

## Prof. Füsün ÖZTAY

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-8724-2020

Yoksis Researcher ID: 123560

### Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji, Turkey 1996 - 2002

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Biyoloji, Turkey 1994 - 1996

Undergraduate, Istanbul University, Faculty Of Science, Biyoloji, Turkey 1989 - 1993

### Foreign Languages

English, B2 Upper Intermediate

German, B1 Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, GMBE Moleküler Biyoloji Yöntemleri Kursu, TÜBİTAK MAM, 2009

Education Management and Planning, Mikroskopi Teknikleri ve Uygulamaları Kursu, İstanbul Üniversitesi Fen Fakültesi Biyoloji Bölümü, 2008

Education Management and Planning, Konfokal Mikroskopi Kursu, Ankara Üniv. Tıp Fak. Histoloji ve Embriyoloji Anabilim Dalı, 2003

Education Management and Planning, Akademik Personeler Yönelik Pedagojik Formasyon Kursu, İstanbul Üniversitesi Hasan Ali Yücel Eğitim Fakültesi, 2003

Education Management and Planning, Uygulamalı İmmünositokimya Teknikleri Kursu, Ankara Üniv. Tıp Fak. Histoloji ve Embriyoloji Anabilim Dalı, Ankara, 1997., 1997

### Dissertations

Doctorate, Kurbağa *Rana ridibunda* (Amphibia-Anura) Akciğerinin Nöroepitelial Endokrin Hücrelerinin

İmmünositokimyasal Tanımları ve Morfolojileri, Istanbul University, Fen Bilimleri, Biyoloji, 2002

Postgraduate, Değişik Ortam Şartlarının Kurbağa Akciğer Dokusuna Etkileri, Istanbul University, Fen Bilimleri, Biyoloji, 1996

## Research Areas

Life Sciences, Biochemistry, Molecular Biology and Genetics, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Department of Biology, 2010 - 2015

Other, Ludwig-Maximilians-Universitaet München, Helmholtz Centrum München, Nueherberg, Lung Biology And Diseases, Lung Biology And Diseases, 2011 - 2011

Assistant Professor, Istanbul University, Faculty of Science, Department of Biology, 2007 - 2010

Research Assistant, Istanbul University, Faculty of Science, Department of Biology, 1994 - 2007

Other, Universiteit Antwerpen, Biomedical Sciences, Cell Biology, 2005 - 2005

Other, Universiteit Antwerpen, Biomedical Sciences, Cell Biology, 2004 - 2004

## Academic and Administrative Experience

Adaptation/Exemption Committee Member, Istanbul University, 2019 - 2022

## Courses

Moleküler Biyoloji, Undergraduate, 2019 - 2020

Hücre Biyokimyası, Postgraduate, 2019 - 2020

Doku Remodelleme, Doctorate, 2019 - 2020

İleri Moleküler Biyoloji, Postgraduate, 2019 - 2020

Hücre Sinyal Mekanizmaları, Doctorate, 2019 - 2020

Moleküler Biyoloji, Undergraduate, 2018 - 2019

Hücre Biyokimyası, Postgraduate, 2017 - 2018

Biyokimya, Undergraduate, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014

Hücre Biyokimyası, Postgraduate, 2015 - 2016, 2013 - 2014

Moleküler Biyolojide Seçme Konular, Postgraduate, 2015 - 2016

Hücre Biyokimyası, Postgraduate, 2014 - 2015

İleri Mikroskopi Teknikleri, Postgraduate, 2013 - 2014

Doku Remodellemesi, Doctorate, 2013 - 2014

Moleküler Hücre Biyolojisi, Undergraduate, 2013 - 2014

Modern Biyokimya Özel Konular, Doctorate, 2014 - 2015

Moleküler Biyoloji, Undergraduate, 2013 - 2014

Moleküler Biyoloji, Undergraduate, 2012 - 2013

Moleküler Hücre Biyolojisi, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Doku Remodellemesi, Doctorate, 2012 - 2013

Modern Biyokimya Özel Konular, Doctorate, 2013 - 2014

İleri Mikroskopi Teknikleri, Postgraduate, 2012 - 2013

Solunum Hücre ve Moleküler Biyolojisi, Doctorate, 2012 - 2013

Biyokimya, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Doku Remodellemesi, Doctorate, 2011 - 2012

Solunumun Hücre ve Moleküler Biyolojisi, Doctorate, 2011 - 2012

Hücre Biyokimyası, Postgraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Modern Biyokimya Özel Konular, Doctorate, 2012 - 2013, 2011 - 2012

İleri Mikroskopi Teknikleri, Postgraduate, 2011 - 2012, 2010 - 2011, 2008 - 2009

Biyokimya II, Undergraduate, 2007 - 2008

Biyoloji IV, Undergraduate, 2007 - 2008

## Advising Theses

- Öztay F., EFFECT of VITAMIN D on METASTASIS of HUMAN A549 CELLS, Postgraduate, G.Mahmudova(Student), 2022
- ÖZTAY F., İnsan A549 Hücre Hattında Sigara Dumanı Özütünün Olumsuz Etkileri, Postgraduate, E.Sarı(Student), 2019
- ÖZTAY F., PULMONER NÖROENDOKRİN HÜCRELERİN AKCİĞER FİBROZİSİ ÜZERİNDE MUHTEMEL ROLLERİ, Doctorate, Ö.Kayalar(Student), 2019
- ÖZTAY F., İNSAN PULMONER FİBROZİSİNDE ETKİLİ UZUN KODLANMAYAN RNA'LARIN İN VİTRO MODELDE BELİRLENMESİ, Postgraduate, M.Yıldırım(Student), 2018
- ÖZTAY F., Amfizemli İnsan Akciğerinde E-Kaderin Sentez ve Yıkımındaki Değişiklikler, Postgraduate, E.Göğüş(Student), 2017
- ÖZTAY F., PULMONER AMFİZEMDE LİZİL OKSİDAZ ENZİMLERİNİN SENTEZİNDEKİ DEĞİŞİMLER, Postgraduate, N.Beşiktepe(Student), 2016
- ÖZTAY F., FİBROZİSLİ FARE AKCİĞERLERİNDE EKSTRASELLULAR MATRİKS DÜZENLENMESİNDE LİZİL OKSİDAZ İNHİBİSYONUN ROLÜ, Postgraduate, H.Övet(Student), 2014
- ÖZTAY F., FİBROZİSLİ FARE AKCİĞERLERİNDE TİROZİN KİNAZ İNHİBİTÖRLERİNİN MİYOFİBROBLAST AKTİVASYONU ÜZERİNE ETKİLERİ: TERAPÖTİK YAKLAŞIM, Postgraduate, Ö.Yılmaz(Student), 2014
- ÖZTAY F., Hiperoksik Fare Akciğerinde Retinoik Asidin Alveolar Epitel Yenilenmesindeki Etkisi: Moleküler Yaklaşım, Postgraduate, Ö.Kayalar(Student), 2011

## Jury Memberships

- Doctorate, Doctorate, İstanbul Üniversitesi, June, 2022
- Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Uluslararası Kıbrıs Üniversitesi, April, 2022
- Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2022
- Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2022
- Doctoral Examination, Doctoral Examination, Koç Üniversitesi, November, 2021
- Associate Professor Exam, Associate Professor Exam, Trakya Üniversitesi, September, 2021
- Post Graduate, Post Graduate, Marmara Üniversitesi, August, 2021
- Doctoral Examination, Doctoral Examination, Koç Üniversitesi, December, 2020
- Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Üniversitesi, June, 2020
- Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2020
- Post Graduate, Tez savunma yüksek lisans, İstanbul Üniversitesi, November, 2019
- Academic Staff Examination, Akademik personel sınavı, İstanbul Üniversitesi, July, 2019
- Doctorate, Tez savunma doktora, İstanbul Üniversitesi, March, 2019
- Associate Professor Exam, Doçentlik Sınavı, Hacettepe Üniversitesi, February, 2019
- Doctoral Examination, Doktora Yeterlik, İstanbul Üniversitesi, December, 2018
- Post Graduate, Tez savunma yüksek lisans, İstanbul Üniversitesi, June, 2018
- Doctoral Examination, Doktora yeterlilik, Marmara Üniversitesi, April, 2018
- Post Graduate, Tez savunma Jürisi, İ.Ü. Fen Fak. Biyoloji Bölümü, December, 2017
- Academic Staff Examination, Akademik personel sınavı, İstanbul Üniversitesi, November, 2017
- PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, June, 2017
- Post Graduate, Tez savunma Jürisi, İ.Ü. Fen Fak. Biyoloji Bölümü, May, 2017
- Post Graduate, Tez savunma Jürisi, İ.Ü. Fen Fak. Biyoloji Bölümü, March, 2016
- Post Graduate, Tez savunma jürisi, İ.Ü. Fen Fak. Biyoloji Bölümü, February, 2014
- Post Graduate, Tez savunma jürisi, İ.Ü. Fen Fak. Biyoloji Bölümü, February, 2014
- Post Graduate, Tez Savunma Jürisi, İ.Ü. Fen Fakültesi Biyoloji Bölümü, June, 2013
- Post Graduate, Tez Savunma Jürisi, İ.Ü. Su Ürünleri Fakültesi, June, 2013
- Doctoral Examination, Yeterlilik sınav jürisi, İstanbul Üniversitesi Fen Fakültesi Biyoloji Bölümü, December, 2012
- Doctoral Examination, Yeterlilik sınavı jürisi, İstanbul Üniversitesi Fen Fakültesi Biyoloji Bölümü, December, 2012

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

- I. **Evaluation of Fatty Acid Contents and Biological Activities of *Jurinea turcica***  
Bahadır Semerci A., Yıldırım M., Öztay F., Sagioglu M., Tunç K.  
Chemistry and Biodiversity, vol.21, no.1, 2024 (SCI-Expanded)
- II. **CGRP induces myofibroblast differentiation and the production of extracellular matrix in MRC5s via autocrine and paracrine signalings**  
Kayalar O., Öztay F.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.1, no.1, pp.1-7, 2022 (SCI-Expanded)
- III. **Atorvastatin attenuates pulmonary fibrosis in mice and human lung fibroblasts, by the regulation of myofibroblast differentiation and apoptosis.**  
Yildirim M., Kayalar O., Atahan E., Oztay F.  
Journal of biochemical and molecular toxicology, vol.36, 2022 (SCI-Expanded)
- IV. **Dysregulation of E-cadherin in pulmonary cell damage related with COPD contributes to emphysema.**  
Kayalar O., Oztay F., Yildirim M., Ersen E.  
Toxicology and industrial health, vol.38, pp.330-341, 2022 (SCI-Expanded)
- V. **Effects of combined administration of doxorubicin and chloroquine on lung pathology in mice with solid Ehrlich ascites carcinoma**  
Utkusavas A., Gurevin E. G., Yilmazer N., Uvez A., Öztay F., Bulut H., Üstünova S., Esener O. B. B., Sonmez K., Kutucu D., et al.  
BIOTECHNIC & HISTOCHEMISTRY, vol.97, no.8, pp.555-566, 2022 (SCI-Expanded)
- VI. **Effect of long noncoding RNAs on epithelial-mesenchymal transition in A549 cells and fibrotic human lungs**  
Yıldırım M., Öztay F., Kayalar O., Tasci A. E.  
JOURNAL OF CELLULAR BIOCHEMISTRY, vol.122, no.8, pp.882-896, 2021 (SCI-Expanded)
- VII. **The protective effect of vitamin U on valproic acid-induced lung toxicity in rats via amelioration of oxidative stress.**  
Oztay F., Tunali S., Kayalar O., Yanardag R.  
Journal of biochemical and molecular toxicology, vol.34, 2020 (SCI-Expanded)
- VIII. **Vitamin D modulates E-cadherin turnover by regulating TGF-beta and Wnt signalings during EMT-mediated myofibroblast differentiation in A459 cells**  
Sarı E., Öztay F., Tasci A. E.  
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY, vol.202, 2020 (SCI-Expanded)
- IX. **Gastrin-releasing peptide induces fibrotic response in MRC5s and proliferation in A549s**  
Kayalar O., ÖZTAY F., Ongen H. G.  
CELL COMMUNICATION AND SIGNALING, vol.18, no.1, 2020 (SCI-Expanded)
- X. **The effects of atorvastatin on the kidney injury in mice with pulmonary fibrosis.**  
Karatug Kacar A., Yildirim M., Bolkent Ş., Oztay F.  
The Journal of pharmacy and pharmacology, vol.71, pp.1301-1310, 2019 (SCI-Expanded)
- XI. **Exendin-4 partly ameliorates - hyperglycemia-mediated tissue damage in lungs of streptozotocin-induced diabetic mice**  
Oztay F., Sancar-Bas S., Gezginci-Oktayoglu S., Ercin M., Bolkent S.  
PEPTIDES, vol.99, pp.99-107, 2018 (SCI-Expanded)
- XII. **The copper dependent-lysyl oxidases contribute to the pathogenesis of pulmonary emphysema in chronic obstructive pulmonary disease patients**  
Besiktepe N., Kayalar O., Ersen E., Oztay F.  
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, vol.44, pp.247-255, 2017 (SCI-Expanded)
- XIII. **A matter of regeneration and repair: caspases as the key molecules**

Bolkent Ş., Öztay F., Oktayoğlu S., Sancar Baş S., Karatuğ Kaçar A.  
Turkish Journal Of Biology, vol.40, no.2, pp.333-352, 2016 (SCI-Expanded)

- XIV. **The protective effects of prostaglandin E1 on lung injury following renal ischemia-reperfusion in rats.**  
Oztay F., Kara-Kisla B., Orhan N., Yanardag R., Bolkent Ş.  
Toxicology and industrial health, vol.32, pp.1684-92, 2016 (SCI-Expanded)
- XV. **Dasatinib attenuated bleomycin-induced pulmonary fibrosis in mice**  
Yilmaz O., Oztay F., Kayalar O.  
GROWTH FACTORS, vol.33, pp.366-375, 2015 (SCI-Expanded)
- XVI. **Chard (Beta vulgaris var. cicla) extract improved hyperglycemia-induced oxidative stress and surfactant-associated protein alterations in rat lungs**  
Oztay F., Sacan O., Kayalar O., Bolkent S., Ipci Y., KABASAKAL L., ŞENER G., Yanardag R.  
PHARMACEUTICAL BIOLOGY, vol.53, no.11, pp.1639-1646, 2015 (SCI-Expanded)
- XVII. **The Copper Chelator Tetrathiomolybdate Regressed Bleomycin-Induced Pulmonary Fibrosis in Mice, by Reducing Lysyl Oxidase Expressions**  
Ovet H., Oztay F.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.162, pp.189-199, 2014 (SCI-Expanded)
- XVIII. **Retinoic acid induced repair in the lung of adult hyperoxic mice, reducing transforming growth factor-beta 1 (TGF-beta 1) mediated abnormal alterations**  
Kayalar O., Oztay F.  
ACTA HISTOCHEMICA, vol.116, pp.810-819, 2014 (SCI-Expanded)
- XIX. **EFFECTS OF ALL-TRANS RETINOIC ACID ON REDUCING HYPEROXIA-INDUCED OXIDATIVE STRESS IN MICE BRAIN.**  
Öztay F., Bayrak B. B., Kayalar O., Yanardağ R.  
Nobel Medicus, vol.9, no.3, pp.22-26, 2013 (SCI-Expanded)
- XX. **Teduglutide, a glucagon-like peptide 2 analogue: a novel protective agent with anti-apoptotic and anti-oxidant properties in mice with lung injury.**  
Arda-Pirincci P., Oztay F., Bayrak B. B., Yanardag R., Bolkent S.  
Peptides, vol.38, pp.238-47, 2012 (SCI-Expanded)
- XXI. **Neurotrophin-4 dependency of intraepithelial vagal sensory nerve terminals that selectively contact pulmonary NEBs in mice**  
Oztay F., Brouns I., Pintelon I., Raab M., Neuhuber W., Timmermans J., Adriaensen D.  
HISTOLOGY AND HISTOPATHOLOGY, vol.25, pp.975-984, 2010 (SCI-Expanded)
- XXII. **Cathepsin B inhibition improves lung injury associated to D-galactosamine/tumor necrosis factor-alpha-induced liver injury in mice.**  
Oztay F., Gezginici-Oktayoglu S., Bayrak B. B., Yanardag R., Bolkent S.  
Molecular and cellular biochemistry, vol.333, pp.65-72, 2010 (SCI-Expanded)
- XXIII. **Neurochemical pattern of the complex innervation of neuroepithelial bodies in mouse lungs**  
Brouns I., Oztay F., Pintelon I., De Proost I., Lembrechts R., Timmermans J., Adriaensen D.  
HISTOCHEMISTRY AND CELL BIOLOGY, vol.131, pp.55-74, 2009 (SCI-Expanded)
- XXIV. **The relationship between nitric oxide and leptin in the lung of rat with streptozotocin-induced diabetes.**  
Oztay F., Kandil A., Gurel E., Ustunova S., Kapucu A., Balci H., Akgun-Dar K., Demirci C.  
Cell biochemistry and function, vol.26, pp.162-71, 2008 (SCI-Expanded)
- XXV. **Combined treatment with niacin and chromium caused a protective effect on the small-intestine tissue of hyperlipidemic rats**  
Oztay F., Yanardag R., Bolkent Ş., Doger M. M., Bilen-Gungor Z.  
Medicinal Chemistry Research, vol.16, pp.280-291, 2007 (SCI-Expanded)
- XXVI. **Exposure of Dunaliella tertiolecta to lead and aluminum: Toxicity and effects on ultrastructure**  
Türker Sacan M., Oztay F., Bolkent S.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.120, pp.264-272, 2007 (SCI-Expanded)

- XXVII. **Effects of coenzyme Q10 on the heart ultrastructure and nitric oxide synthase during hyperthyroidism**  
Oztay F., Ergin B., Ustunova S., Balci H., Kapucu A., Caner M., Demirci C.  
CHINESE JOURNAL OF PHYSIOLOGY, vol.50, pp.217-224, 2007 (SCI-Expanded)
- XXVIII. **The responses of pulmonary neuroendocrine cells in the lungs of Rana ridibunda to different experimental conditions**  
Oztay F.  
ANIMAL BIOLOGY, vol.56, pp.373-382, 2006 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Alterations at the Synthesis and Degradation of E-cadherin in the Human Lungs with Emphysema**  
Gogus E., Kayalar Ö., Öngen H. G., Öztay F.  
European Journal of Biology, vol.76, no.2, pp.61-68, 2017 (Peer-Reviewed Journal)
- II. **Dasatinib for use in the treatment, regression or decelerating the progress of fibrotic lung diseases**  
Öztay F., Yılmaz Ö.  
patents/WO2016159917A1, vol.1, no.1, pp.1-10, 2016 (Non Peer-Reviewed Journal)
- III. **Efficacy of antioxidant vitamins (vitamin C, vitamin E, beta-carotene) and selenium supplement on D-galactosamine-induced lung injury**  
Bayrak B. B., Çatal T., Öztay F., Yanardağ R., Bolkent Ş.  
IUFES JOURNAL OF BIOLOGY, no.75, pp.11-18, 2016 (Peer-Reviewed Journal)
- IV. **The Functional Morphology Of The Pulmonary Neuroendocrine Cells In The Lung Of Larval And Adult Rana ridibunda (Amphibia-Anura)**  
Öztay F.  
IUFES JOURNAL OF BIOLOGY, no.67, pp.145-151, 2008 (Peer-Reviewed Journal)
- V. **Neuroepithelial Endocrine Cells In The Lung Of Rana ridibunda: An Immunohistochemical Study**  
Öztay F., Tabakoglu Oguz A.  
TURKISH JOURNAL OF BIOLOGY, pp.65-72, 2003 (Peer-Reviewed Journal)
- VI. **„Morphology of Lung of Rana ridibunda With Observations On Changes Occurring Under Different Conditions**  
Öztay F.  
TURKISH JOURNAL OF BIOLOGY, pp.263-270, 2000 (Peer-Reviewed Journal)

### Books & Book Chapters

- I. **Pulmonary Oxidative Stress and Antioxidant Defence System in the Lung Ageing and Fibrotic and Diabetic Lungs**  
ÖZTAY F., Kayalar O., Yıldırım M.  
in: Oxidative Stress in Lung Diseases, S. Chakraborti, Editor, Springer Nature Publishing Group, Singapore, pp.325-354, 2019

### Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and anticancer activities of 5-nonsubstituted/methyl-2-indolinone derivatives**  
Cinek T., Cihan Üstündağ G., Sancar Baş S., Özen Eroğlu G., Yıldırım M., Genç Akar Ö., Öztay F., Bolkent Ş., Kuruca S., Karalı N. L.  
12th International Drug Chemistry Congress, Antalya, Turkey, 7 - 10 March 2024, pp.42-46
- II. **Kidney Damage Related with Pulmonary Toxicity in Mice**

Ertik O., Yıldırım M., Öztay F., Yanardağ R.

5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Turkey, 23 - 25 November 2022, pp.1

- III. **The Contribution of Epithelial-Mesenchymal Transition to Development of Cisplatin-Lung Resistance in Human A549 Cells**  
Tayyan N. S., Yıldırım M., Öztay F.  
1.International Advances in Molecular Biology Congress, İstanbul, Turkey, 19 - 21 September 2022, pp.89-90
- IV. **Identification of effective molecules in collagen transport in human lung fibroblast cells**  
Kıymaz R., Yıldırım M., Öztay F.  
1.International Advances in Molecular Biology Congress, İstanbul, Turkey, 19 - 22 September 2022, pp.83-84
- V. **D Vitamini İnsan A549 Hücrelerinde E-Kaderin Geninin Metilasyonunu Kontrol Eder**  
Mahmudova G., Yıldırım M., Kayalar Ö., Öztay F.  
TTD 25. Yıllık kongresi, Antalya, Turkey, 24 May - 28 June 2022, vol.1, pp.1
- VI. **U Vitamini Sıçanlarda Amiodaron Tarafından Uyarılan Pulmoner Fibrozisi Oksidatif Stresi Azaltarak Geriletir**  
Yıldırım M., Türkyılmaz İ. B., Yanardağ R., Öztay F.  
TTD 25. Yıllık Kongresi, Antalya, Turkey, 24 - 28 May 2022, vol.1, no.1, pp.1
- VII. **Pulmoner Fibroziste Epigenetik Regülasyon: Kodlanmayan RNA ve HDAC1 Etkileşimleri**  
Yıldırım M., Kayalar Ö., Öztay F., Taşçı A. E.  
23.Yıllık Türk Toraks Derneği Kongresi, Antalya, Turkey, 8 - 12 April 2020, pp.55
- VIII. **Effects of Combined Doxorubicin and Chloroquine in the Lung of Mice with Ehrlich Ascites Carcinoma**  
Savaş A. U., Gürel Gürevin E., Esener O. B. B., Üvez A., Öztay F., Bulut H., Sönmez K., Yılmaz N., Üstünova S., Meral İ., et al.  
Türk Toraks Derneği Uluslararası Katılımlı 22. Yıllık Kongresi, Antalya, Türkiye, Antalya, Turkey, 10 - 14 April 2019, pp.230
- IX. **Effects of Combined Doxorubicin and Chloroquine in the Lung of Mice with Ehrlich Ascites Carcinoma**  
Utkusavaş A., Gürel Gürevin E., Esener O. B. B., Üvez A., Öztay F., Bulut H., Sönmez K., Yılmaz N., Üstünova S., Meral İ., et al.  
Türk Toraks Derneği Uluslararası Katılımlı 22. Yıllık Kongresi, Antalya, Turkey, 10 - 14 April 2019, pp.230
- X. **Sigara Dumanı Özütü Ve TGF- $\beta$ 'ya Maruz Kalan A549 Hücrelerinde TGF- $\beta$  ve Wnt Sinyal Yollarının Aktivasyonunu Azaltarak EMT'yi Gerileti**  
Sarı E., Öztay F.  
Türk Toraks Derneği 22. Yıllık Kongresi , Antalya, Turkey, 10 - 14 April 2019, pp.100
- XI. **Anti-fibrotic effect of Atorvastatin on the lung fibroblasts and myofibroblasts**  
Yıldırım M., Kayalar O., Atahan E., Öztay F.  
28th International Congress of the European-Respiratory-Society (ERS), Paris, France, 15 - 19 September 2018, vol.52
- XII. **Effective LncRNAs on myofibroblast differentiation in human A549 cell line treated with TGF-beta**  
Yıldırım M., Kayalar O., Öztay F.  
28th International Congress of the European-Respiratory-Society (ERS), Paris, France, 15 - 19 September 2018, vol.52
- XIII. **The possible role of gastrin-releasing peptide on pulmonary fibrosis**  
Kayalar O., Ongen H. G., Öztay F.  
28th International Congress of the European-Respiratory-Society (ERS), Paris, France, 15 - 19 September 2018, vol.52
- XIV. **Role of lysyl oxidases in pathogenesis of pulmonary emphysema**  
ÖZTAY F., Besiktepe N., Ersen E.  
ERS international congress 2017, Milano, Italy, 9 - 13 September 2017, pp.1
- XV. **Prevention the TGF-beta induced epithelial-mesenchymal transition with atorvastatin in human A549**

**cell line**

YILDIRIM M., Atmaca Z. E., Kayalar O., ÖZTAY F.

International Congress of the European-Respiratory-Society (ERS), Milan, Italy, 9 - 13 September 2017, vol.50

- XVI. **Effects of Atorvastatin on Renal Injury That Occurs Associated with Pulmonary Fibrosis**  
Karatuğ Kaçar A., Yıldırım M., Bolkent Ş., Öztay F.  
15th International Congress of Histochemistry and Cytochemistry “, Antalya, Turkey, 18 - 21 May 2017, pp.1
- XVII. **Prevention the TGF- $\beta$  induced Epithelial- Mesenchymal Transition with Atorvastatin in Human A549 Cell Line**  
atmaca e., Kayalar Ö., YILDIRIM M., ÖZTAY F.  
38. Türk Solunum Derneği Yıllık Kongresi, İzmir, Turkey, 15 - 19 October 2016
- XVIII. **HDAC Enzymes and E-cadherin Interactions in Pulmonary Emphysema**  
Kayalar Ö., YILDIRIM M., ÖZTAY F.  
38. Türk Solunum Derneği Yıllık Kongresi, Antalya, Turkey, 15 - 19 October 2016
- XIX. **Exendin-4 Attenuated Diabetes-Mediated Lung Injury in Mice**  
BOLKENT Ş., ÖZTAY F., SANCAR BAŞ S., OKTAYOĞLU S.  
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- XX. **EXENDIN-4 ATTENUATED DIABETES-MEDIATED LUNG DAMAGE IN MICE**  
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- XXI. **Pulmoner Amfizemde Lizil Oksidaz Enzimlerinin Sentezindeki Değişimler**  
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- XXIII. **Effects of Vitamin U on Valproic Acid Induced Lung Injury in Rats**  
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- XXIV. **The effect of dasatinib, a novel tyrosine kinase inhibitor, on the regression of pulmonary fibrosis in mice.**  
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22. ULUSAL BİYOLOJİ KONGRESİ, Eskişehir, Turkey, 23 - 27 June 2014, vol.1, no.1, pp.1
- XXVI. **A role of lysyl oxidase inhibition on extracellular matrix remodeling in the mice lung with fibrosis**  
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- XXVII. **Protective effects of all-trans retinoic acid on hyperoxia-induced hepatotoxicity in mice.**  
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- XXVIII. **Role of all-trans retinoic acid administartions on nuclear factor-erythroid-2-related factor 2 activation and repair in kidney of hyperoxic mice**  
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- XXIX. **Efficacy of Antioxidant Vitamins(Vitamin C, Vitamin E Beta-Carotene)and Selenium Supplement on D-Galactosamine-Induced Lung Injury in Rats**



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- XXXI. **Chard (Beta vulgaris L. var cicla) extracts and insulin improved diabetes-induced surfactant protein alterations and oxidative stress in rat lung**  
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The 2nd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses, Petra, Jordan, 3 - 04 November 2010, pp.1
- XXXVII. **The effects of teduglutide on alveolar morphology, lipid peroxidation and glutathione levels in the injured lung of mice**  
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- XXXVIII. **EGF alleviates lung injury induced by intestinal ischemia-reperfusion in rats**  
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- XXXIX. **The protective role of Z-FA.FMK on the lung injury induced by D-GalN/TNF-alpha in mice**  
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- XLI. **Neurotrophin-4 and Vagal Innervation of Pulmonary Neuroepithelial Bodies.**  
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- XLII. **Functional morphology and neurochemical characterization of diverse sensory receptors in mouse lungs.**

- Brouns I, Pintelon I, Proost I. D., ÖZTAY F., Timmermans J., Adriaensen D.  
Experimental Biology Congress, United States Of America, 1 - 04 April 2007, no.21, pp.920
- XLIII. **Coenzyme Q10 effects on the heart ultrastructure and nitric oxide synthase during hyperthyroidism**  
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- XLIV. **Diyabetik Sıçan Akciğerinde Nitrik Oksit ve Leptin İlişkisi**  
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- XLVI. **NT-4 Dependency of The Intraepithelial Vagal Sensory Innervation of Pulmonary NEBs in Mice: A Confocal Multilabel Immunocytochemical Study**  
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- XLVII. **Hiperlipidemik sıçanların ince bağırsak dokusu üzerine krom ve niyasinin koruyucu etkileri**  
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- XLVIII. **Kurbağa Rana ridibunda Akciğerindeki Nöroepitelial Endokrin Hücreler: İmmünohistokimyasal Bir Çalışma.**  
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VI. Ulusal Histoloji ve Embriyoloji Kongresi, İstanbul, Turkey, 1 - 04 September 2002, pp.122
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## Other Publications

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Other, pp.1-6, 2016

## Supported Projects

Karalı N. L., Öztay F., Bolkent Ş., Yıldırım M., Erol A., Genç Akar Ö., Cinek T., Temizer A. B., Project Supported by Higher Education Institutions, İlaç adayı tirozin kinaz inhibitörü yeni 2-indolinon türevlerinin tasarımı sentezi, inhibitör etkilerinin ve etki mekanizmalarının incelenmesi, 2023 - 2026

ÖZTAY F., HASPOLAT N. S., Project Supported by Higher Education Institutions, Epitelyal-Mezenşimal Geçişin İnsan A549 Hücrelerinde Metastaz ve İlaç Direnci Üzerine Etkileri, 2021 - 2024

KARALI N. L., CİNEK T., ÖZEN EROĞLU G., KOULANI T., CİHAN ÜSTÜNDAĞ G., KURUCA D. S., CAMCI M., CAMCI M., GENÇ AKAR Ö., YILDIRIM M., et al., Project Supported by Higher Education Institutions, Tirozin Kinaz İnhibitörü 3-Ariliden-2-indolinon Bileşiklerinin Tasarımı, Sentezi ve Biyolojik Etkilerinin İncelenmesi, 2020 - 2024

ÖZTAY F., KIYMAZ R., Project Supported by Higher Education Institutions, İnsan Akciğer Fibroblastlarında Kollagen Sekresyon Vesiküllerinin Taşınmasından Sorumlu Moleküllerin Belirlenmesi, 2021 - 2023

Öztay F., Bayram H., Altun S., Kavaklı İ. H., Çukurova Z., Kayalar Ö., Yıldırım M., Association (NGO), COVID-19 Enfeksiyonunun Neden Olduğu Akciğer Hasarında Hastalık Patogenezi ile İlgili Moleküllerin Saptanması, 2021 - 2022

Öztay F., Project Supported by Other Official Institutions, İnsan A549 Hücreleri Metastazı Üzerinde D Vitamininin Etkisi, 2021 - 2022

Taşçı A. E., Öztay F., Çeetinkaya E., Vayvada M., Çardak M. E., Uygun Kızmaz Y., Kayalar Ö., Yıldırım M., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Akciğer nakli olan hastalarda fonksiyonel genomik ve metabolomik analizler, 2020 - 2022

Çetinkaya E., Öztay F., Sarıbaş E., Atagün Güney P., Halis A. N., Uygun Kızmaz Y., Kayalar Ö., Yıldırım M., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), İdiyopatik pulmoner fibrozis'li hastalarda fonksiyonel genomik ve metabolomik analizler, 2020 - 2022

ÖZTAY F., KAYALAR Ö., YILDIRIM M., ATAHAN E., Project Supported by Higher Education Institutions, Atorvastatinin antifibrotik etkisi: Hedef hücreler olarak insan akciğer fibroblast ve miyofibroblastları, 2018 - 2020

ÖZTAY F., SARI E., Project Supported by Higher Education Institutions, İnsan A549 Hücre Hattında Sigara Dumanı Özütünün Olumsuz Etkileri, 2018 - 2019

ÖZTAY F., KAYALAR Ö., YILDIRIM M., Project Supported by Higher Education Institutions, Amfizemde Pulmoner Epitel Bütünlüğünün Korunmasında Histon Deasetilaz Enzimlerinin Rolü, 2017 - 2019

ÖZTAY F., Project Supported by Higher Education Institutions, Pulmoner Nöroendokrin Hücrelerin Akciğer Fibrozisi Üzerinde Muhtemel Roller, 2013 - 2019

KARALI N. L., BOLKENT Ş., ÖZTAY F., CİHAN ÜSTÜNDAĞ G., KAYALAR Ö., Project Supported by Higher Education Institutions, Yeni 3ariliden2indolinon türevlerinin sitotoksik ve tirozin kinaz inhibitör etkilerinin belirlenmesi, 2017 - 2018

ÖZTAY F., YILDIRIM M., Project Supported by Higher Education Institutions, İnsan Pulmoner Fibrozisinde Etkili Uzun Kodlanmayan RNAların in vitro Modelde Belirlenmesi, 2016 - 2018

ÖZTAY F., Project Supported by Higher Education Institutions, Kalsitonin geniyle ilişkili peptid ve gastrin serbestleştirici peptidin pulmoner fibrozis sürecine etkileri, 2015 - 2018

ÖZTAY F., Project Supported by Higher Education Institutions, Amfizemli İnsan Akciğerinde E-Kaderin Sentez ve Yıkımındaki Değişiklikler, 2013 - 2018

ÖZTAY F., Project Supported by Higher Education Institutions, Akciğer hasarında sürfactant protein sentezindeki değişiklikler, 2014 - 2016

ÖZTAY F., Project Supported by Higher Education Institutions, Pulmoner Amfizemde Lizil Oksidaz Enzimlerinin Sentezindeki Değişimler, 2014 - 2016

BOLKENT Ş., YANARDAĞ R., SANCAR BAŞ S., BAYRAK B. B., ÖZTAY F., ARDA PİRİNÇÇİ B. P., Project Supported by Higher Education Institutions, Sağlık alanında ilaca dönüşme ve ulusal-uluslararası patent değeri taşıyan iki ayrı molekül, 2013 - 2016

ÖZTAY F., Project Supported by Higher Education Institutions, THE USE OF VITAMIN U AS A NOVEL CYTOPROTECTIVE AGENT IN OXIDATIVE STRESS -MEDIATED LUNG INJURY IN RATS, 2015 - 2015

ÖZTAY F., Project Supported by Higher Education Institutions, Fibrozisli Fare Akciğerlerinde Tirozin Kinaz İnhibitörlerinin Miyofibroblast Aktivasyonu Üzerine Etkileri: Terapötik yaklaşım, 2013 - 2014

ÖZTAY F., Project Supported by Higher Education Institutions, Fibrozisli fare akciğerlerinde ekstrasellular matriks düzenlenmesinde lizil oksidaz inhibisyonunun rolü, 2012 - 2014

ÖZTAY F., Project Supported by Higher Education Institutions, Fibrozisli Fare Akciğerlerinde Tirozin Kinaz İnhibitörlerinin Miyofibroblast Aktivasyonu Üzerine Etkileri: Terapötik Yaklaşım, 2012 - 2014

ÖZTAY F., Project Supported by Higher Education Institutions, IL-6 Sitokininin Fibrozis Sürecindeki Rolü, 2011 - 2014

ÖZTAY F., Project Supported by Higher Education Institutions, Role of all-trans retinoic acid administrations on nuclear factor-erythroid-2-related factor 2 activation and repair in kidney of hyperoxic mice, 2013 - 2013

ÖZTAY F., Project Supported by Higher Education Institutions, Bleomisin ile oluşturulan pulmoner fibroziste fibroblast/miyofibroblast aktivasyonu, 2012 - 2013

ÖZTAY F., Project Supported by Higher Education Institutions, Bleomisin ile Oluşturulan Deneysel Pulmoner Fibrozisde Fibroblast/Miyofibroblast Aktivasyonunun Mekanizması: TGF-b1 Sinyal Yolu Aracılı Düzenlenme, 2009 - 2013

ÖZTAY F., Project Supported by Higher Education Institutions, RETINOIC ACID-TGF- $\beta$ 1 CROSSTALK DURING ALVEOLAR REGENERATION IN HYPEROXIC MICE, 2012 - 2012

Öztay F., TUBITAK Project, HİPEROKİK FARE AKCİĞERİNDERETİNOİK ASİTİN ALVEOLAR EPİTEL YENİLENMESİNDEKİETKİSİ: MOLEKÜLER YAKLAŞIM, 2010 - 2011

ÖZTAY F., Project Supported by Higher Education Institutions, Hiperoksik Fare Akciğerinde Retinoik Asidin Alveolar Epitel Yenilenmesindeki Etkisi:Moleküler Yaklaşım, 2010 - 2011

ÖZTAY F., Project Supported by Higher Education Institutions, Alveolar Epitel Onarımında Retinoik asit-TGF- $\beta$  İlişkisi, 2010 - 2011

ÖZTAY F., Project Supported by Higher Education Institutions, Bombesin içeren solunum nöroendokrin hücreleri larval kurbağa akciğer farklılaşmasında görev alırlar mı?, 2007 - 2009

ÖZTAY F., Project Supported by Higher Education Institutions, The protective role of Z-FA.FMK on the lung injury induced by D-GalN/TNF-a in mice, 2008 - 2008

ÖZTAY F., Other International Funding Programs, Functional histological studies of pulmonary NEBs and their complex innervation in the lungs of controls, denervated, and neurotrophin-4 knockout mice., 2004 - 2006

## Patent

Karalı N. L., Cihan Üstündağ G., Cinek T., Öztay F., Sancar S., Bolkent Ş., Kuruca D. S., Özen Eroğlu G., NEW 3-ARYLIDEN-2-INDOLINONE DERIVATIVES FOR THERAPEUTIC PURPOSES, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/TR2023/050966 , Standard Registration, 2023

## Activities in Scientific Journals

Current Biomarkers, Committee Member, 2021 - Continues

European Journal of Biology, Editor, 2017 - Continues

Lungs and Breathing, Committee Member, 2013 - Continues

## Memberships / Tasks in Scientific Organizations

Türk Toraks Derneği Deneysel Araştırmalar Çalışma Grubu, Board Member, 2020 - Continues, Turkey

Türk Toraks Derneği, Member, 2015 - Continues

European Respiratory Society, Member, 2009 - Continues

The International Federation of Societies for Microscopy, Member, 2002 - Continues

International Federation of Societies for Histochemistry and Cytochemistry, Member, 2002 - Continues

Türk Solunum Araştırmaları Derneği, Member, 2002 - Continues

European Microscopy Society, Member, 2002 - Continues

Türk Fizyolojik Bilimler Derneği, Member, 2000 - Continues

Türk Elektron Mikroskopi Derneği, Member, 2000 - Continues

Biyologlar Derneği, Member, 1998 - Continues

## Scientific Refereeing

LIFE SCIENCES, SCI Journal, March 2021

Pediatric Biochemistry, Other Indexed Journal, December 2014

Experimental Lung Research, SCI Journal, December 2010

Journal of Diabetes and its Complications, SCI Journal, January 2010

Journal of Diabetes and its Complications, SCI Journal, January 2009

IUFS Journal of Biology, National Scientific Refreed Journal, March 2008

## Scientific Consultations

Türk Toraks Derneği, Scientific Consultancy, Istanbul University, Faculty Of Science, Department of Biology, Turkey, 2020  
- Continues

## Scientific Research / Working Group Memberships

Klinik Sorunlar Çalışma Grubu; Deneysel Araştırmalar Çalışma Grubu, Türk Toraks Derneği, Turkey,  
<http://www.toraks.org.tr/subDefault.aspx?sub=179&menu=41>, 2015 - Continues

## Metrics

Publication: 86  
Citation (WoS): 409  
Citation (Scopus): 454  
H-Index (WoS): 13  
H-Index (Scopus): 14

## Congress and Symposium Activities

TTD Yıllık Kongresi, Attendee, Antalya, Turkey, 2019  
ERS Congres, Attendee, Milan, Italy, 2018  
TTD Yıllık Kongresi, Attendee, Turkey, 2018  
ERS international Congress 2017, Attendee, Milano, Italy, 2017  
International Congress of Histochemistry and cytochemistry, Attendee, Turkey, 2017  
TORAKS 20. YIL KONGRESİ, Attendee, Antalya, Turkey, 2017  
TUSAD 38. Ulusal Solunum Kongresi, Attendee, İzmir, Turkey, 2016  
Pathology and Laboratory Medicine: on the forefront of personalized medicine, Attendee, Cancún, Mexico, 2015  
TUSAD 37. Ulusal Solunum Kongresi, Attendee, İzmir, Turkey, 2015  
15th International Conference on Antioxidants, Oxidative Stress and Redox states -, Attendee, Paris, France, 2015  
III World Congress of Public Health Nutrition, Kanarya Adaları, Kasım 2014, Attendee, Kanarya Adaları, Spain, 2014  
ERS International congress 2014, Attendee, Münih, Germany, 2014  
22.ULUSAL BİYOLOJİ KONGRESİ, Attendee, ESKİŞEHİR, Turkey, 2014  
İlaç Temel Araştırma Merkezi (ITAM) Projesi Toplantısı, Attendee, İstanbul, Turkey, 2013  
2nd International Congress of the Molecular Biology Association of Turkey, Attendee, İstanbul, Turkey, 2013  
2nd international Congress of The Molecular Biology Association of Turkey, Attendee, İstanbul, Turkey, 2013  
IUPAC World Chemistry Congress 2013, Attendee, İstanbul, Turkey, 2013  
FEBS Congress 2013, Attendee, Sen Petersburg, Russia, 2013  
22nd IUBMB Congress/37th FEBS Congress From single molecules to system biology, Seville, SPAIN, 2012., Attendee, Seville, Spain, 2012  
International Symposium on environmental impacts, healthy implications&therapeutic approaches, Attendee, India, 2012  
ERS 10th Lung Science Conference: rebuilding a diseased lung, repair and regeneration., Attendee, Estoril, Portugal, 2012  
TÜSAD 33. Ulusal Kongresi - SOLUNUM, Attendee, Çeşme-İZMİR, Turkey, 2011  
The 2nd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses, Attendee, Jordan, 2010  
17th International microscopy Congress, Attendee, Rio, Brazil, 2010  
42nd IUPAC Congress Chemistry Solutions ,, Attendee, United Kingdom, 2009

The ICHC 2008: 'Imaging of Cell Dynamics', Attendee, Gdansk, Poland, 2008

EMBO Young Scientists Forum, Attendee, Istanbul, Turkey, 2008

• Yıldız Teknik Üniversitesi Biyomühendislik Bölümü 2006/2007 Bahar Yarıyılı Seminerleri, Attendee, Istanbul, Turkey, 2007

Experimental Biology Congress 2007, Attendee, Washington, United States Of America, 2007

Viral Solunum Yolu İnfeksiyonlarına Genel Bakış ve Kuş Gribi Sempozyumu, Attendee, Istanbul, Turkey, 2007

Nederlandse Anatomen Vereniging.169STE Wetenschappelijke Vergadering Conferentiecentrum "De Werelt" The Lunteren., Attendee, Netherlands, 2007

The 11th Annual Meeting of the European Council for Cardiovascular Research (ECCR), Attendee, Nice, France, 2006

Türk Fizyolojik Bilimler Derneği XXXII.Ulusal Kongresi, Attendee, Denizli, Turkey, 2006

Nederlandse Vereniging voor Microscopie Jaarboek 2006 and proceedings of the koint Meeting NVvM/BVM, Attendee, Netherlands, 2006

Uluslararası Katılımlı 16. Ulusal Elektron Mikroskopi Kongresi, Attendee, İzmir, Turkey, 2003

VI. Ulusal Histoloji ve Embriyoloji Kongresi, Attendee, Turkey, 2002

19th Conference of European Comparative Endocrinologist, Attendee, Nijmegen, Netherlands, 1998

XIII. Ulusal Biyoloji Kongresi, Attendee, Istanbul, Turkey, 1996

## Scholarships

2547 sayılı kanun'un 39. maddesi uyarınca yurtdışına gönderilen Öğretim üyelerine sağlanan YÖK desteği, YOK, 2011 - Continues

## Awards

Utkusavaş A., Gürel Gürevin E., Esener O. B. B., Üvez A., Öztay F., Bulut H., Sönmez K., Yilmazer N., Üstünova S., Meral İ., et al., Effects of Combined Doxorubicin and Chloroquine in the Lung of Mice with Ehrlich Ascites Carcinoma., Türk Toraks Derneği, April 2019

ÖZTAY F., En İyi Yurt dışı yayın ödülü, Türk Toraks Derneği, April 2018

ÖZTAY F., HEPSAĞ A., BOZ C., En iyi Bildiri Ödülü, Türk Toraks Derneği, April 2017

KAYALAR Ö., ÖZTAY F., En iyi Sözlü Bildiri Ödülü, Türk Solunum Derneği, October 2016

ÖZTAY F., Neurotrophin-4 Dependency Of Intraepithelial Vagal Sensory Nerve Terminals That Selectively Contact Pulmonary NEBs In Mice, TUBİTAK Yayın Teşvik Ödülü, 2010, June 2010

ÖZTAY F., Brouns, I., F. Öztay, I. Pintelon, I. De Proost, R. Lembrechts, JP. Timmermans and D. Adriaensen, "Neurochemical Pattern Of The Complex Innervation Of Neuroepithelial Bodies In Mouse Lungs", Histochem and Cell Biol,131 (1), 55-74 (2009)., TUBİTAK Bilimsel Yayınları Teşvik Ödülü, 2010., January 2010

ÖZTAY F., Turker-Sacan, M., F. Öztay and S. Bolkent, "Exposure of Dunalialla tertiolecta to Lead And Aluminum:Toxicity And Effects On Ultrastructure", Biol Trace Elem Res, 120, 264-272 (2007)., TUBİTAK Bilimsel Yayınları Teşvik Ödülü, 2008., January 2008

ÖZTAY F., F. Öztay (2006). The responses of some pulmonary neuroendocrine cells to the different experimental condition in the lung of Rana ridibunda. Animal Biol. 56 (3):373-382., TUBİTAK Bilimsel Yayınları Teşvik Ödülü, 2007., January 2007

## Non Academic Experience

Non-profit Organisation, Türk Toraks Derneği, Temel ve Translasyonel Araştırmalar Çalışma Grubu/Fonksiyonel Genetik ve Moleküler Biyoloji

Türk Toraks Derneği

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