

## Prof. SÜLEYMAN SANDAL

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Firat University, Institute Of Health Sciences, Tıp Fakültesi Fizyoloji Anabilim Dalı, Turkey 1999 - 2004

### Dissertations

Doctorate, Poli Klorlu Bifenillerin Fare Timus Hücre Kültürlerinde İmmünobiyolojik Etkileri, Firat University, Tıp Fakültesi, Tıp Pr., 2004

Postgraduate, Östrus siklusu boyunca ve ovariektomi yapılan sıçanlarda steroid uygulamasının sıvı-elektrolit dengesi ile supraoptik ve paraventriküler nükleuslarda noradrenerjik norotransmisyonu etkileri, Firat University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1999

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Human Physiology, Neurophysiology

### Academic Titles / Tasks

Professor, Inonu University, Tıp Fakültesi, Temel Tıp Bilimleri, 2016 - Continues

Associate Professor, Inonu University, Tıp Fakültesi, Temel Tıp Bilimleri, 2011 - 2016

Assistant Professor, Inonu University, Tıp Fakültesi, Temel Tıp Bilimleri, 2009 - 2011

### Academic and Administrative Experience

Inonu University, Sağlık Hizmetleri Meslek Yüksekokulu, 2016 - Continues

Inonu University, Sağlık Bilimleri Enstitüsü, Fizyoloji (Dr), 2011 - 2013

### Courses

Dönem II Fizyoloji, Undergraduate, 2013-2014

Merkezi Sinir Sistemi, Undergraduate Double Major, 2013-2014  
Sistemlerin Kontrolü, Undergraduate Double Major, 2013-2014  
Ebelik-I Fizyoloji, Undergraduate, 2013-2014  
Evde Hasta Bakımı I Fizyoloji, Associate Degree, 2013-2014  
Uzmanlık Alanı, Undergraduate Double Major, 2013-2014  
Eczane Hizmetleri I Fizyoloji, Associate Degree, 2013-2014  
Nöroendokrin Sistem Fizyolojisi, Undergraduate Double Major, 2013-2014  
Uzmanlık Alanı, Undergraduate Minor, 2013-2014  
Tez Çalışması, Undergraduate Double Major, 2013-2014  
Duyu Fizyolojisi ve Özel Duyular, Undergraduate Minor, 2013-2014  
Deney Fizyoloji, Undergraduate Minor, 2013-2014  
Tez Çalışması, Undergraduate Minor, 2013-2014  
Deney Hayvanları Fizyolojisi, Undergraduate Double Major, 2013-2014  
Endokrin ve Üreme Sistemi Fizyolojisine Giriş, Undergraduate Double Major, 2013-2014

## Advising Theses

Sandal S., Investigation of the Effects of Phthalates on Feeding Behavior and Obesity, Postgraduate, E.MAİDE(Student), 2024  
Sandal S., Evaluation of Hormonal Changes in Obese Individuals with Constipation Problems, Postgraduate, S.AKBULUT(Student), 2023  
SANDAL S., Beslenme Hipotalamik Kontrolünde İrisin Hormonunun Etkilerinin Araştırılması, Doctorate, S.TEKİN(Student), 2016  
SANDAL S., Sıçanlarda Deneysel Olarak Oluşturulan Alzheimer Patogenezi Üzerine FEZ1 Gen İfadesi ve Pinealektominin Rolünün Araştırılması, Doctorate, M.DEMİR(Student), 2016  
SANDAL S., Merkezi Olarak FGF21 Uygulamasının Hipotalamus-Hipofiz-Tiroid Aksı ve UCP1 Gen İfadesi Üzerine Etkilerinin Araştırılması, Postgraduate, Ü.Yılmaz(Student), 2015  
SANDAL S., Sıçanlarda İntraserebroventriküler Apelin-13 uygulanmasının Hipotalamus-Hipofiz-tiroid Aksı Üzerindeki Etkisi, Postgraduate, Y.Erden(Student), 2015  
SANDAL S., Erkek Sıçanlarda İntraserebroventriküler Apelin Uygulamasının Hipotalamus-Hipofiz-Gonadal Eksen Üzerindeki Etkileri, Postgraduate, S.TEKİN(Student), 2011

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

- I. **Asprosin improved neuronal survival by suppressing apoptosis and enhancing the activity of the autophagy pathway in the MCAO model in rats.**  
Tanbek K., Yuksel F., Tekin S., Tekin C., Sandal S.  
European review for medical and pharmacological sciences, vol.28, no.5, pp.1937-1946, 2024 (SCI-Expanded)
- II. **Melatonin Attenuates Cerebral Ischemia/Reperfusion Injury Through Suppressing Apoptosis and Inducing Autophagy**  
Yılmaz Ü., Tanbek K., Gül M., Koç A., Sandal S.  
NEUROENDOCRINOLOGY, vol.1, no.1, pp.1-10, 2023 (SCI-Expanded)
- III. **Cytotoxic potential of silver, palladium, rhodium, ruthenium, and iridium complexes of a cycloheptyl-substituted lipophilic N-heterocyclic carbene ligand**  
Karataş M. O., Şekerci G., Tekin S., Sandal S., Küçükbaş H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.76, pp.1-11, 2023 (SCI-Expanded)
- IV. **The first peptide derivatives of dioxybiphenyl-bridged spiro cyclotriphosphazenes: In vitro cytotoxicity activities and DNA damage studies**  
KORAN K., ÇALIŞKAN E., ALTAY ÖZTÜRK D., ÇAPAN İ., TEKİN S., SANDAL S., GÖRGÜLÜ A. O.

BIOORGANIC CHEMISTRY, vol.132, 2023 (SCI-Expanded)

- V. **Silyl-functionalised silver rhodium and iridium N-heterocyclic carbene complexes with promising cytotoxicity and antimicrobial potential**  
KARATAŞ M. O., Keskin T., ÖZDEMİR N., KÜÇÜKBAY H., TEKİN S., Mansur A., GÜNAL S., SANDAL S.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.146, 2022 (SCI-Expanded)
- VI. **Hexa-substituted cyclotriphosphazene derivatives containing hetero-ring chalcones: Synthesis, in vitro cytotoxic activity and their DNA damage determination**  
Beytur A., TEKİN Ç., Caliskan E., TEKİN S., KORAN K., GÖRGÜLÜ A. O., SANDAL S.  
BIOORGANIC CHEMISTRY, vol.127, 2022 (SCI-Expanded)
- VII. **Preparation, DFT calculations, docking studies, antioxidant, and anticancer properties of new pyrazole and pyridine derivatives**  
Zebbiche Z., Sekerci G., Boulebd H., KÜÇÜKBAY F., TEKİN S., Tekin Z., KÜÇÜKBAY H., SANDAL S., Boumoud B.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.36, no.9, 2022 (SCI-Expanded)
- VIII. **Synthesis of New Cinnamoyl-Amino Acid Conjugates and in Vitro Cytotoxicity and Genotoxicity Studies**  
Caliskan E., Ozturk D. A., KORAN K., TEKİN S., SANDAL S., ERKAN S., GÖRGÜLÜ A. O., ÇETİN A.  
CHEMISTRY & BIODIVERSITY, vol.19, no.8, 2022 (SCI-Expanded)
- IX. **Synthesis and spectroscopic characterizations of hexakis[(1-(4'-oxyphenyl)-3-(substituted-phenyl)prop-2-en-1-one)]cyclotriphosphazenes: their in vitro cytotoxic activity, theoretical analysis and molecular docking studies**  
Dogan H., Bahar M. R., Caliskan E., TEKİN S., USLU H., Akman F., KORAN K., SANDAL S., GÖRGÜLÜ A. O.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.7, pp.3258-3272, 2022 (SCI-Expanded)
- X. **Protective effect of saxagliptin against renal ischaemia reperfusion injury in rats**  
TEKİN S., Beytur A., ÇAKIR M., Taslidere A., ERDEN Y., TEKİN Ç., SANDAL S.  
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, vol.128, no.3, pp.608-618, 2022 (SCI-Expanded)
- XI. **Investigation of Obesogenic Effects of Hexachlorobenzene, Dichlorodiphenyltrichloroethane and Dichlorodiphenyldichloroethylene in a Male Rat Model**  
Al Obaidi Z., Erdogan C. S., Ozgun H. B., Sumer E., Basol B. G., SANDAL S., YILMAZ B.  
ACTA PHYSIOLOGICA, vol.234, pp.85, 2022 (SCI-Expanded)
- XII. **Effects of Glucagon on Central Nervous System in Regulating Glucose Homeostasis in Rats**  
TANBEK K., YILMAZ Ü., GÜL S., KOÇ A., Gul M., SANDAL S.  
ACTA PHYSIOLOGICA, vol.234, pp.50, 2022 (SCI-Expanded)
- XIII. **Polychlorinated biphenyls and organochlorine pesticides in breast milk samples and their correlation with dietary and reproductive factors in lactating mothers in Istanbul**  
Agus S., Akkaya H., Daglioglu N., Eyuboglu S., Atasayan O., Mete F., ÇOLAK C., SANDAL S., YILMAZ B.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.3, pp.3463-3473, 2022 (SCI-Expanded)
- XIV. **Does Chrysin prevent severe lung damage in Hyperoxia-Induced lung injury Model?**  
Özdemir R., Gökce İ. K., Taşlıdere A., Tanbek K., Gul C. C., Sandal S., Turgut H., Kaya H., Aslan M.  
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.99, 2021 (SCI-Expanded)
- XV. **Cytotoxic effect of endemic Tchiatchewia isatidea Boiss. from Turkey**  
KIRBAĞ S., KESER S., TEKİN S., İnci S., SANDAL S.  
ISRAEL JOURNAL OF PLANT SCIENCES, vol.68, no.1-2, pp.161-165, 2021 (SCI-Expanded)
- XVI. **Effect of Intracerebroventricular MOTS-c Infusion on Peripheral Uncoupling Proteins in Rats**  
Bahar M. R., Tekin S., Beytur A., Önalın E., Çolak C., Sandal S.  
NEUROENDOCRINOLOGY, vol.111, pp.33-34, 2021 (SCI-Expanded)
- XVII. **Infusion of Intracerebroventricular Irisin to Obese Male Rats Increases Secretion of Reproductive Hormones**  
Tekin S., Sandal S.  
NEUROENDOCRINOLOGY, vol.111, pp.29-30, 2021 (SCI-Expanded)
- XVIII. **Bioactive contents, In vitro antiradical, antimicrobial and cytotoxic properties of rhubarb (Rheum ribes L.) extracts**

- KESER S., Keser F., KARATEPE M., KAYĞILI Ö., TEKİN S., TÜRKÖĞLU İ., DEMİR E., YILMAZ Ö., KIRBAĞ S., SANDAL S. NATURAL PRODUCT RESEARCH, vol.34, no.23, pp.3353-3357, 2020 (SCI-Expanded)
- XIX. **Phytochemical compounds and antiradical, antimicrobial, and cytotoxic activities of the extracts from *Hypericum scabrum* L. Flowers**  
KESER S., Keser F., KAYĞILI Ö., TEKİN S., DEMİR E., TÜRKÖĞLU İ., TÜRKÖĞLU S., PARLAK A. E., YILMAZ Ö., KARATEPE M., et al.  
NATURAL PRODUCT RESEARCH, vol.34, no.5, pp.714-719, 2020 (SCI-Expanded)
- XX. **Endocrine disrupting chemicals: exposure, effects on human health, mechanism of action, models for testing and strategies for prevention**  
Yılmaz B., Terekci H., Sandal S., Kelestimur F.  
REVIEWS IN ENDOCRINE & METABOLIC DISORDERS, vol.21, no.1, pp.127-147, 2020 (SCI-Expanded)
- XXI. **In Vitro Cytotoxic and Genotoxic Properties of Hexa Substituted New Organophosphazene Compounds**  
Dogan H., Bahar M. R., Caliskan E., Koran K., Tekin S., Sandal S., Görgülü A. O.  
ACTA PHYSIOLOGICA, vol.227, pp.66, 2019 (SCI-Expanded)
- XXII. **Cytotoxic Properties of Peptide Substituted Novel Cyclotriphosphazene Compound**  
Koran K., Tekin S., Caliskan E., Capan T., Sandal S., Görgülü A. O.  
ACTA PHYSIOLOGICA, vol.227, pp.68, 2019 (SCI-Expanded)
- XXIII. **The Effects of Intracerebroventricularly Administered Salusin-beta on levels of GnRH in Rats**  
Demir I., TEKİN S., SANDAL S.  
ACTA PHYSIOLOGICA, vol.227, pp.111, 2019 (SCI-Expanded)
- XXIV. **Intracerebroventricular MOTS-C Infusion Increases Peripheral Uncoupling Proteins in Rats Generated From Experimental Obesity Model**  
TEKİN S., ÖNALAN E., SANDAL S.  
ACTA PHYSIOLOGICA, vol.227, pp.106, 2019 (SCI-Expanded)
- XXV. **Administration of Acute Agomelatine Reduces Increased Oxidative Stress Due to Experimental Renal Ischemia / Reperfusion Damage in Rats**  
Aykora D., Ozturk D. A., Tanbek K., Bahar M. R., TEKİN S., SANDAL S.  
ACTA PHYSIOLOGICA, vol.227, pp.51, 2019 (SCI-Expanded)
- XXVI. **Intracerebroventricular MOTS-C Infusion Suppresses Thyroid Hormone Secretion in Rats**  
Bahar M. R., TEKİN S., Beytur A., Ozyalm F., ÖNALAN E., SANDAL S.  
ACTA PHYSIOLOGICA, vol.227, pp.30, 2019 (SCI-Expanded)
- XXVII. **Synthesis and evaluation of anticancer properties of novel benzimidazole ligand and their cobalt(II) and zinc(II) complexes against cancer cell lines A-2780 and DU-145**  
Yılmaz U., TEKİN S., Bugday N., Yavuz K., KÜÇÜKBAY H., Sandal S.  
INORGANICA CHIMICA ACTA, vol.495, 2019 (SCI-Expanded)
- XXVIII. **Cytotoxic effects of coumarin substituted benzimidazolium salts against human prostate and ovarian cancer cells**  
KARATAŞ M. O., TEKİN S., ALICI B., SANDAL S.  
JOURNAL OF CHEMICAL SCIENCES, vol.131, no.8, 2019 (SCI-Expanded)
- XXIX. **Effects of intracerebroventricular administration of irisin on the hypothalamus-pituitary-gonadal axis in male rats**  
TEKİN S., BEYTUR A., ERDEN Y., Beytur A., ÇİĞREMİŞ Y., VARDI N., TÜRKÖZ Y., TEKEDERELİ İ., SANDAL S.  
JOURNAL OF CELLULAR PHYSIOLOGY, vol.234, no.6, pp.8815-8824, 2019 (SCI-Expanded)
- XXX. **Synthesis and evaluation of anticancer properties of novel benzimidazole ligand and their cobalt (II) and Zinc (II) complexes against cancer cell lines A-2780 and DU-145**  
YILMAZ Ü., TEKİN S., Buğday N., Yavuz K., KÜÇÜKBAY H., SANDAL S.  
INORGANICA CHIMICA ACTA, vol.495, no.118977, pp.1-7, 2019 (SCI-Expanded)
- XXXI. **Evaluation of antioxidant and antiproliferative activities of 1,2-bis (p-amino-phenoxy) ethane derivative Schiff bases and metal complexes**  
PARLAK A. E., Cakmak H., SANDAL S., YILMAZ B., ŞEKERCİ M., KARAGÖZ GENÇ Z., TUZCU M., KARATEPE M.

- JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.33, no.2, 2019 (SCI-Expanded)
- XXXII. **Cannabinoid type 2 receptor agonist JWH-133, attenuates Okadaic acid induced spatial memory impairment and neurodegeneration in rats**  
ÇAKIR M., TEKİN S., DOĞANYİĞİT Z., ERDEN Y., Soy Turk M., ÇİĞREMİŞ Y., SANDAL S.  
LIFE SCIENCES, vol.217, pp.25-33, 2019 (SCI-Expanded)
- XXXIII. **In vitro cytotoxic and in vivo antitumoral activities of some aminomethyl derivatives of 2,4-dihydro-3H-1,2,4-triazole-3-thiones-Evaluation of their acetylcholinesterase and carbonic anhydrase enzymes inhibition profiles**  
Timur I., KOÇYİĞİT Ü. M., DAŞTAN T., SANDAL S., ÇERİBAŞI A. O., Taslimi P., GÜLÇİN İ., KOPARIR M., KARATEPE M., ÇİFTÇİ M.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.33, no.1, 2019 (SCI-Expanded)
- XXXIV. **Effects of Peripheral Irisin Infusion on the Glucose Uptake in High-Fat-Diet-Induced Obese Rats**  
Sandal S., Tekin S., Erden Y., Caglayan A. B., Ozyalin F., Çiğremiş Y., Çolak C.  
ACTA PHYSIOLOGICA, vol.225, pp.64, 2018 (SCI-Expanded)
- XXXV. **Effect of Intracerebroventricular Administration of Apelin-13 on the Hypothalamus-Pituitary-Thyroid Axis and Peripheral Uncoupling Proteins**  
ERDEN Y., TEKİN S., TEKİN Ç., Ozyalin F., YILMAZ Ü., ÖNALAN E., ÇİĞREMİŞ Y., ÇOLAK C., SANDAL S.  
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.24, no.4, pp.511-517, 2018 (SCI-Expanded)
- XXXVI. **Effect of Cannabinoid Type 2 Receptor Activation in Okadaic Acid Induced Rat Alzheimer's Disease Model**  
ÇAKIR M., DOĞANYİĞİT Z., TEKİN S., ERDEN Y., ÇİĞREMİŞ Y., SANDAL S.  
ACTA PHYSIOLOGICA, vol.225, pp.41, 2018 (SCI-Expanded)
- XXXVII. **Determination of in Vitro Cytotoxic Activity of new Chalcone-Phosphazene Compounds Bearing Indole and Imidazole Hetero Groups as Side Groups on A2780 and PC-3 Cancer Cell Lines**  
SANDAL S., TEKİN S., Koran K., Gorgulu A. O.  
ACTA PHYSIOLOGICA, vol.225, pp.32, 2018 (SCI-Expanded)
- XXXVIII. **Effects of central FGF21 infusion on the hypothalamus-pituitary-thyroid axis and energy metabolism in rats**  
YILMAZ Ü., TEKİN S., Demir M., ÇİĞREMİŞ Y., SANDAL S.  
JOURNAL OF PHYSIOLOGICAL SCIENCES, vol.68, no.6, pp.781-788, 2018 (SCI-Expanded)
- XXXIX. **Central irisin administration suppresses thyroid hormone production but increases energy consumption in rats**  
Tekin S., Erden Y., Ozyalin F., Onalan E. E., Çiğremiş Y., Çolak C., Tekedereli İ., Sandal S.  
NEUROSCIENCE LETTERS, vol.674, pp.136-141, 2018 (SCI-Expanded)
- XL. **Pinealectomy alters IFN-gamma and IL-10 levels in primary thymocyte culture of rats**  
ŞAHİN Z., SANDAL S., YILMAZ B., BULMUŞ Ö., Ozdemir G., KUTLU S., Godekmerdan A., KELEŞTİMUR H.  
CELLULAR AND MOLECULAR BIOLOGY, vol.64, no.14, pp.25-30, 2018 (SCI-Expanded)
- XLI. **Investigation of Antiproliferative Properties of Malva neglecta Extracts**  
TEKİN S., KESER S., Keser F., SANDAL S., TÜRKOĞLU İ., KARATEPE M., TÜRKOĞLU S.  
ACTA PHYSIOLOGICA, vol.221, pp.52, 2017 (SCI-Expanded)
- XLII. **Protective Effect of Saxagliptin Against Renal Ischemia/Reperfusion Injury in Male Rats**  
TEKİN S., Beytur A., ÇAKIR M., SANDAL S.  
ACTA PHYSIOLOGICA, vol.221, pp.27-28, 2017 (SCI-Expanded)
- XLIII. **Investigation of The Anticarcinogenic Effects of Portulaca oleracea Extracts on Different Human Cancer Cell Lines**  
Sandal S., Keser S., Tekin S., Keser F., Türkoğlu İ., Karatepe M.  
ACTA PHYSIOLOGICA, vol.221, pp.50, 2017 (SCI-Expanded)
- XLIV. **Determination of Cytotoxicity Properties of Oxime-Cyclotriphosphazene Derivatives Against PC-3 Cancer Cell Lines**  
Calisgan S., Beytur A., Menengic K. N., Tekin S., Koran K., Görgülü A. O., Sandal S.

- ACTA PHYSIOLOGICA, vol.221, pp.53, 2017 (SCI-Expanded)
- XLV. **Analysis of Relationship Between Dioxin-Like and Estrogenic Bioactivity and Genotoxic Changes in Mammary Epithelial Cells with Nutritional Habits of Breastfeeding Mothers**  
Agus S., Atasayan O., SANDAL S., Mete F., Eyuboglu S., YILMAZ B.  
ACTA PHYSIOLOGICA, vol.221, pp.121, 2017 (SCI-Expanded)
- XLVI. **Investigation of the Effects of Sitagliptin on Cancer; In Vitro Study**  
TEKİN S., ÇAKIR M., Beytur A., SANDAL S.  
ACTA PHYSIOLOGICA, vol.221, pp.51, 2017 (SCI-Expanded)
- XLVII. **Cytotoxicity Properties of Full Substituted Organocyclophosphazene Derivatives Containing chalcone-groups against A2780 and MCF-7 Cancer Cell Lines**  
Durmus M., Beytur A., Celik M., Disli F., Koran K., Tekin S., Görgülü A. O., Sandal S.  
ACTA PHYSIOLOGICA, vol.221, pp.53, 2017 (SCI-Expanded)
- XLVIII. **Determination of Anticancer Activities of Organophosphazene Compounds Bearing Ether Groups on Human Cancer Cell Lines**  
Beytur A., Demir I., Koran K., Tekin S., Görgülü A. O., Sandal S.  
ACTA PHYSIOLOGICA, vol.221, pp.52, 2017 (SCI-Expanded)
- XLIX. **Investigation of Cytotoxicity Properties of Novel Phthalocyanine Complexes Containing Chalcones Groups on Different Cancer Cell Lines**  
TEKİN S., KORAN K., GÖRGÜLÜ A. O., SANDAL S.  
ACTA PHYSIOLOGICA, vol.221, pp.51, 2017 (SCI-Expanded)
- L. **Synthesis, structural and thermal characterizations, dielectric properties and in vitro cytotoxic activities of new 2,2,4,4-tetra(4'-oxy-substituted-chalcone)-6,6-diphenylcyclotriposphazene derivatives**  
Koran K., TEKİN Ç., Biryan F., TEKİN S., SANDAL S., Gorgulu A. O.  
MEDICINAL CHEMISTRY RESEARCH, vol.26, no.5, pp.962-974, 2017 (SCI-Expanded)
- LI. **The effects of intracerebroventricular infusion of irisin on feeding behaviour in rats**  
Tekin S., Erden Y., Ozyalın F., Çiğremiş Y., Çolak C., Sandal S.  
NEUROSCIENCE LETTERS, vol.645, pp.25-32, 2017 (SCI-Expanded)
- LII. **Effects of apelin on reproductive functions: relationship with feeding behavior and energy metabolism**  
Tekin S., Erden Y., Sandal S., Onalan E. E., Ozyalın F., Ozen H., Yilmaz B.  
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, vol.123, no.1, pp.9-15, 2017 (SCI-Expanded)
- LIII. **Investigation on the effect of nano-TiO<sub>2</sub> synthesized by the hydrothermal method on LNCaP cancer cells**  
Emre F. B., Okusluk F., Tekin S., Sandal S.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.49, no.3, pp.664-668, 2017 (SCI-Expanded)
- LIV. **Synthesis, structural and thermal characterizations and in vitro cytotoxic activities of new cyclotriposphazene derivatives**  
KORAN K., TEKİN Ç., Caliskan E., TEKİN S., SANDAL S., GÖRGÜLÜ A. O.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.192, no.9, pp.1002-1011, 2017 (SCI-Expanded)
- LV. **Potential risk factors for early large pleural effusion after coronary artery bypass grafting surgery**  
ÇOLAK M. C., ÇOLAK C., ERDİL N., SANDAL S.  
BIOMEDICAL RESEARCH-INDIA, vol.28, no.2, pp.625-629, 2017 (SCI-Expanded)
- LVI. **Synthesis of 2-(2,3,4-trimethoxyphenyl)-1-(substituted-phenyl)acrylonitriles: in vitro anticancer activity against MCF-7, PC-3 and A2780 cancer cell lines**  
Ozen F., TEKİN S., Koran K., SANDAL S., Gorgulu A. O.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.42, no.12, pp.7793-7805, 2016 (SCI-Expanded)
- LVII. **The Effect of Melatonin on the Alzheimer's Disease: Relationship with FEZ1 Gene Expression**  
Demir M., Yılmaz Ü., Sandal S., Çolak C., Çiğremiş Y.  
ACTA PHYSIOLOGICA, vol.218, pp.21-22, 2016 (SCI-Expanded)

- LVIII. Comparison of Bioactivity of Dioxins in Breast Milk with Body Mass Index in Lactating Mothers**  
Agus S., Atasayan O., SANDAL S., METE F., Eyuboglu S., Yilmaz B.  
ACTA PHYSIOLOGICA, vol.218, pp.61, 2016 (SCI-Expanded)
- LIX. Neurotransmitters Levels in Experimentally Produced Alzheimer Model in Rats**  
Demir M., Yilmaz Ü., Sandal S., Çolak C., Ozyalın F.  
ACTA PHYSIOLOGICA, vol.218, pp.71, 2016 (SCI-Expanded)
- LX. Is there Any Relationship Between Obesity and FGF21?**  
Yilmaz Ü., Tekin S., Demir M., Sandal S.  
ACTA PHYSIOLOGICA, vol.218, pp.51-52, 2016 (SCI-Expanded)
- LXI. Determination of Anticancer and Antimicrobial Properties of Alcea calvertii**  
Keser S., Tekin S., Kaygılı O., Keser F., Turkoglu I., Turkoglu S., Kirbag S., Sandal S.  
ACTA PHYSIOLOGICA, vol.218, pp.52, 2016 (SCI-Expanded)
- LXII. The Effect of Hypericum scabrum on the Human Prostate, Colon and Breast Cancer**  
Keser S., Tekin S., Kaygılı O., Keser F., Sandal S.  
ACTA PHYSIOLOGICA, vol.218, pp.52, 2016 (SCI-Expanded)
- LXIII. Effects of Central FGF21 Infusion on TRH and TSH Levels**  
Yilmaz Ü., Tekin S., Demir M., Sandal S., Çiğremiş Y.  
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- LXIV. Does Irisin Affect Uncoupling Protein Levels in Fat and Muscle Tissues?**  
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## Non Academic Experience

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