

## Doç. Dr. HANDE CANPINAR

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Temel Onkoloji Anabilim Dalı, Türkiye 1998 - 2003

### Araştırma Alanları

Tıp, Sağlık Bilimleri, Temel Tıp Bilimleri

### Akademik Unvanlar / Görevler

Öğretim Görevlisi Dr., Hacettepe Üniversitesi, Kanser Enstitüsü, Temel Onkoloji Anabilim Dalı, 1989 - Devam Ediyor

### Verdiği Dersler

TİM 601 Temel immünoloji I, Yüksek Lisans, 2017 - 2018

KBİ 601 TEMEL İMMÜNOLOJİ I, Yüksek Lisans, 2017 - 2018, 2016 - 2017

KBİ-721 TEMEL İMMÜNOLOJİ I, Doktora, 2017 - 2018, 2016 - 2017

### Yönetilen Tezler

CANPINAR H., Expression of toll like receptors in lung cancer and investigating their effect on apoptosis, Yüksek Lisans, H.AINESAZ(Öğrenci), 2014

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Exploring the combined anti-cancer effects of sodium butyrate and celastrol in glioblastoma cell lines: a novel therapeutic approach**

Kartal B., Denizler-Ebiri F. N., Güven M., Taşpınar F., CANPINAR H., Çetin S., Karaduman T., Küçüktürk S., Castresana J., Taşpınar M.

Medical Oncology, cilt.41, sa.5, 2024 (SCI-Expanded)

II. **Pitavastatin induces caspase-mediated apoptotic death through oxidative stress and DNA damage in combined with cisplatin in human cervical cancer cell line**

Haciseyitoğlu A. Ö., DOĞAN T., Dilsiz S., CANPINAR H., EKEN A., Bucurgat Ü. Ü.

Journal of Applied Toxicology, cilt.44, sa.4, ss.623-640, 2024 (SCI-Expanded)

- III. **Radiosensitising Effects of Metformin Added to Concomitant Chemoradiotherapy with Cisplatin in Cervical Cancer**  
Beduk Esen C., Gedik M., CANPINAR H., YEDEKÇİ F. Y., YILDIZ F. B., GÜNAYDIN G., GÜLTEKİN M.  
Clinical Oncology, cilt.35, sa.11, ss.744-755, 2023 (SCI-Expanded)
- IV. **A new nanosuspension prepared with wet milling method for oral delivery of highly variable drug Cyclosporine A: development, optimization and in vivo evaluation**  
Pinar S. G., CANPINAR H., TAN Ç., Celebi N.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.171, 2022 (SCI-Expanded)
- V. **Ritonavir nanosuspensions prepared by microfluidization with enhanced solubility and desirable immunological properties**  
Karakucuk A., CANPINAR H., Celebi N.  
Pharmaceutical Development and Technology, cilt.27, sa.10, ss.1027-1037, 2022 (SCI-Expanded)
- VI. **Serum galectin-3 level as a marker of thrombogenicity in atrial fibrillation**  
Kocyigit D., Gurses K. M., Yalcin M. U., CANPINAR H., CANPOLAT U., EVRANOS B., YORGUN H., ÖZER N., GUC D., AYTEMİR K.  
JOURNAL OF CLINICAL LABORATORY ANALYSIS, cilt.31, sa.6, 2017 (SCI-Expanded)
- VII. **Monocyte Toll-Like Receptor Expression in Patients With Atrial Fibrillation**  
Gurses K. M., KOÇYİĞİT D., Yalcin M. U., CANPINAR H., YORGUN H., ŞAHİNER M. L., Kaya E. B., OTO M. A., ÖZER N., GÜÇ D., et al.  
AMERICAN JOURNAL OF CARDIOLOGY, cilt.117, sa.9, ss.1463-1467, 2016 (SCI-Expanded)
- VIII. **Enhanced Platelet Toll-like Receptor 2 and 4 Expression in Acute Coronary Syndrome and Stable Angina Pectoris**  
Gurses K. M., KOÇYİĞİT D., Yalcin M. U., CANPINAR H., OTO M. A., ÖZER N., Tokgozoglu L., GÜÇ D., AYTEMİR K.  
AMERICAN JOURNAL OF CARDIOLOGY, cilt.116, sa.11, ss.1666-1671, 2015 (SCI-Expanded)
- IX. **Effects of Persistent Atrial Fibrillation on Serum Galectin-3 Levels**  
GÜRSES K. M., YALÇIN M. U., KOÇYİĞİT D., CANPINAR H., EVRANOS B., YORGUN H., ŞAHİNER M. L., KAYA E. B., ÖZER N., Tokgozoglu L., et al.  
AMERICAN JOURNAL OF CARDIOLOGY, cilt.115, sa.5, ss.647-651, 2015 (SCI-Expanded)
- X. **Serum Galectin-3 Level Predicts the Extent of Left Atrial Fibrosis in Lone Atrial Fibrillation Patients**  
Gurses K. M., Yalcin M. U., Kocyigit D., Canpinar H., Canpolat U., Evranos B., Yorgun H., Sahiner M. L., Kaya E. B., Guc D., et al.  
CIRCULATION, cilt.130, 2014 (SCI-Expanded)
- XI. **Chemotherapeutic resistance in anaplastic astrocytoma cell lines treated with a temozolomide-lomeguatrib combination**  
UĞUR H. Ç., Taşpınar M., Ilgaz S., Sert F., CANPINAR H., Rey J. A., Castresana J. S., SUNGUROĞLU A.  
MOLECULAR BIOLOGY REPORTS, cilt.41, sa.2, ss.697-703, 2014 (SCI-Expanded)
- XII. **Effects of gamma irradiation on cell cycle, apoptosis and telomerase activity in p53 wild-type and deficient HCT116 colon cancer cell lines.**  
Halacli S., Canpinar H., Cimen E., Sunguroglu A.  
Oncology letters, cilt.6, ss.807-810, 2013 (SCI-Expanded)
- XIII. **Effect of lomeguatrib-temozolomide combination on MGMT promoter methylation and expression in primary glioblastoma tumor cells**  
Taspınar M., Ilgaz S., Ozdemir M., Ozkan T., ÖZTUNA D., CANPINAR H., Rey J. A., SUNGUROĞLU A., Castresana J. S., UĞUR H. Ç.  
TUMOR BIOLOGY, cilt.34, sa.3, ss.1935-1947, 2013 (SCI-Expanded)
- XIV. **Does N-Acetyl Cysteine Protect Against Apoptosis in HL60 Cell Line?**  
AKSOY Y., Kesik K., CANPINAR H.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, cilt.35, sa.4, ss.333-339, 2010 (SCI-Expanded)
- XV. **Effects of autologous and homologous blood transfusion on TNF-alpha levels and survival in an**

**intraabdominal infection model**

KILIÇ Y. A., CANPINAR H., GÜÇ D., Sayek I.

ULUSAL TRAVMA VE ACIL CERRAHI DERGISI-TURKISH JOURNAL OF TRAUMA & EMERGENCY SURGERY, cilt.15, sa.4, ss.324-329, 2009 (SCI-Expanded)

- XVI. **Soluble trail and BAFF levels in multiple sclerosis during interferon-beta therapy**  
Kurue A., Aydin O. F., Guec D., Sayat G., Canpinar H., Yoeruebulut M., KARABUDAK R.  
JOURNAL OF NEUROIMMUNOLOGY, cilt.203, sa.2, ss.137-138, 2008 (SCI-Expanded)
- XVII. **Over-expression of angiotensin-converting enzyme (CD 143) on leukemic blasts as a clue for the activated local bone marrow RAS in AML**  
Aksu S., Beyazit Y., Haznedaroglu I. C., Canpinar H., Kekilli M., ÜNER A., Sayinalp N., Bueyuekasik Y., Goker H., Ozcebe O. I.  
LEUKEMIA & LYMPHOMA, cilt.47, sa.5, ss.891-896, 2006 (SCI-Expanded)
- XVIII. **Enhanced expression of the local haematopoietic bone marrow renin-angiotensin system in polycythemia Rubra vera**  
Aksu S., Beyazit Y., Haznedaroglu I., Kekilli M., Canpinar H., Misirlioglu M., ÜNER A., Tuncer S., Sayinalp N., Buyukasik Y., et al.  
JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, cilt.33, sa.6, ss.661-667, 2005 (SCI-Expanded)
- XIX. **Water-soluble green perylene diimide (PDI) dyes as potential sensitizers for photodynamic therapy**  
Yukruk F., Dogan A., Canpinar H., Guc D., Akkaya E.  
ORGANIC LETTERS, cilt.7, sa.14, ss.2885-2887, 2005 (SCI-Expanded)
- XX. **Effects of prophylactic thyroid hormone replacement in euthyroid Hashimoto's thyroiditis**  
Aksoy D., Kerimoglu U., Okur H., Canpinar H., Karaagaoglu E., Yetgin S., Kansu E., Gedik O.  
ENDOCRINE JOURNAL, cilt.52, sa.3, ss.337-343, 2005 (SCI-Expanded)
- XXI. **Cerebrospinal fluid soluble CD27 levels in children with non-Hodgkin lymphomas**  
Yalcin B., Canpinar H., Kutluk M., Varan A., Akyuz C., Buyukpamukcu M.  
PEDIATRIC HEMATOLOGY AND ONCOLOGY, cilt.21, sa.8, ss.717-723, 2004 (SCI-Expanded)
- XXII. **A randomized trial of continuous infusion versus bolus mitoxantrone in combination with cytarabine in newly diagnosed patients with acute myeloblastic leukemia**  
Koc Y., Oyan B., Kars A., Tekuzman G., Canpinar H., Kansu E.  
HEMATOLOGICAL ONCOLOGY, cilt.22, sa.2, ss.43-53, 2004 (SCI-Expanded)
- XXIII. **Effect of fludarabine on leukocyte functions**  
Dogan A., Dogan A., Canpinar H., Duzguncinar O., Demirpence E.  
CHEMOTHERAPY, cilt.50, sa.6, ss.283-288, 2004 (SCI-Expanded)
- XXIV. **Myeloprotective effect of short term prechemotherapy recombinant granulocyte-macrophage colony stimulating factor**  
Akyuz C., Caglar K., Varan A., Koseoglu V., Canpinar H., Kutluk T., Buyukpamukcu M.  
MEDICAL AND PEDIATRIC ONCOLOGY, cilt.38, sa.1, ss.67-69, 2002 (SCI-Expanded)
- XXV. **Correlation of flow cytometric parameters and transferrin receptors with gallium-67 scintigraphic images in lymphoma patients**  
Kiratli P., Canpinar H., Ruacan S., Kansu E.  
NUCLEAR MEDICINE COMMUNICATIONS, cilt.21, sa.10, ss.925-931, 2000 (SCI-Expanded)
- XXVI. **The effect of angiotensin-converting enzyme inhibitors on adhesion molecules and cytokines in congestive heart failure**  
Sade E., Canpinar H., Yildirim A., Oto A., Kansu E., Guc D., Tokgozoglu L.  
EUROPEAN HEART JOURNAL, cilt.21, ss.661, 2000 (SCI-Expanded)
- XXVII. **Gastric lymphomas in Turkey - Analysis of prognostic factors with special emphasis on flow cytometric DNA content**  
Aydin Z., Barista I., Canpinar H., Sungur A., Tekuzman G.  
CANCER, cilt.89, sa.1, ss.12-20, 2000 (SCI-Expanded)
- XXVIII. **DNA content and proliferative activity in children with neuroblastoma**  
Yalcin B., Kutluk T., Kansu E., Gogus S., Canpinar H., Akyuz C., Buyukpamukcu M.

PEDIATRIC HEMATOLOGY AND ONCOLOGY, cilt.17, sa.1, ss.45-54, 2000 (SCI-Expanded)

**XXIX. Expression of complement regulatory proteins CR1, DAF, MCP and CD59 in haematological malignancies**

Guc D., Canpinar H., Kucukaksu C., Kansu E.

EUROPEAN JOURNAL OF HAEMATOLOGY, cilt.64, sa.1, ss.3-9, 2000 (SCI-Expanded)

**XXX. P-glycoprotein expression by technetium-99m-MIBI scintigraphy in hematologic malignancy**

Kostakoglu L., Guc D., Canpinar H., Kars A., Alper E., Kiratli P., Hayran M., Gunduz U., Kansu E.

JOURNAL OF NUCLEAR MEDICINE, cilt.39, sa.7, ss.1191-1197, 1998 (SCI-Expanded)

**XXXI. Correlation of the findings of Tl-201 and tc-99m-sestamibi (MIBI) SPECT with proliferative index and DNA ploidy in patients with astrocytic tumors.**

Elahi N., Kostakoglu L., Canpinar H., Uzal D., Hayran M., Nabaie M., Bekdik C., Kansu E.

JOURNAL OF NUCLEAR MEDICINE, cilt.38, sa.5, ss.1008, 1997 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

**I. Genistein Enhances TRAIL-Mediated Apoptosis Through the Inhibition of XIAP and DcR1 in Colon Carcinoma Cells Treated with 5-Fluorouracil**

Dogan T. C., AYDIN DİLSİZ S., CANPINAR H., ÜNDEĞER BUCURGAT Ü.

TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, sa.1, ss.7-24, 2024 (ESCI)

**II. Serum galectin-3 level predicts early recurrence following successful direct-current cardioversion in persistent atrial fibrillation patients.**

Gürses K., Yalçın M., Koçyiğit D., Canpinar H., Ateş A., Canpolat U., Yorgun H., Güç D., Aytemir K.

Turk Kardiyoloji Dernegi arsivi : Turk Kardiyoloji Derneginin yayin organidir, cilt.47, ss.564-571, 2019 (ESCI)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**I. Role of the Radiosensitizing Effect of Metformin Added to Concomitant Chemoradiotherapy with Cisplatin in Cervical Squamous Cell Cancer Cell Lines**

ESEN Ç. S. B., GEDİK M. E., GÜNAYDIN G., CANPINAR H., YEDEKÇİ F. Y., YILDIZ F., GÜLTEKİN M.

ASTRO Annual 2022 Meeting, Amerika Birleşik Devletleri, 23 - 26 Ekim 2022, cilt.114

**II. Vitamin D replacement ameliorates serum lipoprotein functions, adipokine profile and subclinical atherosclerosis in premenopausal women**

KOÇYIĞİT D., GRECO D., ADORNI M. P., MARCHI C., RONDA N., BERNINI F., GÜRSES K. M., CANPINAR H., OĞUZ S. H., GÜÇ D., et al.

American Heart Association Scientific Sessions 2017, 11 - 15 Kasım 2017, cilt.136, ss.12124

**III. Gut microbiota play a role in calcific aortic valve stenosis**

KOÇYIĞİT D., GÜRSES K. M., STAHLMAN M., BOREN J., SOYAL M. F. T., CANPINAR H., GÜÇ D., AYHAN E. A., HAZIROLAN T., AYTEMİR K., et al.

American Heart Association Scientific Sessions 2017, 11 - 15 Kasım 2017, cilt.136, ss.12134

**IV. Dual effects of chlorophylline on breast cancer cell proliferation in vivo and in vitro**

ÖZCAN M., Musad Y., ESENDAĞLI G., CANPINAR H., AKSOY Y.

42nd Congress of the Federation-of-European-Biochemical-Societies (FEBS) on From Molecules to Cells and Back, Jerusalem, İsrail, 10 - 14 Eylül 2017, cilt.284, ss.259

**V. Serum Galectin 3 Levels Are Associated With Epicardial Adipose Tissue Thickness in Atrial Fibrillation Patients**

Gürses K. M., YALÇIN M. U., KOÇYIĞİT D., EVRANOS B., ŞAHİNER M. L., KAYA E. B., CANPINAR H., GÜÇ D., ÖZER N., AYTEMİR K.

12. Uluslararası Kardiyoloji ve Kardiyovasküler Cerrahide Yenilikler Kongresi, 10 - 13 Mart 2016

**VI. Enhanced Peripheral Monocyte Toll Like Receptor Expression in Persistent Atrial Fibrillation**

## Patients

Gürses K. M., YALÇIN M. U., KOÇYIĞİT D., EVRANOS B., ŞAHİNER M. L., KAYA E. B., CANPINAR H., GÜÇ D., ÖZER N., AYTEMİR K.

12. Uluslararası Kardiyoloji ve Kardiyovasküler Cerrahide Yenilikler Kongresi, 10 - 13 Mart 2016

VII. **OP 136 Relationship Between Serum Anti M2 muscarinic Receptor Levels and Atrial Electromechanical Delay in Patients Diagnosed with Paroxysmal Atrial Fibrillation**

Yalcin M. U., Gurses K. M., Kocyyigit D., CANPOLAT U., Canpinar H., EVRANOS B., YORGUN H., ŞAHİNER M. L., KAYA E. B., Oto M. A., et al.

11th International Congress of Update in Cardiology and Cardiovascular Surgery — March 26-29, 2015, 26 - 29 Mart 2015

VIII. **OP 135 Relationship Between Serum Galectin 3 Levels and Atrial Electromechanical Delay in Patients with Paroxysmal Atrial Fibrillation**

YALÇIN M. U., KADRİ MURAT G., KOÇYIĞİT D., CANPOLAT U., CANPINAR H., EVRANOS B., YORGUN H., ŞAHİNER M. L., KAYA E. B., OTO A., et al.

11th International Congress of Update in Cardiology and Cardiovascular Surgery — March 26-29, 2015, 26 - 29 Mart 2015, cilt.26, ss.635-640

IX. **Relationship Between Serum Anti M2 muscarinic Receptor Levels and Atrial Electromechanical Delay in Patients Diagnosed with Paroxysmal Atrial Fibrillation**

Yalçın M., Gürses K., KOÇYIĞİT D., CANPOLAT U., CANPINAR H., EVRANOS B., YORGUN H., ŞAHİNER M. L., KAYA E. B., Oto M., et al.

11th International Congress of Update in Cardiology and Cardiovascular Surgery — March 26-29, 2015, 26 - 29 Mart 2015

X. **Relationship Between Serum Galectin 3 Levels and Atrial Electromechanical Delay in Patients with Paroxysmal Atrial Fibrillation**

Yalçın M., Gürses K., KOÇYIĞİT D., CANPOLAT U., CANPINAR H., EVRANOS B., YORGUN H., ŞAHİNER M. L., KAYA E. B., Oto M., et al.

11th International Congress of Update in Cardiology and Cardiovascular Surgery — March 26-29, 2015, 26 - 29 Mart 2015

XI. **SERUM GALECTIN-3 LEVEL PREDICTS RECURRENCE FOLLOWING SUCCESSFUL ELECTRICAL CARDIOVERSION IN PERSISTENT ATRIAL FIBRILLATION PATIENTS**

Gurses K., Yalcin M., Kocyyigit D., Canpinar H., Evranos B., Yorgun H., Sahiner L., Kaya E. B., Kabakci G., Tokgozoglu L., et al.

Scientific Session of the American-College-of-Cardiology (ACC), California, Amerika Birleşik Devletleri, 14 - 16 Mart 2015, cilt.65

XII. **Synthesis and biological evaluation of tetrahydrocarbazole derivative compounds as human glutathione s transferase p1 1 inhibitors and docking studies**

özcan m., CEYHAN D., UZGÖREN BARAN A., sarıgöl d., CANPINAR H., BÜBER E., AKSOY Y.

XVIII Congress of the Portuguese Biochemical Society, Coimbra, Portekiz, 17 - 20 Aralık 2014

XIII. **Abstract 15474: Serum Galectin-3 Level Predicts the Extent of Left Atrial Fibrosis in Lone Atrial Fibrillation Patients**

GÜRSES K. M., YALÇIN M. U., KOÇYIĞİT D., CANPINAR H., CANPOLAT U., EVRANOS B., YORGUN H., ŞAHİNER M. L., KAYA E. B., GÜÇ D., et al.

American Heart Association Congress 2014, Chicago, Illinois, Amerika Birleşik Devletleri, 15 - 19 Kasım 2014, cilt.130, ss.15474

XIV. **Hydrazone derivative compounds as a substrate for human glutathione transferase P1 1 kinetics docking and cell culture analysis**

CEYHAN D., Özcan m., SARIGÖL D., UZGÖREN BARAN A., CANPINAR H., BÜBER E., AKSOY Y.

2nd International BAU-Drug Design Symposium, İstanbul, Türkiye, 17 - 19 Nisan 2014

XV. **TRAIL and BAFF serial serum levels during interferon beta therapy in MS patients**

Kurue A., CANPINAR H., Aydın O. F., Sayat G., Yoeruebulut M., Guec D., KARABUDAK R.

13th Annual Meeting of the Amer-Comm-for-Treatment-and-Res-in-Multiple-Sclerosis/24th Congress of the

European-Comm-for-Treatment-and-Res-in-Multiple-Sclerosis/5th Congress of the Latin-Amer-Comm-for-Treatment-and-Res-in-Multiple-Sclerosis, Montreal, Kanada, 17 - 20 Eylül 2008, cilt.14

**XVI. The role of glutathione depletion on apoptotic signal forming in HL-60 cell lines**

Aksoy Y., Kesik K., Canpinar H., Guc D.

30th Congress of the Federation-of-European-Biochemical-Societies (FEBS)/9th IUBMB Conference, Budapest, Macaristan, 2 - 07 Temmuz 2005, cilt.272, ss.26

**XVII. Cell adhesion-mediated drug resistance phenotype in HL60 cell line.**

Canpinar H., Guc D., Kansu E.

45th Annual Meeting of the American-Society-of-Hematology, SAN DIEGO, CALIFORNIA, 6 - 09 Aralık 2003, cilt.102

## Desteklenen Projeler

ÜNDEĞER BUCURGAT Ü., AYDIN DİLSİZ S., CANPINAR H., ÇAL T., ÖKÇESİZ A., Yükseköğretim Kurumları Destekli Proje, PİTAVASTATİNİN OLASI APOPTOTİK ANTİOKSİDAN VE GENOTOKSİK ETKİLERİNİN İNSAN SERVİKS KANSER HÜCRE HATTINDA HELA DEĞERLENDİRİLMESİ, 2019 - 2020

CANPINAR H., Ahmadzadeh B., Gök B., Yükseköğretim Kurumları Destekli Proje, TLR Agonistleri ile Aktive Olan Akciğer Kanseri Hücre Kültür Süpernatantlarının Makrofaj Polarizasyonuna Etkisinin Araştırılması, 2017 - 2018

ÜNDEĞER BUCURGAT Ü., AYDIN S., CANPINAR H., SARIAYDIN T., Yükseköğretim Kurumları Destekli Proje, METFORMİNİN SİTOTOKSİK APOPTOTİK VE GENOTOKSİK ETKİLERİNİN İN VİTRO DEĞERLENDİRİLMESİ, 2017 - 2018

CANPINAR H., GÜÇ D., KOÇYİĞİT D., ZİMETTİ F., ZANOTTİ I., Yükseköğretim Kurumları Destekli Proje, Kalsifik Aort Kapak Darlığı Patogenezinde Barsak Mikrobiyotasının Rolünün Araştırılması, 2017 - 2017

CANPINAR H., TÜBİTAK Projesi, HIV Proteaz İnhibitörü Ritonavirin Yeni Nanosüspansiyon Formülasyonunun Geliştirilmesi ve in vitro in vivo Değerlendirilmesi, 2015 - 2017

KAYA E. B., KOÇYİĞİT D., GÜRSES K. M., EVRANOS B., ŞAHİNER M. L., GÜÇ D., CANPINAR H., Yükseköğretim Kurumları Destekli Proje, STABİL KORONER ARTER HASTALIĞINDA KORONER KOLLATERAL GELİŞİMİ VE PROGNOZDA ANGIOGENİN VE OSTEOPONTİNİN ROLÜ, 2015 - 2017

CANPINAR H., Yükseköğretim Kurumları Destekli Proje, Akciğer Kanseri Hücrelerinde Toll Like Reseptörlerin Ekspresyonu ve Apoptoze olan etkisinin araştırılması, 2013 - 2015

## Metrikler

Yayın: 77

Atıf (WoS): 800

Atıf (Scopus): 876

H-İndeks (WoS): 15

H-İndeks (Scopus): 16

## Akademi Dışı Deneyim

Hacettepe Üniversitesi Onkoloji Enstitüsü

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