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Education

Expertise In Medicine, Ankara Numune Hastanesi, Biyokimya , Biyokimya, Turkey 1990 - 1993

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, cell isolation and measurement of cell calcium, university of surrey, 1997

Dissertations

Expertise In Medicine, Streptozotosin ile diyabetik yapılan sıçanlarda glikasyon olcumu, Ankara Numune Hastanesi, Tip, Biyokimya, 1993

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry, Nutrition and Dietetics

Academic Positions

Professor, Akdeniz University, Faculty of Medicine, Biyokimya, 1999 - Continues

Supervised Theses

BAYKAL A., Diabetik ve aminoguanidin uygulanan diabetik sıçanlarda glikasyonun korpus kavernozum dokularındaki kollajen Tiplerine etkisi, Expertise In Medicine, Y.Çelikden(Student), 2004
BAYKAL A., Primer hipertansif hastalarda böbrek zedelenmesinin erken tanısında güvenilir bir gösterge olarak cystatin C'nin önemi, Expertise In Medicine, B.Altay(Student), 2003

BAYKAL A., Talasemi kriteri olarak hücre içi kalsiyum, kornitin, malondialdehid düzeylerinin değerlendirilmesi ve bu kriterlerin eritrosit deformabilitesi ve karnitin tedavisi ile ilişkisi, Expertise In Medicine, B.Toptaş(Student), 2002

Journal articles indexed in SCI, SSCI, and AHCI

- I. **The relationship between vitamin D status and graft function in renal transplant recipients**
KARATOY ERDEM B., YILMAZ V. T., SÜLEYMANLAR G., ÖZCAN F., BAYKAL A., AKBAŞ S. H.
FEBS JOURNAL, no.1, pp.128, 2017 (SCI-Expanded)
- II. **The relationship between vitamin D status and graft function in renal transplant recipients**
KARATOY ERDEM B., YILMAZ V. T., SÜLEYMANLAR G., ÖZCAN F., BAYKAL A., AKBAŞ S. H.
FEBS JOURNAL, no.1, pp.128, 2017 (SCI-Expanded)
- III. **Increased ratios of homocysteine/vitamin B12, homocysteine/folate and methionine/vitamin B12 in schizophrenic patients**
KULAKSIZOĞLU B., KULAKSIZOĞLU S., ELLIDAG H. Y., ÇİNEMRE B., Baykal A., YILMAZ N.
NEUROCHEMICAL JOURNAL, vol.10, no.2, pp.166-171, 2016 (SCI-Expanded)
- IV. **Chronic administration of sildenafil improves erectile function in a rat model of chronic renal failure**
Gurbuz N., Kol A., Ipekci T., Ates E., Baykal A., USTA M. F.
ASIAN JOURNAL OF ANDROLOGY, vol.17, no.5, pp.797-801, 2015 (SCI-Expanded)
- V. **Cystine Dimethyl Ester Induces Apoptosis Through Regulation of PKC-delta and PKC-epsilon in Prostate Cancer Cells**
Gurbuz N., Park M. A., Dent P., Mageed A. B. A., Sikka S. C., Baykal A.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.15, no.2, pp.217-227, 2015 (SCI-Expanded)
- VI. **Therapeutic effect of combination of alagebrium (ALT-711) and sildenafil on erectile function in diabetic rats**
Gurbuz N., Sagdic G., Sanli A., Ciftcioglu A., Bassorgun I., Baykal A., USTA M. F.
INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, vol.24, no.3, pp.114-121, 2012 (SCI-Expanded)
- VII. **Role of the poly(ADP-ribose)polymerase activity in vancomycin-induced renal injury**
Dalaklioglu S., Tekcan M., Gungor N. E., Celik-Ozenci C., Aksoy N. H., Baykal A., TAŞATARGİL A.
TOXICOLOGY LETTERS, vol.192, no.2, pp.91-96, 2010 (SCI-Expanded)
- VIII. **The Effects of (99m)Technetium-methylenediphosphonate and (99m)Technetium-methoxyisobutylisonitrile on Erythrocyte Antioxidant Enzyme Activities**
GURBUZ N., AYDIN F., BOZ A., BAYKAL A., ALICIGUZEL Y.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.35, no.3, pp.172-176, 2010 (SCI-Expanded)
- IX. **L-carnitine deficiency and red blood cell mechanical impairment in beta-thalassemia major**
Toptaş B., BAYKAL A., YESİLİPEK A., İSBİR M. F., Kupesiz A., YALCIN O., BASKURT O. K.
CLINICAL HEMORHEOLOGY AND MICROCIRCULATION, vol.35, no.3, pp.349-357, 2006 (SCI-Expanded)
- X. **Can cystatin C be a better marker for the early detection of renal damage in primary hypertensive patients?**
OZER B., BAYKAL A., DURSUN B., Gultekin M., SULEYMANLAR G.
RENAL FAILURE, vol.27, no.3, pp.247-253, 2005 (SCI-Expanded)
- XI. **The potential role of advanced glycation end product and iNOS in chronic renal failure-related testicular dysfunction - An experimental study**
Koksal I., Usta M. F., Akkoyunlu G., TOPTAS B., Gulkesen K. H., Erdogru T., TUNCER M., Baykal A., ERSOY F. F., Demir R., et al.
AMERICAN JOURNAL OF NEPHROLOGY, vol.23, no.5, pp.361-368, 2003 (SCI-Expanded)
- XII. **Effect of experimental varicocele in rats on testicular oxidative stress status**
Koksal T., Erdogru T., TOPTAS B., Gulkesen K. H., Usta M. F., Baykal A., Baykara M.
ANDROLOGIA, vol.34, no.4, pp.242-247, 2002 (SCI-Expanded)
- XIII. **Red blood cell rheological alterations in hypertension induced by chronic inhibition of nitric oxide synthesis in rats**

Bor-Kucukatay M., Yalcin O., Gokalp O., Kipmen-Korgun D., Yesilkaya A., Baykal A., Ispir M., Senturk U., KAPUTLU İ., Baskurt O.
CLINICAL HEMORHEOLOGY AND MICROCIRCULATION, vol.22, no.4, pp.267-275, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Measurement of methionine level with the LC-ESI -MS/MS method in schizophrenic patients**
KULAKSIZOĞLU S., Kulaksizoglu B., Ellidag H., EREN E., YILMAZ N., Baykal A.
Ukrainian Biochemical Journal, vol.88, no.5, pp.107-115, 2016 (Scopus)

Books

- I. **Renkli Biyokimya Atlası**
YEŞİLKAYA A., BAYKAL ATAMAN A., ALPER Ö.
Nobel Tıp, İstanbul, 2002

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **The relationship between vitamin D status and graft function in renal transplant recipients**
KARATOY ERDEM B., YILMAZ V. T., SÜLEYMANLAR G., ÖZCAN F., BAYKAL A., AKBAŞ S. H.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, İzmir, Turkey, 3 - 08 October 2016, pp.244, (Full Text)
- II. **The relationship between vitamin D status and graft function in renal transplant recipients**
KARATOY ERDEM B., YILMAZ V. T., SÜLEYMANLAR G., ÖZCAN F., BAYKAL A., AKBAŞ S. H.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, İzmir, Turkey, 3 - 08 October 2016, pp.244
- III. **The relationship between vitamin D status and graft function in renal transplant recipients**
KARATOY ERDEM B., YILMAZ V. T., SÜLEYMANLAR G., ÖZCAN F., BAYKAL A., AKBAŞ S. H.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, İzmir, Turkey, 3 - 08 October 2016, pp.244
- IV. **Effect of alagebrium and sildenafil citrate on endothelial smooth muscle relaxation in corpus cavernosum**
Sagdic G., Gurbuz N., Sanll A., Baykal A., Usta M. F.
12th Annual Meeting of the European Council for Cardiovascular Research, Nice, France, 12 - 14 October 2007, vol.50, pp.813, (Summary Text)
- V. **19-L-Carnitin Tedavisinin Eritrosit İçi Kalsiyum Düzeyi ve Deformabilitesi Üzerine Etkileri**
Toptaş B., KÜPESİZ O. A., Baykal A., Başkurt O., Yeşilipek M. A.
II. Hemoglobino-pati Kongresi, Adana, Turkey, 30 October - 01 November 2002, pp.87, (Summary Text)
- VI. **Carnitine and oxidative stres in patients with beta thalassemia**
Toptaş B., Baykal A., Isbir M. F., Yeşilipek M. A., KÜPESİZ O. A.
XIth Meeting of the Society for Free Radical Research International, Paris, France, 16 - 20 July 2002, pp.42

Funded Projects

YEŞİLKAYA A., AVCİL Z., GÜRBÜZ N., BAYKAL A., Project Supported by Higher Education Institutions, Yüksek yağlı diyet ve streptozotosin ile indüklenmiş diabetik sıçan karaciğer dokusunda eikosapentaenoik asit EPA ile muamele sonrası adiponektin sinyalizasyonu, 2017 - 2020

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