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International Researcher IDs

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ScopusID: 15733010400

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Education Information

Doctorate, Istanbul University, İstanbul Tıp Fakültesi, Temel Tıp Bilimleri, Biyofizik, Turkey 2003 - 2009

Postgraduate, Istanbul University, Health Sciences Institute, Sinirbilim Anabilimdalı, Turkey 1999 - 2002

Undergraduate, Istanbul University, Faculty Of Science, Department of Biology, Turkey 1994 - 1999

Foreign Languages

English, B2 Upper Intermediate

French, B2 Upper Intermediate

Dissertations

Doctorate, Aktin filamentlerinin difteri toksini alt yapıları ile etkileşimi – Bu etkileşimde elongasyon faktörü 2'nin rolü, , Istanbul University, Temel Tıp Bilimleri, Biyofizik Anabilim Dalı, 2009

Research Areas

Life Sciences, Biophysics, Molecular Biophysics, Natural Sciences

Academic Titles / Tasks

Lecturer, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 2009 - Continues

Research Assistant, Istanbul University, Health Sciences Institute, Aziz Sançar Deneysel Tıp Araştırma Enstitüsü Bölümü, 2002 - 2002

Jury Memberships

Doctorate, Tez Savunma Jürisi, Boğaziçi Üniversitesi, September, 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Blockage of Voltage-Dependent Calcium Channels Affects Twitch Response of Rat Skeletal Muscle**
Ozerman-Edis B., Nurten A., Kara I.
NEUROCHEMICAL JOURNAL, vol.15, no.2, pp.154-158, 2021 (SCI-Expanded)
- II. **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)
- III. **Jasplakinolid ile F-aktin Stabilizasyonu Uygulanan Endotel Hücrelerinde Difteri Toksini Trafiği**
ÖZERMAN EDİS B., Hacıosmanoğlu E., VAROL B., BEKTAŞ M.
Türk Mikrobiyoloji Cemiyeti Dergisi, vol.48, no.3, pp.167-172, 2018 (SCI-Expanded)
- IV. **Cross-reacting material 197 (CRM197) affects actin cytoskeleton of endothelial cells**
Edis B., Varol B., Hacıosmanoglu E., Unlu A., Bektas M.
GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.36, no.4, pp.383-389, 2017 (SCI-Expanded)
- V. **Interleukin-1 β effect on the endogenous ADP-ribosylation and phosphorylation of eukaryotic elongation factor 2**
HACİOSMANOĞLU E., Varol B., Edis B., Bektaş M.
Cytotechnology, vol.68, no.6, pp.2659-2666, 2016 (SCI-Expanded)
- VI. **Decorin as a new treatment alternative in Peyronie's disease: Preliminary results in the rat model**
Akman T., Tefekli A., Armagan A., Kilicaslan I., Ozerman B., Tepeler A., Kadioglu A.
Andrologia, vol.45, no.2, pp.101-106, 2013 (SCI-Expanded)
- VII. **Calcium signaling: Overview and research directions of a molecular communication paradigm**
KURAN M. Ş., TUĞCU T., Edis B.
IEEE Wireless Communications, vol.19, no.5, pp.20-27, 2012 (SCI-Expanded)
- VIII. **Enhanced nerve growth factor expression by mast cells does not differ significantly between idiopathic and allergic rhinitis**
Gelincik A., Aydin F., Ozerman B., Erguven M., Aydin S., Bilir A., Genc S., Eroglu H., Colakoglu B., Erden S., et al.
Annals of Allergy, Asthma and Immunology, vol.108, no.6, pp.396-401, 2012 (SCI-Expanded)
- IX. **On diphtheria toxin fragment A release into the cytosol - Cytochalasin D effect and involvement of actin filaments and eukaryotic elongation factor 2**
Bektas M., Hacıosmanoglu 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)
- X. **Ischemia/reperfusion in rat: Antioxidative effects of enoant on EEG, oxidative stress and inflammation**
Kara I., Nurten A., Aydin M., Ozkok E., Ozen I., Ozerman B., Tuna S., Karamursel S.
Brain Injury, vol.25, no.1, pp.113-126, 2011 (SCI-Expanded)
- XI. **Energy model for communication via diffusion in nanonetworks**
Kuran M. Ş., Yilmaz H. B., Tugcu T., ÖZERMAN EDİS B.
Nano Communication Networks, vol.1, no.2, pp.86-95, 2010 (SCI-Expanded)
- XII. **The role of solid food intake in antimuscarinic-induced convulsions in fasted mice**
Nurten A., Ozerman B., Oezen I., Kara I.
Epilepsy and Behavior, vol.15, no.2, pp.142-145, 2009 (SCI-Expanded)
- XIII. **The role of solid food intake on antimuscarinic-induced convulsions in fasted mice.**
Nurten A., ÖZERMAN EDİS B., Özen İ., Kara İ.
Epilepsy Behav. 2009 Jun;15(2):142-5, vol.15, no.2, pp.142-145, 2009 (SCI-Expanded)
- XIV. **TGF- β 1 neutralizing antibodies decrease the fibrotic effects of ischemic priapism**
Sanli O., Armagan A., Kandirali E., Ozerman B., Ahmedov I., Solakoglu S., Nurten A., Tunc M., Uysal V., Kadioglu A.
International Journal of Impotence Research, vol.16, no.6, pp.492-497, 2004 (SCI-Expanded)
- XV. **The effects of different 4-aminopyridine and morphine combinations on the intensity of morphine abstinence**
Koyuncuoglu H., Nurten A., Enginar N., Ozerman B., Kara I.

Articles Published in Other Journals

- I. **Antimuscarinic-Induced Convulsions in Fasted Rats after Food Intake: EEG Patterns of Fasting, Scopolamine Treatment, and Convulsions**
Zengin Turkmen A., Nurten A., Özerman Edis B., Ozen I., Karamursel S., Kara I., , , , , et al.
Archives of Epilepsy, vol.28, no.2, pp.65-77, 2022 (ESCI)
- II. **Imaging the Nanotube Tunneling and the Organel Transfer between Endothelial Cells**
Özerman Edis B.
Uludağ Üniversitesi Tıp Fakültesi Dergisi, vol.47, no.1, pp.91-96, 2021 (Peer-Reviewed Journal)
- III. **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)
- IV. **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)

Books & Book Chapters

- I. **Bütünleştirilmiş Moleküler Ve Hücrel Biyofizik**
Nurten A., Albeniz I., Yalçın-tepe Güneştutar L., Akçakaya H., Bektaş M., Varol B., Özerman Edis B., Türker Şener L., Nurten R. (Editor)
İstanbul Tıp Kitabevi, İstanbul, 2014
- II. **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

Refereed Congress / Symposium Publications in Proceedings

- I. **MİYOFİBRİLLER ÜZERİNDEKİ DİFTERİ TOKSİNİ ETKİSİNİN İNCE YAPI DÜZEYİNDE GÖRÜNTÜLENMESİ**
ÖZERMAN EDİS B.
International Hippocrates Congress on Medical and Health Sciences, Ankara, Turkey, 1 - 03 March 2019, pp.78
- II. **Cortical EEG profiling of healthy rats with paroxetine-induced serotonergic system**
ÖZERMAN EDİS B., Eskikurt G., Nurten A., KARAMÜRSEL S.
11th FENS Forum of Neuroscience, Berlin, Germany, 7 - 11 July 2018, pp.145
- III. **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
- IV. **KRONİK PAROKSETİN UYGULAMASININ SIÇAN KORTİKAL EEG AKTİVİTESİNE ETKİSİ**
Eskikurt G., ÖZERMAN EDİS B., Nurten A., Karamürsel S.
28-29 Ulusal Biyofizik Kongresi, İstanbul, Turkey, 6 - 09 September 2017, pp.159
- V. **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
- VI. **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

VII. 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

VIII. Intracellular Trafficking of Diphtheria Toxin Mutant CRM197

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

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

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

ÖZERMAN EDİS B., Haciosmanoğlu 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

X. 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

ÖZERMAN EDİS B., Project Supported by Higher Education Institutions, Difteri Toksini Bağlamında Hücre Soylarında Sitotoksik Etki, 2014 - 2017

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

ÖZERMAN EDİS B., Project Supported by Higher Education Institutions, Mutant Difteri Toksini CRM197nin Hücreiçi Trafiği, 2014 - 2014

ÖZERMAN EDİS B., Project Supported by Higher Education Institutions, Aktin iskeletinin endositik süreçte difteri toksini taşınmasındaki yapısal desteği, 2012 - 2014

ÖZERMAN EDİS B., Project Supported by Higher Education Institutions, The actin cytoskeleton is involved in the endocytic process of diphtheria toxin transport, 2012 - 2012

ÖZERMAN EDİS B., Project Supported by Higher Education Institutions, AKTİN, ELONGASYON FAKTÖR-2 VE DİFTERİ TOKSİNİ ETKİLEŞİMLERİNİN ENDOSİTİK SÜREÇTEKİ ROLÜ, 2010 - 2010

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

Metrics

Publication: 31

Citation (WoS): 126

Citation (Scopus): 356

H-Index (WoS): 6

H-Index (Scopus): 7

Congress and Symposium Activities

International Congress on Scientific Advances (ICONSAD'21), Attendee, Balıkesir, Turkey, 2021

31. Ulusal Biyofizik Kongresi, Attendee, Adana, Turkey, 2019

International Hippocrates Congress on Medical and Health Sciences, Attendee, Ankara, Turkey, 2019

30th Annual Biophysics Congress (International), Attendee, Muğla, Turkey, 2018

11th FENS Forum of Neuroscience, Attendee, Berlin, Germany, 2018

Association of Thrace Universities 1st International Health Sciences Congress, Attendee, Edirne, Turkey, 2017

28-29. Ulusal Biyofizik Kongresi, Attendee, İstanbul, Turkey, 2017

2nd Nanotechnology and Tissue Engineering: Current Challenges and Future Prospects, Attendee, İstanbul, Turkey, 2014

Sağlık Bilimleri Alanında Proje Hazırlama, Yazma ve Yürütme Eğitimi: Enez 2014, Attendee, Edirne, Turkey, 2014

3rd International Congress of Molecular Biology and Biotechnology, Attendee, Saraybosna, Bosnia And Herzegovina, 2014

NANOTECHNOLOGY AND TISSUE ENGINEERING: CURRENT CHALLENGES & FUTURE PROSPECTS, Attendee, İstanbul, Turkey, 2013

2nd International Congress of the Molecular Biology Association of Turkey, Attendee, İstanbul, Turkey, 2013

The 27th European Cytoskeletal Forum Meeting, Attendee, Pecs, Hungary, 2012

TURKISH-FEPS PHYSIOLOGY CONGRESS, Attendee, İstanbul, Turkey, 2011

Awards

BÜYÜKYILDIRIM B. L., ÖZERMAN EDİS B., Başarı Ödülü, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, May 2015

Coaching Duties

Club Licensed Athlete, Yeşilyurt Spor Kulübü, 1996 - 1997

Non Academic Experience

CSV (Community Services Volunter)