

Personal Information

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Education Information

Doctorate, İstanbul Üniversitesi, İstanbul Tıp Fakültesi/Sağlık Bilimleri Ens/Biyofizik, Turkey 2003 - 2009

Post Graduate, İstanbul Üniversitesi, İstanbul Tıp Fakültesi/Sağlık Bilimleri Ens/Biyofizik, Turkey 2000 - 2003

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Occupational Health and Safety, İŞ GÜVENLİĞİ, halk sağlığı, 2017

Dissertations

Doctorate, DİFTERİ TOKSİNİ ALT BİRİMLERİNİN ELDESİ VE FARKLI HÜCRE SOYLARI ÜZERİNE ETKİLERİ, İstanbul University, Temel Bilimler, Biyofizik, 2009

Post Graduate, SERUMDA ADP-RİBOZİLLENEN PROTEİNLERİN TANIMLANMASI, İstanbul University, Temel Bilimler, Biyofizik, 2003

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics

Academic Titles / Tasks

Associate Professor, İstanbul University, İstanbul Medical Faculty, Biyofizik, 2017 - Continues

Research Assistant, İstanbul Üniversitesi, İstanbul Medical Faculty, Biyofizik, 2001 - Continues

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

- **Cross-reacting material 197 (CRM197) affects actin cytoskeleton of endothelial cells**
Edis B. O. , Varol B., Haciosmanoglu E., Unlu A., Bektas M.
GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.36, pp.383-389, 2017 (Journal Indexed in SCI)
- **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, pp.2659-2666, 2016 (Journal Indexed in SCI)
- **Evaluation of cytotoxicity and gelatinases activity in 3T3 fibroblast cell by root repair materials**
VAROL B., TUNA İNCE E. B. , karslı e., Kasımoğlu Y., KORUYUCU M., SEYMEN F., NURTEN R.
BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, vol.1, no.1, pp.1, 2016 (Journal Indexed in SSCI)

- **Clinical significance of serum ADP-ribosylation and NAD glycohydrolase activity in patients with colorectal cancer.**
Varol B., ÇOŞKUN Ö., Karabulut S., SERİN K. R. , Asoglu O., Albeniz I., Tas F., Nurten R.
Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine, vol.35, pp.5575-82, 2014 (Journal Indexed in SCI Expanded)
- **The cytotoxic effect of diphtheria toxin on the actin cytoskeleton**
Varol B., Bektas M., Nurten R., Bermek E.
CELLULAR & MOLECULAR BIOLOGY LETTERS, vol.17, pp.49-61, 2012 (Journal Indexed in SCI)
- **On diphtheria toxin fragment A release into the cytosol-Cytochalasin D effect and involvement of actin filaments and eukaryotic elongation factor 2.**
BEKTAŞ M., Hacıosmanoğlu E., ÖZERMAN EDİS B., VAROL B., NURTEN R.
Int J Biochem Cell Biol., no.9, pp.1365-72, 2011 (Journal Indexed in SCI Expanded)
- **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 & CELL BIOLOGY, vol.43, pp.1365-1372, 2011 (Journal Indexed in SCI)
- **Interaction of diphtheria toxin (fragment A) with actin**
Bektas M., Varol B., Nurten R., Bermek E.
CELL BIOCHEMISTRY AND FUNCTION, vol.27, pp.430-439, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Synthesis of New Anthraquinone Derivatives and Anticancer Effects on Breast Cancer Cell Lines**
Hacıosmanoğlu 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 (Refereed Journals of Other Institutions)
- **Jasplakinolid ile F-aktin Stabilizasyonu Uygulanan Endotel Hücrelerinde Diferi Toksini Trafikçi**
ÖZERMAN EDİS B., Hacıosmanoğlu E., VAROL B., BEKTAŞ M.
Türk Mikrobiyoloji Cemiyeti Dergisi, vol.48, pp.167-172, 2018 (Other Refereed National Journals)
- **Intracellular trafficking of diphtheria toxin and its mutated form, CRM197, in the endocytic pathway**
Edis B. O. , Hacıosmanoglu E., Varol B., Bektas M.
NORTHERN CLINICS OF ISTANBUL, vol.5, pp.89-95, 2018 (Journal Indexed in ESCI)
- **Intracellular trafficking of diphtheria toxin and its mutated form (CRM197) in the endocytic pathway**
ÖZERMAN EDİS B., Hacıosmanoğlu E., VAROL B., BEKTAŞ M.
NORTHERN CLINICS OF ISTANBUL, vol.4, 2017 (Other Refereed National Journals)
- **İstanbul Tıp Fakültesinde 31 Yıllık Bilimsel Araştırma Sonuçları**
TEFİK T., VAROL B., ÖZERMAN EDİS B., BEKTAŞ M., KADIOĞLU A.
Yükseköğretim Dergisi/Journal of Higher Education, vol.3, pp.53-60, 2013 (National Refreed University Journal)
- **31 Yıllık Bilimsel Araştırma Sonuçları**
VAROL B.
yükseköğretim, vol.3, pp.53-60, 2013 (Other Refereed National Journals)
- **Eritrosit Endotel Hücre Etkileşimlerinde CD38 ve CD31'in Rolü.**
VAROL B.
cardiovascular sciences, vol.23, pp.212-220, 2011 (National Refreed University Journal)
- **İstanbul Tıp Fakültesini kazanan öğrencilere uygulanan anket sonuçları:2001-2002 eğitim öğretim yılı sonuçları**
NURTEN R., VAROL B.
Tıp Eğitim Dünyası, İstanbul Tıp Fakültesi, pp.29-32, 2002 (National Refreed University Journal)

Book & Book Chapters

- **İntegrated molecular and cellular biophysics**

TÜRKER ŞENER L., albeniz i., nurten r., yalçın-tepe güneş-tutar l., akçakaya h., beктаş m., varol b., özerman ediz b. İstanbul Tıp Kitabevi, İstanbul, 2014

- **in: Corynebacterium diphtheriae and Related Toxigenic Species**

VAROL B., ÖZERMAN EDİS B., BEKTAŞ M.

Toxin Structure Delivery and Action, Burkovski A, Editor, Springer, Heidelberg, pp.83-94, 2013

- **in: Corynebacterium diphtheriae and Related Toxigenic Species**

VAROL B., ÖZERMAN EDİS B., BEKTAŞ M.

Toxin Structure Delivery and Action, Burkovski A, Editor, Springer, Heidelberg, pp.83-94, 2013

- **in: Corynebacterium diphtheriae and Related Toxigenic Species: Genomics, Pathogenicity and Applications**

VAROL B., ÖZERMAN EDİS B., BEKTAŞ M.

Toxin Structure, Delivery and Action, Varol B., Özerman Edis B., Bektaş M., Editor, Springer Netherlands, Heidelberg, pp.83-94, 2013

Refereed Congress / Symposium Publications in Proceedings

- **Evaluation of in vitro cytotoxicity of root repair materials on 3T3 cells**

KASIMOĞLU Y., VAROL B., Tuna B. E. , Karslı E., SEYMEN F., GENÇAY K.

13th Congress of the European Academy of Paediatric Dentistry, Serbia And Montenegro, pp.1

- **Examination of Cytotoxic and Apoptotic Effects in Pulp Capping Materials used in Dentistry**

Bektaş I., TUNA İNCE E. B. , VAROL B., KORUYUCU M., KASIMOĞLU Y., Önsü K. A.

Istanbul University Faculty of Dentistry Students' Research Club 25th Scientific Meeting, İstanbul, Turkey, 9 - 11 May 2018, pp.1

- **Dişhekimliğinde kullanılan kuafaj materyallerinin sitotoksik ve apoptotik özelliklerinin incelenmesi.**

Bektaş I., TUNA İNCE E. B. , VAROL B., KORUYUCU M., KASIMOĞLU Y., Önsü K. A.

İstanbul Üniversitesi Diş Hekimliği Fakültesi Araştırma Kulübü 25. Bilimsel Toplantısı, İstanbul, Turkey, 9 - 11 May 2018, pp.1

- **Endositoz sürecinde mutant difteri toksini (CRM197) ile aktin etkileşimi**

ÖZERMAN EDİS B., Hacıosmanoğlu E., Ünlü A., VAROL B., BEKTAŞ M.

28-29 ulusal Biyofizik Kongresi, İstanbul, Turkey, 6 - 09 September 2017, pp.129

- **Evaluation of in vitro cytotoxicity of Root repair materials on 3T3 cells**

KASIMOĞLU Y., VAROL B., TUNA İNCE E. B. , Karslı E., SEYMEN F.

13th Congress of the European Academy of Paediatric Dentistry, Belgrad, Serbia And Montenegro, 2 - 05 June 2016, pp.304

- **LPS ile İndüklene THP-1 Hücre Soyunda Kolşisinin Matriks Metalloproteinaz Aktivitelerine Etkisi**

VAROL B., hacıosmanoğlu e., BEKTAŞ M., NURTEN R.

27. ULUSAL BİYOFİZİK KONGRESİ, Malatya, Turkey, 29 September - 03 October 2015, pp.155-156

- **Kinetics and modeling of diphtheria toxin (FA) and actin interaction**

VAROL B., ünlü a., hacıosmanoğlu e., BEKTAŞ M., NURTEN R.

10th European Biophysics Congress, Dresden, Germany, 18 - 22 July 2015, pp.30

- **ADP-Ribozillen Toksinler, Hücre İskeleti ve Protein Sentezi**

VAROL B., ÖZERMAN EDİS B., hacıosmanoğlu e., BEKTAŞ M., NURTEN R.

26. ULUSAL BİYOFİZİK KONGRESİ, Tokat, Turkey, 9 - 12 September 2014, pp.24-25

- **Joint meeting of the Federation of European Physiological Societies (FEPS) and the Hungarian Physiological Society**

Hacıosmanoğlu 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

- **Evaluation of the cytotoxic effect of Diphtheria toxin on human umbilical vein endothelial cells.**

VAROL B., ÖZERMAN EDİS B., Hacıosmanoğlu 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

- **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

- **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

- **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

Other Publications

- **Rektum Kanseri Hastalarda Serum ADP-ribozillenme ve Matris Metalloproteinaz Etkinliklerinin Değerlendirilmesi**

VAROL B., ALBENİZ I., NURTEN R.

Presentation, pp.60, 2014

Supported Projects

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

VAROL B., TUBITAK Project, Difteri toksini bağlamında apoptotik hücre modeli oluşturma ve, 2007 - 2009

Memberships / Tasks in Scientific Organizations

Biophysical Society, Member, 2003 - Continues

Türk Biyofizik Derneği, Member, 2001 - Continues

Scientific Refereeing

Tumor Biology., SCI Journal, January 2016

Biochemistry and Biotechnology Research, Other Indexed Journal, November 2015

Invited Congress and Symposium Activities

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

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

25.Ulusal Biyofizik Kongresi, Attendee, Turkey, 2013

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

23.Ulusal Biyofizik kongresi, Attendee, Edirne, Turkey, 2011

Turkish-FEPS Physiology Congress, Attendee, Turkey, 2011

22.Ulusal Biyofizik Kongresi, Attendee, Aydın, Turkey, 2010

20. Ulusal Biyofizik Kongresi, Attendee, Mersin, Turkey, 2008

19.Ulusal Biyofizik Kongresi, Attendee, Konya, Turkey, 2007

5.Tıbbi Biyolojik Bilimler Öğrenci Sempozyumu, Attendee, İstanbul, Turkey, 2006

17.Ulusal Biyofizik Kongresi, Attendee, İzmir, Turkey, 2005

16.Ulusal Biyofizik Kongresi, Attendee, Ankara, Turkey, 2004

15.Ulusal Biyofizik Kongresi, Attendee, Denizli, Turkey, 2003

Citations

Total Citations (WOS):27

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Scholarships

Arařtırma bursu, TUBITAK, 2005 - Continues