

## Prof. DURDU ALTUNER

### Personal Information

Office Phone: [+90 446 226 1818](tel:+904462261818)

Email: [daltuner@erzincan.edu.tr](mailto:daltuner@erzincan.edu.tr)

Web: <https://avesis.ebyu.edu.tr/daltuner>

### International Researcher IDs

ORCID: 0000-0002-5756-3459

Yoksis Researcher ID: 56206

### Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji, Turkey 2001 - 2006

Undergraduate, Cukurova University, Tıp Fakültesi, Turkey 1984 - 1992

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, Paraoksonaz gen polimorfizminin tip 2 diyabetli hastalarda komplikasyon gelişimi ve lipid metabolizması ile ilişkisi, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji, 2006

### Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Pharmacology and Clinical Pharmacology, Medical Pharmacology and Toxicology

### Academic Titles / Tasks

Associate Professor, Erzincan Binali Yildirim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2015 - Continues

Assistant Professor, Erzincan Binali Yildirim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2014 - 2015

Assistant Professor, Recep Tayyip Erdogan University, Tıp Fakültesi, Tıbbi Farmakoloji, 2009 - 2014

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

- I. **The hormonal mechanism of the effects of meperidine, sertraline, tianeptine, and their combinations on reproductive functions in female rats.**  
Yilmaz B. K., Suleyman Z., Suleyman B., Mammadov R., Bulut S., Altuner D., Alptekin O., Coban T. A., Suleyman H.  
Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie, vol.178, pp.117160, 2024 (SCI-Expanded)
- II. **Taxifolin as a novel therapeutic agent for epileptic seizures induced by caffeine-induced oxidative**

**stress in rats.**

YAŞAR H., ALTUNER D., Bulut S., ÇİÇEK B., GÜRSUL C., KUZUCU M., SÜLEYMAN H.

Advances in clinical and experimental medicine : official organ Wroclaw Medical University, vol.33, no.8, pp.805-815, 2024 (SCI-Expanded)

- III. **Lacidipine, thiamine pyrophosphate and their combination on the ocular ischemic syndrome induced by bilateral common carotid artery ligation.**  
Cicek I., Somuncu A. M., ALTUNER D., SÜLEYMAN B., MAMMADOV R., Bulut S., ÇOBAN T. A., TASTAN T., SÜLEYMAN H.  
International journal of ophthalmology, vol.17, no.5, pp.815-821, 2024 (SCI-Expanded)
- IV. **Effects of adenosine triphosphate, Lacidipine, and Benidipine on 5-fluorouracil-induced kidney damage in rats.**  
Dagel T., ALTUNER D., SÜLEYMAN B., MAMMADOV R., Bulut S., BAL TAŞTAN T., GÜLABOĞLU M., SÜLEYMAN H.  
European review for medical and pharmacological sciences, vol.28, no.6, pp.2538-2549, 2024 (SCI-Expanded)
- V. **Effects of benidipine, paracetamol, and their combination on postoperative and normal tissue pain thresholds.**  
Bedir Z., Ozkaloglu Erdem K. T., Doymus O., SÜLEYMAN H., YAVUZER B., ÇİÇEK B., ALTUNER D., MAMMADOV R., Yilmaz M., ÇOBAN T. A., et al.  
Frontiers in pharmacology, vol.14, pp.1326128, 2024 (SCI-Expanded)
- VI. **Pulmonary toxicity associated with high-dose favipiravir and treatment options: biochemical and histopathological evaluation Toxicidad pulmonar asociada a altas dosis de favipiravir y opciones de tratamiento: Evaluación bioquímica e histopatológica**  
Elma B., SÜLEYMAN B., MAMMADOV R., YAVUZER B., ÜNVER E., ALTUNER D., ÇOBAN T. A., MOKHTARE B., SÜLEYMAN H.  
Investigacion Clinica (Venezuela), vol.65, no.1, pp.83-98, 2024 (SCI-Expanded)
- VII. **Biochemical and histopathological evaluation of systemic and ocular toxicity of favipiravir in rats**  
Özcan D., Özçelik F., MAMMADOV R., AKTAŞ M., Altındağ F., Alkan A. A., Karapapak M., ALTUNER D., SÜLEYMAN H.  
Cutaneous and Ocular Toxicology, vol.43, no.2, pp.105-112, 2024 (SCI-Expanded)
- VIII. **Protective effect of cinnamon extract against cobalt-induced multiple organ damage in rats**  
IŞIK B., SÜLEYMAN B., MAMMADOV R., Bulut S., YAVUZER B., ALTUNER D., ÇOBAN T. A., SÜLEYMAN H.  
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- IX. **ROLE OF L-, N- AND T-TYPE CALCIUM CHANNELS IN ACHIEVING MAXIMUM ANALGESIC AND MINIMUM TOXIC EFFECT OF TRAMADOL**  
Yılmaz M., SÜLEYMAN B., MAMMADOV R., ALTUNER D., ÇOBAN T. A., Bulut S., COŞKUN R., SÜLEYMAN H.  
Acta Poloniae Pharmaceutica - Drug Research, vol.81, no.1, pp.135-143, 2024 (SCI-Expanded)
- X. **Effect of Usnea longissima ethyl acetate extract on acute oxidative and inflammatory lung damage from Staphylococcus aureus infection in rats.**  
DABANLIOĞLU B., SÜLEYMAN B., MAMMADOV R., YAVUZER B., AKYÜZ S., AKKAŞ Ö., MOKHTARE B., TURUMTAY E. A., ALTUNER D., Abdulkadir Coban T., et al.  
Journal of applied biomedicine, vol.21, no.4, pp.200-207, 2023 (SCI-Expanded)
- XI. **Effects of taxifolin on aspirin-induced gastric damage in rats: macroscopic and biochemical evaluation.**  
Cerrah S., Akbas N., ÖZÇİÇEK F., MAMMADOV R., ALTUNER D., SÜLEYMAN H., Bulut S.  
Experimental animals, vol.72, no.4, pp.513-519, 2023 (SCI-Expanded)
- XII. **Effect of pycnogenol on ischemia/reperfusion-induced oxidative and inflammatory damage in the ovaries of rats**  
Dinc K., Kiremitli S., SÜLEYMAN B., MAMMADOV R., YAVUZER B., Bulut S., YAZICI G. N., ÇOBAN T. A., ALTUNER D., SÜLEYMAN H.  
Tropical Journal of Pharmaceutical Research, vol.22, no.11, pp.2297-2303, 2023 (SCI-Expanded)
- XIII. **The Role of Adrenaline, Noradrenaline, and Cortisol in the Pathogenesis of the Analgesic Potency, Duration, and Neurotoxic Effect of Meperidine**  
Yilmaz M., SÜLEYMAN B., MAMMADOV R., ALTUNER D., Bulut S., SÜLEYMAN H.  
Medicina (Lithuania), vol.59, no.10, 2023 (SCI-Expanded)

- XIV. **Comparative Evaluation of Ovarian Ischemia-Reperfusion Induced Distant Organ Damage in Rats**  
Bicer S., Suleyman B., Mammadov R., Yavuzer B., Altuner D., Gursul C., Coban T. A., Coskun R., Suleyman H.  
INTERNATIONAL JOURNAL OF PHARMACOLOGY, vol.19, no.4, pp.455-465, 2023 (SCI-Expanded)
- XV. **Effect of Taxifolin on Lung Injury Induced by Staphylococcus aureus in Albino Wistar-Type Rats: A Biochemical and Histopathological Evaluation**  
DABANLIOĞLU B., SÜLEYMAN B., MAMMADOV R., YAVUZER B., ALTUNER D., AKKAŞ Ö., MOKHTARE B., ÇOBAN T. A., SÜLEYMAN H.  
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- XVI. **Molecular mechanism of the protective effect of adenosine triphosphate against paracetamol-induced liver toxicity in rats**  
Koç A., Gazi M., Caner Sayar A., Onk D., Ali Arı M., Süleyman B., Gökhan Ağgöl A., Altındağ F., Altuner D., Süleyman H.  
General physiology and biophysics, vol.42, no.2, pp.201-208, 2023 (SCI-Expanded)
- XVII. **The effects of sugammadex on gastric ischemia-reperfusion injury in rats: Biochemical and histopathological evaluation.**  
Koç A., Kuyruklyıldız U., Gazi M., Caner Sayar A., Altuner D., Süleyman H., Yavuzer B., Abdulkadir Çoban T., Süleyman Z., Naz Yazıcı G.  
General physiology and biophysics, vol.42, no.1, pp.67-75, 2023 (SCI-Expanded)
- XVIII. **Protective Effect of Adenosine Triphosphate Against Bevacizumab-Induced Mandibular Bone Damage in Rats**  
YALÇIN E., BAYRAMOĞLU Z., MAMMADOV R., ALTUNER D., Bulut S., Yavuzer B., Mokhtare B., ÇOBAN T. A., SÜLEYMAN H., SÜLEYMAN B.  
Latin American Journal of Pharmacy, vol.42, no.1, pp.98-104, 2023 (SCI-Expanded)
- XIX. **Favipiravir-induced inflammatory and hydropic degenerative liver injury in rats**  
Bilici S., Altuner D., Suleyman Z., Bulut S., Sarigul C., Gulaboglu M., Altindag F., Ozcicek A., Gursul C., Suleyman H.  
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- XX. **Carvacrol prevents acrylamide-induced oxidative and inflammatory liver damage and dysfunction in rats**  
Cerrah S., ÖZÇİÇEK F., GÜNDOĞDU B., ÇİÇEK B., ÇOBAN T. A., SÜLEYMAN B., ALTUNER D., Bulut S., SÜLEYMAN H.  
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- XXI. **Effect of anakinra, tocilizumab, and the combination thereof on bladder ischemia-reperfusion damage in albino Wistar-type rats Efecto de la anakinra, el tocilizumab y la combinación de ambos sobre el daño por isquemia-reperfusión vesical en ratas albinas tipo Wistar**  
BİÇER Ş., SÜLEYMAN B., MAMMADOV R., Yavuzer B., ÇİÇEK B., ALTUNER D., ÇOBAN T. A., SÜLEYMAN H.  
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- XXII. **Effect of Ketorolac and Nimesulide Combination on Surgical Pain, Stomach and Kidneys**  
IŞIK B., SÜLEYMAN B., MAMMADOV R., Bulut S., Yavuzer B., ALTUNER D., GÜLABOĞLU M., SÜLEYMAN H.  
Latin American Journal of Pharmacy, vol.42, no.1, pp.36-45, 2023 (SCI-Expanded)
- XXIII. **The Effect of Adenosine Triphosphate, Benidipine, Sugammadex, and their Combinations upon Cardiac Damage after Temporary Clamping of the Abdominal Aorta in Rats**  
EMİR İ., ALTUNER D., GÜLABOĞLU M., ÇOBAN T. A., SÜLEYMAN B., MAMMADOV R., ÖZKARACA M., SÜLEYMAN Z., ÖLMEZTÜRK KARAKURT T. C., SÜLEYMAN H.  
ACTA FARMACEUTICA BONAERENSE, vol.41, no.8, pp.1656-1665, 2022 (SCI-Expanded)
- XXIV. **Molecular Mechanism and Pathogenesis-Oriented Treatment of Antipsychotic Drug-Induced Infertility in Female Rats**  
Ozyurt R., Süleyman H., Dinç K., Yıldız S., Çoban T. A., Bulut S., Süleyman Z., Altuner D., Keskin D. D., Keskin S., et al.  
ACTA FARMACEUTICA BONAERENSE, vol.41, no.10, pp.2027-2033, 2022 (SCI-Expanded)
- XXV. **Effect of Thymoquinone on Everolimus-Induced Oral Toxicity in Rats. A Macroscopic and Biochemical Evaluation**  
Dilber M., Salcan İ., Süleyman B., Mammadov R., Altuner D., Ağgöl A. G., Esen M., Bulut S., Süleyman Z., Yavuzer B., et al.  
ACTA FARMACEUTICA BONAERENSE, vol.41, pp.1711-1717, 2022 (SCI-Expanded)

- XXVI. **Molecular Mechanism and Pathogenesis-Oriented Treatment of Antipsychotic Drug-Induced Infertility in Female Rats**  
Ozyurt R., SÜLEYMAN H., Dinc K., Yildiz S., ÇOBAN T. A., BULUT S., SÜLEYMAN Z., ALTUNER D., Keskin D. D., Keskin S., et al.  
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- XXVII. **The effects of taxifolin on neuropathy related with hyperglycemia and neuropathic pain in rats: A biochemical and histopathological evaluation**  
Alay M., Sonmez M. G., Sakin A., Atmaca M., SÜLEYMAN H., YAZICI G. N., Coban A., SÜLEYMAN B., Bulut S., ALTUNER D.  
Advances in Clinical and Experimental Medicine, vol.31, no.4, 2022 (SCI-Expanded)
- XXVIII. **Effect of Rhodiola rosea Root Extract on Stress-Induced Gastric Ulcer in Rats**  
IŞIK B., ALTUNER D., ÖZÇİÇEK F., EZMECİ T., AĞGÜL A. G., SÜLEYMAN B., BULUT S., SÜLEYMAN Z., YAVUZER B., SÜLEYMAN H.  
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- XXIX. **Effect of Thymoquinone on Everolimus-Induced Oral Toxicity in Rats. A Macroscopic and Biochemical Evaluation**  
Dilber M., SALCAN İ., SÜLEYMAN B., MAMMADOV R., ALTUNER D., Aggul A. G., Esen M., BULUT S., SÜLEYMAN Z., YAVUZER B., et al.  
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- XXX. **Effect of Taxifolin on Ischemia/Reperfusion-Induced Oxidative Injury of Sciatic Nerve in Rats**  
Yuceli S., SÜLEYMAN B., YAZICI G. N., MAMMADOV R., ÇANKAYA M., Kunak C. S., Bulut S., SÜLEYMAN H., ALTUNER D.  
Transplantation Proceedings, vol.53, no.10, pp.3087-3092, 2021 (SCI-Expanded)
- XXXI. **Effect of adenosine triphosphate, benidipine and their combinations on bevacizumab-induced kidney damage in rats**  
Kocaturk H., Bedir F., Turangezli Ö., ARSLAN R., ÇOBAN T. A., ALTUNER D., SÜLEYMAN H.  
Advances in Clinical and Experimental Medicine, vol.30, no.11, 2021 (SCI-Expanded)
- XXXII. **Protective effect of taxifolin against prooxidant and proinflammatory kidney damage associated with acrylamide in rats**  
Bedir F., Kocaturk H., YAPANOĞLU T., GÜRSUL C., ARSLAN R., MAMMADOV R., Coban A., ALTUNER D., SÜLEYMAN H.  
BIOMEDICINE & PHARMACOTHERAPY, vol.139, 2021 (SCI-Expanded)
- XXXIII. **Effect of Rutin on Methotrexate-Induced Oxidative Lung Injury in Rats: a Biochemical and Histopathological Evaluation**  
Ünver E., Ölmez H., Tosun M., Özbek Bilgin A., Özçiçek A., Aktaş M., Keskin Çimen F., Altuner D., Süleyman H.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.40, no.9, pp.2260-2266, 2021 (SCI-Expanded)
- XXXIV. **The investigation of the protective effects of nimesulide on experimental testicular ischemia-reperfusion injury in rats La investigación de los efectos protectores de nimesulida en la lesión de isquemia y reperfusión testicular experimental en ratas**  
POLAT E. C., Bozkurt A. S., KESKİN ÇİMEN F., GÜLABOĞLU M., ALTUNER D.  
Revista Internacional de Andrologia, vol.18, no.2, pp.55-62, 2020 (SCI-Expanded)
- XXXV. **The Protective Effect of Lercanidipine on Indomethacin-Induced Gastric Ulcers in Rats**  
ALTUNER D., Kaya T., SÜLEYMAN H.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.63, 2020 (SCI-Expanded)
- XXXVI. **Effect of Hippophae rhamnoides extract on Cisplatin-induced ototoxicity in Guinea Pigs**  
ERHAN E., MAMMADOV R., ALTUNER D., Çimen F., KURT N., HACIMÜFTÜOĞLU F., TURAN F., TERZİ S., ÇELİKER M., SÜLEYMAN H.  
INDIAN JOURNAL OF ANIMAL RESEARCH, vol.53, no.10, pp.1361-1366, 2019 (SCI-Expanded)
- XXXVII. **THE EFFECT OF TAXIFOLIN ON CISPLATIN INDUCED OXIDATIVE COCHLEAR DAMAGE IN RATS: BIOCHEMICAL AND HISTOPATHOLOGICAL EXAMINATION**  
ERHAN E., Bayram R., KESKİN ÇİMEN F., ALTUNER D., SEÇKİN E., Kurt N., Suleyman H.  
ACTA POLONIAE PHARMACEUTICA, vol.76, no.5, pp.895-900, 2019 (SCI-Expanded)

- XXXVIII. **Effect of taxifolin on methanol-induced oxidative and inflammatory optic nerve damage in rats**  
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CUTANEOUS AND OCULAR TOXICOLOGY, vol.38, no.4, pp.384-389, 2019 (SCI-Expanded)
- XXXIX. **The Effect of Rutin on Cisplatin-Induced Oxidative Vestibular Nerve Damage in Rats**  
Erhan E., Mammadov R., O. Bilgin A., Kunak C. S., Çankaya M., K.Çimen F., Altuner D.  
Latin American Journal Of Pharmacy, vol.38, no.6, pp.1259-1264, 2019 (SCI-Expanded)
- XL. **Effect of taxifolin on development of retinopathy in alloxan-induced diabetic rats**  
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- XLI. **Effect of ethyl acetate extract of usnea longissima on esophagogastric adenocarcinoma in rats**  
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ACTA CIRURGICA BRASILEIRA, vol.34, no.3, 2019 (SCI-Expanded)
- XLII. **The effect of Hippophae rhamnoides extract on ischemia reperfusion-induced brain injury in rats**  
Ozbek Bilgin A., ALTUNER D., ÇANKAYA M., ÇAKIR T., MAMMADOV R., Bilgin Y., SÜLEYMAN H.  
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- XLIII. **The effect of anakinra to nephrotoxicity with cisplatin induced in rats: Biochemical, gene expression and histopathological evaluation**  
ÖZÇİÇEK A., ÖZÇİÇEK F., Cimen F. K., MAMMADOV R., ÇANKAYA M., EZMECİ T., ALTUNER D.  
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- XLIV. **The effect of rutin on cisplatin-induced oxidative cardiac damage in rats**  
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- XLV. **The effect of rutin on cisplatin-induced oxidative cardiac damage in rats**  
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- XLVI. **The effect of rutin on cisplatin-induced oxidative cardiac damage in rats.**  
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- XLVII. **The effect of thiamine and its metabolites on peripheral neuropathic pain induced by cisplatin in rats**  
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- XLVIII. **The effects of ketamine and thiopental used alone or in combination on the brain, heart, and bronchial tissues of rats.**  
AHISKALIOĞLU E., AYDIN P., AHISKALIOĞLU A., SULEYMAN B., KUYRUKLUYILDIZ U., KURT N., ALTUNER D., Coskun R., SULEYMAN H.  
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- XLIX. **The effect of metyrosine on oxidative gastric damage induced by ischemia/reperfusion in rats. Biochemical and histopathological evaluation.**  
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- L. **The protective effect of thiamine pyrophosphate against sugar-induced retinal neovascularisation in rats**  
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International Journal for Vitamin and Nutrition Research, vol.88, no.3-4, pp.137-143, 2018 (SCI-Expanded)
- LI. **Gene expression and histopathological evaluation of thiamine pyrophosphate on optic neuropathy**

**induced with ethambutol in rats**

Çinici E., Cetin N., SÜLEYMAN B., ALTUNER D., YARALI O., BALTA H., CALLK I., TÜMKAYA L., SÜLEYMAN H.  
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- LII. **The effect of thiamine pyrophosphate on ethambutol-induced ocular toxicity.**  
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- LIII. **Effect of thiamine pyrophosphate on retinopathy induced by hyperglycemia in rats: A biochemical and pathological evaluation**  
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- LIV. **Can thiamine pyrophosphate prevent desflurane induced hepatotoxicity in rats?**  
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- LV. **Effects of nimesulide on the small intestine mucositis induced by methotrexate in rats**  
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- LVI. **Effects of nimesulide on oxidative mucosal injury induced by cisplatin in rat duodenum and jejunum**  
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- LVII. **The effect of metamizole on ischemia/reperfusion injury in the rat ovary: An analysis of biochemistry, molecular gene expression, and histopathology**  
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- LVIII. **Liv-52; prophylactic or therapeutic agent against desflurane-induced hepatotoxicity in rats**  
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- LIX. **The relation between the effect of a subhypnotic dose of thiopental on claw pain threshold in rats and adrenalin, noradrenalin and dopamine levels**  
AKSOY M., AHISKALIOĞLU A., İNCE İ., ÇELİK M., DOSTBİL A., KUYRUKLUYILDIZ U., ALTUNER D., Kurt N., SÜLEYMAN H.  
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- LX. **Effect of disulfiram on ketamine-induced cardiotoxicity in rats**  
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KUNAK C. S., KUKULA O., GENÇ F., MUTLU E., peker g. g., KUYRUKLUYILDIZ U., BİNİCİ O., ALTUNER D., ALP H. H.  
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- III. **The effects of some cytokine gene polymorphisms on type 2 diabetes and its complications.**  
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- IV. **PERECOXIB' S EFFECT ON OVARY ISCHEMIA REPERFUSION INJURY WHICH CAUSES INFERTILITY IN RATS**  
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25. EUROPEAN OF OBSTETRİCS AND GYNAECOLOGY, Antalya, Turkey, 17 - 21 May 2017
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## Supported Projects

ÇETİN N., SÜLEYMAN B., ALTUNER D., ÇOBAN T. A., KUZUCU M., Project Supported by Higher Education Institutions, Hippophae Rhamnoides Ekstresinin Siçanlarda Metotreksat ve Sisplatinle İndüklenen Mukozite Etkisi, 2015 - 2016  
KUYRUKLUYILDIZ U., ÇANKAYA M., ALTUNER D., ÇETİN N., TAŞKIN KAFA A. H., Project Supported by Higher Education Institutions, Liv52 ve Tiamin Pirofosfatın Siçanlarda Desfluranla İndüklenen Karaciğer Toksisitesine Etkisinin Araştırılması, 2015 - 2016  
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SÜLEYMAN H., ALTUNER D., ÇETİN N., Project Supported by Higher Education Institutions, Tıp Fakültesi Tıbbi Farmakoloji Laboratuvarı Kurulumu Projesi, 2015 - 2016

## Memberships / Tasks in Scientific Organizations



Türk Farmakoloji Derneđi, Member, 2009 - Continues

## **Metrics**

Publication: 91

Citation (WoS): 285

Citation (Scopus): 472

H-Index (WoS): 11

H-Index (Scopus): 14

## **Non Academic Experience**

SAĐLIK BAKANLIĐI