

Prof. MUSTAFA GÜVEN

Personal Information

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Address: Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Biyomedikal Mühendisliği Bölümü

Education Information

Doctorate, Cukurova University, Sağlık Bilimleri Enstitüsü , Biyofizik, Turkey 1997 - 2003

Under Graduate, Dicle University, Tıp Fakültesi, Turkey 1978 - 1985

Dissertations

Doctorate, Pulsu elektromanyetik alanın rejenere olan sıçan siyatik sinir demetinde sodyum kanallarına etkisinin incelenmesi, Cukurova University, Sağlık Bilimleri Enstitüsü, Biyofizik Anabilimdalı, 2003

Research Areas

Biomedical Engineering, Bioengineering and MEMS, Bioinstrumentation and Microelectromechanical Systems (MEMS), Biomedical Image Processing, Biomedical Image Processing, Biosignal Processing, Biosignal Processing, Life Sciences, Biophysics, Neurobiophysics, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Biyomedikal Mühendisliği Bölümü, 2015 - Continues

Associate Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Biyomedikal Mühendisliği, 2011 - Continues

Associate Professor, Cukurova University, Tıp Fakültesi, Temel Tıp Bilimleri, 2009 - 2011

Lecturer PhD, Cukurova University, Tıp Fakültesi, Temel Tıp Bilimleri, 1999 - 2009

Professional Experience

Courses

Biyolojik Sistemler ve Radyasyon, Under Graduate, 2014 - 2015

Radyasyon ve Nükleer Tıp, Under Graduate, 2013 - 2014

Biyofiziksel temel veri analiz teknikleri, Post Graduate, 2013 - 2014

Nöronal iletişim devre modeli , Post Graduate, 2013 - 2014

İnsan Anatomisi ve Fizyolojisi, Under Graduate, 2013 - 2014

Medikal Elektronik ve Enstumentasyon1 , Post Graduate, 2013 - 2014

ADVISING TESISES

GÜVEN M., Cengizler, Çağlar., ? A Fluid Dynamics Based Image Segmentation Approach And Pap-Smear Image Data Classification?, Post Graduate, Ç.Cengizler(Student), 2013

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

- I. **Investigation of the Effect of Macrophage-Mediated Pulsed Magnetic Field to the Sciatic Nerve Regeneration**
Kahraman I, GÜVEN M., DOKUYUCU R, Sefil F., GÜNAY İ.
ACTA PHYSIOLOGICA, vol.215, pp.67-68, 2015 (Journal Indexed in SCI)
- II. **Data cluster analysis-based classification of overlapping nuclei in Pap smear samples**
GÜVEN M., CENGİZLER Ç.
BIOMEDICAL ENGINEERING ONLINE, vol.13, 2014 (Journal Indexed in SCI)
- III. **A fluid dynamics-based deformable model for segmentation of cervical cell images**
CENGİZLER Ç., GÜVEN M., AVCI M.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.8, 2014 (Journal Indexed in SCI)
- IV. **Enriched environment has limited capacity for the correction of hippocampal memory-dependent schizoid behaviors in rats with early postnatal NMDAR dysfunction**
Melik E., Babar E., Kocahan S., GÜVEN M., AKILLIOĞLU K.
INTERNATIONAL JOURNAL OF DEVELOPMENTAL NEUROSCIENCE, vol.33, pp.22-28, 2014 (Journal Indexed in SCI)
- V. **Effect of Tramadol on Peripheral Nerves: An In Vitro Electrophysiological Study on the Sural and Tibial Nerves of Rats**
GÜVEN M., Kahraman I., Gunes Y., GÜNAY İ.
TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.31, pp.30-38, 2011 (Journal Indexed in SCI)
- VI. **The conduction block produced by oxcarbazepine in the isolated rat sciatic nerve: a comparison with lamotrigine**
GÜVEN M., Kahraman I., Koc F., BOZDEMİR H., Sarica Y., GÜNAY İ.
NEUROLOGICAL RESEARCH, vol.33, pp.68-74, 2011 (Journal Indexed in SCI)
- VII. **The Effects of Oxcarbazepine on 4-Aminopyridine-Induced Afterpotentials on Isolated Rat Sural Nerves**
GÜVEN M., Kahraman I., Koc F., BOZDEMİR H., Sarica Y., GÜNAY İ.
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.27, pp.139-149, 2010 (Journal Indexed in SCI)
- VIII. **The actions of lamotrigine and levetiracetam on the conduction properties of isolated rat sciatic nerve**
Güven M., Bozdemir H., Gunay I., Sarica Y., Kahraman I., Koc F.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.553, pp.129-134, 2006 (Journal Indexed in SCI)
- IX. **Effects of AP5 infusion into the lateral ventricle on the activities and hippocampal electrical patterns of sleep episodes in rats**
Melik E., Babar E., Guven M.
PHYSIOLOGY & BEHAVIOR, vol.87, pp.377-382, 2006 (Journal Indexed in SCI)
- X. **Effect of pulsed magnetic field on regenerating rat sciatic nerve: An in-vitro electrophysiologic study**
GUVEN M., Gunay I., OZGUNEN K. T. , ZORLUDEMİR S.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.115, pp.881-892, 2005 (Journal Indexed in SCI)
- XI. **Conduction blocks of lidocaine on crushed rat sciatic nerve: An in-vitro study**
GUVEN M., OZGUNEN K. T. , Gunay I.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.115, pp.725-734, 2005 (Journal Indexed in SCI)
- XII. **Effects of tramadol on nerve action potentials in rat: Comparisons with benzocaine and lidocaine**
GUVEN M., Mert T., Gunay I.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.115, pp.339-349, 2005 (Journal Indexed in SCI)
- XIII. **Population-level right-paw preference in rats assessed by a new computerized food-reaching test**
Güven M., Elalmis D. D. , Binokay S., Tan U.

- INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.113, pp.1675-1689, 2003 (Journal Indexed in SCI)
- XIV. **Differential effects of lidocaine and tramadol on modified nerve impulse by 4-aminopyridine in rats**
Mert T., Gunes Y., Guven M., Gunay I., Gocmen C.
PHARMACOLOGY, vol.69, pp.68-73, 2003 (Journal Indexed in SCI)
- XV. **Effects of calcium and magnesium on peripheral nerve conduction**
Mert T., Gunes Y., Guven M., Gunay I., Ozcengiz D.
POLISH JOURNAL OF PHARMACOLOGY, vol.55, pp.25-30, 2003 (Journal Indexed in SCI)
- XVI. **Comparison of nerve conduction blocks by an opioid and a local anesthetic**
Mert T., Gunes Y., Guven M., Gunay I., Ozcengiz D.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.439, pp.77-81, 2002 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **An Internal Clustering Validation Based Fitness Approach for Meta-Heuristic Diagnosis of Cervical Cancer**
ÜN M. K. , GÜVEN M., CENGİZLER Ç., ERDOĞAN Ş., UĞUZ A. H.
Frontiers in Signal Processing, vol.4, pp.57-67, 2020 (Refereed Journals of Other Institutions)
- II. **An Investigation of Correlation between Electrophysiological and Functional Recovery after the Sciatic Nerve Injury**
GÜVEN M., Kahraman İ., Günay İ.
ÇUKUROVA MEDICAL JOURNAL, no.4, pp.177-185, 2012 (National Refreed University Journal)
- III. **The Biopotentials and Measuring Devices**
GÜVEN M.
Archives Medical Review Journal, no.3, pp.174-188, 2012 (National Refreed University Journal)
- IV. **Periferik sinir yaralanmalarında aksiyon potansiyeli iletimi ve Na⁺ kanalları**
GÜVEN M., Günay İ.
Çukurova Üniversitesi Arşiv dergisi, no.2, pp.322-334, 2005 (National Refreed University Journal)
- V. **Ag/Agcl Elektrotlar ve Düşük Maliyetli Bir Klorlama Sistemi**
GÜVEN M., Mert T., Günay İ.
Çukurova Üniversitesi Sağlık Bilimleri Dergisi, no.2, pp.1-6, 2002 (National Refreed University Journal)
- VI. **Blocking Action Of Tramadol On Nerve Conduction**
Mert T., Güneş Y., GÜVEN M., Özcengiz D.
Internet Journal of Pharmacology, no.1, pp.1-2, 2001 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **OBJECTIVE METHOD FOR THE EVALUATION OF INTESTINAL MOTILITY AFTER COLORECTAL SURGERY: ACOUSTIC ANALYSIS**
RENCÜZOĞULLARI A., ÜNAL A. G. , CENGİZLER Ç., GÜVEN M., YALAV O., DALCI K., ERAY İ. C. , SÖNMEZ H.
Conference: Society of Coloproctology 11th Scientific Meeting, Milan, Italy, 28 - 30 September 2016
- II. **DeneySEL Siyatik Sinir Yaralanmalarında Betametazon ve Sinir Büyüme Faktörünün Sinir Rejenerasyonuna Ultrastrüktürel Etkileri.**
SENCAR GÜNDOĞDU L., ÖZGÜR H., GÜVEN M., TULİ A., GÜNAY İ., KAHRAMAN İ., POLAT S.
XVIII. Ulusal Elektron Mikroskopi Kongresi, Eskişehir, Turkey, 26 - 29 August 2007, pp.172

Supported Projects

AVCI M., GÜVEN M., BAYSAL C. V. , AYDIN A., İSTANBULLU M., ÖDEMİŞ E., KESKİNOĞLU C., Project Supported by Higher

Education Institutions, BİYOMEDİKAL MÜHENDİSLİĞİ BÖLÜMÜ LİSANS ÖĞRENCİ LABORATUVARLARININ GENİŞLETİLMESİ VE GELİŞTİRİLMESİ, 2018 - 2019

AYDIN A, GÜVEN M., EROĞLU D. A. , Project Supported by Higher Education Institutions, Taşınabilir EEG Monitör Sistemi İçin Donanım ve Yazılım Geliştirme Projesi, 2016 - 2019

GÜVEN S. S. , GÜVEN M., Project Supported by Higher Education Institutions, Fonksiyonel olarak derecelenmiş sandviç plakların termal burkulma analizi, 2016 - 2017

Citations

Total Citations (WOS):221

h-index (WOS):7