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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAE-5503-2020

Yoksis Researcher ID: 12349

Education Information

Doctorate, Istanbul University, İstanbul Tıp Fakültesi /Sağlık Bilimleri, Biyofizik Anabilim Dalı, Turkey 1991 - 1997

Foreign Languages

German, B1 Intermediate

English, B1 Intermediate

Dissertations

Doctorate, Aktin Elongasyon Faktor 2 (EF2) Etkileşimleri, Istanbul University, Istanbul Medical Faculty, Biyofizik Anabilim Dalı, 1997

Postgraduate, BİYOTEKNOLOJİK YÖNTEMLERLE PEYNİR MAYASI (RENNİN) ELDESİ, Istanbul University, Istanbul Medical Faculty, Biyofizik Anabilim Dalı, 1991

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics

Academic Titles / Tasks

Professor, Istanbul University, Istanbul Medical Faculty, Temel Tıp, 1991 - Continues

Academic and Administrative Experience

İstanbul Üniversitesi, Istanbul Medical Faculty, 2009 - 2011

İstanbul Üniversitesi, Satnalmaa, 2006 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Depolymerization of actin filaments by Cucurbitacin I through binding G-actin**
Haciosmanoglu Aldogan E., Önsü K. A., Saylan C. C., Günçer B., Baday S., Bektaş M.
FOOD SCIENCE & NUTRITION, vol.12, no.2, pp.881-889, 2024 (SCI-Expanded)
- II. **Novel electrochemical biosensor for Escherichia coli using gold-coated tungsten wires and antibody functionalized short multiwalled carbon nanotubes**
Ertaş T., Dinç B., Üstünsoy R., Eraslan H., Ergenç A. F., Bektaş M.
INSTRUMENTATION SCIENCE AND TECHNOLOGY, vol.2023, pp.1-16, 2023 (SCI-Expanded)
- III. **A Comparative Study of Short Multi-Walled Carbon Nanotubes with Different Bulk Densities**
Dinc B., Ustunsoy R., Unlu A., Meran M., Yavuz N., Bektas M.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.96, no.13, pp.2938-2947, 2022 (SCI-Expanded)
- IV. **Valproic Acid Attenuated PTZ-induced Oxidative Stress, Inflammation, and Apoptosis in the SH-SY5Y Cells via Modulating the TRPM2 Channel**
Ahlatcı A., Yıldızhan K., Tülüce Y., BEKTAŞ M.
NEUROTOXICITY RESEARCH, vol.40, no.6, pp.1979-1988, 2022 (SCI-Expanded)
- V. **Purification use and toxicity of paramagnetic short multi-walled carbon nanotubes**
Ustunsoy R., Dinc B., Bektas M.
FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, vol.30, no.2, pp.232-241, 2022 (SCI-Expanded)
- VI. **EFFECT OF BREAST CANCER AND BREAST CANCER TREATMENT ON THE BLOOD SERUM CONCENTRATIONS OF TRACE ELEMENTS AND SELENOPROTEINS**
Ogut S., BAHTİYAR N., Mordeniz C., CİNEMRE F. B., Aydemir B., Karacetin D., Degirmencioglu S., HACIOSMANOĞLU E., Kural A., Kiziler A. R., et al.
JOURNAL OF ELEMENTOLOGY, vol.27, no.2, pp.289-302, 2022 (SCI-Expanded)
- VII. **Myofibrillar degeneration with diphtheria toxin**
Özerman Edis B., Bektas M., Nurten R.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.45, no.4, pp.351-357, 2020 (SCI-Expanded)
- VIII. **Characterization of short-length multi-walled carbon nanotubes and cytotoxicity on MDA-MB-231 and HUVEC cell lines**
Dinc B., ÜNLÜ A., Bektas M.
CARBON LETTERS, vol.30, no.2, pp.143-153, 2020 (SCI-Expanded)
- IX. **Jasplakinolid ile F-aktin Stabilizasyonu Uygulanan Endotel Hücrelerinde Difteri Toksini Trafiği**
ÖZERMAN EDİS B., Haciosmanoğlu E., VAROL B., BEKTAŞ M.
Türk Mikrobiyoloji Cemiyeti Dergisi, vol.48, no.3, pp.167-172, 2018 (SCI-Expanded)
- X. **Cytotoxicity of doxorubicin loaded single-walled carbon nanotubes**
ÜNLÜ A., Meran M., Dinc B., Karatepe N., Bektas M., Güner F. S.
MOLECULAR BIOLOGY REPORTS, vol.45, no.4, pp.523-531, 2018 (SCI-Expanded)
- XI. **Cross-reacting material 197 (CRM197) affects actin cytoskeleton of endothelial cells**
Edis B., Varol B., Haciosmanoglu E., Unlu A., Bektas M.
GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.36, no.4, pp.383-389, 2017 (SCI-Expanded)
- XII. **Virtual screening of small molecules databases for discovery of novel PARP-1 inhibitors: combination of in silico and in vitro studies**
Salmas R. E., ÜNLÜ A., Bektas M., Yurtsever M., Mestanoglu M., DURDAĞI S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.35, no.9, pp.1899-1915, 2017 (SCI-Expanded)
- XIII. **Interleukin-1 β effect on the endogenous ADP-ribosylation and phosphorylation of eukaryotic elongation factor 2**
HACIOSMANOĞLU E., Varol B., Edis B., Bektaş M.
Cytotechnology, vol.68, no.6, pp.2659-2666, 2016 (SCI-Expanded)
- XIV. **The interaction between actin and FA fragment of diphtheria toxin**
Unlu A., Bektas M., Sener S., Nurten R.
MOLECULAR BIOLOGY REPORTS, vol.40, no.4, pp.3135-3145, 2013 (SCI-Expanded)

- XV. **The cytotoxic effect of diphtheria toxin on the actin cytoskeleton**
Varol B., Bektas M., Nurten R., Bermek E.
CELLULAR & MOLECULAR BIOLOGY LETTERS, vol.17, no.1, pp.49-61, 2012 (SCI-Expanded)
- XVI. **On diphtheria toxin fragment A release into the cytosol - Cytochalasin D effect and involvement of actin filaments and eukaryotic elongation factor 2**
Bektas M., Haciosmanoglu E., Ozerman B., Varol B., Nurten R., Bermek E.
International Journal of Biochemistry and Cell Biology, vol.43, no.9, pp.1365-1372, 2011 (SCI-Expanded)
- XVII. **On diphtheria toxin fragment A release into the cytosol-Cytochalasin D effect and involvement of actin filaments and eukaryotic elongation factor 2.**
BEKTAŞ M., Haciosmanoğlu E., ÖZERMAN EDİS B., VAROL B., NURTEN R.
Int J Biochem Cell Biol., no.43, pp.1365-72, 2011 (SCI-Expanded)
- XVIII. **Interaction of diphtheria toxin (fragment A) with actin**
Bektas M., Varol B., Nurten R., Bermek E.
CELL BIOCHEMISTRY AND FUNCTION, vol.27, no.7, pp.430-439, 2009 (SCI-Expanded)
- XIX. **A Pilot Study on the Isolation of Dental Pulp Stem Cells, Potential of Forming Colonies and Defining the Content of Stem Cells**
Suzergoz F., Erdem D., Sepet E., Bektas M., Yalman N., Gurol A. O.
TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.29, no.1, pp.128-133, 2009 (SCI-Expanded)
- XX. **Endogenous ADP-ribosylation of eukaryotic elongation factor 2 and its 32 kDa tryptic fragment**
Ergen K., Bektas M., Gökçe S., Nurten R.
BIOCELL, vol.31, no.1, pp.61-66, 2007 (SCI-Expanded)
- XXI. **Endogenous ADP-ribosylation for eukaryotic elongation factor 2: evidence of two different sites and reactions**
Bektas M., Nurten R., Ergen K., Bermek E.
CELL BIOCHEMISTRY AND FUNCTION, vol.24, no.4, pp.369-380, 2006 (SCI-Expanded)
- XXII. **Effect of oxidative stress on in vivo ADP-ribosylation of eukaryotic elongation factor 2**
Bektas M., Akcakaya H., Aroymak A., Nurten R., Bermek E.
INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol.37, no.1, pp.91-99, 2005 (SCI-Expanded)
- XXIII. **Actin -: an inhibitor of eukaryotic elongation factor activities**
Bektas M., Guncer B., Guven C., Nurten R., Bermek E.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, no.4, pp.1061-1066, 2004 (SCI-Expanded)
- XXIV. **Resistance to CD95/Fas-induced and ceramide-mediated apoptosis of human melanoma cells is caused by a defective mitochondrial cytochrome c release**
Raisova M., BEKTAŞ M., Wieder T., Daniel P., Eberle J., Orfanos C., Geilen C.
FEBS LETTERS, vol.473, no.1, pp.27-32, 2000 (SCI-Expanded)
- XXV. **Interactions of elongation factor 2 with the cytoskeleton and interference with DNase I binding to actin**
Bektas M., Nurten R., Sayers Z., Bermek E.
EUROPEAN JOURNAL OF BIOCHEMISTRY, vol.256, no.1, pp.142-147, 1998 (SCI-Expanded)
- XXVI. **INTERACTIONS OF EUKARYOTIC ELONGATION-FACTOR-2 WITH ACTIN - A POSSIBLE LINK BETWEEN PROTEIN SYNTHETIC MACHINERY AND CYTOSKELETON**
BEKTAŞ M., NURTEN R., GUREL Z., SAYERS Z., BERMEK E.
FEBS LETTERS, vol.356, no.1, pp.89-93, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **Indomethacin Affects the Inflammatory Response via Interaction with the RhoA-Actin Cytoskeleton in THP-1 Cells**
HACIOSMANOĞLU E., DAL YÖNTEM F., BULUT Ş., YAPIŞLAR H., GÜNÇER B., BEKTAŞ M.
Experimed, vol.13, no.3, pp.213-217, 2023 (Scopus)

- II. **Carbon Nanotubes: Synthesis, Functionalization, Characterization, Toxicity Researches**
DİNÇ B., ÜNLÜ A., BEKTAŞ M.
International Journal of Scientific and Technological Research, vol.4, no.10, pp.287-298, 2018 (Peer-Reviewed Journal)
- III. **Synthesis of New Anthraquinone Derivatives and Anticancer Effects on Breast Cancer Cell Lines**
Haciosmanoğlu E., ÖZKÖK F., Onsu A. K., BEKTAŞ M., VAROL B., PEHLİVAN S.
The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.4, pp.271-276, 2018 (Peer-Reviewed Journal)
- IV. **Sağlık Hizmetleri Meslek ve Sağlık BilimleriYüksekokullarındaki ÖğrencilerinElektromanyetik Alan Maruziyetinin Araştırılması**
ÖGÜT S., SEVİNÇ L., CİNEMRE F. B., CİNEMRE H., BAHTİYAR N., ATAMAN B., BEKTAŞ M., KIZILER A. R., AYDEMİR B.
Sakarya Tıp Dergisi, vol.8, no.3, pp.475-480, 2018 (Peer-Reviewed Journal)
- V. **Intracellular trafficking of diphtheria toxin and its mutated form, CRM197, in the endocytic pathway**
Edis B., Haciosmanoglu E., Varol B., Bektas M.
NORTHERN CLINICS OF ISTANBUL, vol.5, no.2, pp.89-95, 2018 (ESCI)
- VI. **Intracellular trafficking of diphtheria toxin and its mutated form (CRM197) in the endocytic pathway**
ÖZERMAN EDİS B., Haciosmanoğlu E., VAROL B., BEKTAŞ M.
NORTHERN CLINICS OF ISTANBUL, vol.4, 2017 (Peer-Reviewed Journal)
- VII. **İstanbul Tıp Fakültesinde 31 Yıllık Bilimsel Araştırma Sonuçları**
TEFIK T., VAROL B., ÖZERMAN EDİS B., BEKTAŞ M., KADIOĞLU A.
Yükseköğretim Dergisi/Journal of Higher Education, vol.3, no.1, pp.53-60, 2013 (Peer-Reviewed Journal)
- VIII. **Scientific research results of istanbul Faculty of Medicine in 31 years**
TEFIK T., Varol B., Edis B. O., Tufan F., Demirturk M., Kilincaslan A., Befle C., ERDEM S., BEKTAŞ M., KADIOĞLU A., et al.
YUKSEKOGRETİM DERGISI, vol.3, no.1, pp.53-60, 2013 (ESCI)
- IX. **Dental Pulpa Kök Hücrelerinin İzolasyonu Koloni Oluşturma Yeteneği ve Kök Hücre İçeriğinin Belirlenmesi Üzerine Bir Ön Çalışma**
SÜZERGÖZ F., Arzu Pınar E., SEPET E., BEKTAŞ M., YALMAN N., GÜROL A. O.
Türkiye Klinikleri Journal of Medical Sciences, 2008 (Peer-Reviewed Journal)
- X. **Clinical and Biochemical Evaluation of Short-Term Systemic Ibuprofen as an Adjunct to Non-Surgical Periodontal Therapy of Chronic Periodontitis**
BEKTAŞ M.
Perio, vol.3, pp.97-104, 2006 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Bütünleştirilmiş Moleküler ve Hücresel Biyofizik**
Nurten A., Albeniz I., Yalçıntepe Güneştutar L., Akçakaya H., Bektaş M., Varol B., Özerman Edis B., Türker Şener L., Nurten R. (Editor)
İstanbul Tıp Kitabevi, İstanbul, 2014
- II. **Protein-Protein Etkileşimleri**
BEKTAŞ M.
in: Bütünleştirilmiş Moleküler ve Hücresel Biyofizik, Nurten R, Editor, İstanbul Tıp Kitabevi, İstanbul, pp.195-218, 2014
- III. **Toxin Structure Delivery and Action**
VAROL B., ÖZERMAN EDİS B., BEKTAŞ M.
in: Corynebacterium diphtheriae and Related Toxigenic Species, Burkovski A, Editor, Springer, Heidelberg, pp.83-94, 2013
- IV. **Toxin Structure Delivery and Action**
VAROL B., ÖZERMAN EDİS B., BEKTAŞ M.

in: *Corynebacterium diphtheriae* and Related Toxigenic Species, Burkovski A, Editor, Springer, Heidelberg, pp.83-94, 2013

V. Toxin Structure, Delivery and Action

Varol B., Özerman Edis B., Bektaş M.

in: *Corynebacterium diphtheriae* and Related Toxigenic Species: Genomics, Pathogenicity and Applications, Varol B., Özerman Edis B., Bektaş M., Editor, Springer Netherlands, İstanbul, pp.83-94, 2013

VI. Toxin structure, delivery and action

BEKTAŞ M.

in: *Corynebacterium diphtheriae* and Related Toxigenic Species, Burkovski, Andreas, Editor, Springer, London/Berlin , Amsterdam, pp.83-94, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of TRPM2 cation channel activation in PTZ-induced SH-SY5Y cells by patch-clamp technique: Regulatory role of valproic acid**
Ahlatcı A., Bektaş M., Tülüce Y., Yıldızhan K.
7th International Brain Research School, Isparta, Turkey, 27 June - 03 July 2022, vol.14, no.4, pp.19
- II. **COVID-19 VE AŞILAR**
Hasanoğlu S., Pehlivan S., Bektaş M.
7. ULUSLARARASI ERCİYES BİLİMSEL ARAŞTIRMALAR KONGRESİ, Kayseri, Turkey, 9 - 10 March 2022, pp.154-158
- III. **Sentetik Biyoloji Ve Biyosensörler**
Oyacı Y., Pehlivan S., Bektaş M.
AEGEAN SUMMIT 4th INTERNATIONAL APPLIED SCIENCES CONGRESS, Muğla, Turkey, 12 - 13 February 2022, pp.48-61
- IV. **Development of thermal shift assay via nucleotide binding on actin cytoskeleton**
Önsü A. K., Haciosmanoglu E., Varol B., Bektaş M.
30th Annual Biophysics Congress, Muğla, Turkey, 10 - 13 October 2018, pp.26
- V. **Endositoz sürecinde mutant difteri toksini (CRM197) ile aktin etkileşimi**
ÖZERMAN EDİS B., Haciosmanoğlu E., Ünlü A., VAROL B., BEKTAŞ M.
28-29 ulusal Biyofizik Kongresi, İstanbul, Turkey, 6 - 09 September 2017, pp.129
- VI. **LPS ile İndüklenen THP-1 Hücre Soyunda Kolşisinin Matriks Metalloproteinaz Aktivitelerine Etkisi**
VAROL B., haciosmanoğlu e., BEKTAŞ M., NURTEN R.
27. ULUSAL BİYOFİZİK KONGRESİ, Malatya, Turkey, 29 September - 03 October 2015, pp.155-156
- VII. **Sigara İçiminin Ateroskleroz'a Olan Etkilerinin Araştırılması**
Sipahi T., BEKTAŞ M., Ünlü A., Budak M., Şen S., üstündağ S., Demir M., Narlı E.
27. ULUSAL BİYOFİZİK KONGRESİ, Malatya, Turkey, 29 September - 03 October 2015, vol.P22, pp.10-15
- VIII. **Kinetics and modeling of diphtheria toxin (FA) and actin interaction**
VAROL B., ünlü a., haciosmanoğlu e., BEKTAŞ M., NURTEN R.
10th European Biophysics Congress, Dresden, Germany, 18 - 22 July 2015, pp.30
- IX. **ADP-Ribozilleyen Toksinler, Hücre İskeleti ve Protein Sentezi**
VAROL B., ÖZERMAN EDİS B., haciosmanoğlu e., BEKTAŞ M., NURTEN R.
26. ULUSAL BİYOFİZİK KONGRESİ, Tokat, Turkey, 9 - 12 September 2014, pp.24-25
- X. **Joint meeting of the Federation of European Physiological Societies (FEPS) and the Hungarian Physiological Society**
Haciosmanoğlu E., VAROL B., ÖZERMAN EDİS B., BEKTAŞ M., NURTEN R.
Release of Diphtheria Toxin Fragment A (FA) from early endosomes into the cytosol., Budapeşte, Hungary, 28 - 30 August 2014, pp.122
- XI. **Evaluation of the cytotoxic effect of Diphtheria toxin on human umbilical vein endothelial cells.**
VAROL B., ÖZERMAN EDİS B., Haciosmanoğlu E., BEKTAŞ M., NURTEN R.
Joint meeting of the Federation of European Physiological Societies (FEPS) and the Hungarian Physiological

Society, Budapeşte, Hungary, 27 - 30 August 2014, pp.168

XII. Intracellular Trafficking of Diphtheria Toxin Mutant CRM197

ÖZERMAN EDİS B., VAROL B., Hacıosmanoğlu E., BEKTAŞ M., NURTEN R.

3rd International Congress of Molecular Biology and Biotechnology, Saraybosna, Bosnia And Herzegovina, 2 - 06 June 2014, pp.26

XIII. Mutant Difteri Toksini CRM 197'nin Hücre İçi Dağılımı.

ÖZERMAN EDİS B., Hacıosmanoğlu E., Öztürk G., VAROL B., BEKTAŞ M., NURTEN R.

25. Ulusal Biyofizik Kongresi Bildiri Özet Kitabı, P12, Trabzon, 24-27 Eylül (2013), Trabzon, Turkey, 24 - 27 September 2013, pp.55

XIV. The actin cytoskeleton is involved in the endocytic process of diphtheria toxin transport

ÖZERMAN EDİS B., VAROL B., HACIOSMANOĞLU E., BEKTAŞ M., NURTEN R.

Novel Biophysical Approaches in the Investigation of the Cytoskeleton .The 27th European Cytoskeletal Forum Meeting, Pecs, Hungary, 3 - 07 November 2012, pp.105

Supported Projects

BEKTAŞ M., ÜSTÜNŞOY R., ERTAŞ T., DİNÇ B., CEYLAN A. N., Project Supported by Higher Education Institutions, Çok duvarlı karbon nanotüplerden bakteriye özgü biyosensör geliştirilmesi, 2021 - 2022

BEKTAŞ M., ÖNSÜ K. A., Project Supported by Higher Education Institutions, Aktin Modelinde ProteinLigand Etkileşimlerinin Yeni Yaklaşımlar Çerçevesinde İncelenmesi, 2018 - 2019

BEKTAŞ M., VAROL B., HACIOSMANOĞLU E., Project Supported by Higher Education Institutions, Ökaryotik Eleongasyon Faktör 2 Aktivitesine Ekstraselüler ATP'nin Etkisi, 2017 - 2018

BEKTAŞ M., Project Supported by Higher Education Institutions, İnflamatuvar Hastalıklarda Kolşisin Tedavisinin Protein Sentezi ve Hücre İskeleti Bağlamında Moleküler Mekanizmasının Aydınlatılması, 2015 - 2017

Varol B., Özerman Edis B., Hacıosmanoğlu E., Bektaş M., Gül A., Project Supported by Higher Education Institutions, Ailesel Akdeniz Ateşi Hastalarında Kolşisin Tedavisinin, Hücre İskeleti Öğeleri ve eEF2, 2013 - 2017

BEKTAŞ M., Project Supported by Higher Education Institutions, Sigara İçiminin Ateroskleroz'a Olan Etkilerinin Araştırılması, 2015 - 2015

BEKTAŞ M., Project Supported by Higher Education Institutions, Mutant Difteri Toksini CRM197nin Hücredeki Konumu, 2013 - 2014

BEKTAŞ M., Project Supported by Higher Education Institutions, Difteri toksininin hücre içine taşınmasında erken endozomun rolü, 2010 - 2011

BEKTAŞ M., Project Supported by Other Official Institutions, Aktin bağlayan proteinlerin etkileşimlerinin homoloji modellenmesi yöntemi ile, 2010 - 2011

Bektaş M., Varol B., Albeniz I., Türker Şener L., TÜBİTAK Project, Difteri toksini bağlamında apoptotik hücre modeli oluşturma ve toksinin sitotoksik etkisinin araştırılması, 2007 - 2009

BEKTAŞ M., TÜBİTAK Project, bcr/abl füzyon geni kimerik bölgesinin lentivektör aracılıklı shRNA ile baskılanması, 2007 - 2009

BEKTAŞ M., TÜBİTAK Project, Difteri toksini bağlamında apoptotik hücre modeli oluşturma ve toksinin sitotoksik, 2007 - 2009

BEKTAŞ M., Project Supported by Other Official Institutions, Biotechnology-establishment and promotion of new biotechnological techniques in Turkey, 1990 - 1992

Memberships / Tasks in Scientific Organizations

Türk Biyofizik Derneği, Member, 2000 - Continues

Scientific Refereeing

Cytothecnology, SCI Journal, February 2016
JAREM, National Scientific Refreed Journal, October 2015
Biology (TÜBİTAK) , Journal Indexed in SSCI, June 2015
Tumor Biology, SCI Journal, May 2015
Tumor Biology, SCI Journal, February 2015
Tumor Biologi, SCI Journal, June 2014
BBRC, SCI Journal, April 2006

Scientific Consultations

Tübitak, Other, Istanbul University, Istanbul Medical Faculty, Temel Tıp, Turkey, 2012 - Continues

Metrics

Publication: 56
Citation (WoS): 289
Citation (Scopus): 210
H-Index (WoS): 10
H-Index (Scopus): 9

Congress and Symposium Activities

27. ULUSAL BİYOFİZİK KONGRESİ, Attendee, Malatya, Turkey, 2015

Non Academic Experience

TÜBİTAK MAM.