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Education Information

Doctorate, University of Glasgow, England 1974 - 1978

Undergraduate, Ege University, Diř Hekimlięi Fakltesi, Turkey 1968 - 1973

Dissertations

Doctorate, EFFECT OF JAW SEPARATION ON MASTICATORY, University of Glasgow, 1978

Academic Titles / Tasks

Professor, Koc University, Tıp Fakltesi, 2011 - Continues

Professor, Koc University, Tıp Fakltesi, Tıp Pr. (İngilizce) (cretli), 2011 - 2016

Professor, Ege University, Beyin Arařtırmaları Uygulama Ve Arařtırma Merkezi, 2007 - 2010

Associate Professor, University of Adelaide, Medicine, Physiology, 1983 - 2006

Associate Professor, Hacettepe University, Tıp Fakltesi, Temel Tıp Bilimleri Blm, 1979 - 1984

Advising Theses

KEMAL SITKI T., Discovery on the profile of postsynaptic potentials in human motoneurons, Doctorate,

B.TOPKARA(Student), 2021

KEMAL SITKI T., Investigating the synaptic physiology of renshaw cells and their influence on motoneuron degeneration,

Doctorate, M.GRKEM(Student), 2019

KEMAL SITKI T., Contamination of the EEG by postural activity of temporalis muscle: single motor unit approach to

evaluate the extent of muscle interference, Doctorate, G.YILMAZ(Student), 2019

KEMAL SITKI T., Standardization of maximal voluntary isometric contraction (MVIC) measurements from the elbow

flexors, Postgraduate, B.SELN(Student), 2018

KEMAL SITKI T., Development of anthropomorphic prosthetic hand and its control scheme for transhumeral amputee,

Doctorate, S.SHAMS(Student), 2017

KEMAL SITKI T., Interference of tonic muscle activity on the scalp recorded EEG signal, Postgraduate,

G.YILMAZ(Student), 2014

KEMAL SITKI T., Biyolojik sinir yolaklarının kendini-rgtleyen etmenler kullanılarak benzetilmesi, Doctorate,

.GRCAN(Student), 2013

KEMAL SITKI T., Ağrı oluşturan lazer ve elektrik uyarısıyla kaslarda oluşan refleks cevap ve kütanöz sessiz periyodun incelenmesi, Doctorate, M.CEMAL(Student), 2010

Jury Memberships

Doctoral Examination, Doctoral Examination, Anadolu University, May, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Single motor unit estimation of the cutaneous silent period in ALS**
Arslan B. T., Görkem Özyurt M., İŞAK B., Cecen S., TÜRKER K. S.
Clinical Neurophysiology, vol.157, pp.110-119, 2024 (SCI-Expanded)
- II. **A reliability study on the cumulative averaging method for estimating effective stimulus time in vibration studies**
Kilic A., Soytürk G., Karaoglu A., Topkara Arslan B., Karacan I., Türker K. S.
Journal of Electromyography and Kinesiology, vol.70, 2023 (SCI-Expanded)
- III. **Estimating and minimizing movement artifacts in surface electromyogram**
Karacan I., TOPKARA ARSLAN B., KARAOĞLU A., Aydın T., Gray S., Ugan P., TÜRKER K. S.
Journal of Electromyography and Kinesiology, vol.70, 2023 (SCI-Expanded)
- IV. **The reflex mechanism underlying the neuromuscular effects of whole-body vibration: Is it the tonic vibration reflex?**
Corum M., Topkara B., Kokce M., Ozkan M., Bucak O. F., Aytüre L., Karacan I., Türker K. S.
Journal of Musculoskeletal Neuronal Interactions, vol.22, no.1, pp.37-42, 2022 (SCI-Expanded)
- V. **An opinion on the 'delayed spikes' in human motoneurons**
Türker K. S.
Experimental Brain Research, vol.240, no.1, 2022 (SCI-Expanded)
- VI. **A new method to determine stretch reflex latency**
Topkara B., Aydın T., Corum M., Karaoglu A., Ekici Zincirci D., S Bugdayci D., Ones K., Paker N., Kesiktas N., Karacan I., et al.
Muscle and Nerve, vol.64, no.6, pp.726-733, 2021 (SCI-Expanded)
- VII. **The contemporary model of vertebral column joint dysfunction and impact of high-velocity, low-amplitude controlled vertebral thrusts on neuromuscular function**
Haavik H., Kumari N., Holt K., Niazi I. K., Amjad I., Pujari A. N., Türker K. S., Murphy B.
European Journal of Applied Physiology, vol.121, no.10, pp.2675-2720, 2021 (SCI-Expanded)
- VIII. **Estimating Exercise-Induced Changes in Human Neuronal Networks**
Türker K. S.
Exercise and Sport Sciences Reviews, vol.49, no.3, pp.147-156, 2021 (SCI-Expanded)
- IX. **Comparison of the temporal properties of medium latency responses induced by cortical and peripheral stimulation**
Göztepe M. B., Özyurt M. G., Türker K. S., UYSAL H.
Journal of Electromyography and Kinesiology, vol.55, 2020 (SCI-Expanded)
- X. **Amyotrophic lateral sclerosis weakens spinal recurrent inhibition and post-activation depression**
Özyurt M. G., Topkara B., İŞAK B., Türker K. S.
Clinical Neurophysiology, vol.131, no.12, pp.2875-2886, 2020 (SCI-Expanded)
- XI. **Post-activation depression of primary afferents reevaluated in humans**
Özyurt M. G., Topkara B., Şenocak B. S., Budan A. S., Yüce M. N., Türker K. S.
Journal of Electromyography and Kinesiology, vol.54, 2020 (SCI-Expanded)
- XII. **Exploring the receptor origin of vibration-induced reflexes**
Yildirim M. A., Topkara B., Aydın T., Paker N., Soy D., Coskun E., Ones K., Bardak A., Kesiktas N., Ozyurt M. G., et al.

Spinal Cord, vol.58, no.6, pp.716-723, 2020 (SCI-Expanded)

- XIII. **Effect of aging on H-reflex response to fatigue**
Lavender A. P., Balkozak S., Özyurt M. G., Topkara B., Karacan İ., Bilici İ., Hill A., Türker K. S.
Experimental Brain Research, vol.238, no.2, pp.273-282, 2020 (SCI-Expanded)
- XIV. **Jendrassik maneuver effect on spinal and brainstem reflexes**
Ertuglu L. A., Aydin A., Kumru H., Valls-Sole J., Opisso E., Cecen S., Türker K. S.
Experimental Brain Research, vol.237, no.12, pp.3265-3271, 2019 (SCI-Expanded)
- XV. **Transcranial magnetic stimulation induced early silent period and rebound activity reexamined**
Özyurt M. G., Haavik H., Nedergaard R. W., Topkara B., Şenocak B. S., Göztepe M. B., Niazi I. K., Türker K. S.
PLoS ONE, vol.14, no.12, 2019 (SCI-Expanded)
- XVI. **The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients**
Holt K., Niazi I. K., Nedergaard R. W., Duehr J., Amjad I., Shafique M., Anwar M. N., Ndetan H., Turker K. S., Haavik H.
Scientific Reports, vol.9, no.1, 2019 (SCI-Expanded)
- XVII. **Facial muscle activity contaminates EEG signal at rest: Evidence from frontalis and temporalis motor units**
Yilmaz G., Budan A. S., Ungan P., Topkara B., Türker K. S.
Journal of Neural Engineering, vol.16, no.6, 2019 (SCI-Expanded)
- XVIII. **Medium latency excitatory reflex of soleus re-examined**
UYSAL H., Özyurt M. G., Göztepe M. B., Türker K. S.
Experimental Brain Research, vol.237, no.7, pp.1717-1725, 2019 (SCI-Expanded)
- XIX. **Motor units as tools to evaluate profile of human Renshaw inhibition**
Özyurt M. G., Piotrkiewicz M., Topkara B., Weisskircher H., Türker K. S.
Journal of Physiology, vol.597, no.8, pp.2185-2199, 2019 (SCI-Expanded)
- XX. **Periodontal mechanoreceptors and bruxism at low bite forces**
Yilmaz G., Laine C. M., Tinastepe N., Özyurt M. G., Türker K. S.
Archives of Oral Biology, vol.98, pp.87-91, 2019 (SCI-Expanded)
- XXI. **Optimal location for eliciting the tibial H-reflex and motor response**
Özyurt M. G., Shabsog M., Dursun M., Türker K. S.
Muscle and Nerve, vol.58, no.6, pp.828-833, 2018 (SCI-Expanded)
- XXII. **Chiropractic spinal manipulation alters TMS induced I-wave excitability and shortens the cortical silent period**
Haavik H., Niazi I. K., Jochumsen M., Uginčius P., Sebik O., Yılmaz G., Navid M. S., Özyurt M. G., Türker K. S.
Journal of Electromyography and Kinesiology, vol.42, pp.24-35, 2018 (SCI-Expanded)
- XXIII. **Assessment of the corticospinal fiber integrity in mirror movement disorder**
Solmaz B., Özyurt M. G., Ata D. B., Akçimen F., Shabsog M., Türker K. S., Dalçık H., Algin O., Başak A. N., Özgür M., et al.
Journal of Clinical Neuroscience, vol.54, pp.69-76, 2018 (SCI-Expanded)
- XXIV. **Delayed-onset muscle soreness in human masticatory muscles increases inhibitory jaw reflex responses**
Koutris M., Türker K. S., van Selms M., Lobbezoo F.
Journal of Oral Rehabilitation, vol.45, no.6, pp.430-435, 2018 (SCI-Expanded)
- XXV. **Chiropractic manipulation increases maximal bite force in healthy individuals**
Haavik H., Özyurt M. G., Niazi I. K., Holt K., Nedergaard R. W., Yilmaz G., Türker K. S.
Brain Sciences, vol.8, no.5, 2018 (SCI-Expanded)
- XXVI. **EEG-like signals can be synthesized from surface representations of single motor units of facial muscles**
Yilmaz G., Ungan P., Türker K. S.
Experimental Brain Research, vol.236, no.4, pp.1007-1017, 2018 (SCI-Expanded)
- XXVII. **The effects of a single session of spinal manipulation on strength and cortical drive in athletes**
Christiansen T. L., Niazi I. K., Holt K., Nedergaard R. W., Duehr J., Allen K., Marshall P., Türker K. S., Hartvigsen J., Haavik H.

- European Journal of Applied Physiology, vol.118, no.4, pp.737-749, 2018 (SCI-Expanded)
- XXVIII. **Posture modulates the sensitivity of the H-reflex**
Cecen S., Niazi I. K., Nedergaard R. W., Cade A., Allen K., Holt K., Haavik H., Türker K. S.
Experimental Brain Research, vol.236, no.3, pp.829-835, 2018 (SCI-Expanded)
- XXIX. **Reevaluation of reflex responses of the human masseter muscle to electrical lip stimulation**
Uginčius P., Yilmaz G., Sebik O., Türker K. S.
Journal of Neurophysiology, vol.118, no.2, pp.1082-1091, 2017 (SCI-Expanded)
- XXX. **Whole-body vibration induces distinct reflex patterns in human soleus muscle**
Karacan I., Cidem M., Cidem M., Türker K. S.
Journal of Electromyography and Kinesiology, vol.34, pp.93-101, 2017 (SCI-Expanded)
- XXXI. **Onion skin or common drive?**
Piotrkiewicz M., Türker K. S.
Frontiers in Cellular Neuroscience, vol.11, 2017 (SCI-Expanded)
- XXXII. **Vibration parameters affecting vibration-induced reflex muscle activity**
Cidem M., Karacan I., Cakar H. I., Cidem M., Sebik O., Yilmaz G., Turker K. S., Karamehmetoglu S. S.
Somatosensory and Motor Research, vol.34, no.1, pp.47-51, 2017 (SCI-Expanded)
- XXXIII. **Two different analyzing methods for inhibitory reflexes: Do they yield comparable outcomes?**
Koutris M., Türker K. S., van der Weijden J. J., van Selms M. K., Lobbezoo F.
Journal of Neuroscience Methods, vol.274, pp.49-52, 2016 (SCI-Expanded)
- XXXIV. **Cutaneous silent period evoked in human first dorsal interosseous muscle motor units by laser stimulation**
Kahya M. C., Sebik O., Türker K. S.
Journal of Electromyography and Kinesiology, vol.31, pp.104-110, 2016 (SCI-Expanded)
- XXXV. **Tendon reflex is suppressed during whole-body vibration**
Karacan I., Cidem M., Yilmaz G., Sebik O., Cakar H. I., Türker K. S.
Journal of Electromyography and Kinesiology, vol.30, pp.191-195, 2016 (SCI-Expanded)
- XXXVI. **Tonic activity of the human temporalis muscle at mandibular rest position**
Yilmaz G., Uginčius P., Sebik O., Türker K. S.
Archives of Oral Biology, vol.60, no.11, pp.1645-1649, 2015 (SCI-Expanded)
- XXXVII. **Estimating reflex responses in large populations of motor units by decomposition of the high-density surface electromyogram**
Yavuz U. Ş., Negro F., Sebik O., Holobar A., Frömmel C., Türker K. S., Farina D.
Journal of Physiology, vol.593, no.19, pp.4305-4318, 2015 (SCI-Expanded)
- XXXVIII. **Jaw tremor as a physiological biomarker of bruxism**
Laine C., Yavuz Ş., D'Amico J., Gorassini M., Türker K. S., Farina D.
Clinical Neurophysiology, vol.126, no.9, pp.1746-1753, 2015 (SCI-Expanded)
- XXXIX. **Changes in H-reflex and V-waves following spinal manipulation**
Niazi I. K., Türker K. S., Flavel S., Kinget M., Duehr J., Haavik H.
Experimental Brain Research, vol.233, no.4, pp.1165-1173, 2015 (SCI-Expanded)
- XL. **A new method to determine reflex latency induced by high rate stimulation of the nervous system**
Karacan I., Cakar H. I., Sebik O., Yilmaz G., Cidem M., Kara S., Türker K. S.
Frontiers in Human Neuroscience, vol.8, no.JULY, 2014 (SCI-Expanded)
- XLI. **Interference of tonic muscle activity on the EEG: A single motor unit study**
Yilmaz G., Ungan P., Sebik O., Uginčius P., Türker K. S.
Frontiers in Human Neuroscience, vol.8, no.JULY, 2014 (SCI-Expanded)
- XLII. **Human stretch reflex pathways reexamined**
Yavuz S. U., Mrachacz-Kersting N., Sebik O., Ünver M. B., Farina D., Türker K. S.
Journal of Neurophysiology, vol.111, no.3, pp.602-612, 2014 (SCI-Expanded)
- XLIII. **Mimicking human neuronal pathways in silico: An emergent model on the effective connectivity**
Gürçan Ö., Türker K. S., Mano J., Bernon C., Dikenelli O., Glize P.
Journal of Computational Neuroscience, vol.36, no.2, pp.235-257, 2014 (SCI-Expanded)

- XLIV. **Reflex responses of human masseter motor units to mechanical stimulation of the teeth**
Uginčius P., Atiš E., Türker K. S.
Journal of Neurophysiology, vol.111, no.1, pp.51-61, 2014 (SCI-Expanded)
- XLV. **Teeth clenching reduces arm abduction force**
Sato H., Kawano T., Saito M., Toyoda H., Maeda Y., Türker K. S., Kang Y.
Experimental Brain Research, vol.232, no.7, pp.2281-2291, 2014 (SCI-Expanded)
- XLVI. **High pass filtering and rectification of SEMG as a tool to demonstrate synchronous motor unit activity during vibration**
Sebik O., Karacan I., Cidem M., Türker K. S.
Journal of Electromyography and Kinesiology, vol.24, no.4, pp.488, 2014 (SCI-Expanded)
- XLVII. **Activation properties of trigeminal motoneurons in participants with and without bruxism**
D'Amico J. M., Yavuz S. U., Saraçoğlu A., Atış E. S., Gorassini M. A., Türker K. S.
Journal of Neurophysiology, vol.110, no.12, pp.2863-2872, 2013 (SCI-Expanded)
- XLVIII. **Is myofascial pain in temporomandibular disorder patients a manifestation of delayed-onset muscle soreness?**
Koutris M., Lobbezoo F., Sümer N. C., Atış E. S., Türker K. S., Naeije M.
Clinical Journal of Pain, vol.29, no.8, pp.712-716, 2013 (SCI-Expanded)
- XLIX. **Rectification of SEMG as a tool to demonstrate synchronous motor unit activity during vibration**
Sebik O., Karacan I., Cidem M., Türker K. S.
Journal of Electromyography and Kinesiology, vol.23, no.2, pp.275-284, 2013 (SCI-Expanded)
- L. **Double discharges in human soleus muscle**
Piotrkiewicz M., Sebik O., Binboğa E., Młodziński D., Kuraszkiewicz B., Türker K. S.
Frontiers in Human Neuroscience, vol.7, 2013 (SCI-Expanded)
- LI. **Compound group I excitatory input is differentially distributed to human soleus motoneurons**
Binboğa E., Türker K. S.
Clinical Neurophysiology, vol.123, no.11, pp.2192-2199, 2012 (SCI-Expanded)
- LII. **Illusion caused by vibration of muscle spindles reveals an involvement of muscle spindle inputs in regulating isometric contraction of masseter muscles**
Tsukiboshi T., Sato H., Tanaka Y., Saito M., Toyoda H., Morimoto T., Türker K. S., Maeda Y., Kang Y.
Journal of Neurophysiology, vol.108, no.9, pp.2524-2533, 2012 (SCI-Expanded)
- LIIL. **Transcranial magnetic stimulation and peristimulus frequencygram**
Todd G., Rogasch N. C., Türker K. S.
Clinical Neurophysiology, vol.123, no.5, pp.1002-1009, 2012 (SCI-Expanded)
- LIV. **Comparison of the inhibitory response to tendon and cutaneous afferent stimulation in the human lower limb**
Rogasch N. C., Burne J. A., Türker K. S.
Journal of Neurophysiology, vol.107, no.2, pp.564-572, 2012 (SCI-Expanded)
- LV. **Synaptic potentials contributing to reflex inhibition in gastrocnemius following tendon electrical stimulation**
Rogasch N. C., Burne J. A., Binboğa E., Türker K. S.
Clinical Neurophysiology, vol.122, no.6, pp.1190-1196, 2011 (SCI-Expanded)
- LVI. **Masseter length determines muscle spindle reflex excitability during jaw-closing movements**
Naser-Ud-Din S., Sowman P. F., Sampson W. J., Dreyer C. W., Türker K. S.
American Journal of Orthodontics and Dentofacial Orthopedics, vol.139, no.4, 2011 (SCI-Expanded)
- LVII. **Responses of human soleus motor units to low-threshold stimulation of the tibial nerve**
Binboğa E., Prasartwuth O., Pehlivan M., Türker K. S.
Experimental Brain Research, vol.213, no.1, pp.73-86, 2011 (SCI-Expanded)
- LVIII. **Reflexes as tools to study human neuromuscular system**
Türker K. S.
Clinical Neurophysiology, vol.121, no.10, pp.1599-1601, 2010 (SCI-Expanded)
- LIX. **Estimates of EPSP amplitude based on changes in motoneuron discharge rate and probability**

Powers R. K., Türker K. S.

Experimental Brain Research, vol.206, no.4, pp.427-440, 2010 (SCI-Expanded)

- LX. **Effect of gender, age, fatigue and contraction level on electromechanical delay**
Yavuz Ş. U., Şendemir-Ürkmez A., Türker K. S.
Clinical Neurophysiology, vol.121, no.10, pp.1700-1706, 2010 (SCI-Expanded)
- LXI. **Cutaneous silent period in human FDI motor units**
Kahya M. C., Utku Yavuz Ş., Türker K. S.
Experimental Brain Research, vol.205, no.4, pp.455-463, 2010 (SCI-Expanded)
- LXII. **Muscle pain theories: Is there a third dimension?**
Türker K. S.
Clinical Neurophysiology, vol.121, no.5, pp.634-635, 2010 (SCI-Expanded)
- LXIII. **Threshold for detection of incisal forces is increased by jaw movement**
Sowman P., Brinkworth R., Türker K. S.
Journal of Dental Research, vol.89, no.4, pp.395-399, 2010 (SCI-Expanded)
- LXIV. **Deciphering the contribution of intrinsic and synaptic currents to the effects of transient synaptic inputs on human motor unit discharge**
Powers R. K., Türker K. S.
Clinical Neurophysiology, vol.121, no.10, pp.1643-1654, 2010 (SCI-Expanded)
- LXV. **Provocation of delayed-onset muscle soreness in the human jaw-closing muscles**
Türker K. S., Koutris M., Ceren Sümer N., Sibel Atış E., Linke I. R., Lobbezoo F., Naeije M.
Archives of Oral Biology, vol.55, no.9, pp.621-626, 2010 (SCI-Expanded)
- LXVI. **Modulation of masseteric reflexes by simulated mastication**
Naser-Ud-Din S., Sowman P., Dang H., Türker K. S.
Journal of Dental Research, vol.89, no.1, pp.61-65, 2010 (SCI-Expanded)
- LXVII. **Modulation of human exteroceptive jaw reflexes during simulated mastication**
Lobbezoo F., Sowman P., Türker K. S.
Clinical Neurophysiology, vol.120, no.2, pp.398-406, 2009 (SCI-Expanded)
- LXVIII. **Periodontal-masseteric reflexes decrease with tooth pre-load**
Sowman P., Türker K. S.
Journal of Dental Research, vol.87, no.2, pp.175-179, 2008 (SCI-Expanded)
- LXIX. **Mandibular physiological tremor is reduced by increasing-force ramp contractions and periodontal anaesthesia**
Sowman P. F., Brinkworth R. S. A., Türker K. S.
Experimental Brain Research, vol.184, no.1, pp.71-82, 2008 (SCI-Expanded)
- LXX. **A study of synaptic connection between low threshold afferent fibres in common peroneal nerve and motoneurons in human tibialis anterior**
Prasartwuth O., Binboğa E., Türker K. S.
Experimental Brain Research, vol.191, no.4, pp.465-472, 2008 (SCI-Expanded)
- LXXI. **Intracortical inhibition in the human trigeminal motor system**
Jaberzadeh S., Pearce S. L., Miles T. S., Türker K. S., Nordstrom M. A.
Clinical Neurophysiology, vol.118, no.8, pp.1785-1793, 2007 (SCI-Expanded)
- LXXII. **Periodontal anaesthetisation decreases rhythmic synchrony between masseteric motor units at the frequency of jaw tremor**
Sowman P. F., Ogston K. M., Türker K. S.
Experimental Brain Research, vol.179, no.4, pp.673-682, 2007 (SCI-Expanded)
- LXXIII. **Standardization of H-reflex analyses**
Brinkworth R., TUNCER M., Tucker K., Jaberzadeh S., Türker K. S.
Journal of Neuroscience Methods, vol.162, no.1-2, pp.1-7, 2007 (SCI-Expanded)
- LXXIV. **Exteroceptive suppression of the jaw closing muscle electromyogram: Methodological issues applicable to all human reflex studies**
Türker K. S.

- Clinical Neurophysiology, vol.118, no.5, pp.951-953, 2007 (SCI-Expanded)
- LXXV. **Triceps surae stretch and voluntary contraction alters maximal M-wave magnitude**
Tucker K., Türker K. S.
Journal of Electromyography and Kinesiology, vol.17, no.2, pp.203-211, 2007 (SCI-Expanded)
- LXXVI. **Influence of tooth clench on the soleus H-reflex**
TUNCER M., Tucker K. J., Türker K. S.
Archives of Oral Biology, vol.52, no.4, pp.374-376, 2007 (SCI-Expanded)
- LXXVII. **The role of periodontal mechanoreceptors in mastication**
Türker K. S., Sowman P. F., TUNCER M., Tucker K. J., Brinkworth R. S.
Archives of Oral Biology, vol.52, no.4, pp.361-364, 2007 (SCI-Expanded)
- LXXVIII. **Preface**
Türker K. S., Cadden S. W.
Archives of Oral Biology, vol.52, no.4, pp.295, 2007 (SCI-Expanded)
- LXXIX. **Mandibular tremor during isometric contractions**
Sowman P. F., Türker K. S.
Archives of Oral Biology, vol.52, no.4, pp.353-356, 2007 (SCI-Expanded)
- LXXX. **Is the human masticatory system devoid of recurrent inhibition?**
Türker K. S., Schmied A., Rossi A., Mazzocchio R., Sowman P., Vedel J.
Experimental Brain Research, vol.179, no.1, pp.131-144, 2007 (SCI-Expanded)
- LXXXI. **A study on synaptic coupling between single orofacial mechanoreceptors and human masseter muscle**
Türker K. S., Johnsen S. E., Sowman P. F., Trulsson M.
Experimental Brain Research, vol.170, no.4, pp.488-500, 2006 (SCI-Expanded)
- LXXXII. **Periodontal anaesthesia reduces common 8 Hz input to masseters during isometric biting**
Sowman P. F., Brinkworth R. S. A., Türker K. S.
Experimental Brain Research, vol.169, no.3, pp.326-337, 2006 (SCI-Expanded)
- LXXXIII. **A new method to estimate signal cancellation in the human maximal M-wave**
Tucker K., Türker K. S.
Journal of Neuroscience Methods, vol.149, no.1, pp.31-41, 2005 (SCI-Expanded)
- LXXXIV. **Methods of time and frequency domain examination of physiological tremor in the human jaw**
Sowman P. F., Türker K. S.
Human Movement Science, vol.24, no.5-6, pp.657-666, 2005 (SCI-Expanded)
- LXXXV. **Perceptual distortion of face deletion by local anaesthesia of the human lips and teeth**
Türker K. S., Yeo P. L. M., Gandevia S. C.
Experimental Brain Research, vol.165, no.1, pp.37-43, 2005 (SCI-Expanded)
- LXXXVI. **Jaw movement alters the reaction of human jaw muscles to incisor stimulation**
Brinkworth R. S. A., Türker K. S.
Experimental Brain Research, vol.164, no.2, pp.165-176, 2005 (SCI-Expanded)
- LXXXVII. **Black box revisited: A technique for estimating postsynaptic potentials in neurons**
Türker K. S., Powers R.
Trends in Neurosciences, vol.28, no.7, pp.379-386, 2005 (SCI-Expanded)
- LXXXVIII. **EMG, force and discharge rate analysis of human jaw reflexes in response to axial stimulation of the incisor**
Brinkworth R. S. A., Türker K. S.
Experimental Brain Research, vol.161, no.2, pp.145-154, 2005 (SCI-Expanded)
- LXXXIX. **A review of the H-reflex and M-wave in the human triceps surae**
Tucker K. J., TUNCER M., Türker K. S.
Human Movement Science, vol.24, no.5-6, pp.667-688, 2005 (SCI-Expanded)
- XC. **Response of human jaw muscles to axial stimulation of a molar tooth**
Brinkworth R. S. A., Male C., Türker K. S.
Experimental Brain Research, vol.159, no.2, pp.214-224, 2004 (SCI-Expanded)

- XCI. **Muscle spindle feedback differs between the soleus and gastrocnemius in humans**
Tucker K., Türker K. S.
Somatosensory and Motor Research, vol.21, no.3-4, pp.189-197, 2004 (SCI-Expanded)
- XCII. **A device for investigating neuromuscular control in the human masticatory system**
Türker K. S., Brinkworth R., Abolfathi P., Linke I., Nazeran H.
Journal of Neuroscience Methods, vol.136, no.2, pp.141-149, 2004 (SCI-Expanded)
- XCIII. **Estimation of postsynaptic potentials in rat hypoglossal motoneurons: Insights for human work**
Türker K. S., Powers R.
Journal of Physiology, vol.551, no.2, pp.419-431, 2003 (SCI-Expanded)
- XCIV. **Response of human jaw muscles to axial stimulation of the incisor**
Brinkworth R. S., Türker K. S., Savundra A. W.
Journal of Physiology, vol.547, no.1, pp.233-245, 2003 (SCI-Expanded)
- XCV. **A method for quantifying reflex responses from intra-muscular and surface electromyogram**
Brinkworth R. S., Türker K. S.
Journal of Neuroscience Methods, vol.122, no.2, pp.179-193, 2003 (SCI-Expanded)
- XCVI. **The effects of common input characteristics and discharge rate on synchronization in rat hypoglossal motoneurons**
Türker K. S., Powers R.
Journal of Physiology, vol.541, no.1, pp.245-260, 2002 (SCI-Expanded)
- XCVII. **Reflex control of human jaw muscles**
Türker K. S.
Critical Reviews in Oral Biology and Medicine, vol.13, no.1, pp.85-104, 2002 (SCI-Expanded)
- XCVIII. **The role of the muscle spindles in human masseter**
Scutter S. D., Türker K. S.
Human Movement Science, vol.20, no.4-5, pp.489-497, 2001 (SCI-Expanded)
- XCIX. **Distribution of periodontal afferent input to motoneurons of human masseter**
Yang J., Türker K. S.
Archives of Oral Biology, vol.46, no.11, pp.989-996, 2001 (SCI-Expanded)
- C. **Periodontal mechanoreceptor input reduces synchronous discharge of voluntarily activated masseter motor units in man**
Schmied A., Türker K. S.
Somatosensory and Motor Research, vol.18, no.2, pp.141-149, 2001 (SCI-Expanded)
- CI. **Representation of human masseter motor unit action potentials on the EMG and its implication for trigeminal reflex investigation**
O'Connor S., Türker K. S.
Archives of Oral Biology, vol.46, no.6, pp.569-572, 2001 (SCI-Expanded)
- CII. **Modulation of the periodontally evoked masseter reflexes by mechanical stimulation of the face**
Tucker K., Türker K. S.
Experimental Brain Research, vol.139, no.4, pp.443-447, 2001 (SCI-Expanded)
- CIII. **Effects of common excitatory and inhibitory inputs on motoneuron synchronization**
Türker K. S., Powers R.
Journal of Neurophysiology, vol.86, no.6, pp.2807-2822, 2001 (SCI-Expanded)
- CIV. **Estimating relative motoneurone size in human masseter muscle**
Scutter S. D., Türker K. S.
Archives of Oral Biology, vol.45, no.7, pp.617-620, 2000 (SCI-Expanded)
- CV. **A method for protrusive mandibular force measurement in children**
Chintakanon K., Türker K. S., Sampson W., Townsend G., Wilkinson T.
Archives of Oral Biology, vol.45, no.2, pp.113-121, 2000 (SCI-Expanded)
- CVI. **EMG and strength correlates of selected shoulder muscles during rotations of the glenohumeral joint**
David G., Magarey M., Jones M., Dvir Z., Türker K. S., Sharpe M.

Clinical Biomechanics, vol.15, no.2, pp.95-102, 2000 (SCI-Expanded)

CVII. Effects of Twin-block therapy on protrusive muscle functions

Chintakanon K., Türker K. S., Sampson W., Wilkinson T., Townsend G.

American Journal of Orthodontics and Dentofacial Orthopedics, vol.118, no.4, pp.392-396, 2000 (SCI-Expanded)

CVIII. The relationship between strength and width of the supraspinatus: An isokinetic and ultrasonographic study

David G., Dvir Z., Simmons N., Magarey M., Jones M., Turker K. S., Sharpe M.

Isokinetics and Exercise Science, vol.8, no.3, pp.169-174, 2000 (SCI-Expanded)

CIX. Reflex responses induced by tooth unloading

Turker K. S., Jenkins M.

Journal of Neurophysiology, vol.84, no.2, pp.1088-1092, 2000 (SCI-Expanded)

CX. Evidence for strong synaptic coupling between single tactile afferents and motoneurons supplying the human hand

McNulty P., Türker K. S., Macefield V.

Journal of Physiology, vol.518, no.3, pp.883-893, 1999 (SCI-Expanded)

CXI. Jaw reflexes evoked by mechanical stimulation of teeth in humans

Yang J., Türker K. S.

Journal of Neurophysiology, vol.81, no.5, pp.2156-2163, 1999 (SCI-Expanded)

CXII. Muscle spindle afferent input to motoneurons in human masseter

Scutter S. D., Türker K. S.

Journal of Neurophysiology, vol.82, no.1, pp.505-507, 1999 (SCI-Expanded)

CXIII. Effects of large excitatory and inhibitory inputs on motoneuron discharge rate and probability

Türker K. S., Powers R.

Journal of Neurophysiology, vol.82, no.2, pp.829-840, 1999 (SCI-Expanded)

CXIV. Recruitment stability in masseter motor units during isometric voluntary contractions

Scutter S. D., Türker K. S.

Muscle and Nerve, vol.21, no.10, pp.1290-1298, 1998 (SCI-Expanded)

CXV. Tendon tap induces a single long-lasting excitatory reflex in the motoneurons of human soleus

Türker K. S., Yang J., Scutter S. D.

Experimental Brain Research, vol.115, no.1, pp.169-173, 1997 (SCI-Expanded)

CXVI. A new method for eliciting and studying H-reflexes in the human masseter

Scutter S., Türker K. S., Yang J.

Archives of Oral Biology, vol.42, no.5, pp.371-376, 1997 (SCI-Expanded)

CXVII. Conditions for excitatory or inhibitory masseteric reflexes elicited by tooth pressure in man

Türker K. S., Yang J., Brodin P.

Archives of Oral Biology, vol.42, no.2, pp.121-128, 1997 (SCI-Expanded)

Articles Published in Other Journals

I. Inhibitory kinesiotaping has no effect on post-stroke spasticity: Prospective, randomised, controlled study

Ekici Zincirci D., Yurttutmuş Z., TÜRKER K. S., Karacan I.

Journal of Bodywork and Movement Therapies, vol.38, pp.191-196, 2024 (ESCI)

II. Demonstration of chewing-related areas in the brain via functional magnetic resonance imaging

Algin O., Kocak O. M., Gokcekuyu Y., Turker K. S.

Polish Journal of Radiology, vol.88, no.1, 2023 (ESCI)

III. The effect of whole-body vibration on spasticity in post-stroke hemiplegia: A prospective, randomized-controlled study

Yurttutmuş Z. R., Zincirci D. E., Bardak A. N., Karacan İ., Türker K. S.

Turkish Journal of Physical Medicine and Rehabilitation, vol.68, no.4, pp.484-492, 2022 (Scopus)

- IV. **Using first bout effect to study the mechanisms underlying eccentric exercise induced force loss**
Prasartwuth O., Suteebut R., Chawawisuttikool J., Yavuz U. S., Türker K. S.
Journal of Bodywork and Movement Therapies, vol.23, no.1, pp.48-53, 2019 (Scopus)
- V. **Standardization of the Jendrassik maneuver in Achilles tendon tap reflex**
Ertuglu L. A., Karacan I., Yilmaz G., Türker K. S.
Clinical Neurophysiology Practice, vol.3, pp.1-5, 2018 (Scopus)
- VI. **Impact of spinal manipulation on cortical drive to upper and lower limb muscles**
Haavik H., Niazi I. K., Jochumsen M., Sherwin D., Flavel S., Türker K. S.
Brain Sciences, vol.7, no.1, 2017 (Scopus)
- VII. **Whole-body vibration-induced muscular reflex: Is it a stretch-induced reflex?**
Cakar H. I., Cidem M., Sebik O., Yilmaz G., Karamehmetoglu S. S., Kara S., Karacan I., Türker K. S.
Journal of Physical Therapy Science, vol.27, no.7, pp.2279-2284, 2015 (Scopus)
- VIII. **Chiropractic alters TMS induced motor neuronal excitability: Preliminary findings**
Haavik H., Niazi I. K., Duehr J., Kinget M., Ugincius P., Sebik O., Yilmaz G., Türker K. S.
Biosystems and Biorobotics, vol.7, pp.35-37, 2014 (Scopus)
- IX. **What can be learned about motoneurone properties from studying firing patterns?**
Powers R. K., Türker K. S., Binder M. D.
Advances in Experimental Medicine and Biology, vol.508, pp.199-205, 2002 (Scopus)
- X. **Headaches and neck pain in farmers.**
Scutter S., Türker K. S., Hall R.
The Australian journal of rural health, vol.5, no.1, pp.2-5, 1997 (Scopus)
- XI. **Correlated changes in the firing rate of human motor units during voluntary contraction**
Türker K. S., Schmied A., Cheng H. B.
Experimental Brain Research, vol.111, no.3, pp.455-464, 1996 (Scopus)
- XII. **The shape of the membrane potential trajectory in tonically-active human motoneurons**
Türker K. S.
Journal of Electromyography and Kinesiology, vol.5, no.1, pp.3-14, 1995 (Scopus)
- XIII. **Compound group I excitatory input is differentially distributed to motoneurons of the human tibialis anterior**
Semmler J. G., Türker K. S.
Neuroscience Letters, vol.178, no.2, pp.206-210, 1994 (Scopus)
- XIV. **Reflex responses of motor units in human masseter muscle to mechanical stimulation of a tooth**
Türker K. S., Brodin P., Miles T. S.
Experimental Brain Research, vol.100, no.2, pp.307-315, 1994 (Scopus)
- XV. **Evocation of either excitatory or inhibitory reflex responses in human masseter muscle by electrical stimulation of the lip at varying intensities**
Brodin P., Türker K. S.
Archives of Oral Biology, vol.39, no.8, pp.701-706, 1994 (Scopus)
- XVI. **Reflex responses to periodontal and auditory stimulation in human masseter**
SATO T., TÜRKER K. S., MILES T.
Journal of Oral Rehabilitation, vol.21, no.3, pp.287-297, 1994 (Scopus)
- XVII. **Motor-unit firing frequency can be used for the estimation of synaptic potentials in human motoneurons**
Türker K. S., Cheng H. B.
Journal of Neuroscience Methods, vol.53, no.2, pp.225-234, 1994 (Scopus)
- XVIII. **Mechanoreceptors around the tooth evoke inhibitory and excitatory reflexes in the human masseter muscle.**
Brodin P., Türker K. S., Miles T.
The Journal of Physiology, vol.464, no.1, pp.711-723, 1993 (Scopus)
- XIX. **Electromyography: Some methodological problems and issues**
Turker K. S.

Physical Therapy, vol.73, no.10, pp.698-710, 1993 (Scopus)

- XX. **Simple reaction-time responses to mechanical and electrical stimuli in human masseter muscle**
Brodin P., Miles T. S., Türker K. S.
Archives of Oral Biology, vol.38, no.3, pp.221-226, 1993 (Scopus)
- XXI. **A simple stimulator for periodontal mechanoreceptors in human subjects.**
Sato T., Miles T., Türker K. S., Flavel S.
Journal de biologie buccale, vol.20, no.4, pp.231-234, 1992 (Scopus)
- XXII. **Properties of synaptic noise in tonically active human motoneurons**
Warren J. D., Miles T. S., Türker K. S.
Journal of Electromyography and Kinesiology, vol.2, no.4, pp.189-202, 1992 (Scopus)
- XXIII. **Threshold depolarization measurements in resting human motoneurones**
Türker K. S., Miles T.
Journal of Neuroscience Methods, vol.39, no.1, pp.103-107, 1991 (Scopus)
- XXIV. **Synchronization of motor units in human masseter during a prolonged isometric contraction.**
Nordstrom M., Miles T., Türker K. S.
The Journal of Physiology, vol.426, no.1, pp.409-421, 1990 (Scopus)
- XXV. **Cross-talk from other muscles can contaminate EMG signals in reflex studies of the human leg**
Türker K. S., Miles T.
Neuroscience Letters, vol.111, no.1-2, pp.164-169, 1990 (Scopus)
- XXVI. **Silent periods in dysfunction patients: a preliminary study using a novel approach**
Türker K. S., Wilkinson T., Miles T.
Australian Dental Journal, vol.35, no.1, pp.42-45, 1990 (Scopus)
- XXVII. **The effects of physical training on physical fitness tests and auditory and visual reaction times of volleyball players**
Hascelik Z., Basgoze O., Turker K. S., Narman S., Ozker R.
Journal of Sports Medicine and Physical Fitness, vol.29, no.3, pp.234-239, 1989 (Scopus)
- XXVIII. **Ia reflexes and EPSPs in human soleus motor neurones**
Miles T., Türker K. S., Le T.
Experimental Brain Research, vol.77, no.3, pp.628-636, 1989 (Scopus)
- XXIX. **Biphasic inhibitory responses and their IPSPs evoked by tibial nerve stimulation in human soleus motor neurones**
Miles T., Le T., Türker K. S.
Experimental Brain Research, vol.77, no.3, pp.637-645, 1989 (Scopus)
- XXX. **Modulation of an inhibitory reflex in single motor units in human masseter at different joint angles**
Türker K. S., Seguin J. J., Miles T. S.
Neuroscience Letters, vol.100, no.1-3, pp.157-163, 1989 (Scopus)
- XXXI. **A comparison of the masseteric silent period in temporomandibular joint dysfunction and normal human subjects by surface electromyography and single motor-unit recordings**
Türker K. S., Wilkinson T., Mile T.
Archives of Oral Biology, vol.34, no.12, pp.943-948, 1989 (Scopus)
- XXXII. **Surface electromyography, force and single motor-unit data for inhibitory reflex responses in human masseter at two levels of excitatory drive**
Türker K. S., Miles T.
Archives of Oral Biology, vol.34, no.9, pp.731-737, 1989 (Scopus)
- XXXIII. **A method for standardization of silent period measurements in human masseter muscle**
TÜRKER K. S.
Journal of Oral Rehabilitation, vol.15, no.1, pp.91-101, 1988 (Scopus)
- XXXIV. **The lip-clip: A simple, low-impedance ground electrode for use in human electrophysiology**
Türker K. S., Miles T. S., Le H. T.
Brain Research Bulletin, vol.21, no.1, pp.139-141, 1988 (Scopus)
- XXXV. **Reflex responses of motor units in human masseter muscle to electrical stimulation of the lip**

- Miles T., Türker K. S., Nordstrom M.
Experimental Brain Research, vol.65, no.2, pp.331-336, 1987 (Scopus)
- XXXVI. **Decomposition of the human electromyogramme in an inhibitory reflex**
Miles T., Türker K. S.
Experimental Brain Research, vol.65, no.2, pp.337-342, 1987 (Scopus)
- XXXVII. **Does reflex inhibition of motor units follow the "size principle"?**
Miles T., Türker K. S.
Experimental Brain Research, vol.62, no.2, pp.443-445, 1986 (Scopus)
- XXXVIII. **Climbing fiber lesions disrupt conditioning of the nictitating membrane response in the rabbit**
Sitki Türker K. S., Stuart Miles T.
Brain Research, vol.363, no.2, pp.376-378, 1986 (Scopus)
- XXXIX. **Length-related changes in activation threshold and wave form of motor units in human masseter muscle.**
Miles T., Nordstrom M., Türker K. S.
The Journal of Physiology, vol.370, no.1, pp.457-465, 1986 (Scopus)
- XL. **The effect of stimulus intensity and gape on electrically-evoked jaw reflexes in man**
Türker K. S., Miles T.
Archives of Oral Biology, vol.30, no.8, pp.621-626, 1985 (Scopus)
- XLI. **Harmaline disrupts acquisition of conditioned nictitating membrane responses**
Türker K. S., Miles T.
Brain Research Bulletin, vol.13, no.2, pp.229-233, 1984 (Scopus)
- XLII. **The effect of temperature on the contraction characteristics of jaw muscles in the cat**
Türker K. S., Mackenna B.
Archives of Oral Biology, vol.29, no.6, pp.477-478, 1984 (Scopus)
- XLIII. **Jaw separation and maximum incising force**
Mackenna B. R., Türker K. S.
The Journal of Prosthetic Dentistry, vol.49, no.5, pp.726-730, 1983 (Scopus)
- XLIV. **Twitch tension in the jaw muscles of the cat at various degrees of mouth opening**
Mackenna B., Türker K. S.
Archives of Oral Biology, vol.23, no.10, pp.917-920, 1978 (Scopus)
- XLV. **A method for studying the length-tension relationships of the jaw muscles of the cat [proceedings]**
Mackenna B., Türker K. S.
Journal of Physiology, vol.273, no.2, 1977 (Scopus)

Books & Book Chapters

- I. **FREKANS ANALİZİ METODU İLE SİNİR AĞLARININ YAPI VE FONKSİYONLARININ İNCELENMESİ**
TÜRKER K. S.
TÜRKİYE KLİNİK NÖROFİZYOLOJİ EEG-EMG DERNEĞİ YAYINLARI, İstanbul, 2022
- II. **Ağrı**
TÜRKER K. S., YILDIRIM A., Yalçın D., Çevik Aras H., Çeçen S., KOYLU E. O., ÇAĞLAYAN YEĞEN B., GÜRLER E. B., BULUT T., ALİCAN Y. İ., et al.
in: Oral Fizyoloji, Esra Bihter Gürler, Editor, QUINTESSENCE PUBLISHING, İstanbul, pp.35-46, 2019
- III. **Biosystems Biorobotics**
TÜRKER K. S., KAHYA M. C.
in: Converging Clinical and Engineering Research on Neurorehabilitation II Volume 15 of the series The Reflex Circuitry Originating from the Cutaneous Receptors of the Hand to the First Dorsal Interosseus Muscle, Jaime Ibáñez, José González-Vargas, José María Azorín, Metin Akay, José Luis Pons, Editor, Springer, pp.171-175, 2017

Refereed Congress / Symposium Publications in Proceedings

I. Frekansogram ile kısa-interval intrakortikal inhibisyonun incelenmesi

Kaya İ., KARAOĞLU A., TOPKARA ARSLAN B., UYSAL H., TÜRKER K. S.

59. Ulusal Nöroloji Kongresi, 13 - 18 December 2023

II. Simulating human single motor units using self-organizing agents

Gurcan O., Bernon C., Turker K. S., Mano J., Glize P., Dikenelli O.

2012 IEEE 6th International Conference on Self-Adaptive and Self-Organizing Systems, SASO 2012, Lyon, France, 10 - 14 September 2012, pp.11-20

Supported Projects

TÜRKER K. S., A study on the effect of gender in human skeletomuscular reflexes, Continues

TÜRKER K. S., TUBITAK Project, İnsan iskelet kası reflekslerinin cinsiyete yaşa ve kas yorgunluğuna bağlı değişimlerinin incelenmesi, Continues

Activities in Scientific Journals

JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY, Editor, 2015 - Continues

Scientific Refereeing

CLINICAL NEUROPHYSIOLOGY, SCI Journal, July 2023

JOURNAL OF PHYSIOLOGY, SCI Journal, June 2023

JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY, SCI Journal, May 2023