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Education Information

Doctorate, Marmara University, Institute of Health Sciences, Biyokimya (YI) (Tezli) (Eczacılık), Turkey 1997 - 2002

Postgraduate, Marmara University, Institute of Health Sciences, Biyokimya (YI) (Tezli) (Eczacılık), Turkey 1993 - 1996

Undergraduate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 1989 - 1993

Dissertations

Postgraduate, Deneysel diyabette deri proteinlerinin ve antioksidan sistem elemanlarının incelenmesi, Marmara Üniversitesi, Institute of Health Sciences, Biyokimya (YI) (Tezli) (Eczacılık), 1996

Research Areas

Health Sciences, Natural Sciences

Academic Titles / Tasks

Professor, Marmara University, Faculty of Dentistry, Basic Medical Sciences (Faculty of Dentistry), 2013 - Continues

Associate Professor, Marmara University, Faculty of Dentistry, Basic Medical Sciences (Faculty of Dentistry), 2006 - 2013

Research Assistant, Marmara University, Faculty of Dentistry, Basic Medical Sciences (Faculty of Dentistry), 1993 - 2006

Academic and Administrative Experience

Ethics Committee Member, Marmara University, Faculty of Dentistry, Basic Medical Sciences (Faculty of Dentistry), 2015 - Continues

DENEY HAYVANLARI ARAŞTIRMA VE UYGULAMA MERKEZİ YÖNETİM KURULU ÜYESİ, Marmara University, Faculty of Dentistry, Basic Medical Sciences (Faculty of Dentistry), 2015 - 2018

Advising Theses

- AKBAY T., Farklı konsantrasyonlarda süte eklenen fluoksetinin polikaprolakton esaslı ve immünosorbent özellikli filtre aracılığı ile uzaklaştırılması, Postgraduate, H.DUDU(Student), 2018
- AKBAY T., Mersin bitkisinin (*Myrtus communis* subsp. *communis*) termal deri yanığı üzerine etkisi, Postgraduate, O.ÖZCAN(Student), 2017
- AKBAY T., Streptozotosin ile oluşturulan deneysel diyabette insülin ve melatonin tedavisinin beyin dokusu üzerine etkilerini incelenmesi, Postgraduate, B.GÜREL(Student), 2016
- AKBAY T., Sulu sarımsak ekstresinin deneysel sepsis modelinde böbrek hasarı üzerine etkisi, Postgraduate, H.İPEKÇİ(Student), 2015
- AKBAY T., Sağlıklı ve diyabetik kişilerden elde edilen kan hücrelerinin doku faktörü aktivitesi üzerine *Candida albicans*'in etkisinin in vitro incelenmesi, Postgraduate, S.GÜLER(Student), 2011
- AKBAY T., Trinitrobenzen sülfonik asit (TNBS) ile oluşturulan deneysel kolitte çörek otu (*Nigella sativa*) yağının koruyucu etkisinin incelenmesi, Postgraduate, F.İŞİK(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Neuroprotective effect of *Myrtus communis* against ionizing radiation-induced brain injury: Insights from histopathological and biochemical analysis in rats**
Aslan D., Alan B., Yay N., Karaoglu S., Ertas B., Sen A., Ceylan C., Akbay T., Ercan F., Atasoy B. M.
JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES, vol.17, no.4, pp.1-10, 2024 (SCI-Expanded)
- II. **Comparison of the developmental effects of lactase or bisphenol A antibody immobilized polycaprolactone/silk fibroin nanofibers on zebrafish embryos.**
Sivas G. G., Ünal İ., Gürel-Gökmen B., Emekli-Alturfan E. I., Tunali Akbay T.
Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association, vol.191, pp.114871, 2024 (SCI-Expanded)
- III. **Whey Protein Concentrate Ameliorates the Methotrexate-Induced Liver and Kidney Damage**
Tufan E., Sivas G. G., Gökmen B. G., Karaoğlu S. Y., DURSUN E., Ak E., Muhan A., ÖZBEYLİ D., Şener G., AKBAY T.
British Journal of Nutrition, vol.130, no.10, pp.1704-1711, 2023 (SCI-Expanded)
- IV. **Lactose hydrolyzing activity of the lactase immobilized polycaprolactone and silk fibroin-based nanofiber and nitrocellulose membrane**
Yılmaz-Karaoğlu S., Gürel-Gökmen B., AKBAY T.
Food Bioscience, vol.49, 2022 (SCI-Expanded)
- V. **Myrtle improves renovascular hypertension-induced oxidative damage in heart, kidney, and aortic tissue**
Arslan S., Ozcan O., Gurel-Gokmen B., ÇEVİKELLİ YAKUT Z. A., Saygi H. I., ŞEN A., GÖGER F., ERKANLI ŞENTÜRK G., Sener G., Tunali-Akbay T.
BIOLOGIA, vol.77, pp.1877-1888, 2022 (SCI-Expanded)
- VI. **Antiproliferative Activity of Whey and Casein Bioactive Peptides on Breast Cancer: An In Vitro and In Silico Study**
Sahna K. O., Cakir B., Tunali-Akbay T.
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.28, no.4, 2022 (SCI-Expanded)
- VII. **Inhibitory effect of whey protein concentrate on SARS-CoV-2-targeted furin activity and spike protein-ACE2 binding in methotrexate-induced lung damage**
Tufan E., Sivas G. G., Gurel-Gokmen B., Yilmaz-Karaoglu S., Ercan D., ÖZBEYLİ D., Sener G., Tunali-Akbay T.
JOURNAL OF FOOD BIOCHEMISTRY, vol.46, no.6, 2022 (SCI-Expanded)
- VIII. **Polycaprolactone/silk fibroin electrospun nanofibers-based lateral flow test strip for quick and**

facile determination of bisphenol A in breast milk

Gurel-Gokmen B., Taslak H. D., Ozcan O., Ipar N., Tunali-Akbay T.

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.109, no.10, pp.1455-1464, 2021 (SCI-Expanded)

- IX. **Potential anticarcinogenic effect of goat milk-derived bioactive peptides on HCT-116 human colorectal carcinoma cell line.**
Çakır B., Tunali-Akbay T.
Analytical biochemistry, vol.622, 2021 (SCI-Expanded)
- X. **Investigation of beta-lactoglobulin derived bioactive peptides against SARS-CoV-2 (COVID-19): In silico analysis**
Cakir B., OKUYAN B., ŞENER G., Tunali-Akbay T.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.891, 2021 (SCI-Expanded)
- XI. **Effect of Freezing Time on Tissue Factor Activity and Macronutrients of Human Milk**
Gokmen B. G., Ozcan O., Taslak H., Ipar N., Tunali-Akbay T.
PROTEIN JOURNAL, vol.39, no.5, pp.591-597, 2020 (SCI-Expanded)
- XII. **The effect of Myrtus communis L. ethanol extract on the small intestine and lungs in experimental thermal burn injury**
Ozcan O., Ipekci H., Alev B., Ustundag U. V., ŞEN A., ALTURFAN E. I., ŞENER G., YARAT A., Tunali-Akbay T.
JOURNAL OF THERMAL BIOLOGY, vol.93, 2020 (SCI-Expanded)
- XIII. **Validated Immunosorbent Surface-Based Determination of Theophylline in Milk**
AKBAY T., Ipekci H., YARAT A.
JOURNAL OF ANALYTICAL CHEMISTRY, vol.75, no.5, pp.640-644, 2020 (SCI-Expanded)
- XIV. **Usage of bioactivated PCL nanofiber as a fluoxetine capturing matrix in milk**
Taslak H. D., Gurel Gokmen B., Ozcan O., Tunali-Akbay T.
Separation Science and Technology (Philadelphia), vol.55, no.5, pp.828-834, 2020 (SCI-Expanded)
- XV. **Protective effect of Myrtle (Myrtus communis) on burn induced skin injury**
Ozcan O., Ipekci H., Alev B., Ustundag U., Ak E., Sen A., Alturfan E. I., Sener G., Yarat A., Cetinel Ş., et al.
BURNS, vol.45, no.8, pp.1856-1863, 2019 (SCI-Expanded)
- XVI. **Development of nanofiber based immunosorbent surface for the removal of fluoxetine from breast milk**
Tunali-Akbay T., Kahraman M. V., Oktay B., İpekçi H., Kayaman Apohan N.
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.68, no.16, pp.947-955, 2019 (SCI-Expanded)
- XVII. **Melatonin improves hyperglycemia induced damages in rat brain**
Gurel-Gokmen B., İPEKÇİ H., OKTAY N. Ş., ALEV B., USTUNDAG U. V., AK E., AKAKIN D., ŞENER G., Emekli-Alturfan E. I., YARAT A., et al.
DIABETES-METABOLISM RESEARCH AND REVIEWS, vol.34, no.8, 2018 (SCI-Expanded)
- XVIII. **Effect of freezing time on tissue factor activity of breast milk**
Gurel-Gokmen B., Ozcan O., Taslak H. D., Akbay T.
FEBS OPEN BIO, vol.8, pp.275, 2018 (SCI-Expanded)
- XIX. **The effect of vitamin U on the lung tissue of pentylentetrazole-induced seizures in rats**
Oktay S., Bayrak G., Alev B., Ipekci H., Ustundag U. V., Turkyilmaz I. B., Pisiriciler R., Emekli-Alturfan E. I., Tunali-Akbay T., Yanardag R., et al.
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.391, no.2, pp.177-184, 2018 (SCI-Expanded)
- XX. **The effect of vitamin u on the lung tissue of pentylentetrazole-induced seizures in rats**
OKTAY N. Ş., BAYRAK G., ALEV B., İPEKÇİ H., USTUNDAG U. V., TÜRKYILMAZ İ. B., PİŞİRİCİLER R., ALTURFAN E. I., AKBAY T., YANARDAĞ R., et al.
Naunyn-Schmiedebergs Archives Of Pharmacology, vol.391, 2018 (SCI-Expanded)
- XXI. **Protective role of Edaravone against valproic acid induced changes in skin**
AKBAY T., ALEV TÜZÜNER B., TUNALI S., OKTAY N. Ş., İPEKÇİ H., KOÇ ÖZTÜRK L., YANARDAĞ R., YARAT A.
Indian Journal of Experimental Biology, vol.55, pp.286-291, 2017 (SCI-Expanded)

- XXII. **Protective role of Edaravone against valproic acid induced changes in skin**
AKBAY T., ALEV B., TUNALI S., OKTAY N. Ş., ALTURFAN E. I., İPEKÇİ H., KOÇ ÖZTÜRK L., YANARDAĞ R., YARAT A.
INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY, vol.55, pp.286-291, 2017 (SCI-Expanded)
- XXIII. **Protective role of edavarone against valproic acid induced changes in skin**
AKBAY T., alev b., TUNALI S., OKTAY N. Ş., ALTURFAN E. I., ipekçi h., KOÇ ÖZTÜRK L., YANARDAĞ R., YARAT A.
Indian Journal of Experimental Biology, vol.55, pp.286-291, 2017 (SCI-Expanded)
- XXIV. **Effects of Chard (Beta VulgarisL. Var. Cicla) on Cardiac Damage in Valproic Acid-Induced Toxicity**
Ustundag U. V., Tunali S., Alev B., Ipekci H., Emekli-Alturfan E. I., AKBAY T., Yanardag R., YARAT A.
JOURNAL OF FOOD BIOCHEMISTRY, vol.40, no.2, pp.132-139, 2016 (SCI-Expanded)
- XXV. **Edaravone ameliorates the adverse effects of valproic acid toxicity in small intestine**
Oktay S., Alev B., Tunali S., Emekli-Alturfan E. I., Tunali-Akbay T., Koc-Ozturk L., Yanardag R., Yarat A.
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.34, no.6, pp.654-661, 2015 (SCI-Expanded)
- XXVI. **Effects of edavarone on cardiac damage in valproic acid induced toxicity**
ALTURFAN E. I., Alev B., TUNALI S., OKTAY N. Ş., AKBAY T., KOÇ ÖZTÜRK L., YANARDAĞ R., YARAT A.
Ann Clin Lab Sci, vol.45, pp.166-172, 2015 (SCI-Expanded)
- XXVII. **Edavarone ameliorates the adverse effects of valproic acid toxicity in small intestine**
OKTAY N. Ş., Burçin A., TUNALI S., ALTURFAN E. I., AKBAY T., KOÇ ÖZTÜRK L., YANARDAĞ R., YARAT A.
Hum Exp Toxicol, vol.34, pp.654-661, 2015 (SCI-Expanded)
- XXVIII. **Oral health and related factors in a group of children with cystic fibrosis in Istanbul, Turkey**
Peker S., Kargul B., Tanboga I., Tunali-Akbay T., Yarat A., Karakoc F., Ersu R., Dagli E.
NIGERIAN JOURNAL OF CLINICAL PRACTICE, vol.18, no.1, pp.56-60, 2015 (SCI-Expanded)
- XXIX. **The effect of silymarin on the liver in thermal burn injury Termal yanıkda silmarinin karaciğer üzerine etkisi**
Yemişen E., YARAT A., Tunali Akbay T., Toklu H., ŞENER G.
Marmara Pharmaceutical Journal, vol.18, no.2, pp.56-61, 2014 (SCI-Expanded)
- XXX. **The Effect of Stinging Nettle (Urtica Diocia) Seed Oil on Experimental Colitis in Rats**
GENÇ Z., YARAT A., AKBAY T., ŞENER G., ÇETİNEL Ş., PİŞİRİCİLER R., AK E., ALTINTAŞ A.
J Med Food, 2011 (SCI-Expanded)
- XXXI. **The Effect of Stinging Nettle (Urtica dioica) Seed Oil on Experimental Colitis in Rats**
Genc Z., YARAT A., Tunali-Akbay T., ŞENER G., ÇETİNEL Ş., Pisiriciler R., Caliskan-Ak E., Altintas A., Demirci B.
JOURNAL OF MEDICINAL FOOD, vol.14, no.12, pp.1554-1561, 2011 (SCI-Expanded)
- XXXII. **Protective effects of black cumin (Nigella sativa) oil on TNBS-induced experimental colitis in rats**
IŞIK F., AKBAY T., YARAT A., GENÇ Z., PİŞİRİCİLER R., AK E., ŞENER G.
Digestive Diseases and Sciences, vol.56, no.3, pp.721-730, 2011 (SCI-Expanded)
- XXXIII. **Protective Effects of Black Cumin (Nigella sativa) Oil on TNBS-Induced Experimental Colitis in Rats**
Isik F., AKBAY T., Yarat A., Genc Z., Pisiriciler R., Caliskan-Ak E., Cetinel S., Altintas A., Sener G.
DIGESTIVE DISEASES AND SCIENCES, vol.56, no.3, pp.721-730, 2011 (SCI-Expanded)
- XXXIV. **Effect of Black Cumin Nigella sativa Oil on gastric tissue in experimental colitis**
ALTURFAN E. I., YARAT A., AKBAY T., Işık F., Yenidoğan G., ŞENER G., ŞEHİRLİ A. Ö., PİŞİRİCİLER R., AK E., Altıntaş A.
Advances in Environmental Biology, 2011 (SCI-Expanded)
- XXXV. **The effect of glurenorm (gliquidone) on aorta in STZ induced diabetic rats STZ ile diyabet oluşturulan sıçanlarda glurenormun (gliquidone) aort üzerine etkisi**
Tunali Akbay T., YARAT A., Sacan O., Yanardag R.
Kafkas Universitesi Veteriner Fakultesi Dergisi, vol.17, no.2, pp.235-238, 2011 (SCI-Expanded)
- XXXVI. **The Effect of Glurenorm Gliquidone on Aorta in STZ Induced Diabetic Rats Kafkas Uni Vet Fak Derg 17 2 235 238 2011**
AKBAY T., YARAT A., SAÇAN Ö., YANARDAĞ R.
Kafkas Uni. Vet. Fak. Derg., 2011 (SCI-Expanded)
- XXXVII. **Resveratrol protects against methotrexate-induced hepatic injury in rats**
Tunali-Akbay T., Sehirli O., ERCAN F., ŞENER G.
Journal of Pharmacy and Pharmaceutical Sciences, vol.13, no.2, pp.303-310, 2010 (SCI-Expanded)

- XXXVIII. **THE EFFECT OF BLACK CUMIN (*Nigella sativa*) SEED OIL ON EXPERIMENTAL COLITIS IN RATS**
YARAT A., Isik F., AKBAY T., Sener G., Sehirli A. O., ÇETİNEL Ş.
ANNALS OF NUTRITION AND METABOLISM, vol.55, pp.489-490, 2009 (SCI-Expanded)
- XXXIX. **Effects of sodium bicarbonate induced blood pH change on oxidant status and thromboplastic activity of the kidney and lung**
AKBAY T., Emiroğlu A., Gül N., YARAT A.
ASian Journal of Chemistry, vol.20, 2008 (SCI-Expanded)
- XL. **Silymarin, the Antioxidant Component of *Silybum marianum*, Prevents Sepsis-Induced Acute Lung and Brain Injury**
Toklu H. Z., Akbay T., Velioglu-Ogunc A., Ercan F., Gedik N., Keyer-Uysal M., ŞENER G.
Journal of Surgical Research, vol.145, no.2, pp.214-222, 2008 (SCI-Expanded)
- XLII. **Altered biochemical parameters in the saliva of patients with breast cancer**
Emekli-Alturfan E. I., Demir G., Kasikci E., Tunali-Akbay T., Pisiriciler R., Caliskan E., YARAT A.
Tohoku Journal of Experimental Medicine, vol.214, no.2, pp.89-96, 2008 (SCI-Expanded)
- XLIII. **Altered biochemical parameters in the saliva of patients with breast cancer**
Altered biochemical parameters in the saliva of patients with breast cancer Tohoku J Exp Med Feb 214 2 89 96 2008 Feb 214 2 89 96 2008
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- XLIII. **Silymarin, the antioxidant component of *Silybum marianum*, protects against burn-induced oxidative skin injury**
Toklu H. Z., Tunah-Akbay T., Erkanı G., Yuksel M., Ercan F., Sener G.
Burns, vol.33, no.7, pp.908-916, 2007 (SCI-Expanded)
- XLIV. **Protective effects of *Ginkgo biloba* extract against mercury(II)-induced cardiovascular oxidative damage in rats**
Tunali-Akbay T., Sener G., Salvarli H., Sehirli O., Yarat A.
Phytotherapy Research, vol.21, no.1, pp.26-31, 2007 (SCI-Expanded)
- XLV. **Effects of parsley (*Petroselinum crispum*) extract versus glibornuride on the liver of streptozotocin-induced diabetic rats**
Ozsoy-Sacan O., Yanardag R., Orak H., Ozgey Y., Yarat A., Tunali T.
Journal of Ethnopharmacology, vol.104, pp.175-181, 2006 (SCI-Expanded)
- XLVI. **Melatonin reduces oxidative damage to skin and normalizes blood coagulation in a rat model of thermal injury**
Tunali T., Sener G., Yarat A., Emekli N.
Life Sciences, vol.76, no.11, pp.1259-1265, 2005 (SCI-Expanded)
- XLVII. **6,7-Dihydroxy-3-phenylcoumarin inhibits thromboplastin induced disseminated intravascular coagulation**
Tunali T., Yarat A., Bulut M., Emekli N.
British Journal of Haematology, vol.126, no.2, pp.226-230, 2004 (SCI-Expanded)
- XLVIII. **Salivary thromboplastic activity in diabetics and healthy controls.**
YARAT A., Tunali T., Pisiriciler R., AKYÜZ S. H., Ipbuker A., Emekli N.
Clinical oral investigations, vol.8, no.1, pp.36-39, 2004 (SCI-Expanded)
- XLIX. **The effect of Glurenorm (gliquidone) on lenses and skin in experimental diabetes**
Yarat A., Tunali T., Yanardag R., Gursoy F., Sacan O., Emekli N., Ustuner A., Ergenekon G.
Free Radical Biology and Medicine, vol.31, no.9, pp.1038-1042, 2001 (SCI-Expanded)
- L. **Limited effects of parsley (*Petroselinum crispum*) on protein glycation and glutathione in lenses of streptozotocin-Induced diabetic rats**
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- LII. **The effect of parsley petroselinum crispum on the skin of STZ induced diabetic rats** *Phytotherapy Res* 13 138 141 1999
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- LIII. **The effect of chard (Beta vulgaris L. var. cicla) on the skin of streptozotocin induced diabetic rats**
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- LIV. **The effect of chard Beta vulgaris L var cicla on the skin of STZ induced diabetic rats**
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- LV. **The effect of chard Beta vulgaris L var cicla on the protein and antioxidant system in the lenses of STZ induced diabetic rats** *Journal of Pharmacy and Pharmacology Communication* 4 5 271 274 1998
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Articles Published in Other Journals

- I. **The Effects of Lipoic Acid on Markers of Oxidative Stress and Inflammation in the Lungs of Valproic Acid-Treated Rats**
Alev B., Türkyılmaz Mutlu İ. B., İpekçi H., Üstündağ Ü. V., Akbay T., Alturfan E. I., Yanardağ R., Yarat A.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.11, no.4, pp.1441-1448, 2024 (Scopus)
- II. **Morphological and Biochemical Investigation of the Protective Effects of Panax ginseng on Methotrexate-Induced Testicular Damage**
Karakaya F. B., Macit Ç., Sivas G. G., Akbay T., Şeber G., Ercan F.
European Journal of Biology, vol.82, no.1, pp.31-37, 2023 (Scopus)
- III. **Chard extract increased gastric sialic acid and ameliorated oxidative stress in valproic acid-administered rats**
Alev B., Tunali S., Üstündağ Ü. V., İpekçi H., Alturfan E. I., Akbay T. T., Yanardag R., Yarat A.
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- IV. **Investigation of the toxicologic and biochemical effects of silk fibroin/gold nanoparticles-based nanofiber using zebrafish embryos**
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EXPERIMED, vol.13, pp.109-114, 2023 (Scopus)
- V. **The Effects of Refrigerated Storage Time on Sialic Acid and Nitric Oxide Levels and Oxidant Antioxidant System of Human Milk**
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- VI. **Panax ginseng extract ameliorates methotrexate-induced multi-organ damage via the regulation of oxidative stress**
MACİT Ç., EDE PAZARBAŞI S., YILMAZ KARAOĞLU S., AKBAY T., Karakaya-Çimen F., ERCAN F., ŞENER G.
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- VII. **The Effect of Whey Proteins on the Brain and Small Intestine Nitric Oxide Levels: Protein Profiles in Methotrexate-Induced Oxidative Stress**
Yılmaz Karaoğlu S., Tufan E., Sivas G. G., Gürel Gökmen B., Dursun E., Özbeyli D., Şener G., Akbay T.
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- VIII. **Brain in metabolic syndrome model: The effect of exercises and caloric restriction**
Alev-Tuzuner B., Genc-Kahraman N., Ipekci H., Ustundag U. V., AKBAY T., ALTURFAN E. I., Sener G., YARAT A.
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- IX. **The effect of heat treatment on the nutritional and antioxidant content of different milk types**
Gürel-Gökmen B., Taslak H. D., Ozcan O., Sivas G. G., YILMAZ KARAOĞLU S., AKBAY T.
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- X. **Exercise and Caloric Restriction Improves Liver Damage in Metabolic Syndrome Model**
Genc Kahraman N., Alev Tuzuner B., Ipekci H., Üstündağ Ü. V., Akbay T., Alturfan E. I., Şener G., Yarat A.
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- XI. **Effects of Exercise and Calorie Restriction on Brain and Testis in Natural Aging Model**
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- XII. **Bioactivated poly (vinyl alcohol) /poly(acrylic acid) based nanofiber for high-performance membrane techniques**
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- XIII. **Whitw Cabbage Extract Reduces The Harmful Effects of Amiodarone on Heart Tissue in Rats**
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Awards

Akbay T., Kore Kadın Buluşçular Fuarı, Kiwie , June 2016

Non Academic Experience

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