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Education Information

Doctorate, Hacettepe Üniversitesi, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 2001 - 2006

Post Doctorate, University Of Washington, Fred Hutch Cancer Research Center, Basic Science, United States Of America
2004 - 2005

Expertise In Medicine, Hacettepe Üniversitesi, Tıp Fakültesi, Biyokimya, Turkey 1994 - 1999

Under Graduate, Ege Üniversitesi, Tıp Fakültesi, Turkey 1986 - 1992

Dissertations

Doctorate, Construction of recB-recD genetic fusion and analysis of recBDC fusion enzyme functions in E. coli,
Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya (Dr), 2006

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Academic Titles / Tasks

Associate Professor, Hacettepe Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2014 - Continues

Courses

DNA TAMİRİ, Under Graduate, 2017 - 2018

GELİŞİM BİYOKİMYASI, Under Graduate, 2016 - 2017, 2017 - 2018

HORMONES, Under Graduate, 2016 - 2017, 2017 - 2018

SU, BİYOKİMYASAL BAĞLAR, TAMPONLAR, Under Graduate, 2017 - 2018

KALSİYUM FOFOR MEKANİZMASI-HORMONLAR, Under Graduate, 2017 - 2018

LAB TASARIMI, Doctorate, 2017 - 2018

İMMUN ÖLÇÜMLER, Doctorate, 2017 - 2018

PROTEİN METABOLİZMASI2, Under Graduate, 2017 - 2018

KARBOHİDRAT METABOLİZMASI, Under Graduate, 2016 - 2017, 2017 - 2018

KAN BİYOKİMYASI, Post Graduate, 2017 - 2018

YAŞAMIN FARKLI EVRELERİNDE BİYOKİMYASAL PARAMETRELER, Under Graduate, 2017 - 2018

MİNERAL METABOLİZMASI, Under Graduate, 2016 - 2017, 2017 - 2018

REPLİKASYON, Doctorate, 2017 - 2018
HİPOTALAMUS VE HİPOFİZ HORMONLARI VE ÖLÇÜMLERİ, Under Graduate, 2016 - 2017, 2017 - 2018
RENAL FONKSİYON TESTLERİ, Under Graduate, 2017 - 2018
DNA TAMİRİ, Doctorate, 2017 - 2018
NOBEL PRIZE, Under Graduate, 2016 - 2017, 2017 - 2018
LİPİD MATABOLİZMASI, Under Graduate, 2017 - 2018
LİPİD METABOLİZMASI2, Under Graduate, 2017 - 2018
KAN BİYOKİMYASI, Under Graduate, 2016 - 2017, 2017 - 2018
PROTEİN METABOLİZMASI, Under Graduate, 2017 - 2018
METABOLİZMAYA BAKIŞ, Under Graduate, 2017 - 2018
BIOENERGETICS, Under Graduate, 2017 - 2018
KARDİYAK BELİRTEÇLER, Under Graduate, 2016 - 2017, 2017 - 2018
KARBOHİDRAT METABOLİZMASI2, Under Graduate, 2017 - 2018
ATP CYCLE, Under Graduate, 2017 - 2018
DETOXIFICATION MECHANISMS, Under Graduate, 2017 - 2018
ENZYME AS DIAGNOSTIC MARKER, Under Graduate, 2017 - 2018
HORMONLAR2, Under Graduate, 2017 - 2018
TİROİD HORMONLARI, Under Graduate, 2017 - 2018
STEROİD HORMONLARI, Under Graduate, 2017 - 2018
KLİBİK BİYOKİMYAYA GİRİŞ, Under Graduate, 2017 - 2018
PERİFERİK YAYMA, Post Graduate, 2017 - 2018
PPP YOLU, Under Graduate, 2017 - 2018
CELL SIGNALING, Under Graduate, 2017 - 2018
METABOLİZMAYA BAKIŞ, Doctorate, 2017 - 2018
HORMONLAR, Post Graduate, 2017 - 2018
KALSİYUM FOSFATLAR, APATİT VE FLOR İÇEREN BİLEŞİKLER, Under Graduate, 2016 - 2017, 2017 - 2018
SPECTROPHOTOMETRY-PRINCIPLE, Under Graduate, 2017 - 2018
VÜCUT SIVILARI VE TÜKÜRÜK, Under Graduate, 2017 - 2018
BİYOENERJETİK 2, Under Graduate, 2017 - 2018
GENLER VE KROMOZOMLAR, Doctorate, 2017 - 2018
POCT, Doctorate, 2017 - 2018
VÜCUT SIVILARI 2, Under Graduate, 2017 - 2018
KLİNİK BİYOKİMYADA ÖLÇÜM METOTLARI, Under Graduate, 2016 - 2017
METABOLİZMA II, Under Graduate, 2016 - 2017
TCA DÖNGÜSÜ, Under Graduate, 2016 - 2017
LİPİD METABOLİZMASI, Under Graduate, 2016 - 2017
REKOMBİNASYON, Post Graduate, 2016 - 2017
VERİ ANALİZİ, Under Graduate, 2016 - 2017
HORMONLAR, Under Graduate, 2016 - 2017
YAŞAM VE MOLEKÜLLER, Under Graduate, 2016 - 2017
BÖBREK FONKSİYON TESTLERİ, Under Graduate, 2016 - 2017
SIGNAL TRANSDUCTION, Under Graduate, 2016 - 2017
DETOKSİFİKASYON MEKANİZMALARI, Under Graduate, 2016 - 2017
TİROİD HORMONLARI VE ÖLÇÜMLERİ, Under Graduate, 2016 - 2017
LABORATUVAR GÜVENLİĞİ, Under Graduate, 2016 - 2017
STEROİD HORMONLAR, Under Graduate, 2016 - 2017
REPLİKASYON , Under Graduate, 2016 - 2017
YAŞAMIN FARKLI EVRELERİNDE BİYOKİMYA, Under Graduate, 2016 - 2017
VÜCUT SIVILARININ KLİNİK BİYOKİMYASI, Under Graduate, 2016 - 2017
KROMOZOM ANOMALİLERİNE BİYOKİMYASAL BAKIŞ, Under Graduate, 2016 - 2017
GENLER VE KROMOZOMLAR_TANI METODLARI, Under Graduate, 2016 - 2017

ADRENAL KORTEKS, MEDULLA HORMONLARI VE ÖLÇÜMLERİ, Under Graduate, 2016 - 2017
BİYOKİMYASAL BİLEŞİKLERİN YAPI VE FONKSİYONLARI, Under Graduate, 2016 - 2017
AMİNOASİT METABOLİZMASI, Under Graduate, 2016 - 2017
METABOLİZMAYA GENEL BAKIŞ, Under Graduate, 2016 - 2017
METABOLİZMA, Under Graduate, 2016 - 2017
PFY VE GLUKRONİK ASİT METABOLİZMASI, Under Graduate, 2016 - 2017
DNA TAMİR MEKANİZMALARI, Under Graduate, 2016 - 2017
HASTALIKLARIN TEMELİNDE BİYOKİMYASAL MEKANİZMALAR, Under Graduate, 2016 - 2017
BİYOENERJETİK I, Under Graduate, 2016 - 2017
OKSİDATİF FOSFORİLASYON, Under Graduate, 2016 - 2017
TÜMÖR BELİRTEÇLERİ, Under Graduate, 2016 - 2017
GENLER VE KROMOZOMLAR, Under Graduate, 2016 - 2017
KALSİYUM VE FOSFOR METABOLİZMASINI DÜZENLEYEN HORMONLAR, Under Graduate, 2016 - 2017
BİYOENERJETİK III VE ATP DÖNGÜSÜ, Under Graduate, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The role of the delta neutrophil index in determining the etiology of neonatal sepsis**
BÜYÜKEREN M., ÇELİK H. T. , YİĞİT Ş., PORTAKAL AKÇİN O., SANCAK B., YURDAKÖK M.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.46, no.1, pp.71-77, 2021 (Journal Indexed in SCI)
- II. **Effect of anti-epileptic drugs on first trimester screening test results**
Unal C., Tanacan A., Fadiloglu E., PORTAKAL AKÇİN O., Beksac M. S.
TAIWANESE JOURNAL OF OBSTETRICS & GYNECOLOGY, vol.59, no.6, pp.835-837, 2020 (Journal Indexed in SCI)
- III. **Comparison of term and preterm labor procalcitonin and leukocyte cell volume, conductivity and light scatter (VCS) parameters in order to demonstrate the impact of inflammation on the triggering mechanisms of preterm uterin contractions**
ÜNAL C., Karatas E., FADİLOĞLU E., PORTAKAL AKÇİN O., BEKSAÇ M. S.
JOURNAL OF OBSTETRICS AND GYNAECOLOGY RESEARCH, vol.46, no.5, pp.694-698, 2020 (Journal Indexed in SCI)
- IV. **5 Years' Experience of a Tertiary Center with Thrombocytopenic Pregnancies: Gestational Thrombocytopenia, Idiopathic Thrombocytopenic Purpura and Hypertensive Disorders of Pregnancy**
FADİLOĞLU E., ÜNAL C., TANAÇAN A., PORTAKAL AKÇİN O., BEKSAÇ M. S.
GEBURTSHILFE UND FRAUENHEILKUNDE, vol.80, no.1, pp.76-83, 2020 (Journal Indexed in SCI)
- V. **Joint Modeling Approach on Evaluating Time-Dependent CutOff Values for C-Reactive Protein in Mixed Intensive Care Unit Population**
KONAR N. M. , KARAİSMAİLOĞLU E., PORTAKAL AKÇİN O., PINAR A., DİKMEN Z. G. , KARAAĞAOĞLU A. E.
CLINICAL LABORATORY, vol.66, no.9, pp.1725-1730, 2020 (Journal Indexed in SCI)
- VI. **Emerging biomarker for predicting acute kidney injury after cardiac surgery: cystatin C**
Saydam O., TÜRKMEN E., PORTAKAL AKÇİN O., ARICI M., DOĞAN R., DEMİRCİN M., PAŞAOĞLU İ., YILMAZ M.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.48, no.6, pp.1096-1103, 2018 (Journal Indexed in SCI)
- VII. **A short guideline on chronic kidney disease for medical laboratory practice**
ABUŞOĞLU S., Aydın I., Bakar F., Bekdemir T., Gulbahar O., Islekel H., ÖZARDA Y., Pektas M., Pir K., PORTAKAL AKÇİN O., et al.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.41, no.4, pp.292-301, 2016 (Journal Indexed in SCI)
- VIII. **COMPARISON OF THE EFFICACY OF SERUM C-REACTIVE PROTEIN, PROCALCITONIN LEVELS AND NEW LEUKOCYTE PARAMETERS IN THE DIAGNOSIS OF SEPSIS IN EARLY CHILDHOOD**
PORTAKAL AKÇİN O., Celik T. H.
INTERNATIONAL JOURNAL OF LABORATORY HEMATOLOGY, vol.38, pp.86, 2016 (Journal Indexed in SCI)
- IX. **Efficacy of new leukocyte parameters versus serum C-reactive protein, procalcitonin, and**

interleukin-6 in the diagnosis of neonatal sepsis

PORTAKAL AKÇİN O.

PEDIATRICS INTERNATIONAL, vol.58, no.2, pp.119-125, 2016 (Journal Indexed in SCI Expanded)

- X. **Neural injury markers to predict neonatal complications in intrauterine growth restriction**
Velipasaoglu M., YURDAKÖK M., ÖZYÜNCÜ Ö., Portakal O., DEREN Ö.
JOURNAL OF OBSTETRICS AND GYNAECOLOGY, vol.35, no.6, pp.555-560, 2015 (Journal Indexed in SCI)
- XI. **Extremely high parathyroid hormone concentrations associated with pityriasis rubra pilaris and monoclonal gammopathy of unknown significance: A clinical dilemma**
PORTAKAL AKÇİN O.
BONE, vol.51, no.5, pp.847-850, 2012 (Journal Indexed in SCI)
- XII. **An Automated Image Analysis System Can be Beneficial in Preclassification of Leucocytes in Children With Hematological Disease**
PORTAKAL AKÇİN O.
JOURNAL OF CLINICAL LABORATORY ANALYSIS, vol.25, no.2, pp.71-75, 2011 (Journal Indexed in SCI Expanded)
- XIII. **Determination of Circulating Tumor Cells for Detection of Colorectal Cancer Progression or Recurrence**
PORTAKAL AKÇİN O.
HEPATO-GASTROENTEROLOGY, vol.57, no.104, pp.1395-98, 2010 (Journal Indexed in SCI Expanded)
- XIV. **Diagnostic performance of BNP and NT-ProBNP measurements in children with heart failure based on congenital heart defects and cardiomyopathies**
PORTAKAL AKÇİN O.
CLINICAL BIOCHEMISTRY, vol.43, no.16, pp.1278-81, 2010 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **Uropathogens and Gestational Outcomes of Urinary Tract Infections in Pregnancies that Necessitate Hospitalization**
Beksac A. T. , ÖRGÜL G., TANAÇAN A., UÇKAN H. H. , SANCAK B., PORTAKAL AKÇİN O., BEKSAÇ M. S.
Current Urology, vol.13, no.2, pp.70-73, 2019 (Refereed Journals of Other Institutions)
- II. **KANITLANMIŞ YENİDOĞAN SEPSİSİ TANISINDA DELTA NÖTROFİL İNDEKSİNİN YERİ: prospektif kontrollü klinik çalışma**
BÜYÜKEREN M., ÇELİK H. T. , YİĞİT Ş., PORTAKAL AKÇİN O., SANCAK B., YURDAKÖK M.
Turkish Journal Of Pediatrics, 2018 (Refereed Journals of Other Institutions)
- III. **The Impact of 17B Estradiol Level Variations on Blood Lymphocyte Counts Among Healthy Females**
ÖRGÜL G., Yucesoy H. M. , PORTAKAL AKÇİN O., BEKSAÇ M., BEKSAÇ M. S.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.8, no.2, pp.118-121, 2018 (Journal Indexed in ESCI)
- IV. **Relationship between first trimester maternal TSH levels and Down syndrome screening tests**
ÖRGÜL G., Dogan D. R. , PORTAKAL AKÇİN O., BEKSAÇ M. S.
CUKUROVA MEDICAL JOURNAL, vol.43, pp.94-99, 2018 (Journal Indexed in ESCI)
- V. **Investigating Factors Affecting Diagnostic Performance of Serial C-Reactive Protein Measurements by Using Joint Modeling Approach**
KONAR N. M. , KARAİSMAİLOĞLU E., PORTAKAL AKÇİN O., PINAR A., DİKMEN Z. G. , KARAĞAĞOĞLU A. E.
Turkiye Klinikleri Journal of Biostatistics, vol.10, no.1, pp.52-64, 2018 (Other Refereed National Journals)
- VI. **Total Blood Lymphocyte Count Alteration During and after Pregnancy**
ÖRGÜL G., SOYAK B., PORTAKAL AKÇİN O., BEKSAÇ M., BEKSAÇ M. S.
Gynecology Obstetrics Reproductive Medicine, vol.23, no.1, pp.11-13, 2017 (Other Refereed National Journals)
- VII. **Erythrocyte Agglutination In A Child With Neuroblastoma**
PORTAKAL AKÇİN O., YALÇIN B.
INTERNATIONAL JOURNAL OF SURGERY CASE REPORTS, vol.2114, pp.1-4, 2014 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Klinik Laboratuvarlar İçin Saflaştırılmış Suyun Hazırlanması, Dağıtımı ve Test Edilmesi Kılavuzu**
PORTAKAL AKÇİN O., KÜÇÜK S., YÜCEL D., ZENGİN O., TOPÇUOĞLU C., KÖSEM A., KOSOVA S.
TBD YAYINLARI, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **miRNA isolation methods**
PORTAKAL AKÇİN O.
BCLF 2019 CONGRESS_ CONGRESS COURSES, 27 October 2019, vol.44
- II. **Serum prolactin and ferritin levels in particular autoimmune disease**
PORTAKAL AKÇİN O., YAHŞI B.
BCLF 2019, 27 - 31 October 2019, vol.44
- III. **O-063 National guidelines for the preparation, distribution and testing of purified water for clinical laboratories**
PORTAKAL AKÇİN O.
BCLF 2019, 27 October - 31 January 2019, vol.44
- IV. **Klinik Laboratuvarlarda Saflaştırılmış Suyun Önemi Ve Saflaştırılmış Su Türleri**
PORTAKAL AKÇİN O.
Klinik Laboratuvarlar İçin Saflaştırılmış Suyun Hazırlanması, Dağıtımı ve Test Edilmesi Kılavuzu, Turkey, 27 June 2019
- V. **Is Muscle Mechanical Function Altered In Polycystic Ovary Syndrome?**
ÇALIŞKAN E., TORĞUTALP Ş. Ş. , AKTOZ F., PORTAKAL AKÇİN O., DEMİREL A. H. , YILDIZ O. B.
ENDO 2019, NEW ORLEANS, United States Of America, 23 - 26 March 2019, vol.3
- VI. **Detection of AFP values in patient with Ataxia Telangiectasia**
PORTAKAL AKÇİN O.
TBD ULUSLARARASI BİYOKİMYA KONGRESİ 2018, 27 - 30 October 2018
- VII. **miRNA isolation**
PORTAKAL AKÇİN O.
TBD ULUSLARARASI BİYOKİMYA KONGRESİ 2018, 27 October 2018
- VIII. **KANITLANMIŞ YENİDOĞAN SEPSİSİ TANISINDA DELTA NÖTROFİL İNDEKSİNİN YERİ: prospektif kontrollü klinik çalışma**
BÜYÜKEREN M., ÇELİK H. T. , YİĞİT Ş., PORTAKAL AKÇİN O., SANCAK B., YURDAKÖK M.
62. Türkiye Milli Pediatri Kongresi, Antalya, Turkey, 14 - 18 November 2018
- IX. **ZAMANINDA DOĞAN YENİDOĞANLARDA KORDKANI DELTA NÖTROFİL İNDEKSİ DEĞERLERİ**
BÜYÜKEREN M., ÇELİK H. T. , PORTAKAL AKÇİN O., YİĞİT Ş., YURDAKÖK M.
26. Ulusal Neonatoloji Kongresi, 26. UNEKO, 14-18 Nisan 2018, Bafra, KKTC, Bafra, Cyprus (Kkct), 14 - 18 April 2018, pp.90
- X. **EVALUATION OF CLINICAL USEFULNEOPOF INTRAOPERATIVEPARATHYROID HORMONE (PTH) ASSAY: A UNIVERSITYEXPERIENCE**
PORTAKAL AKÇİN O., DOĞRUL A. B. , AKBIYIK F., PINAR A., ABBASOĞLU O.
Uluslararası biyokimya kongresi, Erzurum, Turkey, 19 - 23 September 2017, vol.42
- XI. **Evaluation of Laboratory Safety of the Laboratory Staff.**
DİKMEN Z. G. , ŞENEŞ M., PORTAKAL AKÇİN O., SEPİCİ DİNÇEL A., SAYDAM G., KÜÇÜK H. S. , YÜCEL D.
International Biochemical Congress 2017, 28th National Biochemistry Congress, Erzurum, 19 - 23 September 2017
- XII. **Unexpectedly high adrenocorticotrophic hormone values due to its complex formation with immunoglobulin**
PORTAKAL AKÇİN O., serdar s., ERBAŞ A. T. , PINAR A., BAYRAKTAR M.
69th AACC ANNUAL SCIENTIFIC MEETING, San Diego, United States Of America, 30 July - 03 August 2017, vol.63,

pp.61

- XIII. **Biotin May Lead To High Free Thyroxine Levels in Some Immunoassay Methods**
PORTAKAL AKÇİN O., GÖNÜL G., GÖNÇ E. N. , SİVRİ H. S. , ALİKAŞİFOĞLU A., YİĞİT Ş., PINAR A., ÖZÖN Z. A. , COŞKUN T.
69th AACC ANNUAL SCIENTIFIC MEETING, SAN DIEGO, United States Of America, 30 July - 03 August 2017, vol.63
- XIV. **Unexpectedly high adrenocorticotrophic hormone values due its complex formation with immunoglobulin**
PORTAKAL AKÇİN O., SENDUR S. N. , ERBAŞ A. T. , PINAR A., BAYRAKTAR M.
69th AACC annual scientific meeting, San Diego, United States Of America, 30 July - 03 August 2017, vol.63, pp.61
- XV. **Thyroid function tests in Turkish geriatric population**
DİKMEN Z. G. , PORTAKAL AKÇİN O., KARAIŞMAİLOĞLU E., TUNA DOĞRUL R., Sümer F., YAVUZ B. B. , AKBIYIK F.
69th aacc annual scientific meeting clinical lab expo, 30 July - 03 August 2017
- XVI. **SIMULTANEOUS MEASUREMENT OF SIX STEROID HORMONES BY LIQUID CHROMATOGRAPHY-TANDEM MASSSPECTROMETRY IN CHILDREN WITH ADRENAL DISEASE**
PORTAKAL AKÇİN O., PINAR A.
EUROMEDLAB, ATİNA, Greece, 11 - 15 June 2017, vol.55, pp.645
- XVII. **COMPARISON OF THE EFFICACY OF SERUM C REACTIVE PROTEIN PROCALCITONIN LEVELS AND NEW LEUKOCYTE PARAMETERS IN THE DIAGNOSIS OF SEPSIS IN EARLY CHILDHOOD**
PORTAKAL AKÇİN O., ÇELİK H. T.
XXIX International Symposium on Technical Innovations in Laboratory Hematology, 12 - 14 May 2016, vol.38, pp.86
- XVIII. **Determination Of The Pre-Analytic Errors Occuring In Different Phases Of Complete Blood Count Analysis In Hacettepe University Hospitals**
PORTAKAL AKÇİN O., PINAR A.
Preanalitik Evre Sempozyumu, Türk Biyokimya Derneği, Turkey, 19 - 20 May 2016, vol.38
- XIX. **Measurement of Holotranscobalamin by Chemiluminescent Microparticle Magnetic Immunoassay**
PORTAKAL AKÇİN O., AKBIYIK F.
68th AACC, 31 July - 04 August 2016
- XX. **Reporting Of Critical Test Values for Hematological Parameters A Large Scale Laboratory Result**
PORTAKAL AKÇİN O., AKBIYIK F.
68th AACC, United States Of America, 31 July - 04 August 2016
- XXI. **SYSMEX XN3000 HEMATOLOJİ ANALİZÖRÜNÜN ANALİTİK PERFORMANSININ DEĞERLENDİRİLMESİ**
PORTAKAL AKÇİN O., AKBIYIK F.
ULUSAL BİYOKİMYA KONGRESİ, Turkey, 3 - 06 November 2015, vol.40, pp.153
- XXII. **GİRİŞİMSSEL OLMAYAN PRENATAL TANI TESTLERİ NIPT**
PORTAKAL AKÇİN O.
27. ULUSAL BİYOKİMYA KONGRESİ, 3 - 06 November 2015, vol.40
- XXIII. **Comparison of the Efficacy of C Reactive Protein Procalcitonin Interleukin 6 Levels and New Leukocyte Parameters in the Diagnosis of Neonatal Sepsis**
PORTAKAL AKÇİN O., ÇELİK H. T. , YİĞİT Ş., HAŞÇELİK A. G. , KORKMAZ TOYGAR A., YURDAKÖK M.
The 4th Congress of the European Academy of Paediatric Societies, İstanbul, Turkey, 5 - 09 October 2012

Supported Projects

ÇENGEL KÜLTÜR S. E. , ARTIK A., KARABONCUK A. Y. , PORTAKAL AKÇİN O., Project Supported by Higher Education Institutions, DikkatEksikliğiHiperaktivite Bozukluğu Olan Prepubertal Erkek Çocuklarda Otizm Benzeri Belirtilerin ve Agresyonun Testesteron Oksitosin Kortizol ve Androstenedion ile İlişkisi, 2018 - 2019

PORTAKAL AKÇİN O., KILIÇ Y. A. , GÜLTEKİN Y. , Project Supported by Higher Education Institutions, Genel cerrahi Yoğun Bakım Ünitesindeki hastalarda serum omentin değerinin saptanması ve prognostik bir faktör olarak kullanılabilirliğinin değerlendirilmesi, 2017 - 2018

PORTAKAL AKÇİN O., Project Supported by Higher Education Institutions, YENİ NESİL DİZİLEME(NGS): HEDEFLENMİŞ DİZİLEME, 2016 - 2017

Citations

Total Citations (WOS):7

h-index (WOS):1