Prof. TAMER ZEREN

Personal Information

Email: tzeren@cbu.edu.tr
Web: https://avesis.mcbu.edu.tr/tzeren

International Researcher IDs
ScholarID: paLq5u0AAAAJ
ORCID: 0000-0002-6218-8470
Publons / Web Of Science ResearcherID: EHR-2154-2022
ScopusID: 6603493264
Yoksis Researcher ID: 113723

Education

Doctorate, University of Minnesota, United States Of America 1994 - 1998
Undergraduate, Ege University, Turkey 1982 - 1988

Research Areas

Avesis Research Areas: Medicine, Health Sciences, Life Sciences
WoS Research Areas: Natural Sciences (Sci)

Academic Positions

Associate Professor, 2009 - Present
Assistant Professor, 2000 - 2008
Expert, 1999 - 1999
Research Assistant, 1993 - 1998

Academic and Administrative Experience

2000 - Present

Courses

Doctorate
Biomechanics, Doctorate, 2025 - 2026
Circulatory and Respiratory Dynamics, Doctorate, 2025 - 2026
Radiation Biophysics, Doctorate, 2025 - 2026
Biophysics of Vision and Hearing, Doctorate, 2025 - 2026
Undergraduate
BİYOFİZİK, Undergraduate, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013, 2011-2012, 2010-2011, 2009-2010, 2008-2009, 2007-2008, 2006-2007, 2005-2006, 2004-2005, 2003-2004, 2002-2003, 2001-2002, 2000-2001

BECERİ UYGULAMASI, Undergraduate, 2016-2017, 2014-2015, 2013-2014, 2012-2013

Supervised Theses

ZEREN T., Tekrarlayan gebelik kayıplarında ısı şok proteinlerinden HSP 70'in ekspresyonu, Postgraduate, T.ÖZEL(Student), 2024

Zeren T., Sağlıklı genç erkek ve kadın bireylerde solunum fonksiyon testlerinin analizi, Postgraduate, F.AYDIN(Student), 2021

ZEREN T., ÖZBEK M., Farelerde sodyum kanal blokajına bağlı oluşan elektrokardiyografik değişikliklerin spektral güç yoğunluğu analizi, Postgraduate, A.GEMİCİ(Student), 2019

Articles

I. **Application of the nonlinear methods in pneumocardiogram signals**
Yılmaz N., Akıllı M., ÖZBEK M., ZEREN T., Akdeniz K. G.
Journal of Biological Physics, vol.46, no.2, pp.209-222, 2020 (SCI-Expanded, Scopus)

II. **Significance of using a nonlinear analysis technique, the lyapunov exponent, on the understanding of the dynamics of the cardiorespiratory system in rats**
ZEREN T., ÖZBEK M., KUTLU N., Akilli M.
Turkish Journal of Medical Sciences, vol.46, no.1, pp.159-165, 2016 (SCI-Expanded, Scopus, TRDizin)

III. **Significance of apoptosis related proteins on malignant transformation of ovarian tumors: A comparison between Bcl-2/Bax ratio and p53 immunoreactivity**
ZEREN T., Inan S., VATANSEVER H. S., Sayhan S.
Acta Histochemica, vol.116, no.8, pp.1251-1258, 2014 (SCI-Expanded, Scopus)

IV. **Transdisciplinary training between physics and biology led to the development of the hydrodynamics laws**
ZEREN T.
CBE Life Sciences Education, vol.12, no.4, pp.584-585, 2013 (SCI-Expanded, Scopus)

V. **A physical model of the thermodilution method: Influences of the variations of experimental setup on the accuracy of flow rate estimation**
ÖZBEK M., ÖZEL H. F., Ekerbiçer N., ZEREN T.
Biomedizinische Technik, vol.56, no.1, pp.59-64, 2011 (SCI-Expanded, Scopus)

VI. **The effects of DBcAMP on the expression of eNOS, iNOS and TGF-beta in rat heart tissue**
Ekerbicer N., İNAN S., Tarakci F., ZEREN T.
Biotechnic and Histochemistry, vol.84, no.2, pp.47-54, 2009 (SCI-Expanded, Scopus)

VII. **Significance of tyrosine kinase activity on malign transformation of ovarian tumors: A comparison between EGF-R and TGF-α**
ZEREN T., Inan S., Seda Vatansever H., Ekerbicer N., Sayhan S.
Acta Histochemica, vol.110, no.3, pp.256-263, 2008 (SCI-Expanded, Scopus)

VIII. **Sensitively recorded breathing signals of rats and their nonlinear dynamics**
ZEREN T., ÖZBEK M., Ekerbiçer N., YALÇIN G. Ç., AKDENİZ K.
Journal of Biochemical and Biophysical Methods, vol.70, no.4, pp.573-577, 2007 (SCI-Expanded, Scopus)

IX. **Physical and biological sciences meet in an equation: "Bernoulli" Fizik ve biyolojik bilimlerin buluştuğu bir denklem: "Bernoulli"**
ZEREN T., Ekerbiçer N.
SENDROM, vol.18, no.7, pp.61-63, 2006 (Scopus)

X. **Tyrosine kinase inhibition and chemotherapy Tirozin kinaz inhibisyonu ve kemoterapi**
ZEREN T., Ekerbiçer N.
SENDROM, vol.16, no.4, pp.45-48, 2004 (Scopus)

XI. **Testosterone and nonverbal intelligence in right-handed men with successful and unsuccessful educational levels**
KUTLU N., Ekerbicer N., ARI Z., Uyanik B., Zeren T., Tan U.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.111, no.1-2, pp.1-9, 2001 (SCI-Expanded, Scopus)

XII. **Treatment of human B-cell precursor leukemia in SCID mice by using a combination of the Anti-CD19 immunotoxin B43-PAP with the standard chemotherapeutic drugs vincristine, methylprednisolone, and L-asparaginase**
Ek O., Gaynon P., Zeren T., Chelstrom L., Myers D., Uckun F.
LEUKEMIA & LYMPHOMA, vol.31, no.1-2, pp.143-149, 1998 (SCI-Expanded, Scopus)

XIII. ***In vivo* toxicity and pharmacokinetic features of B43(anti-CD19)-Genistein immunoconjugate**
Ek O., Yanishevski Y., Zeren T., Waurzyniak B., Gunther R., Chelstrom L., Chandan-Langlie M., Schneider E., Myers D., Evans W., et al.
LEUKEMIA & LYMPHOMA, vol.30, no.3-4, pp.389-394, 1998 (SCI-Expanded, Scopus)

XIV. **In vivo toxicity, pharmacokinetics, and anticancer activity of genistein linked to recombinant human epidermal growth factor**
Uckun F., Narla R., Zeren T., Yanishevski Y., Myers D., Waurzyniak B., Ek O., Schneider E., Messinger Y., Chelstrom L., et al.
CLINICAL CANCER RESEARCH, vol.4, no.5, pp.1125-1134, 1998 (SCI-Expanded, Scopus)

XV. **Cytotoxic activity of epidermal growth factor-genistein against breast cancer cells**
Uckun F., Narla R., Jun X., Zeren T., Venkatachalam T., Waddick K., Rostostev A., Myers D.
CLINICAL CANCER RESEARCH, vol.4, no.4, pp.901-912, 1998 (SCI-Expanded, Scopus)

XVI. **In vivo toxicity and pharmacokinetic features of B43 (Anti-CD19)-Genistein immunoconjugate in nonhuman primates**
Messinger Y., Yanishevski Y., Ek O., Zeren T., Waurzyniak B., Gunther R., Chelstrom L., Chandan-Langlie M., Schneider E., Myers D., et al.
CLINICAL CANCER RESEARCH, vol.4, no.1, pp.165-170, 1998 (SCI-Expanded, Scopus)

XVII. **In vivo toxicity, pharmacokinetic features and immunogenicity of B43 (ANTI-CD19)-genistein immunoconjugate in mice and non-human primates.**
Messinger Y., Yanishevski Y., Ek O., Zeren T., Waurzyniak B., Gunther R., Chelstrom L., ChandanLanglie M., Schneider E., Myers D., et al.
BLOOD, vol.90, no.10, pp.1467, 1997 (SCI-Expanded, Scopus)

XVIII. **In vivo toxicity, pharmacokinetics, and antileukemic activity of TXU (anti-CD7)-pokeweed antiviral protein immunotoxin**
Waurzyniak B., Schneider E., Tumer N., Yanishevski Y., Gunther R., Chelstrom L., Wendorf H., Myers D., Irvin J., Messinger Y., et al.
CLINICAL CANCER RESEARCH, vol.3, no.6, pp.881-890, 1997 (SCI-Expanded, Scopus)

XIX. **Cellular expression of antiapoptotic BCL-2 oncoprotein in newly diagnosed childhood acute lymphoblastic leukemia: A children's cancer group study**
Uckun F., Yang Z., Sather H., Steinherz P., Nachman J., Bostrom B., Crotty L., Sarquis M., Ek O., Zeren T., et al.
BLOOD, vol.89, no.10, pp.3769-3777, 1997 (SCI-Expanded, Scopus)

XX. **Pharmacokinetic features, immunogenicity, and toxicity of B43(anti-CD19)-pokeweed antiviral protein immunotoxin in cynomolgus monkeys**
Uckun F., Yanishevski Y., Tumer N., Waurzyniak B., Messinger Y., Chelstrom L., Lisowski E., Ek O., Zeren T., Wendorf H., et al.
CLINICAL CANCER RESEARCH, vol.3, no.3, pp.325-337, 1997 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Lyapunov Exponents and Frequency Domain Analysis (FFT) of Heart Rate Time Series in Both Spontaneously Breathing and Artificially Ventilated Mice**

ÖZBEK M., KAZDAĞLI H., ZEREN T., ÖZEL H. F., AKILLI M., YILMAZ N.
Turkish Physical Society 34th International Physics Congress, MUĞLA-BODRUM, Turkey, 05 September 2018, vol.2042, pp.519, (Summary Text)

II. **The clinical significance of nonlinear analysis of time series of biological signals**
ZEREN T.
32. International Physics Congress, Bodrum., 6 - 09 September 2016

III. **Is it physiological or pathological to be chaotic**
ZEREN T.
XVI. International Symposium on "Disordered Systems: Theory and Its Applications", İstanbul, 25 - 27 May 2016

IV. **Farklı Tip Over Tümörlerinde P53 Protein Dağılımı ile Programlı Hücre Ölümü Arasındaki İlişkisi**
ZEREN T., İNAN V. S., VATANSEVER H. S., Sevil S.
Türk Biyofizik Derneği 27. Ulusal Biyofizik Kongresi, Turkey, 29 September - 03 October 2015, (Summary Text)

V. **Heart Rate Variability Analysis on Anesthetized And Anti Arrhythmic Injected Mice**
KAZDAĞLI H., ALPAY Ş., ÖZEL H. F., ZEREN T., ÖZBEK M.
XIV. International Symposium on "Disorder System: Theory and Its Applications", 21 - 25 August 2014, (Summary Text)

VI. **Nonlinear analysis of EEG signals using Lyapunov exponents in patients with epilepsy**
ZEREN T., AKILLI M., YALÇIN G. Ç., YILMAZ A., YILMAZ H., KUTLU N., AKDENİZ K. G.
2nd International Biophysics Congress and Biotechnology at GAP (Souheastern Anatolian Project) & 21 st National Biophysics Congress, Diyarbakır, Turkey, 5 - 09 October 2009, (Summary Text)

VII. **Epileptik Hastalarda EEG sinyallerinin Kaotik Karakterleri**
AKILLI M., YILMAZ A., YALÇIN G. Ç., AKDENİZ K. G., KUTLU N., ZEREN T., YILMAZ H.
Turkish Physical Society 26th International Physics Congress, MUĞLA-BODRUM, Turkey, 24 - 27 September 2009, (Summary Text)

VIII. **Sağlak Epileptik Hastaların EEG Sinyallerinin Doğrusalsızlık Analizlerinin Laterizasyonn ile İlişkisi**
KUTLU N., ZEREN T., YILMAZ H., AKILLI M., YALÇIN G. Ç., YILMAZ A., AKDENİZ K. G.
8. Ulusal Sinirbilim Kongresi, Bolu, Turkey, 18 - 22 April 2009

IX. **Farklı viskoziteli plazma hacim genişleticilerin sıçanlardaki in vivo etkileri**
TARAKÇI F., ÖZEL H. F., EKERBİÇER N., ÖZBEK M., ZEREN T.
31. Ulusal Fizyoloji Kongresi, Gaziantep, Turkey, 27 - 30 September 2005, pp.259, (Summary Text)

X. **Sayısal termodilüsyon modelinde enjeksiyon sıcaklığı ve hacmine bağlı kardiyak output sonuçları**
ÖZEL H. F., ÖZBEK M., EKERBİÇER N., ZEREN T.
30. Ulusal Fizyoloji Kongresi, Konya, Turkey, 31 August - 03 September 2004, vol.14, pp.78, (Summary Text)

Funded Projects

PROJE B. E., KARAKOYUN ÇELİK Ö., ZEREN T., AVCIBAŞI U., YÜKSEL M. B., DEMİROĞLU H., Project Supported by Higher Education Institutions, BAP Research Project, Boron Nötron Yakalama Terapisinde (Bnct) Kullanılmak Üzere (6-Fluoro-2,4,5-Trihydroxyoxan-3-Yl)Boronic Acid (10b-18f-Dg) Sentezi, 2014 - 2016

ZEREN T., Project Supported by Higher Education Institutions, Boron nötron yakalama terapisinde BNCT kullanılmak üzere 6 fluoro 2 4 5 trihydroxyoxan 3 yl boronic acid 10B 18F DG sentezi, 2014 - 2016

KUTLU N., ZEREN T., Sağlak Epileptik Hastaların EEG Sinyallerinin Doğrusalsızlık Analizlerinin Lateralizasyon ile İlişkisi, 2012 - 2013

ÖZBEK M., ZEREN T., EKERBİÇER N., Project Supported by Higher Education Institutions, BAP Research Project, Kalp Atım Volümü Ölçümü İçin ?Yeni Bir Kardiyografi Metodu?Ve Sayısal Analizi., 2002 - 2005

ZEREN T., Kalp atım volümü ölçümü için yeni bir Kardiografi metodu ve sayısal analizi, Continues

ZEREN T., Over kanserlerinde epidermal büyüme faktörü reseptörü ve dönüştürücü büyüme faktörü nın apoptosis üzerine etkisinin immunohistokimyasal yöntemlerle değerlendirilmesi, Continues

ZEREN T., Plazma Hacmini Genişleten Solüsyonların Hipovolemide Kardiyovasküler Parametrelere ve Total Kan Volümü Üzerine Etkilerinin Araştırılması, Continues

Metrics

Publication: 31
Citation (WoS): 404
Citation (Scopus): 438
H-Index (WoS): 11
H-Index (Scopus): 11

Non Academic Experience

Sağlık Bakanlığı Manisa II Nolu Sağlık Ocağı, Doktor
Sağlık Bakanlığı Manisa Alaşehir Kemaliye Sağlık Ocağı , Doktor
Sağlık Bakanlığı Kars I Nolu Sağlık Ocağı , Doktor
Sağlık Bakanlığı Kars Arpaçay Başgediker Sağlık Ocağı , Doktor