

## Prof. KADİR TURAN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Istanbul University, Institute Of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey 1991 - 1997

Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey 1989 - 1991

Undergraduate, Istanbul University, Faculty Of Science, Department Of Biology, Turkey 1983 - 1987

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Basic Pharmaceutics Sciences, Biotechnology, Molecular Biology and Genetics, Health Sciences, Natural Sciences

### Academic Titles / Tasks

Professor, Marmara University, Faculty of Pharmacy, Basic Pharmaceutical Sciences, 2014 - Continues

Associate Professor, Marmara University, Faculty of Pharmacy, Basic Pharmaceutical Sciences, 2008 - 2014

Assistant Professor, Marmara University, Faculty of Pharmacy, Pharmaceutical Technology, 2001 - 2008

Research Assistant, Istanbul University, Faculty Of Science, Department Of Biology, 1988 - 2000

### Academic and Administrative Experience

Fakülte Kurulu Üyesi, Marmara University, Faculty of Pharmacy, Basic Pharmaceutical Sciences, 2019 - Continues

### Supervised Theses

Turan K., İnsan MTCH2 proteininin influenza A virüsü replikasyonuna etkilerinin moleküler düzeyde araştırılması, Postgraduate, P.ULUPINAR(Student), 2022

Turan K., İnfluenza A virüsü yüzey antijen proteini hemaglutininin mikroorganizmalarda çözünür halde üretilmesi, Postgraduate, A.ARZU(Student), 2022

Turan K., İnfluenza A virüsü NS1 proteini ile ilişkilendirilen konak hücre proteinlerinin viral replikasyona etkileri, Doctorate, A.PİRİNÇAL(Student), 2021

Turan K., İnterferon yolağı ile ilişkili hücresel proteinlerin influenza a virüsü konak özgülüğüne etkilerinin araştırılması, Doctorate, E.ÇAĞLAYAN(Student), 2021

Turan K., İnsan SNX2 proteini ile influenza virüsü RNA polimeraz enzimi arasındaki ilişkinin memeli hücrelerinde araştırılması, Postgraduate, T.KOÇMAR(Student), 2020

Turan K., İnsan beta aktin proteini ile influenza virüsü RNA polimeraz enzimi arasındaki ilişkinin araştırılması, Postgraduate, N.GELMEZ(Student), 2019

TURAN K., İnfluenza virüsü nuklear eksport proteini ile nukleopirin proteinleri arasındaki ilişkinin moleküler düzeyde araştırılması, Postgraduate, B.Şenbaş(Student), 2019

Turan K., İnfluenza virüsü nuklear eksport proteini ile nukleopirin proteinleri arasındaki ilişkinin moleküler düzeyde araştırılması, Postgraduate, B.AKYAZI(Student), 2019

Turan K., Haloarcula hispanica'ya ait proteaz enzimlerinin escherichia coli'de rekombinant olarak üretilmesi ve analizi, Postgraduate, A.GÜNEŞ(Student), 2019

TURAN K., Haloarcula hispanica'ya ait proteaz enzimlerinin escherichia coli'de rekombinant olarak üretilmesi ve analizi, Postgraduate, A.Güneş(Student), 2019

Turan K., İnfluenza virüsü yüzey antijen proteinlerinin mikroorganizmalarda rekombinant olarak üretilmesi ve analizi, Postgraduate, Ş.ÖZAYDIN(Student), 2018

Turan K., Ogan A., Halofilik mikroorganizmalara ait lipaz enzimlerinin Escherichia coli'de üretilmesi ve analizi, Postgraduate, A.O.(Student), 2017

Turan K., Mikroorganizmalarda insan proinsülin proteininin üretilmesi ve analizi, Postgraduate, E.HAKKIOĞLU(Student), 2017

Turan K., Thermus aquaticus DNA polimeraz ı enziminin rekombinant DNA teknolojisi ile üretilmesi, saflaştırılması ve analizi, Postgraduate, B.EKEN(Student), 2017

Turan K., HAX-1 geni susturulan hücrelerde influenza virüsü replikasyonunun araştırılması, Postgraduate, H.UĞURLU(Student), 2016

Turan K., Rekombinant olarak üretilecek çözünür halde glukagon reseptör proteininin glukagona olan ilgisinin araştırılması, Postgraduate, Ş.İBİŞOĞLU(Student), 2015

Turan K., DNA metil transferaz enzimlerinin yaşlanma ile ilgili insan klotho geni anlatımı üzerine etkilerinin araştırılması, Postgraduate, E.ÇAĞLAYAN(Student), 2014

Turan K., İnfluenza virüsü ns1 proteini ile ilişkili hücresel faktörlerin maya ikili-hibrid metodu ile saptanması, Postgraduate, A.PİRİNÇAL(Student), 2014

Turan K., Fare Mx2 proteinlerinin influenza virüsü RNA polimeraz enzimine etkilerinin araştırılması, Postgraduate, İ.ERKAN(Student), 2013

TURAN K., Fare mx2 proteininin influenza virüsü rna polimeraz enzimine etkilerinin araştırılması, Postgraduate, İ.Erkan(Student), 2013

TURAN K., DNA'nın arkeozomlarla formülasyonu, in vitro karakterizasyonu ve memeli hücre kültürlerinde taşıyıcı olarak kullanılması, Doctorate, A.ATTAR(Student), 2010

Turan K., Kitozanın viral antijenleri taşıyıcı olarak potansiyelinin in vitro koşullarda değerlendirilmesi, Postgraduate, M.KARAASLAN(Student), 2003

Turan K., Kitozan mikrokürelerden DNA serbestleşmesinin in vitro koşullarda incelenmesi, Postgraduate, T.DAŞTAN(Student), 2003

TURAN K., Kitozan mikrokürelerden DNA serbestleşmesinin in vitro koşullarda incelenmesi., Postgraduate, T.Daştan(Student), 2003

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

1. An in silico prediction of interaction models of influenza A virus PA and human C14orf166 protein from yeast-two-hybrid screening data.  
Çağlayan E., Turan K.

Proteins, vol.91, pp.1235-1244, 2023 (SCI-Expanded)

- II. **Heterologous Expression and Initial In Silico Characterization of a Novel Snakin-Z Peptide**  
Teker T., Albayrak G., Turan K.  
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS, vol.29, no.5, pp.1-11, 2023 (SCI-Expanded)
- III. **Human sorting nexin 2 protein interacts with Influenza A virus PA protein and has a negative regulatory effect on the virus replication.**  
Koçmar T., Çağlayan E., Rayaman E., Nagata K., Turan K.  
Molecular biology reports, vol.49, pp.497-510, 2022 (SCI-Expanded)
- IV. **Expression profiles of interferon-related genes in cells infected with influenza A viruses or transiently transfected with plasmids encoding viral RNA polymerase**  
Caglayan E., TURAN K.  
TURKISH JOURNAL OF BIOLOGY, vol.45, no.1, pp.88-103, 2021 (SCI-Expanded)
- V. **Human DDX56 protein interacts with influenza A virus NS1 protein and stimulates the virus replication**  
Pirincal A., TURAN K.  
GENETICS AND MOLECULAR BIOLOGY, vol.44, no.1, 2021 (SCI-Expanded)
- VI. **Interaction of influenza A virus NS2/NEP protein with the amino-terminal part of Nup214**  
Senbas Akyazi B., Pirincal A., Kawaguchi A., Nagata K., TURAN K.  
TURKISH JOURNAL OF BIOLOGY, vol.44, no.2, pp.82-92, 2020 (SCI-Expanded)
- VII. **Biochemical characterization of avian influenza viral polymerase containing PA or PB2 subunit from human influenza A virus**  
Phu Tran Vinh Pham P. T. V. P., TURAN K., Nagata K., Kawaguchi A.  
MICROBES AND INFECTION, vol.20, no.6, pp.353-359, 2018 (SCI-Expanded)
- VIII. **Nickel(II)-PPh<sub>3</sub> complexes with ONS and ONN chelating thiosemicarbazones: synthesis and inhibition potential on influenza A viruses**  
Guveli S., TURAN K., Ulkuseven B.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.2, pp.371-384, 2018 (SCI-Expanded)
- IX. **The potential of archaeosomes as carriers of pDNA into mammalian cells**  
ATTAR A., OGAN A., Yucel S., TURAN K.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.44, no.2, pp.710-716, 2016 (SCI-Expanded)
- X. **The effects of DNA methyl transferases on antiaging klotho gene expression**  
Caglayan E., TURAN K.  
TURKISH JOURNAL OF BIOLOGY, vol.40, no.4, pp.797-806, 2016 (SCI-Expanded)
- XI. **Full length adiponectin protects platelet from activation and apoptosis**  
ŞENER A., ALTINDIŞ N. G., DOĞAN Ö., ÇEVİK Ö., ÖZSAVCI D., AKSOY H. Z., TURAN K.  
FEBS Journal, vol.282, pp.120, 2015 (SCI-Expanded)
- XII. **Effects of intra- and extracellular factors on anti-aging klotho gene expression**  
Turan K., Ata P.  
GENETICS AND MOLECULAR RESEARCH, vol.10, pp.2009-2023, 2011 (SCI-Expanded)
- XIII. **Dermatologic Findings in Renal Transplant Recipients: Possible Effects of Immunosuppression Regimen and p53 Mutations**  
Serdar Z. A., Eren P., Canbakan M., Turan K., Tellioglu G., Gulle S., Ozgezer T., Kara M., Berber I., Titz M. I.  
TRANSPLANTATION PROCEEDINGS, vol.42, no.7, pp.2538-2541, 2010 (SCI-Expanded)
- XIV. **The clinical significance of parathyroid tissue calcium sensing receptor gene polymorphisms and expression levels in end-stage renal disease patients**  
ATA EREN P., TURAN K., BERBER İ., CANBAKAN M.  
CLINICAL NEPHROLOGY, vol.72, no.2, pp.114-121, 2009 (SCI-Expanded)
- XV. **Chitosan-DNA nanoparticles: The effect of cell type and hydrolysis of chitosan on in vitro DNA transfection**  
TURAN K., Nagata K.

PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.11, no.4, pp.503-512, 2006 (SCI-Expanded)

- XVI. **In vitro characterization and delivery of chitosan-DNA microparticles into mammalian cells.**  
Dastan T., TURAN K.  
JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES, vol.7, no.2, pp.205-214, 2004 (SCI-Expanded)
- XVII. **Nuclear MxA proteins form a complex with influenza virus NP and inhibit the transcription of the engineered influenza virus genome**  
TURAN K., Mibayashi M., Sugiyama K., Saito S., Numajiri A., Nagata K.  
NUCLEIC ACIDS RESEARCH, vol.32, no.2, pp.643-652, 2004 (SCI-Expanded)
- XVIII. **Antiviral effect of Sanicula europaea L leaves extract on influenza virus-infected cells**  
TURAN K., Nagata K., Kuru A.  
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.225, no.1, pp.22-26, 1996 (SCI-Expanded)
- XIX. **Antiviral Activity of Water Extract of Sanicula europaea L Leaves on the Bacteria Bacteriophage System**  
TURAN K.  
Turk. J. Biol., vol.20, pp.225-234, 1996 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Mutations in the SARS CoV2 Spike Gene and Their Reflections on the Spike Protein**  
Caglayan E., TURAN K.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.12, no.2, pp.472-478, 2022 (ESCI)
- II. **Effects of Some Interferon-Related Proteins on Influenza A Viruse RNA Polymerase Activity**  
Çağlayan E., TURAN K.  
Turkish Journal of Pharmaceutical Sciences, vol.19, no.5, pp.552-559, 2022 (ESCI)
- III. **Conserved Protein YpmR of Moderately Halophilic Bacillus licheniformis has Hydrolytic Activity on p-Nitrophenyl Laurate**  
Touray A., OGAN A., TURAN K.  
European Journal of Biology, vol.79, no.1, pp.43-50, 2020 (Peer-Reviewed Journal)
- IV. **Synthesis, characterization and biological activity studies on amide derivatives**  
TÜRK S., TURAN K., ULUSOY S., KARAKUŞ S., Bosgelmez-Tinaz G.  
ISTANBUL JOURNAL OF PHARMACY, vol.48, no.3, pp.76-81, 2018 (ESCI)
- V. **In Vitro Characterization of Chitosan-Based Particles as Carrier of Influenza Viral Antigens**  
KARAASLAN M., TURAN K.  
European Journal of Biology, vol.77, pp.1-10, 2018 (Peer-Reviewed Journal)
- VI. **A SIMPLIFIED METHOD FOR THE EXTRACTION OF RECOMBINANT TAQ DNA POLYMERASE FROM ESCHERICHIA COLI**  
TURAN K., Eken B.  
JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES, vol.7, no.5, pp.445-448, 2018 (ESCI)
- VII. **Klotho Gene Aging and DNA Methylation**  
ÇAĞLAYAN E., TURAN K.  
Journal of Marmara University Institute of Health Sciences, vol.4, pp.1, 2014 (Peer-Reviewed Journal)
- VIII. **The Isolation of Fusarium sporotrichioides from a Diabetic Foot Wound Sample and Identification**  
ARDIÇ N., ÖZYURT M., TURAN K.  
Marmara Medical Journal, vol.21, pp.68-72, 2008 (Scopus)

### Papers Published in Refereed Scientific Meetings

- I. **Investigation of the relationship between influenza A virus RNA polymerase and human actin beta protein**

GELMEZ N., TURAN K.

IVEK-BİO, İstanbul, Turkey, 26 - 28 December 2018, pp.89

- II. **Haloarcula hispanica'ya ait Proteaz Enzimlerinin Escherichia coli'de Rekombinant Olarak Üretilmesi ve Analizi**  
GÜNEŞ A., TURAN K.  
II. Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 14 - 16 November 2018, pp.46
- III. **İnfluenza Enfeksiyonlarına Karşı Korunmada İzlenen Mevcut Tedavi Yolları ve Yeni Antiviral İlaçların Geliştirilmesinde Molekuler Yaklaşımlar**  
TURAN K.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 April 2017 - 29 April 2017
- IV. **Investigation of The Relationship Between İnfluenza A Virus Nuclear Export Protein and Cellular Nuclear Pore Complex**  
Şenbaş B., Pirinçal A., TURAN K.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017
- V. **Production and Analysis of Influenza Virus Surface Antigen Proteins in Microorganisms**  
Özaydın Ş., TURAN K.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017
- VI. **Production and Analysis of Lipase Enzymes of Halophilic Microorganisms in Escherichia coli**  
Touray A., OGAN A., ÇAĞLAYAN P., BİRBİR M., TURAN K.  
IVEK, İstanbul, Turkey, 26 - 29 April 2017
- VII. **Production and Analysis of Lipase Enzymes of Halophilic Microorganisms in Escherichia coli**  
Touray A., OGAN A., ÇAĞLAYAN P., BİRBİR M., TURAN K.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017
- VIII. **İnfluenza A Virüsü Patogenezinde Viral ve Hücrel Protein Faktörlerin Rolü**  
TURAN K.  
I.Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 3 - 05 November 2016
- IX. **İnfluenza A Virüsü Patogenezinde Viral ve Hücrel Protein Faktörlerin Rolü**  
TURAN K., RAYAMAN E., ŞENER A.  
1. Ulusal Marmara Eczacılık Kongresi, Turkey, 3 - 05 November 2016
- X. **Yaşlanma ile İlişkili Klotho Geni ve Bu Genin Ekspresyonunda Epigenetik Faktörlerin Rolü**  
TURAN K., Çağlayan E., ATA P.  
Ulusal Moleküler Tıp Sempozyumu: Moleküler Bakıştan Kliniğe, İstanbul, Turkey, 1 - 03 June 2016
- XI. **Maya Hücrelerinde İnsan Proinsülin Proteininin Üretilmesi ve Analizi**  
HAKKIOĞLU E. G., TURAN K.  
Ulusal Moleküler Tıp Sempozyumu: Moleküler Bakıştan Kliniğe, İstanbul, Turkey, 1 - 03 June 2016
- XII. **Thermus aquaticus DNA Polimeraz I Enziminin Rekombinant DNA Teknolojisi ile Üretilmesi ve Analizi**  
EKEN B., TURAN K.  
Ulusal Moleküler Tıp Sempozyumu: Moleküler Bakıştan Kliniğe, Turkey, 1 - 03 June 2016
- XIII. **Avian and Human Type Influenza Virus Replication in Hax1 Gene Knock Down Cells**  
HASAN U., TURAN K.  
Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 27 - 29 November 2015
- XIV. **Full length adiponectin protects platelet from activation and apoptosis**  
ŞENER A., NAZLI A., DOĞAN Ö., ÇEVİK Ö., ÖZSAVCI D., AKSOY H. Z., TURAN K.  
40.th FEBS Congress, Berlin, Germany, 4 - 06 July 2015
- XV. **full length adiponectin protects platelet from activation and apoptosis**  
ŞENER A., nazlı gül a., doğan ö., ÇEVİK Ö., ÖZSAVCI D., AKSOY H., TURAN K.  
40 th febskongress the biochemical basis of life berlin germany 2015, Germany, 4 - 09 July 2015
- XVI. **Full length adiponectin protects platelet from activation and apoptosis FEBS Journal**  
ŞENER A., ALTINDİŞ N. G., ÇEVİK Ö., DOĞAN Ö., ÖZSAVCI D., AKSOY H. Z., TURAN K.  
40th FEBS Congress, Berlin, Germany, 4 June - 09 January 2015

- XVII. **Investigation of the affinity of recombinant soluble form of human glucagon receptor protein with glucagon**  
TURAN K.  
Fourth International Meeting on Pharmacy and Pharmaceutical Sciences, İstanbul, Turkey, 18 - 21 September 2014
- XVIII. **Investigation of the Relationship between Influenza Virus NS1 Protein and Cellular Factors with Yeast Two Hybrid Assay**  
TURAN K.  
", Fourth International Meeting on Pharmacy and Pharmaceutical Sciences, İstanbul, Turkey, 18 - 21 September 2014
- XIX. **Anti aging Klotho geni ekspresyonuna hücre içi ve hücreler arası faktörlerin etkisi**  
ATA P., TURAN K.  
10.Ulusan Tıbbi Genetik Kongresi, Bursa, Turkey, 19 - 23 December 2012
- XX. **Comparison of Avian and Human Influenza Virus RNA Polymerases in Mammalian Cells**  
TURAN K.  
XVth International Congress of Virology, Sapporo, Japan, 11 - 16 September 2011
- XXI. **Antiviral ilaçların geliştirilmesinde virüs konak ilişkisinin moleküler düzeyde aydınlatılmasının önemi ve bu amaca yönelik ortaya konan yeni yaklaşımlar**  
TURAN K.  
Antiviral Kemoterapinin Gelişimi: Molekülden Tıbbı, Marmara Üniversitesi Eczacılık Fakültesi Sempozyumu, İstanbul, Turkey, 28 - 21 September 2009
- XXII. **Screening of negatively acting host factors for influenza virus RNA synthesis using a novel yeast based influenza viral replicon system**  
TURAN K.  
XIVth International Congress of Virology, İstanbul, Turkey, 10 - 15 August 2008
- XXIII. **Düşük Dereceli Gliomalarda MGMT ve P53 Ekspresyonu ile Tümör Lokalizasyonu Arasındaki İlişkinin Araştırılması II Multidisipliner Kanser Araştırma Sempozyumu**  
TURAN K.  
II.Multidisipliner Kanser Araştırma Sempozyumu, Bursa, Turkey, 24 - 27 May 2008
- XXIV. **Diyabetik Ayaklı Bir Hastada Fusarium Sporotrichioides Kolonizasyonunun Konvansiyonel PCR ve HPLC ile Tanısı**  
TURAN K.  
II.Ulusal Mikotoksin Sempozyumu, İstanbul, Turkey, 23 - 24 May 2005, vol.21, pp.68-72
- XXV. **Analysis of DNA damage in the cells treated with carbamate pesticides**  
TURAN K., KARSLI ÇEPPİOĞLU S., ŞARDAŞ S., YURDUN T.  
6th International Congress of Turkish Society of Toxicology, Antalya, Turkey, 8 - 11 November 2006
- XXVI. **Analysis of DNA Damage in the Cells Treated with Carbamate Pesticides**  
TURAN K.  
6th International Congress of Turkish Society of Toxicology, Antalya, Turkey, 2 - 05 November 2006
- XXVII. **Relations between EGFR PTEN PDGFR MGMT expression patterns and TP53 and P53 pathway MDM 2 and P14ARF gene aberrations in low grade gliomas**  
TURAN K.  
7thBalkan Meeting on Human Genetics, Balkan Journal of Medical Genetics, Skopje, Macedonia, 31 August - 02 October 2006
- XXVIII. **In vitro Controlled Release of DNA from Chitosan Microparticles**  
TURAN K.  
7thInternational Symposium on Pharmaceutical Sciences, Ankara, Turkey, 24 - 27 June 2003, vol.7, pp.205-214
- XXIX. **Anjiografi ile Koroner Arter Hastası Olduğu Tespit Edilen Kişilerde Faktör VIII Geni Bcl 1 intron 18 HindIII intron 19 st 14 VNTR Polimorfizmleri ile F VIII C Faktör VIII Ag ve Bazı Hemostaz Parametrelerinin İlişkisi**  
TURAN K.  
4. Ulusal Tromboz, Hemostaz ve Anjiyoloji Kongresi, İstanbul, Turkey, 26 - 28 September 2003

- XXX. **Chitosan Microparticles and Beads for Controlled Release of Influenza Viral Antigens**  
TURAN K.  
7th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 24 - 27 June 2003
- XXXI. **Deneysel Ateroskleroz Patogenezinde LDL Sialik Asid ve Plazma Sialidaz Düzeylerinin İncelenmesi**  
TURAN K.  
II. Ulusal Klinik Biyokimya Kongresi, Kuşadası, Turkey, 31 October - 04 November 2001
- XXXII. **Analysis of MxA Induced Cellular Functions in Virus Infected and Uninfected Cells**  
TURAN K.  
XIth International Conference on Negative Strand Viruses, Quebec, Canada, 24 - 29 June 2000
- XXXIII. **The Analysis of Gamma Radiation Effect on M1 Generation of Soybean Glycine max L Merrill**  
TURAN K.  
2nd Botanical Congress, İstanbul, Turkey, 14 - 18 May 2000
- XXXIV. **Sanicula europaea L Ekstrelerinin İnfluenza Virus Replikasyonuna Etkileri**  
TURAN K.  
XIII. Ulusal Biyoloji Kongresi, İstanbul, Turkey, 17 - 20 September 1996, vol.23, pp.269-376
- XXXV. **Bakteri Bakteriyofaj Sisteminde Sanicula europaea L Ekstresinin Biyolojik Aktivitesinin Araştırılması**  
TURAN K.  
XI. Ulusal Elektron Mikroskopi Kongresi, Edirne, Turkey, 8 - 10 September 1993, vol.20, pp.25-34

## Supported Projects

Özer Önder S., Özbeyli D., Turan K., Uğurlu T., Emergency R&D Project of Group A, SARS-CoV-2 Spike Proteini İçeren İntranazal Aşı Formülasyonunun In Vitro-In Vivo Değerlendirilmesi, 2024 - 2025

## Metrics

Publication: 69

Citation (WoS): 280

Citation (Scopus): 327

H-Index (WoS): 7

H-Index (Scopus): 8