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Education Information

Doctorate, Ataturk University, Sağlık Bilimleri Enst., Fizyoloji, Turkey 2013 - 2018

Certificates, Courses and Trainings

Vocational Training, Eğiticilerin Eğitimi, Erzincan Binali Yıldırım Üniversitesi, 2021

Vocational Training, Sağlık Bilimleri Alanında TÜBİTAK Projeleri Hazırlama ve Yönetme Eğitimi, TÜBİTAK, 2021

Vocational Course, Temel İyi Klinik Uygulamalar (Ver 2.0), Klinik Araştırmalar Derneği, 2019

Vocational Course, İleri İyi Klinik Uygulamalar (Ver. 2.0), Klinik Araştırmalar Derneği, 2019

Measurement and Evaluation, SPSS Uygulamalı İstatistik, Artvin Çoruh Üniversitesi, 2019

Vocational Training, Lisansüstü öğrencileri için bilimsel araştırma ve proje hazırlama metodolojisi: Fizyoloji 2016, TÜBİTAK, 2016

Vocational Course, Fizyolojik Sinyallerin Ölçülmesi ve Çözümlemesi, Çanakkale Onsekiz Mart Üniversitesi, 2015

Vocational Course, Deney Hayvanları Kullanım Sertifikası, Atatürk Üniversitesi, 2011

Dissertations

Postgraduate, Deneysel hipertiroidi oluşturulan ratlarda böbrek oksidan ve antioksidan sistemler üzerine egzersizin etkileri, Ataturk University, Sağlık Bilimleri Enstitüsü, 2013

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yıldırım University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2019 - Continues

Research Assistant, Artvin Coruh University, Faculty Of Health Sciences, 2015 - 2019

Courses

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigating the individual and combined effects of coenzyme Q10 and vitamin C on CLP-induced cardiac injury in rats**
ÜSTÜNDAĞ H., DEMİR Ö., HUYUT M. T., YÜCE N.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. **Melatonin hormone level in nurses and factors affecting it; Investigation according to shift working pattern**
Şentürk E., ÜSTÜNDAĞ H., Demir Gökmen B.
Archives of Psychiatric Nursing, vol.52, pp.52-59, 2024 (SCI-Expanded)
- III. **Hepatoprotective effects of resveratrol on α -amanitin-induced liver toxicity in rats**
GEZER A., ÜSTÜNDAĞ H., Mendil A. S., Bedir G., DUYSAK L.
Toxicol, vol.247, 2024 (SCI-Expanded)
- IV. **The Protective Effect of Gallic Acid Against Bisphenol A-Induced Ovarian Toxicity and Endocrine Disruption in Female Rats**
GEZER A., ÜSTÜNDAĞ H., Baygutaalp N. K., ERBAŞ E., ÖZKARACA M.
Journal of Medicinal Food, vol.27, no.7, pp.651-660, 2024 (SCI-Expanded)
- V. **Astaxanthin treatment reduces kidney damage and facilitates antioxidant recovery in lithium-intoxicated rats**
ERBAŞ E., ÜSTÜNDAĞ H., Öztürk E., Parlak S. N., Atcalı T.
Toxicol, vol.241, 2024 (SCI-Expanded)
- VI. **Antiproliferative effects of 5FU-AgNPs on different breast cancer cells**
DANIŞMAN KALINDEMİR TAŞ F., KARİPER İ. A., ÜSTÜNDAĞ H., ÖZSOY C., Erdem-Kuruca S.
Journal of Taibah University for Science, vol.18, no.1, 2024 (SCI-Expanded)
- VII. **Molecular mechanisms of resveratrol and its silver nanoparticle conjugate in addressing sepsis-induced lung injury**
ÜSTÜNDAĞ H., Kara A., Doğanay S., KURT N., Erbaş E., Kalindemirtaş F. D., KARİPER İ. A.
Naunyn-Schmiedeberg's Archives of Pharmacology, 2024 (SCI-Expanded)
- VIII. **Enhanced efficacy of resveratrol-loaded silver nanoparticle in attenuating sepsis-induced acute liver injury: Modulation of inflammation, oxidative stress, and SIRT1 activation**
Üstündağ H., Danişman Kalindemirtaş F., Doğanay S., Demir Ö., Kurt N., Tahir Huyut M. T., Özgeriş B., Kariper İ. A.
Shock, vol.60, no.5, pp.688-697, 2023 (SCI-Expanded)
- IX. **A new treatment approach: Melatonin and ascorbic acid synergy shields against sepsis-induced heart and kidney damage in male rats**
Üstündağ H., Doğanay S., Huyut M. T., Kurt N., Demir Ö., Özgeriş F. B., Akbaba Ö., Kalindemirtaş F.
Life Sciences, vol.329, 2023 (SCI-Expanded)
- X. **Protective effect of melatonin and ascorbic acid combination on sepsis-induced lung injury: An Experimental study**
ÜSTÜNDAĞ H., DEMİR Ö., ÇİÇEK B., HUYUT M. T., YÜCE N., Tavacı T.
Clinical and Experimental Pharmacology and Physiology, vol.50, no.8, pp.634-646, 2023 (SCI-Expanded)
- XI. **Exploring the Impact of Ketogenic Diet and Intermittent Fasting on Male Rats' Testicular Health: An Analysis of Hormonal Regulation, Oxidative Stress, and Spermatogenesis**
Üstündağ H., Doğanay S., Öztürk B., Köse F., Kurt N., Aydemir Celep N., Huyut M. T., Özgeriş F. B.
Journal of Food Biochemistry, vol.2023, 2023 (SCI-Expanded)
- XII. **Responses of Aortic Ring Vascular Smooth Muscle in Rats with Hyperthyroidism to Phenylephrine and Potassium Chloride**
Ustundag H., Senturk E., ÇELEBİ F., GÜL M.

- ACTA PHYSIOLOGICA, vol.225, pp.45, 2018 (SCI-Expanded)
- XIII. **Examination of Carbonic Anhydrase 6 Enzyme Activity in The Serum of Students Smokers and Nonsmokers in Agri Ibrahim Cecen University Department of Nursing**
Senturk E., Urcar H., Senturk M.
ACTA PHYSIOLOGICA, vol.221, pp.122, 2017 (SCI-Expanded)
- XIV. **Investigation of the Effects of Some Catecholamines on the Activity of Carbonic Anhydrase Enzyme Purified from Bovine Kidney Tissue**
Urcar H., Senturk E., Senturk M., GÜL M., Yildirim S.
ACTA PHYSIOLOGICA, vol.218, pp.57, 2016 (SCI-Expanded)
- XV. **Bovine Liver Tissue on Glutathione Reductase Enzyme Determination of Effects of Thiamine, Tyrosine, Dopamine and Adrenaline**
Senturk E., Urcar H., Senturk M., Yildirim S., GÜL M.
ACTA PHYSIOLOGICA, vol.218, pp.58, 2016 (SCI-Expanded)
- XVI. **The Effects of Exercise on Kidney Oxidant and Antioxidant Systems in Rats with Experimental Hyperthyroidism**
Urcar H., Yildirim S., Yildirim A., Aliyev E.
ACTA PHYSIOLOGICA, vol.215, pp.80, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of mask use on cardiopulmonary functions and coronaphobia in the COVID-19 pandemic: an observational study among university students**
Üstündağ H., Akbaba Ö., Huyut M.
Medical Gas Research, vol.14, no.2, pp.75-83, 2024 (ESCI)
- II. **Heat Stress Alters Oxidative and Inflammatory Responses in Many Tissues of Male Rats**
Şentürk E., Üstündağ H.
BEZMIALEM SCIENCE, vol.11, no.4, pp.453-459, 2023 (ESCI)
- III. **Effect of White Noise and Light Exposure on Some Enzymes in Rat Testicular Tissue**
Şentürk E., Üstündağ H., Aygül İ., Şentürk M.
Gümüşhane Üniversitesi Sağlık Bilimleri Dergisi, vol.12, no.3, pp.889-894, 2023 (Peer-Reviewed Journal)
- IV. **Effects of Melatonin Administration on Vasomotor Activity and Histological Structure of Isolated Thoracic Aorta in Rats Treated with Thyroxine**
ÜSTÜNDAĞ H., ŞENTÜRK E., YILDIRIM S., ÇELEBİ F., GÜL M.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.13, 2023 (ESCI)
- V. **Beyaz Gürültünün Bebek ve Yenidoğanlar Üzerindeki Etkileri: Uyku Kalitesi ve Ağrı Üzerine Bir Derleme**
ÜSTÜNDAĞ H.
Ağrı Tıp Fakültesi Dergisi, vol.1, no.2, pp.64-67, 2023 (Peer-Reviewed Journal)
- VI. **Oxyhemoglobin Dissociation Curve in COVID-19 Patients**
Üstündağ H., Mertoğlu C., Huyut M. T.
MEANDROS MEDICAL AND DENTAL JOURNAL, vol.24, no.1, pp.58-64, 2023 (ESCI)
- VII. **Prediction of diagnosis and prognosis of COVID-19 disease by blood gas parameters using decision trees machine learning model: a retrospective observational study.**
Huyut M. T., Üstündağ H.
Medical gas research, vol.12, no.2, pp.60-66, 2022 (ESCI)
- VIII. **Effect of Exercise on Oxidant and Antioxidant Systems in Rat Kidney Tissue with Hyperthyroidism**
Üstündağ H., Yildirim S., Şentürk E., Aliyev E., Yildirim A.
Journal of Medicine, Physiology and Biophysics, vol.70, pp.46-53, 2021 (Peer-Reviewed Journal)
- IX. **Melatonin and Hyperthyroidism**
ÜSTÜNDAĞ H., ŞENTÜRK E., GÜL M.

Books & Book Chapters

- I. **SEPSIS AND ANTIOXIDANT THERAPIES**
ÜSTÜNDAĞ H., KURT N.
ANADOLU NOBEL TIP KİTABEVLERİ, 2023
- II. **Ustadan Çırağa Tiroid Hastalıkları**
Üstündağ H., Şentürk E.
Akademisyen Kitapevi, Ankara, 2023
- III. **Solunum Fizyolojisi**
ÜSTÜNDAĞ H.
in: Sağlık Bilimlerinde Fizyoloji, Sermin Algül, Gülnihal Deniz, Editor, Nobel Tıp Kitabevleri, pp.125-140, 2022
- IV. **Kan Fizyolojisi**
ÜSTÜNDAĞ H., DANIŞMAN KALINDEMİR TAŞ F.
in: SAĞLIK BİLİMLERİNDE FİZYOLOJİ Ders Kitabı, Dr. Öğr. Üyesi Gülnihal Deniz, Doç. Dr. Sermin Algül, Editor, Nobel Tıp Kitabevleri, pp.41-56, 2022
- V. **BENEFITS OF DOING EXERCISE IN PATIENTS WITH CHRONIC DISEASES**
ÜSTÜNDAĞ H., ŞENTÜRK E.
in: HEALTH & SCIENCE, Asst. Prof. Dr. Hüseyin ERDAL, Editor, Efe Akademi Yayınevi, pp.321-334, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **EGZERSİZ FİZYOLOJİSİNDE DEĞİŞEN YAŞAM BULGULARI VE KAN PARAMETRELERİ**
ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
ABANT 1ST INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCHES, Bolu, Turkey, 1 - 04 December 2022, pp.730-736
- II. **BEYAZ GÜRÜLTÜ VE IŞIK MARUZİYETİNİN SIÇAN TESTİS KATALAZ ENZİMİ ÜZERİNE ETKİSİ**
ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
ABANT 1ST INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCHES, Bolu, Turkey, 1 - 04 December 2022, pp.737-741
- III. **Lipid Peroxidation in Heat Stress Exposure**
Şentürk E., Üstündağ H.
Turkish Society of Physiological Sciences, 46th Turkish Physiology Congress, İstanbul, Turkey, 8 - 10 October 2021, pp.69
- IV. **Effect of White Noise and Light Exposure on Rat Testis Glutathione Reductase Enzyme**
Üstündağ H., Şentürk E., Şentürk M.
Turkish Society of Physiological Sciences, 46th Turkish Physiology Congress 8 - 10 October 2021 Online, İstanbul, Turkey, 8 October - 10 November 2021, pp.79
- V. **Exercise and Microbiota**
ÜSTÜNDAĞ H., ŞENTÜRK E.
1st International - 4th Traditional Health Professional DaysSymposium, 14 - 16 October 2019
- VI. **Effect of White Noise and Light Exposure on Rat Serum Catalase Enzyme**
ÜSTÜNDAĞ H., ŞENTÜRK E., ŞENTÜRK M.
1st International - 4th Traditional Health Professional DaysSymposium, 14 - 16 October 2019
- VII. **Determination of Acetylcholinesterase Enzyme Activity in Liver Tissues of Rats with Hyperthyroidism**
ÇİÇEK B., ÇELEBİ F., GÜL M., ŞENTÜRK M., ÜSTÜNDAĞ H., ŞENTÜRK E.
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227

- VIII. **The Effects of Melatonin Administration on Vasomotor Activity of Thoracic Aorta in Rats with Experimental Hyperthyroidism**
ÜSTÜNDAĞ H., GÜL M.
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227
- IX. **Determination of Glutathione Reductase Enzyme Activity in Melatonin Administered Rats's Heart Tissue**
ÇİÇEK B., ŞENTÜRK E., GÜL M., ÇELEBİ F., ÜSTÜNDAĞ H., ŞENTÜRK M.
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227
- X. **Determination of the Effects of In Vivo Melatonin Application on Thyroid Hormone Levels in Kidney Tissue of Experimental Hyperthyroid Rats**
ŞENTÜRK E., ÜSTÜNDAĞ H., GÜL M., ÇELEBİ F.
45. Ulusal Fizyoloji Kongresi, Aydın, Turkey, 31 October - 03 November 2019, vol.227
- XI. **In Vitro and In Silico Calculation of Melatonin and Dopamine on Acetylcholinesterase and Butyrylcholinesterase**
ŞENTÜRK M., ŞENTÜRK E., ÜSTÜNDAĞ H.
Internatonal Conference on Data Science, Machne Learnng and Statstcs 2019, 26 - 29 June 2019
- XII. **Determination of Body Composition of Nursing Students**
Aslan A., YILDIZ M., ÜSTÜNDAĞ H., ŞENTÜRK E.
4th INTERNATIONAL CONFERENCE ON ADVANCES INNATURAL APPLIED SCIENCES, Ağrı, Turkey, 19 - 22 June 2019
- XIII. **Determination of the Effects of Life Forms of Nursing Students on Vital Signs**
Aslan A., ÜSTÜNDAĞ H., YILDIZ M., ŞENTÜRK E.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCES, Ağrı, Turkey, 19 - 22 June 2019
- XIV. **Hemşirelik Bölümü Öğrencilerinde Sağlıklı Yaşam Biçimi Davranışları ve Etkileyen Faktörler**
ERİŞİK E., YILDIZ M., ŞENTÜRK E., ÜSTÜNDAĞ H.
5.Uluslararası Matematik-Mühendislik-Fen ve Sağlık Bilimleri Kongresi, Erzurum, Turkey, 2 - 05 May 2019
- XV. **VARDİYALI SAĞLIK ÇALIŞANLARINDA DRAKULA ETKİ**
ÜSTÜNDAĞ H., ŞENTÜRK E.
IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 7 - 09 December 2018
- XVI. **THE EFFECT OF HYPERTHYROIDISM ON RAT KIDNEY GLUTATHIONE REDUCTASE**
ŞENTÜRK E., ÜSTÜNDAĞ H., ÇİÇEK B., ŞENTÜRK M.
IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 7 - 09 December 2018
- XVII. **THE EFFECT OF HYPERTHYROIDISM ON RAT KIDNEY CARBONIC ANHYDRASE ENZYME**
ŞENTÜRK E., ÜSTÜNDAĞ H., ÇİÇEK B., ŞENTÜRK M., ÇELEBİ F., GÜL M.
IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Erzurum, Turkey, 7 - 09 December 2018
- XVIII. **INVESTIGATION OF SERUM ACETYLCHOLINESTERASE ACTIVITY IN HYPERTHYROID RATS**
ÇİÇEK B., ŞENTÜRK E., ÜSTÜNDAĞ H., ÇELEBİ F., GÜL M., ŞENTÜRK M.
IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 7 - 09 December 2018
- XIX. **THE EFFECT OF HYPERTHYROIDISM ON RAT LIVER CARBONIC ANHYDRASE**
ŞENTÜRK E., ÜSTÜNDAĞ H., ÇİÇEK B., ŞENTÜRK M.
IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, 7 - 09 December 2018
- XX. **The Importance of Physical Activity in the Present and Past: Opinions of Thinkers**
ÜSTÜNDAĞ H., ŞENTÜRK E., ŞENTÜRK M.
44th National Physiology Congress, 1 - 04 November 2018
- XXI. **MELATONİNİN DAMAR DÜZ KAS KONTRAKSİYONLARI ÜZERİNE ETKİSİ**
ÜSTÜNDAĞ H., ŞENTÜRK E., GÜL M.
UMTEB IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Erzurum, Turkey, 7 - 08 December 2018
- XXII. **Responses of Aortic Ring Vascular Smooth Muscle in Rats with Hyperthyroidism to Phenylephrine and Potassium Chloride**
ÜSTÜNDAĞ H., ŞENTÜRK E., ÇELEBİ F., GÜL M.

Turkish Society of Physiological Sciences 44th National Physiology Congress, Antalya, Turkey, 1 - 04 November 2018

- XXIII. **Glutathione Reductase Enzyme Activity in Hyperthyroid Rats**
ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
International Congress on Multidisciplinary Studies, 6 - 07 November 2018
- XXIV. **The Effects of Cigarette Smoking on Male University Students Serum Catalase Activity.**
ÜSTÜNDAĞ H., ŞENTÜRK E., ŞENTÜRK M.
3rd International Conference on Advances in Natural and Applied Sciences, 9 - 12 May 2018
- XXV. **In Vitro Effects of Melatonin on Rat Carbonic Anhydrase**
ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, Erzurum, Turkey, 5 - 07 October 2017
- XXVI. **Examination of Paraoxonase Activity in Smokers and Nonsmokers Male Students Serum Samples in Ağrı İbrahim Çeçen University Department of Nursing**
ŞENTÜRK E., ÜSTÜNDAĞ H., AYGÜL İ., ŞENTÜRK M.
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, 5 - 07 October 2017
- XXVII. **Acetylcholinesterase In Vitro Inhibitory Effects of Tryptophan Based Natural Compounds**
ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, 5 - 07 October 2017
- XXVIII. **Ağrı İbrahim Çeçen Üniversitesi Hemşirelik Bölümünde Sigara Kullanan ve Sigara Kullanmayan Erkek Öğrencilerin Plazma Monoamin Oksidaz Enzim Aktivitesinin İncelenmesi**
AKPOLAT M. T., ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
Uluslararası Biyokimya Kongresi – 2017, Erzurum, Turkey, 19 - 23 September 2017
- XXIX. **Examination of Carbonic Anhydrase 6 Enzyme Activity in The Serum of Students Smokers and Nonsmokers in Ağrı İbrahim Çeçen University Department of Nursing**
ŞENTÜRK E., ÜSTÜNDAĞ H., ŞENTÜRK M.
43. NATIONAL PHYSIOLOGY CONGRESS, 7 - 10 September 2017
- XXX. **Bovine Liver Tissue on Glutathione Reductase Enzyme Determination of Effects of Thiamine Tyrosine Dopamine and Adrenaline**
ŞENTÜRK E., URÇAR H., ŞENTÜRK M., YILDIRIM S., GÜL M.
Turkish Society of Physiological Sciences 42nd National Physiology Congress, 5 - 08 September 2016
- XXXI. **Investigation of the Effects of Some Catecholamines on the Activity of Carbonic Anhydrase Enzyme Purified from Bovine Kidney Tissue**
URÇAR H., ŞENTÜRK E., ŞENTÜRK M., GÜL M., YILDIRIM S.
Turkish Society of Physiological Sciences 42nd National Physiology Congress, 5 - 08 September 2016
- XXXII. **The Effects of Exercise on Kidney Oxidant and Antioxidant Systems in Rats with Experimental Hyperthyroidism**
URÇAR H., YILDIRIM S., YILDIRIM A., ALİYEV E.
41. ULUSAL FİZYOLOJİ KONGRESİ, Turkey, 9 - 13 September 2015, vol.215, pp.80

Supported Projects

ÜSTÜNDAĞ H., KARA A., Project Supported by Higher Education Institutions, LPS ile İndüklenen Sepsisli Sıçanlarda Akciğer Hasarına Karşı Propolis Yüklü Gümüş Nanopartiküllerin ve Nano-Propolisin Terapötik Etkisi: Biyokimyasal ve Moleküler Yaklaşım, 2023 - Continues

ÜSTÜNDAĞ H., ÖZGÜL ABUÇ Ö., Project Supported by Higher Education Institutions, Deneysel sepsis modelinde melatonin ve askorbik asit kombine tedavinin sıçan kalp ve böbrek dokusunda koruyucu etkilerinin araştırılması, 2022 - 2023

Scientific Refereeing

ONLINE TÜRK SAĞLIK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, January 2022

MEDİCİNE SCİENCE, National Scientific Refreed Journal, February 2021

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