <https://avesis.ankara.edu.tr/payral>

### **International Researcher IDs**

ORCID: 0000-0002-5047-7881

Publons / Web Of Science ResearcherID: AAJ-1044-2020

ScopusID: 6504308127

Yoksis Researcher ID: 107536

### **Education Information**

Doctorate, Ankara University, Tıp Fakültesi, Turkey 1994 - 1998

Undergraduate, Ankara University, Tıp Fakültesi, Turkey 1987 - 1993

### **Foreign Languages**

French, C1 Advanced

### **Dissertations**

Doctorate, "Rat Testis Dokusu Üzerine Akut Borik Asit Uygulamasının Fizyopatolojik ve Histopatolojik Etkileri", Ankara University, Tıp Fakültesi, 1998

### **Research Areas**

Medicine, Health Sciences

### **Academic Titles / Tasks**

Professor, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2009 - Continues

Associate Professor, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2003 - 2009

Assistant Professor, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2001 - 2003

Lecturer PhD, Ankara University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 1998 - 2001

### **Academic and Administrative Experience**

Vice Dean, Ankara University, Tıp Fakültesi, 2017 - 2020

Head of Department, Ankara University, Tıp Fakültesi, 2011 - 2017

## Courses

Bulantı-Kusma Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Obezite Fizyopatolojisi 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Malabsorpsiyon Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Özefagus Fonksiyon Bozukluklarının (Yutma Güçlüğü, Motilite Bozukluğu, Reflü) Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Gastrointestinal Sistem Semptom ve Bulgularının Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Diyare ve Konstipasyon Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Stres Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Karın Ağrısı Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Uzmanlık Alan Dersi, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Obezite Fizyopatolojisi 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Tez Çalışması, Doctorate, 2022 - 2023, 2021 - 2022

Sarılık Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Seminer, Doctorate, 2022 - 2023, 2020 - 2021

Tez Çalışması, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Ateroskleroz Komplikasyonlarının Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Eritrosit Yapım Eksikliğine Bağlı Anemi Mekanizmaları, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

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Solunum Sistemi Hastalıklarında Semptomların Fizyopatolojisi-1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003  
Programa Dayalı Eğitim, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

İştah ve Duysal Bozuklukların Fizyopatolojisi, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Kalp Hastalıklarında Semptomların Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Anemilerin Sistemler Üzerine Etkileri, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Uzmanlık Alan Dersi, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Hipertansiyon Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

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Restriktif Solunum Bozuklukları Fizyopatolojisi , Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Egzersizde İleri Beslenme, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Hemoliz ve Hemolitik Anemi Mekanizmaları, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Kilo Kaybı Fizyopatolojisi , Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Genel Ağrı Fizyopatolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Konjenital Kalp Hastalıklarında Hemodinamik Değişiklikler, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Pulmoner Dolaşım Bozukluklarının Oluş Mekanizmaları (Pulmoner Emboli, Pulmoner Arteriyel, Venöz Hipertansiyon, Kor Pulmonale), Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Ateroskleroz Hemodinami ve Risk Faktörleri, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Yeterliçe Hazırlık Çalışması, Doctorate, 2021 - 2022

Tez Çalışması, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Eritrositer Seri Bozuklukları, Doctorate, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016  
Beslenme İle İlişkili Deneysel Hastalık Modelleri - Uygulama, Postgraduate, 2018 - 2019, 2017 - 2018  
Glukoz Metabolizması Bozuklukları ve Beslenme, Postgraduate, 2018 - 2019, 2017 - 2018  
Yeterliçe Hazırlık Çalışması, Doctorate, 2019 - 2020, 2015 - 2016  
Beslenme İle İlişkili Deneysel Hastalık Modelleri, Postgraduate, 2018 - 2019, 2017 - 2018  
Laboratuar Yöntemleri - II, Doctorate, 2018 - 2019, 2016 - 2017, 2015 - 2016  
Pulmoner Dolaşım Bozuklukları, Doctorate, 2016 - 2017, 2015 - 2016  
Alan Uygulaması 2, Doctorate, 2016 - 2017  
Eser Element ve Vitamin Eksikliği ve Fazlalığında Gelişen Bozuklukların Mekanizmaları, Doctorate, 2016 - 2017, 2015 - 2016  
Alan Uygulaması 4, Doctorate, 2016 - 2017

## Advising Theses

Arıbal Ayral P., Tıp fakültesi öğrencilerinin COVID-19 döneminde gıda takviyesi kullanımı, beslenme alışkanlıkları, fiziksel aktivite düzeyi ve depresyon-anksiyete-stres düzeylerinin değerlendirilmesi, Postgraduate, T.BAHADOR(Student), 2022  
Arıbal Ayral P., İnterstisyel Akciğer Hastalarında Bronkoalveolar Lavajda Bakır ve Çinko Analizi, Doctorate, M.YALAZA(Student), 2022  
ARIBAL AYRAL P., Askorbik asidin sıçanlarda iskelet kası iyileşme sürecine etkisi, Postgraduate, S.İŞİN(Student), 2020  
ARIBAL AYRAL P., Miyom uterili hastalarda bazı oksidan ve anti-oksidan maddelerin düzeyi, Doctorate, K.ÇETİNKAYA(Student), 2019

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

- I. **Effect of ascorbic acid on collagen and some inflammatory mediators in rats**  
İşin S., YAZIHAN N., KESİKLİ B., Biriken D., Akdaş S., TOPAL ÇELİKKAN F., BAKIRARAR B., ARIBAL AYRAL P.  
Ankara Üniversitesi Veteriner Fakültesi Dergisi, vol.70, no.3, pp.303-308, 2023 (SCI-Expanded)
- II. **Evaluation of the safety and efficacy of Advax(TM) as an adjuvant: A systematic review and meta-analysis**  
Akin I., Akdas S., Ceylan M. N., Altiner S., ARIBAL AYRAL P., YAZIHAN N.  
ADVANCES IN MEDICAL SCIENCES, vol.67, no.1, pp.10-17, 2022 (SCI-Expanded)
- III. **Is carnosine effective to alleviate lung injury: a systematic review**  
Yalaza M., Akin I., Altiner S., ARIBAL AYRAL P., YAZIHAN N.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.47, no.1, pp.1-7, 2022 (SCI-Expanded)
- IV. **Maternal selenium status plays a crucial role on clinical outcomes of pregnant women with COVID-19 infection**  
Erol S. A., POLAT N., Akdas S., ARIBAL AYRAL P., Anuk A. T., Ozden Tokalioglu E., Goncu Ayhan S., KESİKLİ B., Ceylan M. N., Tanacan A., et al.  
JOURNAL OF MEDICAL VIROLOGY, vol.93, no.9, pp.5438-5445, 2021 (SCI-Expanded)
- V. **Vitamin D3'ün Monositlerin İmmün Yanıtı Üzerindeki Rolü**  
BİRİKEN D., ARIBAL AYRAL P., YAZIHAN N.  
MIKROBİYOLOJİ BULTENİ, vol.55, no.3, pp.406-414, 2021 (SCI-Expanded)
- VI. **The Relationship Between Metabolic Syndrome Development and Tissue Trace Elements Status and Inflammatory Markers**  
Akdas S., Turan B., DURAK A., ARIBAL AYRAL P., YAZIHAN N.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.198, no.1, pp.16-24, 2020 (SCI-Expanded)
- VII. **Effect of fenofibrate on serum nitric oxide levels in patients with hypertriglyceridemia**

Esenboga K., ÇİÇEK Ö. F., Oktay A. A., ARIBAL AYRAL P., Gurlek A.

ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE, vol.28, no.7, pp.951-956, 2019 (SCI-Expanded)

- VIII. **Antioxidant effects of vitamin D on lacrimal glands against high dose radioiodine-associated damage in an animal model**  
Eksioglu U., ATILGAN H. İ., Yakin M., YAZIHAN N., Altiparmak U. E., YUMUŞAK N., Korkmaz M., DEMİR A., Ornek F., ARIBAL AYRAL P., et al.  
CUTANEOUS AND OCULAR TOXICOLOGY, vol.38, no.1, pp.18-24, 2019 (SCI-Expanded)
- IX. **Serum nitric oxide levels in patients with coronary artery ectasia**  
Gurlek A., Esenboga K., Ozcan O. U., Cicek O. F., ARIBAL AYRAL P., Kavas G. O., EROL Ç.  
ANATOLIAN JOURNAL OF CARDIOLOGY, vol.16, no.12, pp.947-952, 2016 (SCI-Expanded)
- X. **Pycnogenol (R) supplementation and its beneficial effects in healthy rats**  
ARIBAL AYRAL P., Ozelci-Kavas G., ELHAN A. H.  
SAUDI MEDICAL JOURNAL, vol.35, no.2, pp.195-197, 2014 (SCI-Expanded)
- XI. **The Effects of Resveratrol on Oxidant/Antioxidant Systems and Their Cofactors in Rats**  
Kavas G. O., ARIBAL AYRAL P., ELHAN A. H.  
ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE, vol.22, no.2, pp.151-155, 2013 (SCI-Expanded)
- XII. **Serum Nitric Oxide Levels in Patients with Isolated Coronary Artery Ectasia**  
Gurlek A., ESENBOĞA K., ÖZCAN Ö. U., ARIBAL AYRAL P., Kavas G. Ö.  
AMERICAN JOURNAL OF CARDIOLOGY, vol.62, no.18, 2013 (SCI-Expanded)
- XIII. **INTRA-ERYTHROCYTE MAGNESIUM LEVELS AND THEIR CLINICAL IMPLICATIONS IN GERIATRIC OUTPATIENTS**  
Ulger Z., Ariogul S., CANKURTARAN M., Halil M., Yavuz B. B., Orhan B., Kavas G. O., Aribal P., Canlar S., Dede D. S., et al.  
JOURNAL OF NUTRITION HEALTH & AGING, vol.14, no.10, pp.810-814, 2010 (SCI-Expanded)
- XIV. **How Does Resveratrol Change Some Metabolic and Circulatory Parameters? A Preliminary Study**  
ARIBAL AYRAL P., Kavas G. O., Coban U., ELHAN A. H.  
ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE, vol.18, no.4, pp.323-328, 2009 (SCI-Expanded)
- XV. **A comparative study on copper and zinc concentrations in geriatric individuals**  
Ulger Z., Ariogul S., Orhan B., Kavas G. O., Aribal P., Akyol O.  
TRACE ELEMENTS AND ELECTROLYTES, vol.25, no.2, pp.75-78, 2008 (SCI-Expanded)
- XVI. **Resveratrol: Is there any effect on healthy subject?**  
Kavas G. O., Aribal-Kocatuerk P., Bueyuekkagnici D. I.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.118, no.3, pp.250-254, 2007 (SCI-Expanded)
- XVII. **Pretreatment effect of resveratrol on streptozotocin-induced diabetes in rats**  
Aribal-Kocatürk P., Özelçi Kavas G., İren Büyükkagnici D.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.118, pp.244-249, 2007 (SCI-Expanded)
- XVIII. **Effect of an inhibitor of nitric oxide production on Cu-Zn/SOD and its cofactors in diabetic rats.**  
Kocaturk P., Kavas G. O.  
Biological trace element research, vol.115, no.1, pp.59-65, 2007 (SCI-Expanded)
- XIX. **Resveratrol effects on streptozotocin-induced diabetes**  
Kocaturk P., Kavas G. O.  
TRACE ELEMENTS AND ELECTROLYTES, vol.24, no.2, pp.112-116, 2007 (SCI-Expanded)
- XX. **Evaluation of red blood cell superoxide dismutase, catalase, zinc and copper, and plasma zinc and copper levels in mice exposed to dark induced stress**  
TEKŞEN A. F., Bilgili A., Kocaturk P., ALTINTAŞ L.  
BULLETIN OF THE VETERINARY INSTITUTE IN PULAWY, vol.51, no.1, pp.173-176, 2007 (SCI-Expanded)
- XXI. **Intracellular antioxidant enzyme activities are increased in ALS**  
Kavas G. O., Kocaturk P., Tuncel D., Aydin N., Sarikaya S.  
TRACE ELEMENTS AND ELECTROLYTES, vol.24, no.2, pp.75-79, 2007 (SCI-Expanded)
- XXII. **Red cell superoxide dismutase activity in sporadic amyotrophic lateral sclerosis**  
Tuncel D., Aydin N., Kocaturk P., Kavas G. O., Sarikaya S.

- JOURNAL OF CLINICAL NEUROSCIENCE, vol.13, no.10, pp.991-994, 2006 (SCI-Expanded)
- XXIII. **Effects of subacute boric acid administration on rat kidney tissue**  
Sabuncuoglu B., Kocaturk P., YAMAN M. Ö., Kavas G. O., Tekelioglu M.  
CLINICAL TOXICOLOGY, vol.44, no.3, pp.249-253, 2006 (SCI-Expanded)
- XXIV. **Influences of ascorbic acid on interaction between endothelin-1 and oxidative-nitrosative stress markers**  
Kavas G. O., Kocaturk P.  
TRACE ELEMENTS AND ELECTROLYTES, vol.23, no.3, pp.199-204, 2006 (SCI-Expanded)
- XXV. **Comparison of the plasma and hernia sac tissue copper levels in direct and indirect inguinal hernia patients**  
Kayaoglu H., Hazinedaroglu S. M., ERKEK A. B., Kocaturk P., Kavas G., Aribal D.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.108, no.1-3, pp.53-59, 2005 (SCI-Expanded)
- XXVI. **Serum copper and zinc concentrations in patients with brucellosis**  
Cesur S., Kocaturk P., Kavas G., Aksaray S., Tezeren D., Ciftci U.  
JOURNAL OF INFECTION, vol.50, no.1, pp.31-33, 2005 (SCI-Expanded)
- XXVII. **Effects of subacute boric acid administration on rat testis tissue**  
Kocaturk P., YAMAN M. Ö., Sabuncuoglu B., Kavas G., Tekelioglu M.  
TRACE ELEMENTS AND ELECTROLYTES, vol.22, no.4, pp.263-267, 2005 (SCI-Expanded)
- XXVIII. **Endothelin-1 induced alterations in oxidative-nitrosative stress markers**  
Kocaturk P., Kavas G., Cebeci S.  
SAUDI MEDICAL JOURNAL, vol.25, no.12, pp.1835-1838, 2004 (SCI-Expanded)
- XXIX. **Superoxide dismutase activity and zinc and copper concentrations in growth retardation**  
Kocaturk P., Kavas G., Erdeve Ö., ŞIKLAR Z.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.102, no.1-3, pp.51-59, 2004 (SCI-Expanded)
- XXX. **Antioxidant superoxide dismutase activity in obese children**  
Erdeve Ö., ŞIKLAR Z., Kocaturk P., Dallar Y., Kavas G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.98, no.3, pp.219-227, 2004 (SCI-Expanded)
- XXXI. **Trace element status in plasma and erythrocytes in hyperemesis gravidarum**  
DÖKMECİ F., Engin-Ustun Y., Ustun Y., Kavas G., Kocaturk P.  
JOURNAL OF REPRODUCTIVE MEDICINE, vol.49, no.3, pp.200-204, 2004 (SCI-Expanded)
- XXXII. **Does impaired endothelium-dependent relaxation affect superoxide scavenging?**  
Cebeci S., Kocaturk P., Kavas G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.90, no.1-3, pp.239-249, 2002 (SCI-Expanded)
- XXXIII. **Zinc treatment affects superoxide dismutase activity in growth retardation**  
Kocaturk P., ŞIKLAR Z., Kavas G., Dallar Y., Tanyer G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.90, no.1-3, pp.39-46, 2002 (SCI-Expanded)
- XXXIV. **Erythrocyte superoxide dismutase activity differs in clinical subgroups of Parkinson's disease patients**  
AKBOSTANCI M. C., Kocaturk P., Tan F., Kavas G.  
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- XXXV. **Antioxidant status in cerebrovascular accident**  
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- XXXVI. **The effects of L-carnitine treatment on left ventricular function and erythrocyte superoxide dismutase activity in patients with ischemic cardiomyopathy**  
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- XXXVII. **Trace elements and superoxide dismutase in benign and malignant breast diseases**  
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- XXXVIII. **Antioxidant defence system in a patient with cerebrovascular accident**

## Articles Published in Other Journals

- I. **Level of Certain Oxidants and Antioxidants in Patients with Uterine Fibroids**  
ÇETİNKAYA K., ARIBAL AYRAL P., ÇETİNKAYA S., YAZIHAN N., ATASEVER M., EREL Ö.  
GYNECOLOGY OBSTETRICS & REPRODUCTIVE MEDICINE (GORM), vol.25, no.3, pp.158-162, 2019 (Peer-Reviewed Journal)
- II. **Copper, zinc and magnesium status in hyperemesis gravidarum**  
TEKŞEN A. F., DÖKMECİ F., Kavas G., ARIBAL AYRAL P., Cengiz L.  
Journal of Obstetrics and Gynaecology, vol.21, no.1, pp.46-48, 2001 (Scopus)

## Books & Book Chapters

- I. **Kardiyovasküler Sistem**  
Arıbal Ayral P.  
in: Propedötik, Hasta Yakınmaları, Belirtiler, Muayene Bulguları ve Tanı, Prof. Dr. Dikmen Arıbal, Editor, Pelikan Tıp & Teknik Kitapçılık, Ankara, pp.213-281, 2015
- II. **Mide Fizyolojisi-Fizyopatolojisi**  
Arıbal Kocaturk P.  
in: Mide Kanseri, Prof. Dr. Necati Örmeci, Editor, Kalkan Matbaası, Ankara, pp.9-45, 2005
- III. **Anorektal Bölge Fizyolojisi ve Fizyopatolojisi**  
Arıbal Kocaturk P.  
in: Anorektal Bölge Hastalıkları, Prof. Dr. Necati Örmeci, Editor, Türkiye Klinikleri Yayınevi, Ankara, pp.19-54, 2001
- IV. **Diabetik Komplikasyonların Fizyopatolojisinde Nitrik Oksitin Rolü**  
Arıbal Kocaturk P.  
in: Ankara Üniversitesi Tıp Fakültesi, İç Hastalıkları ABD 2000-2001 Öğretim Yılı Araştırma Görevlileri Eğitim Programı Seminer Kitabı, Ankara Üniversitesi Tıp Fakültesi İç Hastalıkları Anabilim Dalı, Editor, ANTIP, Ankara, pp.1-11, 2001
- V. **Siyanoz Fizyopatolojisi ve Tipleri**  
Arıbal Kocaturk P.  
in: Klinik Bilimlere Giriş 2, Semptom ve Bulguların Analizi, Prof. Dr. İsfendiyar Candan, Editor, Ankara Üniversitesi Tıp Fakültesi, Antip A.Ş. Yayınları, Ankara, pp.203-211, 1999
- VI. **Stres ve Yarattığı Fizyopatolojik Olaylar**  
Arıbal Kocaturk P.  
in: Klinik Bilimlere Giriş 2, Semptom ve Bulguların Analizi, Prof. Dr. İsfendiyar Candan, Editor, Ankara Üniversitesi Tıp Fakültesi, Antip A.Ş. Yayınları, Ankara, pp.3-17, 1999

## Refereed Congress / Symposium Publications in Proceedings

- I. **The relationship between metabolic syndrome development and tissue trace elements status and inflammatory markers**  
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The 6th Meeting of International Society for Zinc Biology (ISZB2019), 9 - 13 September 2019
- II. **Level Of Certain Oxidants And Antioxidants In Patients With Uterine Myoma**  
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- III. **Antioxidant Effects of Vitamin D on Lacrimal Glands against High Dose Radioiodine-Associated Damage in an Animal Model**  
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- IV. **Midkine expression in Radioiodine Therapy-Associated damage of lacrimal, sublingual and parotis glands**  
YAZIHAN N., BİLLUR D., ATILGAN H. İ., KOCA G., EKŞİOĞLU Ü., ARIBAL AYRAL P., KORKMAZ M.  
Fifth Midkine Symposium, Munich, Germany, 3 - 05 May 2018
- V. **Midkine Expression in Radioiodine Therapy-Associated Damage of Lacrimal, Sublingual and Parotid Glands.**  
YAZIHAN N., BİLLUR D., ATILGAN H. İ., KOCA G., EKŞİOĞLU Ü., ARIBAL AYRAL P., KORKMAZ M.  
Fifth Midkine Symposium, Munich, Germany, 3 - 05 May 2018
- VI. **Pivotal Role of Vitamin D3 in Immune Responses of Monocytes in Normo and Hyperglycemia**  
Biriken D., ARIBAL AYRAL P., YAZIHAN N.  
1st International Food and Medicine Congress-2018, 24 - 27 May 2018
- VII. **Food and Health Education in Academia: Interdisciplinary approach: Transformation of Education in Medical Faculties**  
Biriken D., ARIBAL AYRAL P., YAZIHAN N.  
1st International Food and Medicine Congress-2018, 24 - 27 May 2018
- VIII. **Low Magnesium Status Could Be One of the Risk Factors for Gestational Diabetes: A Systematic Review**  
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Pivotal Role of Vitamin D3 in Immune Responses of Monocytes in Normo and Hyperglycemia, 24 - 27 May 2018
- IX. **Dispne Fizyopatolojisi**  
ARIBAL AYRAL P.  
Türkiye Solunum Araştırmaları Derneği, 38. Ulusal Kongresi, Turkey, 15 - 19 October 2016
- X. **PLASMA ZINC AND COPPER LEVELS IN PATIENTS WITH PELVIC ORGAN PROLAPSUS POP**  
TEKŞEN A. F., DÖKMECİ F., ARIBAL AYRAL P., ÇETİNKAYA E. G., KAPLAN F.  
4th International Meeting of the International Society for Zinc Biology - ISZB14 September 14-19, 2014, 14 - 16 September 2014
- XI. **Serum Nitric Oxide Levels in Patients with Isolated Coronary Artery Ectasia**  
Gurlek A., ESENBOĞA K., Ozcan O. U., ARIBAL AYRAL P., Kavas G., EROL Ç.  
29th Turkish Cardiology Congress of the Turkish-Society-of-Cardiology (TSC) with International Participation, Antalya, Turkey, 26 - 29 October 2013, vol.62
- XII. **Effect of selenium on anthracycline induced cardiotoxicity in children that treated for cancer: Correlation with pro-brain natriuretic peptide levels**  
Tacyildiz N., Ucar T., Ozyoruk D., Yavuz G., Unal E., Atalay S., Kavas G. O., Aribal P., Dincaslan H., Cavdar A.  
45th Annual Meeting of the American-Society-of-Clinical-Oncology, Florida, United States Of America, 29 May - 02 June 2009

## Supported Projects

Arıbal Ayral P., Işın S., Project Supported by Other Official Institutions, Askorbik Asidin Sıçanlarda İskelet Kası İyileşme Sürecine Etkisi, 2019 - 2020

Arıbal Ayral P., TUBITAK Project, ANTBAT 4 Ulusal Tıp Öğrenci Kongresi Ankara Üniversitesi Tıp fakültesi 1 Tıp Öğrencileri Arası Proje Yarışması Evreka 2013 Yerel Düzenleme Kurulu Başkanlığı, 2013 - 2013

Özelçi Kavas G., Arıbal Kocatürk P., Project Supported by Other Official Institutions, Diabetes Mellitus ve Nitrozatif Stres, 2003 - 2006

Özelçi Kavas G., Arıbal Kocatürk P., Sabuncuoğlu B. T., Tekelioğlu M., TUBİTAK Project, Sıçan Testis Karaciğer ve Böbrek Dokuları Üzerine Akut Borik Asit Uygulamasının Fizyopatolojik ve Histopatolojik Etkileri, 1998 - 1999  
Özelçi Kavas G., Arıbal Kocatürk P., Yaman Ö., Sabuncuoğlu B. T., Tekelioğlu M., Project Supported by Other Official Institutions, Sıçan Testis Böbrek ve Karaciğer Dokuları Üzerine Kronik Borik Asit Uygulamasının Fizyopatolojik ve Histopatolojik Etkileri, 1998 - 1999

## Metrics

Publication: 58  
Citation (WoS): 281  
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## Congress and Symposium Activities

Bütüncül Tıp Diyetisyen Eğitimi Zirvesi-Modül 1, Invited Speaker, Ankara, Turkey, 2022  
Bütüncül Tıp Diyetisyen Eğitimi Zirvesi-Modül 1, Invited Speaker, Ankara, Turkey, 2022  
Bütüncül Tıp Diyetisyen Eğitimi Zirvesi-Modül 1, Invited Speaker, Ankara, Turkey, 2022  
Bütüncül Tıp Diyetisyen Eğitimi Zirvesi-Modül 1, Invited Speaker, Ankara, Turkey, 2022  
8. Ulusal Geriatrik Hematoloji Kongresi, Invited Speaker, Ankara, Turkey, 2019  
9. Ulusal Obezite Kongresi, Invited Speaker, Ankara, Turkey, 2018  
Sigara ve Kadın Sağlığı Konferansı, Ufuk Üniversitesi ve Ankara Üniversitesi Tıp Fakültesi Toplumsal Sorumluluk Etkinliği, Invited Speaker, Ankara, Turkey, 2017  
Türkiye Solunum Araştırmaları Derneği 38. Ulusal Kongresi, Invited Speaker, İzmir, Turkey, 2016  
1. Ulusal Sütçülük Kongresi, Invited Speaker, Ankara, Turkey, 2016  
6th European Congress in Aesthetic Dermatology and Surgery, Anti-Aging Medicine, Invited Speaker, Paris, France, 2010  
Uluslararası Medikal Turizm Zirvesi, Medikal Turizm Derneği, Invited Speaker, Antalya, Turkey, 2008  
Ankara Üniversitesi Tıp Fakültesi, İç Hastalıkları Anabilim Dalı Konferansı, Invited Speaker, Ankara, Turkey, 2001  
Anorektal Bölge Hastalıkları Kursu, Invited Speaker, Ankara, Turkey, 2000

## Scholarships

NATO Advanced Study Institute (ASI) - TÜBİTAK Bursu, NATO, 1995 - 1995

## Awards

Ülger Z., Cankurtaran M., Halil M. G., Doğu B. B., Orhan B., Özelçi Kavas G., Arıbal Ayrıl P., Akyol Ö., Arıoğlu S., 8. Ulusal İç Hastalıkları Kongresi, Türkiye'de üçüncülük ödülü / Serum Magnezyum Düzeyleri Ne Kadar Güvenilir, Türk İç Hastalıkları Uzmanlık Derneği, September 2006  
Arıbal Kocatürk P., Prof. Dr. A. Mithat TORUNOĞLU İkincilik Ödülü / Rat Testis Dokusu Üzerine Akut Borik Asit Uygulamasının Fizyopatolojik ve Histopatolojik Etkileri, Ankara Üniversitesi Tıp Fakültesi, March 1998