

## CURRICULUM VITAE

**KEMAL SITKI TÜRKER**

### PERSONAL

PRESENT POSITION AND  
ADDRESS:

Professor of Physiology  
Koç University School of Medicine  
Rumelifeneri Yolu, 34450, Sarıyer  
Istanbul, Turkey  
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### ACADEMIC QUALIFICATIONS AND AWARDS

- **Bachelor of Dental Surgery (BDS)**, Ege University, İzmir, Türkiye, awarded June 1973.
- **Doctor of Philosophy (PhD)**, Institute of Physiology, Glasgow University, Glasgow, Scotland, awarded November 1978.
- **Doçent in Physiology** (a formal qualification awarded to academics in the European University System after several years of teaching and research experience and further formal examinations and thesis presentation, equivalent to Associate Professor), awarded by the Turkish Universities Commission, April 1984.
- **Honorary Senior Research Fellow**, Honorary Academic appointment in recognition for the research support to the staff and students of the School of Physiotherapy, University of South Australia (1997-2002).
- **Visiting Professor** (four visits each lasting for about six weeks during 1998-2001) at the Department of Physiology and Biophysics, University of Washington, Seattle, USA.
- **Visiting Professor** (September – October 2002) Centre for Oral Biology, Karolinska Institute, Stockholm, Sweden.
- **Visiting Professor** (September – October 2004) National Scientific Research Centre (CNRS) of France, Marseilles, France.
- **Promotion to Associate Professor** (Level D) by University of Adelaide (1 January 2006).
- **Promotion to Professor (Marie Curie Chair of the European Union)**: Appointment to the Marie Curie Chair by the European Union Brain Gain initiative (1 June 2007).
- **Visiting Professor** (July – September 2008) Department of Physiology, Faculty of Dentistry, Osaka University, Osaka, Japan.
- **Visiting Professor** (June – July 2009) Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, The Netherlands.
- **Visiting Professor** (July – August 2010; June – July 2014) Sensory Motor Integration (SMI) Lab, Aalborg University, Aalborg, Denmark.
- **Professor of Physiology**: Koç University School of Medicine (from: 1 March 2011)
- **Elected as a full member of the Turkish Science Academy Association** (4 December 2012)

### SCHOLARSHIPS AND GRANTS

- 2007-2010 **Turkish Scientific and Technical Research Organization** (TÜBİTAK 107S029 (SBAG-3556) grant to K.S. Türker (\$300,000 over three years).
- 2007-2010 **Marie Curie Chair** (GenderReflex (MEXC-CT-2006-0403317): Awarded to K.S. Türker (600,000 Euro over three years)
- 2007 **N.H. & M.R.C. Fellowship (SRFB)**. Senior Research Fellowship package for one year (\$119,000)
- 2006 **Strategic Research Scheme, the Faculty Research Committee Award to K.S. Türker** grant-in-aid (\$7,500)
- 2005 **N.H. & M.R.C. Equipment Grant chief investigator** (with Drs. Ridding, Nordstrom, Miles, Townsend and Sampson). Title: Laser Stimulator specific for pain receptors in the skin and mucosa (\$22,500)
- 2005 **Medical Endowment Fund** towards successful NHMRC equipment grant application (\$7,500)
- 2005-2007 **N.H. & M.R.C. Project Grant (#349451) Chief Investigator-CIC** (With Drs Nordstrom, Miles, Thompson). Title: Cortical control of human jaw muscles. (\$373,948 for three years)
- 2005 **Strategic Research Scheme, the Faculty Research Committee Award to K.S. Türker** grant-in-aid (\$3,000)
- 2005 **Faculty of Health Sciences Research Development Award to K.S. Türker**, grant-in-aid (9,000)
- 2005 **Australian Dental Research Foundation** co-chief investigator (with Drs Wiebkin, Kaidonis, Gardner and Stephan). Title: Characterisation of a chewing machine. (\$2,500)
- 2004 **ARC LIEF grant (LE0453073) for Establishment of a South Australian rTMS Facility co-chief investigator** (with: Dr Michael Charles Ridding, Dr Michael Andrew Nordstrom, Prof Timothy Stuart Miles, Prof Philip Thompson, Dr Susan Hillier, Dr Robyn L Young (\$157,000)
- 2003 **N.H. & M.R.C. Equipment Grant co-chief investigator** (with Drs. Mike Ridding, Mike Nordstrom, Tim Miles and Phil Thompson). Title: Magstim basic rapid rate stimulator package. (\$28,280)
- 2002-2006 **N.H. & M.R.C. Fellowship (SRFB)**. Senior Research Fellowship package for five years (\$525,000)
- 2002-2004 **N.H. & M.R.C. Project Grant Sole chief investigator**. Title: Control of mastication by periodontal mechanoreceptors in man. (\$169,000)
- 2002 **Adelaide University Small Research Grant Scheme sole chief investigator**. Title: Deep muscle pain investigated using an experimentally induced pain model. (\$9,081)
- 2001 **ARC Small Grant sole chief investigator**. Title: A study on the distribution of muscle spindle afferent input to masseter motoneurons using the stretch reflex (\$10,000)
- 2000 - 2002 **N.H. & M.R.C. Project Grant Sole chief investigator**. Title: Reflex control of human jaw muscles by periodontal mechanoreceptors (\$363,488)

- 2000 **ARC Small Grant co-chief investigator (with Dr Sheila Scutter).** Title: Is partitioning of muscle spindle afferent input present in human masseter? (\$10,000)
- 1999 **Human Frontiers Science Project Short Term Fellowship.** Title: A study on the synchronous discharge of motoneurons (\$11,000).
- 1999 **N.H. & M.R.C. grant-in-aid receiver.** Title: Reflex control of human jaw muscles by periodontal mechanoreceptors. (\$65,940)
- 1999 **ARC Small Grant sole chief investigator.** Title: Distribution of muscle spindle afferent input to motoneurons of human masseter muscle (\$10,000)
- 1999 **Clive and Vera Ramaciotti Foundation Project Grant sole chief investigator.** Title: Computer-controlled jaw actuator (\$10,000).
- 1999 **University of Adelaide, Division of Health Sciences, Research Committee B1 grant** (10,000).
- 1999 **Faculty of Science, Special Items of Equipment Grant co-chief investigator (with Drs T.S. Miles and M.A. Nordstrom)** (1998-2000) Title: Computerised jaw-actuator and brain stimulator. (\$25,000).
- 1998 **University of Adelaide, Division of Health Sciences, Research Committee B1 grant** (\$10,000).
- 1996 **University of South Australia, Internal Research Development Grant co-chief investigator (with S.D. Scutter)** Title: The effect of chronic whole body vibration on the reflex control of the jaw muscles. (\$14,000)
- 1995-1997 **Faculty of Science, Special Items of Equipment Grant co-chief investigator (with Drs T.S. Miles and M.A. Nordstrom).** Title: EEG laboratory and LabView facility (1995-1997; \$60,000)
- 1995 **Travel grant from the Muscular Dystrophy Association of S.A.** (\$750)
- 1994-1998 **N.H. & M.R.C. project grant sole chief investigator.** Title: Reflex control of human jaw muscles by the mechanoreceptors in the human periodontium. (\$335,540)
- 1993 **Quality Audit Fund Research Scheme co-chief investigator (with Drs G. Scroop, T.S. Miles and M.A. Nordstrom)** Title: Standardization of human neuromuscular control laboratories. (\$20,000)
- 1991-1995 **N.H. & M.R.C. project grant co-chief investigator (with T.S.Miles).** Title: Control of human masticatory muscles (\$292,000)
- 1991: **Travel grant from the University's Venture Company, Luminis** (\$1,000).
- 1990: **University Special Equipment Grant co-chief investigator (with T.S. Miles).** Title: Motor control analysis laboratory (\$45,900)
- 1989: **University Research Grant co-chief investigator (with T.S. Miles).** Title: Quantitative determination of cranial and reflex inputs to spinal motor neurones in man. (\$10,250)
- 1988: **Australian Scientific Instruments grant** (\$1,000)
- 1988: **Muscular Dystrophy Association of S.A.: Travelling grant** (\$800)
- 1988: **University Research Grant co-chief investigator (with T.S. Miles).** Title: Cortical modulation of spinal and jaw reflexes in man (\$4,000)

- 1987-1990: **N.H. & M.R.C. project grant co-chief investigator (with T.S.Miles).** Title: Quantitative analysis of monosynaptic reflexes in human motor units (\$139,686).
- 1987: **Neurosurgical Research Foundation grant co-chief investigator (with T.S.Miles).** Title: A new technique for specifically noxious electro-cutaneous stimulation in man. (\$10,000)
- 1980-1982: **Turkish Research Organization (TUBITAK) grant sole chief investigator.** Title: The effect of noxious electrical stimulation on the parotid gland (about \$5,000).
- 1973-1978: **Turkish Government Ministry of Education grant to study for PhD in the U.K.** (about £5,000 per year for 5 years).

### **POSITIONS HELD**

2011-date	Professor of Physiology at Koç University School of Medicine, Istanbul, Türkiye.
2007-2010	<u>Professor (Marie Curie Chair of the European Union) Center for Brain Research &amp; Department of Physiology, Ege University, Izmir, Türkiye.</u>
2006- 2007	<u>Associate Professor of Physiology, Department of Physiology, University of Adelaide, Australia.</u>
2002-2005	<u>Senior Research Fellow in Physiology, Department of Physiology, University of Adelaide, Australia.</u>
2000-2001	<u>Adelaide University Research Fellow, Department of Physiology, University of Adelaide, Australia.</u>
1991-1999	<u>NH &amp; MRC Research Fellow, Department of Physiology, University of Adelaide, Australia.</u>
1988-1990:	<u>Senior Research Officer, Department of Physiology, University of Adelaide, Australia).</u>
1985-1987:	<u>Research Officer, Department of Physiology, University of Adelaide, Australia.</u>
1983-1984:	<u>Research Associate - Department of Physiology, University of Adelaide, Australia.</u>
1978-1983:	<u>Lecturer - Institute of Physiology, Hacettepe University, Ankara, Turkey.</u>
1975-1978:	<u>Part-time Tutor - Medical and dental students, Institute of Physiology, Glasgow University, Scotland.</u>
1971-1973:	<u>Tutor - in Anatomy and Osteology, Ege University, Izmir, Turkey.</u>

### **MEMBERSHIP OF PROFESSIONAL BODIES**

1977 -	International Association of Dental Research (I.A.D.R.)
1979 -	Turkish Physiological Society (Secretary General 1980-82)
1984 -	I.A.D.R. Neuroscience Group
1985 -	Australian Neuroscience Society (ANS)
1988 -	The Muscular Dystrophy Association of Australia
1988 -	International Brain Research Organization (IBRO)

- 1989 - Australian Physiological and Pharmacological Society (APPS)  
 1999 - American Physiological Society (APS)  
 2000 - Australian Pain Society (APS)

**INVITED LECTURES TO NATIONAL AND INTERNATIONAL INSTITUTIONS**

1. Dept. of Physiology, Tokyo Medical & Dental University, Tokyo, Japan, Nov. 1987.
2. Dept. of Physiology, Nippon Dental University, Niigata, Japan, Nov 1987.
3. Dept. of Physiology, University of Arizona, Tucson, Arizona, U.S.A. Nov. 1987.
4. Barrow Neurological Institute, Phoenix, Arizona, U.S.A. Nov. 1987.
5. Faculty of Dentistry, University of Göteborg, Sweden. Sept. 1988.
6. Dept. of Physiology, University of Göteborg, Sweden. Sept. 1988.
7. Dept. of Physiology, University of Hacettepe, Ankara, Turkey. Oct. 1988.
8. Neuroscience Group, Adelaide University, Adelaide, Australia. Oct. 1989.
9. Faculty of Dentistry, University of Hacettepe, Ankara, Turkey. Oct. 1990.
10. Faculty of Medicine, University of Marmara, Istanbul, Turkey, Oct. 1990.
11. Good Samaritan Hospital, Portland, Oregon, USA, Oct. 1991.
12. Glasgow Dental Hospital, Glasgow, UK, August 1993.
13. Hacettepe Dental Faculty, Ankara, Turkey, August 1993.
14. Faculty of Medicine, University of Hacettepe, Ankara, Turkey, December 1994.
15. Prince of Wales Medical Research Institute, NSW, Australia, July 1995.
16. Faculty of Dentistry, University of Osaka, Osaka - Japan, Nov. 1995.
17. Dept. of Physiology, University of Hacettepe, Ankara, Turkey, July 1996.
18. Neuromuscular Research Center, Boston University, Boston, USA, Oct. 1997.
19. Prince of Wales Medical Research Institute, NSW, Australia, Jan. 1998.
20. Faculty of Dentistry, University of Osaka, Osaka - Japan, Sept. 1998.
21. Dept. of Physiology and Biophysics, Uni. of Washington, Seattle, USA, Nov. 1998
22. Dept. Oral Physiology, Nippon Dental University in Niigata, Japan, Nov. 1998
23. Dept. of Physiology and Biophysics, Uni. of Washington, Seattle, USA, Nov. 1999
24. Dept. Oral Physiology, Nippon Dental University in Niigata, Japan, Nov. 2000
25. Centre for Neuroscience, Flinders University, Adelaide, Australia, April 2001
26. Prince of Wales Medical Research Institute, NSW, Australia, June 2001.
27. Faculty of Dentistry, University of Sydney, Sydney, Australia, June 2001
28. School of Physiotherapy, University of Sydney, Sydney, Australia, June 2001
29. Faculty of Dentistry, University of Washington, Seattle, USA, October 2001
30. Faculty of Dentistry, Karolinska Institute, Stockholm, Sweden, October 2002
31. Department of Physiology, Karolinska Institute, Stockholm, Sweden, October 2002

32. Dept. of Biophysics, Akdeniz University, Antalya, Turkey, October, 2003
33. Dept. of Physiology, University of Hacettepe, Ankara, Turkey, October 2003
34. Faculty of Dentistry, University of Hacettepe, Ankara, Turkey, October 2003
35. Military Academy for Medicine (GATA), Ankara, Turkey, October 2003
36. Rehabilitation Institute of Chicago (RIC), Chicago, USA, June 2004
37. Department of Physiology, Hacettepe University, Ankara, Turkey, September 2004
38. Department of Neurology, University of Siena, Siena, Italy, September, 2004
39. CNRS – NBM Biology of Human Movement, Marseilles, France, October, 2004
40. Department of Physiology, University of Sassari, Sassari, Sardinia, Italy, October, 2004
41. Department of Neurology, University of Rome, Rome, Italy, October, 2004
42. Colgate Australian Clinical Dental Research Centre, Adelaide, Australia, August 2005
43. Faculty of Dentistry, University of Hacettepe, Ankara, Turkey, October 2005
44. Department of Physiology, Aegean University, Izmir, Turkey, October 2005
45. School of Physiotherapy, Chiang Mai University, Thailand, October 2005
46. Faculty of Dentistry, Niigata University, Japan, March 2007
47. Biophysics Department, Ege University, İzmir, Turkey, June 2007
48. EBILTEM (Scientific and Technical Center), Ege University, Turkey, June 2007
49. Faculty of Dentistry, Ege University, Izmir, Turkey, April 2008
50. Department of Computer Sciences, Ege University, Izmir, Turkey, May 2008
51. Faculty of Dentistry, University of Washington, Seattle, USA, June 2008
52. Faculty of Dentistry, Matsumoto University, Matsumoto, Japan, July 2008
53. Faculty of Dentistry, Osaka University, Osaka, Japan, July 2008
54. Faculty of Dentistry, Hacettepe University, Ankara, Turkey, December 2008
55. Clinical Neurophysiology, University College London, UK, October 2009
56. Center for Sensory-Motor Interaction, Aalborg University, Denmark, Nov. 2009
57. Center for Sensory-Motor Interaction, Aalborg University, Denmark, Nov. 2010
58. New Zealand College of Chiropractic, Auckland, New Zealand, August 2012

#### **WORKSHOPS GIVEN AT NATIONAL AND INTERNATIONAL INSTITUTIONS**

- Faculty of Dentistry, Tokyo Medical and Dental University, Tokyo, Japan, Oct. 1991 (**three day workshop on electromyography and reflexes**).
- Brain Research Institute, Ege University, Izmir, Turkey, December 1999 (**one day workshop on synaptic potential measurements in human motoneurons**).
- Faculty of Medicine, University of Hacettepe, Ankara, Turkey, Jan. 2000 (**one day workshop on synaptic potential measurements in human motoneurons**).

- Department of Oral Physiology, Nippon Dental University in Niigata, Japan, Nov. 21 2000 (**one day workshop on electromyography and its usage in human masticatory research**).
- Faculty of Medicine, University of Hacettepe, Ankara, Turkey, 24 October 2003 (**one day workshop on synaptic potential measurements in human motoneurons**).
- 32<sup>nd</sup> Turkish Physiological Society Meeting, Denizli, Turkey, 18 September 2006 (**one day workshop on Reflexology**).
- **One day workshop and lectures at the EBAT – National Neurobiology Summer School – Higher Functions of the Nervous System**, Ege University, Bornova, Izmir (22 August 2007).
- **One day workshop on EMG and reflexes** at the 33<sup>rd</sup> Turkish Neuroscience Society Meeting, (16-20 April 2008; Adana, Turkey)
- **One day workshop on reflexes** on single human motor units; jointly organized with the Neurology Department of Adnan Menderes University (26 September, 2008; Aydın, Turkey)
- **International Workshop and Conference on Human Reflexes: Wiring and Firing of Human Motoneurons** Gave two invited lectures and performed all demonstrations during the workshop. Lecture titles: “Single unit EMG: methods for recording and analysing” ; “What and how reflexes can tell us about the conditions of the human nervous system (11-15 May 2009; Ege University, İzmir, Turkey)
- **One day workshop at the 26<sup>th</sup> National Clinical Neurophysiology EEG-EMG Congress** Workshop title: Peristimulus time histogram (PSTH) (31 March-4 April 2010; Antalya, Turkey).
- **One day workshop (2 workshops) at the 22<sup>nd</sup> National Biophysics Congress**. Titles of the workshops: EMG; Reflexes. (28 September – 1 October 2010, Aydın, Turkey).
- **Two day workshop on EMG and its usage in Sports Sciences**: Anadolu University Sports Science Institute, Eskişehir, Turkey (25-26 January 2011).
- **One day workshop (2 workshops) at the 38<sup>th</sup> National Physiology Congress**. Titles of the workshops: EMG; Reflexes. (28 September – 1 October 2012, Karadeniz Technical University, Trabzon, Turkey).
- **Half day workshop at the 9<sup>th</sup> International Symposium on Computer Science in Sports**. Title of the workshop: Feedback control of movement (19 – 22 June 2013, Istanbul, Turkey).
- **One day workshop (2 workshops) at the 39<sup>th</sup> National Physiology Congress**. Titles of the workshops: EMG and Human Reflexes. (10-14 September 2013, Hacettepe University, Ankara, Turkey).
- **One day workshop at the 12<sup>th</sup> National Neuroscience Congress**. Titles of the workshops: Determination of the pathways in the human nervous system. (28-31 May 2014, Istanbul, Turkey).

#### **KEYNOTE LECTURES AT NATIONAL AND INTERNATIONAL CONFERENCES and SYMPOSIA**

1. **International Union of Physiological Sciences (IUPS) Satellite Symposium Invited Lecture**, title: "Orofacial Sensory Function". Vancouver, Canada. 10-11 July 1986.
2. **International Association for Dental Research (IADR) Satellite Symposium Invited Keynote lecture**, title: "EMG of jaw reflexes in man". Leuven, Belgium. September 1988.

3. **Australian Physiotherapy Association National Congress. Invited Lecture**, title: "Recording and Interpreting electromyography: cautions to be taken and pitfalls to be avoided". Adelaide, July 1992.
4. **Boden Research Conference: Muscle afferents and motor control in health and disease. Invited talk**, title: "Periodontal mechanoreceptors - dual systems for sensory processing". Thredbo, Snowy Mountains, N.S.W. Australia. 8-10 Feb. 1993.
5. **VIII International Symposium on Motor Control. Invited Lecture**, title: "Evidence that the membrane potential does not approach to firing threshold linearly in tonically-active human tibialis motoneurons". Borovetz, Bulgaria, 23-27 June 1996.
6. **International Symposium on Neurobiology of Mastication - From molecular to systems approach, Invited Keynote lecture**, title: "Reflex control of human masticatory muscles". Tokyo, 5-7 November 1998.
7. **International Association for Dental Research - Australian & New Zealand Division - Temporomandibular Joint Symposium; Invited Keynote lecture**, title: "Are the facial muscles and teeth relevant?" Adelaide, Australia, 29 September 1999.
8. **The Australian Jaw Joint Project's Provocative Update on Temporomandibular Joint Disorders - Research Meets Clinical Practice. Invited Keynote lecture**, Title: Challenges of human experiments with regard to control of mastication. Adelaide, Australia, 20-21 October 2000.
9. **Australian Neuro Practitioners Association General Meeting - Keynote Lecture - Title: Cutaneous receptors and their effect on muscle tone.** Adelaide, Australia, 7 May 2001.
10. **Fifteenth National Biophysics Conference – Keynote Lecture – Title: Synaptic potential recording from human motoneurons.** Denizli, Turkey, 11 October 2003.
11. **International Association for Dental Research (IADR General Session Meeting) - invited lecture - at the Symposium: Neural control of chewing.** Title of my talk: Control of human mastication. (Honolulu, Hawaii; March 2004).
12. **International Society for Electromyography and Kinesiology (ISEK) meeting – Invited Lecture – Title: Synaptic potential measurement in human motoneurons.** (Boston, USA: June 2004).
13. **31<sup>st</sup> Turkish Physiological Sciences Meeting – Invited Lecture: Estimation of synaptic potentials in human motoneurons.** (Gaziantep-Turkey; 27 September – 1 October 2005)
14. **International Mastication Symposium – Keynote Address – Title: Control of human mastication by periodontal mechanoreceptors** (Brisbane, Australia: 24-25 June 2006)
15. **32<sup>nd</sup> Turkish Physiological Sciences Meeting – Invited Lecture: Human reflexes; methods of determination and standardization** (Denizli-Turkey; 18-22 September 2006)
16. **84<sup>th</sup> Annual Meeting of the Physiological Society of Japan – Invited Keynote Lecture: Reflex control of human mastication.** (Osaka, Japan: 20-22 March 2007)
17. **Irregular Systems: Theory and Practise Working Group's 7th National Symposium – two Invited Lectures: "Human reflexes; regular appearing but irregular short circuits-I and -II."** (21–27 August 2007, Karaburun, Izmir, Turkey)
18. **33<sup>rd</sup> Turkish Physiological Sciences Meeting – Invited Lecture: "Usage of EMG in physiology research"** (Girne-Cyprus; 17-20 October 2007)

19. **Turkish Neuroscience Society Meeting – Invited Lecture:** “An investigation on the common input to human motoneurons” (16-20 April 2008; Adana, Turkey)
20. **Mechanism of plasticity and disease in motoneurons – Invited Talk:** “Analyses of human reflexes using peristimulus frequencygram: rewiring the human nervous system” (Seattle, USA; 26-29 June 2008)
21. **8<sup>th</sup> National Symposium Irregular Systems Symposium. Invited Lecture:** “Frequency analysis towards understanding of the map of the human nervous system” (1-10 September, 2008; Karaburun, İzmir, Turkey)
22. **34<sup>th</sup> Turkish Physiological Sciences Meeting – Invited Lecture:** “Determination of human synaptic connections” (Erzurum-Turkey; 8-12 October 2008)
23. **10<sup>th</sup> Annual Meeting of the Aegean Dental Association: Invited Opening Lecture:** “Towards the establishment of the electrical map of human mastication and using it in clinical settings.” (İzmir, Turkey; 28-30 November 2008)
24. **Electromyography in Sport Sciences: Invited Speaker:** Titles of lectures delivered: “EMG Analyses” and “Does teeth clench influence muscle strength?” (Ankara, Turkey; 28 – 29 November 2008)
25. **25<sup>th</sup> National Clinical Neurophysiology EEG-EMG Congress** Invited lecture title: Standardization of the H-reflex (31 March-4 April 2009; Antalya, Turkey).
26. **Turkish Neuroscience Society Meeting – Invited Lecture:** “Control of jaw human jaw muscles” (16-20 April 2009; Bolu, Turkey)
27. **International Workshop and Conference on Human Reflexes: Wiring and Firing of Human Motoneurons** Invited lecture title: “Investigation of cortical silent period with the use of peristimulus frequencygram (11-15 May 2009; Ege University, İzmir, Turkey)
28. **9<sup>th</sup> National Symposium Irregular Systems Symposium. Invited Lectures:** “What is bioelectricity?” and “What is pain?” (20-27 August, 2009; Karaburun, İzmir, Turkey)
29. **26<sup>th</sup> National Clinical Neurophysiology EEG-EMG Congress** Invited lecture title: Mapping of the human nervous system (31 March-4 April 2010; Antalya, Turkey).
30. **Towards translational research in motoneurons – Invited Talk:** “Investigation of synaptic inputs to human motoneurons using frequency-based analysis; peristimulus frequencygram” (Paris, France; 9-13 July 2010)
31. **15<sup>th</sup> Annual European Congress of Sport Science (ECSS) Meeting: Organized and Chaired Invited Satellite Meeting entitled: "Does teeth clenching influence muscle strength?"** 23 June, 08:30-10:00, Hall 3\_Speakers: Meltem Tuncer "The Relationship Between Handgrip Strength And Masticatory Receptors"; *Hajime Sato*, Kemal S. Türker "Voluntary Teeth Clenching Reduces Abduction Forces In Human Arm"; Kemal S. Türker "Effect Of Teeth Clench On Soleus H-Reflex" (23-26 June 2010, Antalya, Turkey)
32. **22<sup>nd</sup> National Biophysics Congress** Invited lecture: “Methods for determining functional wiring of the human nervous system”. (28 September – 1 October 2010; Aydın, Turkey)
33. **International Centre of Biocybernetics, Polish Academy of Sciences, 117<sup>th</sup> ICB Seminar: Motoneurons: Their inputs and outputs. Invited lecture title:** “Reflexes as tools to study functional synaptic connections of human motoneurons”. 5-6 September 2011, Warsaw, Poland

34. **DEMOVE Symposium: Translational Engineering in Neurorehabilitation 2012 invited lecture:** “New developments on the methods to investigate human spinal circuits in vivo”. (21-22 June 2012; Universitätsmedizin Göttingen (UMG))
35. **19<sup>th</sup> Istanbul Statistical Physics Days Invited lecture:** “Development of new methods to estimate networks in the human nervous system”. 28-30 June 2012, Sabanci University, Istanbul, Turkey
36. **XIX<sup>th</sup> Congress of the International Electrophysiology and Kinesiology (ISEK) invited talk:** “Reflex responses of human masseter motor units to mechanical stimulation of the teeth”. 19-21 July 2012, Brisbane, Australia
37. **International Motoneurone Meeting invited talk:** “Frequency analysis of the reflex responses of human masseter motor units” 23-26 July 2012, Sydney, Australia
38. **Symposium of Neuromuscular Disease invited lecture:** “Principles and applications of EMG”. 21-22 September 2012, Split, Croatia
39. **38<sup>th</sup> National Physiological Sciences Meeting invited lecture:** “Control of chewing in human subjects”. 25-29 September 2012, Karadeniz Technical University, Trabzon, Turkey
40. **9<sup>th</sup> International Symposium on Computer Science in Sports Keynote lecture:** “Control of movement: Proprioception and feedback mechanisms”. 18 – 22 June 2013, Istanbul, Turkey
41. **39<sup>th</sup> National Physiological Sciences Meeting invited lecture:** “Feedback control of human movement”. 10-14 September 2013, Hacettepe University, Ankara, Turkey
42. **1<sup>st</sup> International Jaw Functional Orthopedics invited lecture:** “Reflex control of human mastication”. 9-11 November 2013, Istanbul, Turkey.
43. **International Conference on NeuroRehabilitation invited Special Session lecture:** “Marvels of a gentle squeeze: Effects of chiropractic manipulation on the neuromuscular system”. 24-26 June 2014, Aalborg, Denmark.
44. **International Motoneuron Meeting invited talk:** “A new method to determine reflex latency induced by high rate stimulation of the nervous system”. 15-19 June 2014, Halifax, Canada.

#### **OTHER SCHOLARLY ACTIVITIES**

- **Chaired two sessions at the 19<sup>th</sup> International Symposium on Computer Science in Sports.** 18 – 22 June 2013, Istanbul, Turkey
- **Chaired an oral session at the XIX<sup>th</sup> Congress of the International Electrophysiology and Kinesiology (ISEK) meeting.** 19-21 July 2012, Brisbane, Australia
- **Chaired a poster session at the XIX<sup>th</sup> Congress of the International Electrophysiology and Kinesiology (ISEK) meeting.** 19-21 July 2012, Brisbane, Australia
- **Chair of the Scientific Committee** for the Federation of the European Physiological Sciences (FEPS) 2011 Conference jointly held with the Turkish Physiological Society (Yeditepe University - Istanbul – Turkey; 3-7 Sept 2011).
- **Guest Editor** for the Special Section on Human Reflexes in the journal **Clinical Neurophysiology** 2010.

- **Chair of the scientific and organizing committees for the International Workshop And Conference On Human Reflexes: Wiring And Firing Of Human Motoneurons** (11-15 May 2009; Ege University, İzmir, Turkey)
- **Associate Editor** for the Special issue on Mastication in the **Archives of oral Biology** – 2006-2007.
- **Chair of the scientific and organizing committees for the international mastication symposium** (as a satellite to the international association for dental research, IADR, annual conference) (26-27 June 2006, Brisbane, Australia)
- **Chair of the organizing committee for the symposium on ‘Motor Control’** as a satellite to the 23<sup>rd</sup> annual Australian Neuroscience Society meeting in Adelaide (January 2003). This meeting has now become an annual event attached to the ANS meetings.
- **Panel Member** for the National Health and Medical Research Council Grant Review Process 2006.
- **Organizer** (as a member of the local committee) of the 23<sup>rd</sup> annual Australian Neuroscience Society Meeting held in Adelaide-2003.
- **Programming Committee** for the VIII Mediterranean Conference on Medical and Biological Engineering and Computing (Medicon’98) Conference. June 14-17, 1998, Lemesos, Cyprus.
- **Chaired** the session on Neuroscience at the International Association for Dental Research Meeting in Honolulu, Hawaii in March 2004.
- **Chaired** the session on Motor Units at the International Society for Electromyography and Kinesiology (ISEK) meeting, Boston, USA in June 2004.
- **Chaired** the session on Neurobiology for the South Australian Division of the Australian Society for Medical Research meeting (2003).
- **Chaired** sessions at the Australian Neuroscience Society meetings (1989, 1996, 2002, 2003).
- **Chaired** a panel of assessors for the student prize applications for the Australian Neuroscience Society (1997, 2002, 2003).
- **Chaired** the session on Neuroscience at the International Association for Dental Research Meeting (Leuven, Belgium, 1988).
- **Chaired** a session at the 32<sup>nd</sup> Turkish Physiological Sciences Meeting (Denizli-Turkey; 18-22 September 2006)
- **Chaired** a session at the 33<sup>rd</sup> Turkish Physiological Sciences Meeting (Girne-Cyprus; 17-20 October 2007)
- **Chaired** a session at the International Motor Control Symposium held June 1996 in Borovetz, Bulgaria.
- **Reviewer for international journals:** Journal of Physiology, Journal of Neurophysiology, Experimental Brain Research, Brain Research, Neuroscience, Clinical Neurophysiology, Neuroscience Letters, Journal of Neuroscience Methods, Neuroscience Research, Journal of Applied Physiology, Archives of Oral Biology, Journal of Dental Research, Critical Review in Oral Biology and Medicine, Muscle & Nerve, Journal of Craniomandibular Disorders, Biomedical Central (BMC) Oral Health, Archives of Medical Research, Australian Journal of Physiotherapy, Australian Dental Journal, Journal of Human Comparative Biology, The Angle Orthodontist; Journal of NeuroEngineering and Rehabilitation; BioMedical Engineering OnLine; Annals of Biomedical Engineering; Journal of Biomechanics (about 30 manuscripts/year).
- **Reviewer** for National Health and Medical Research Council (NH&MRC) of Australia, Australian Dental Research Foundation and Dental Board of New South Wales project grant applications (about 5 grants/year; until 2008).

- **Reviewer** for Health Research Council of New Zealand grant applications (occasional reviewer until 2008).
- **Reviewer** for the Department of Industry, Science and Technology, Bilateral Science and Technology Collaboration Program grant applications (occasional reviewer until 2008).
- **Assessor** of postgraduate theses for various Australian and overseas Universities (about 2 theses/year; continuing).

## **POSTGRADUATE SUPERVISION**

### **Sole or Joint Supervision of Honours Students**

1. Le, T.H. (1987) “H-reflex and related inhibitory periods in human single motor units”
2. Vinczer, E. (1989) “Reflex responses of human masseter motor units to electrical stimulation of the lip”
3. Warren, J.D. (1989) “Membrane noise in human alpha motor neurones”
4. Semmler, J.G. (1992) “Estimation of synaptic potentials in tibialis anterior motoneurons in humans”
5. Williams, J. (1992) “Exteroceptive jaw reflexes in human subjects”
6. Tan, J.H.C. (1996) “Decreased amplitude of masseter inhibitory reflex in trigeminal neuralgia patients”
7. Jenkins, M. (1997) “The reflex response in the masseter muscles to tooth unloading”
8. Abolfathi, P. (1997) “Mastication simulator”
9. O’Connor, S. (1999) “How aging affects identification of the H-reflex in human masseter”
10. Mamo, A. (1999) “Data acquisition and analysis system implemented on a LabView system”
11. Male, C. (2004) “Reflex connection of the periodontal mechanoreceptors in the molar teeth”
12. Dang, H.Q. (2007) “Reflex control of human mastication by periodontal mechanoreceptors”

### **Sole or Joint Supervision of Masters Students**

1. Dowd, C. (1992) “An electromyographic study of the abdominal muscles in various exercise positions”
2. Mosler, A. (1994) “The relationship between scapular movement and electromyographic manifestations of fatigue of the serratus anterior muscle”
3. Gill, V. (1994) “The development and reliability of a novel technique for muscle signal analysis in the female pelvic floor muscles”

4. Hurley, A.D. (1995) “The activity of four thoracoscapular muscles during fatigue of serratus anterior”
5. Liebich, S. (1995) “The activity of four thoracoscapular muscles during fatigue of serratus anterior: An electromyographic study of intra-subject repeatability”
6. Townsend, D.M. (2003) “A prospective study of twin block appliance therapy in male adult obstructive sleep apnoea patients assessed by radiography polysomnography and muscle testing”

### **Sole or Joint Supervision of PhD Students:**

#### **In Australia**

1. Yang, J. (1999) “Reflex control of human jaw muscles by periodontal mechanoreceptors”
2. Scutter, S. (1999) “The H-reflex in human masseter”
3. Chintakanon, K. (1999) “A prospective study of twin block appliance therapy in children with class II division I malocclusions assessed by MRI, 3D-cephlometry and muscle testing”
4. Brinkworth, R.S.A. (2004) “Control of human mastication by periodontal mechanoreceptors”
5. Tucker, K.J. (2006) “Methodological considerations and the effect of pain on the H-reflex and maximal M-wave in the human triceps surae”
6. Sowman, P.F. (2007) “Coherence analysis of human mastication”
7. Naser-ud-din, S. (2009) “Modulation of jaw reflexes”

#### **In Türkiye (PhD and Masters students)**

1. Erdal Binboğa; “Synaptic connection of spindle afferents to motoneurons of the soleus muscle” (2007 – 2010: Successfully completed his PhD)
2. Mehmet Cemal Kahya; “ A study of cutaneous silent period in single motor units of the FDI muscle” (2007 – 2010: Successfully completed his PhD)
3. Utku Yavuz; “Effect of gender and age on electromechanical delay” (2007 – 2012; Successfully completed his PhD)
4. Önder Gürçan; “Towards Exploration of Synaptic Functional Connectivity in Human Central Nervous System using Self-Organizing Agents: A Simulation Study on Human Single Motor Unit” (2009 – 2013; Successfully completed his PhD)
5. Sibel Atış; “Modulation of jaw reflexes during simulated mastication” (2007 – 2014; final year of her PhD)
6. Paulius Inucius (PhD student from Lithuania); “Control of jaw muscles in human subjects” (2010 – 2014; final year of his PhD)
7. Gizem Yılmaz (Koç University MSc student): “EMG interference in the EEG” (2012 - 2014 final year of her Master’s program)

## **1. BOOKS / MONOGRAPHS / SYMPOSIA/BOOK CHAPTER**

### **1.1 SOLE AUTHOR WORKS**

1. [TÜRKER, K.S. (1983) Sarcomere length in jaw muscles. Turkish Research Association (*TUBITAK*) *VIIth Scientific Congress Proceedings*, 523-532.] In Turkish.
2. TÜRKER, K.S. (1993) Functional connections between receptors and muscles: an electrical stimulation study. *Proceedings for the Australian Conference on Technology for People with Disabilities*, Regency Park Centre, Adelaide, South Australia, pp: 147-149.
3. TÜRKER, K.S. (1996) Evidence that the membrane potential does not approach firing threshold linearly in tonically active human tibialis motoneurons. *Motor Control VIII: Proceedings of the International Symposium on Motor Control*. Eds: G.N. Gantchev et al., Academic Publishing House, Bulgarian Academy of Sciences, Sofia, Bulgaria, pp: 17-20.

### **JOINT AUTHOR WORKS**

4. TÜRKER, K.S. and MILES, T.S. (1989) Inhibitory jaw reflexes in human masseter muscle. In: *Electromyography of jaw reflexes in man*, eds. D. van Steenberghe & A. De Laat, Leuven University Press, Belgium, pp. 237-256.
5. TÜRKER, K.S., MILES, T.S., SMITH, N. and NORDSTROM, M.A. (1989) On-line discrimination of unit potentials on the basis of their waveforms: a new approach implemented on a personal computer. In: *Electromyography of jaw reflexes in man*, eds. D. van Steenberghe & A. De Laat, Leuven University Press, Belgium, pp. 445-451.
6. BRODIN, P and TÜRKER, K.S. (1995) Reflex control of human jaw muscles by the mechanoreceptors in the periodontium. In: *Alpha and gamma motor systems*. Eds: A. Taylor, M.M. Gladden & R. Durbaba, Plenum Press, New York, pp. 505-507.
7. TÜRKER, K.S., S.D. SCUTTER; J. YANG; M. JENKINS; K.J. TUCKER AND P.P. ABOLFATHI (1999) Reflex control of masticatory muscles in man. In: Symposium on Neurobiology of Mastication - From Molecular to Systems Approach, Ed: Y. Nakamura, *Excerpta Medica International Congress Series*, Vol:1186; 337-353.
8. SCUTTER, S.D. and TÜRKER, K.S. (1999) Muscle spindle afferent input to motoneurons in the human masseter. In: Symposium on Neurobiology of Mastication - From Molecular to Systems Approach, Ed: Y. Nakamura, *Excerpta Medica International Congress Series*, Vol:1186; 266-269.
9. ABOLFATHI, P.P., NEZARAN, H. and TÜRKER, K.S. (1999) Simulation of mastication using software controlled dynamic bite bar apparatus. *Proceedings of IEEE Engineering in Medicine and Biology Society - IEEE/EMBS (Vic)*; Eds: B. Lithgow & I. Cosic; Melbourne University, Victoria, Australia. pp: 76-79.
10. POWERS, R.K. and TÜRKER, K.S. (2001) Investigating the Synaptic Control of Human Motoneurons: New Techniques, Analysis and Insight from Animal Models. In: *Motor Neurobiology of the Spinal Cord*; Edited by: Timothy C. Cope. Methods in New Frontiers in Neuroscience, CRC Press, New York, pp: 107-133.

11. McLAUGHLIN, L. and TÜRKER, K.S. (2003) Would experimental pain or the anticipation of pain influence the size of the H-reflex in human jaw muscles? A pilot study using novel methodology. **The Australian Pain Society Newsletter**, February 2003:2-4.
12. MCNULTY, P., TÜRKER, K.S., FALLON, J., BENT, L. and MACEFIELD, V.G. (2004) The role of cutaneous afferents in motor control. In: *Active Dendrites in Motor Neurons*, Ed: R. Enoka, University of Colorado, Boulder, Colorado.
13. GÜRCAN, Ö., DIKENELLI, O. and TÜRKER, K.S. (2010) Agent-based exploration of wiring of biological neural networks: Position paper. In: Ronald Trumph, editor, **20<sup>th</sup> European Meeting on Cybernetics and Systems Research (EMCSR 2010)**, pages 509-514, Vienna, Austria.
14. TÜRKER, K.S., SEBIK, O. (2011) Reflexes as tools to study functional synaptic connections of human motoneurons. **117<sup>th</sup> ICB Seminar. Motoneurons: Their inputs and outputs.** Warsaw, 4-7 September 2011; pages: 51-54.
15. GÜRCAN, Ö., BERNON, C., TÜRKER, K.S., MANO, J.-P., GLIZE, P. and DIKENELLI, O. (2012) Simulating Human Single Motor Units using Self-Organizing Agents. **2012 IEEE Sixth International Conference on Self-Adaptive and Self-Organizing Systems; pp:11-20.**
16. HAAVIK, H. NIAZI, I.K., DUEHR, J., KINGET, M., UGINCIUS, P., SEBIK, O., YILMAZ, G., TÜRKER, K.S. (2014) Chiropractic alters TMS induced motor neuronal excitability: Preliminary findings. **ICNR-2014 Conference Book; pp:35-37.**

## 2. JOURNAL ARTICLES

### 2.1 REFEREED JOURNALS

#### 2.1.1 SOLE AUTHOR ARTICLES

1. [TÜRKER, K.S. (1981a) A physiological method for measuring the ideal denture height. **Hacettepe University Dental Faculty Journal**, 5:73-77.] In Turkish.
2. [TÜRKER, K.S. (1981b) Isometric tetanic tensions in the jaw muscles of the cat. **Hacettepe University Dental Faculty Journal**, 5:15-23.] In Turkish.
3. TÜRKER, K.S. (1988) A method for standardization of silent period measurements in human masseter muscle. **Journal of Oral Rehabilitation**, 15:91-101.
4. TÜRKER, K.S. (1993) Electromyography: Some methodological problems and issues - Professional Perspective, **Physical Therapy**, 73:698-710.
5. TÜRKER, K.S. (1995) The shape of the membrane potential trajectory in tonically-active human motoneurons. **Journal of Electromyography and Kinesiology**, 5:3-14.
6. TÜRKER, K.S. (2002) Reflex control of human jaw muscles. **Critical Review in Oral Biology and Medicine**, 13:85-104.
7. TÜRKER, K.S. (2006) Understanding disorders of the masticatory system (Editorial). **Archives of Oral Biology**, 51: 711-712.

8. TÜRKER, K.S. (2007) Exteroceptive suppression of the jaw closing muscle electromyogram: Methodological issues applicable to all human reflex studies (**Editorial**). **Clinical Neurophysiology**, 118: 951-953.
9. TÜRKER, K.S. (2010) Muscle pain theories: Is there a third dimension? (**Editorial**) **Clinical Neurophysiology**, 121: 634-635.
10. TÜRKER, K.S. (2010) Muscle Reflexes as tools to study human neuromuscular system (**Editorial**) **Clinical Neurophysiology**, 121: 1599-1601.

#### **2.1.2 JOINT AUTHOR ARTICLES:**

11. MACKENNA, B.R. and TÜRKER, K.S. (1978) Twitch tension in the jaw muscles of the cat at various degrees of mouth opening. **Archives of Oral Biology**, 23:917-920.
12. [ÖZEN, B., TÜRKER, K.S., RIDVANAGAOGLU, A.Y., UGUR, Y. and BALKANCI, D. (1981) Effect of vagal stimulation on the kidney functions. **Hacettepe University Medical and Surgical Bulletin**, 14:395-401.] In Turkish.
13. [ÖZEN, B., RIDVANAGAOGLU, A.Y., TÜRKER, K.S., UGUR, Y. and BALKANCI, D. (1981a) The effect of total parasympathectomy on kidney functions. **Hacettepe University Medical and Surgical Bulletin**, 14:446-452.] In Turkish.
14. [ÖZEN, B., RIDVANAGAOGLU, A.Y., TÜRKER, K.S., UGUR, Y. and BALKANCI, D. (1981b) The effect of parasympathetics on the tubular functions of the kidney. **Hacettepe University Medical and Surgical Bulletin**, 14:461-470.] In Turkish.
15. [TÜRKER, K.S., BALKANCI, D., CEBI, S. and KUTLAR, F. (1983) The effect of noxious electrical stimulation on the parotid gland secretion. **Journal of Nature and Science**, Series C, Vol. 7, 344-352.] In Turkish.
16. MACKENNA, B.R. and TÜRKER, K.S. (1983) Jaw separation and maximum incising force. **Journal of Prosthetic Dentistry**, 49:726-730.
17. TÜRKER, K.S., and MACKENNA, B.R. (1984) The effect of temperature on the contraction characteristics of jaw muscles in the cat. **Archives of Oral Biology**, 29:477-478.
18. TÜRKER, K.S. and MILES, T.S. (1984) Harmaline disrupts acquisition of conditioned nictitating membrane responses. **Brain Research Bulletin**, 13:229-234.
19. TÜRKER, K.S. and MILES, T.S. (1985) Effect of stimulus intensity and gape on the electrically evoked human jaw reflexes. **Archives of Oral Biology**, 30:621-626.
20. MILES, T.S., NORDSTROM, M.A. and TÜRKER, K.S. (1986) Length related changes in activation threshold and waveform of motor units in human masseter muscle. **Journal of Physiology (London)**, 370:457-465.
21. TÜRKER, K.S. and MILES, T.S. (1986) Climbing fibre lesions disrupt conditioning of the nictitating membrane response in rabbits. **Brain Research**, 363:376-378.
22. MILES, T.S. and TÜRKER, K.S. (1986) Does reflex inhibition of motor units follow the "Size Principle"? **Experimental Brain Research**, 62:443-445.
23. MILES, T.S., TÜRKER, K.S. and NORDSTROM, M.A. (1987) Reflex responses of motor units in human masseter muscle to electrical stimulation of the lip. **Experimental Brain Research**, 65:331-336.

24. MILES, T.S. and TÜRKER, K.S. (1987) Decomposition of human electro-myogramme in an inhibitory reflex. **Experimental Brain Research**, 65:337-342.
25. MILES, T.S., WOODLAND, M.J., NORDSTROM, M.A., VEALE, J.L. and TÜRKER, K.S. (1987) A circuit for improving the precision of the spike-triggered averaging technique. **Journal of Electrophysiological Techniques**, 14:85-90.
26. TÜRKER, K.S., MILES, T.S. and LE, T.H. (1988) The lip-clip: a simple, low-impedance ground electrode for use in human electro-physiology. **Brain Research Bulletin**, 21:139-141.
27. TÜRKER, K.S. and MILES, T.S. (1989) Surface electromyography, force and single motor-unit data for inhibitory reflex responses in human masseter muscle at two levels of excitatory drive. **Archives of Oral Biology**, 34:731-737.
28. TÜRKER, K.S., SEGUIN, J.J. and MILES, T.S. (1989) Modulation of an inhibitory reflex in single motor units in human masseter at different joint angles. **Neuroscience Letters**, 100:157-163.
29. TÜRKER, K.S., WILKINSON, T.M. and MILES, T.S. (1989) A comparison of masseteric silent period in temporomandibular joint dysfunction patients and normal subjects by surface electromyography and single motor unit recordings. **Archives of Oral Biology**, 34:943-948.
30. MILES, T.S., TÜRKER, K.S. and LE, T.H. (1989) Ia reflexes and EPSPs in human soleus motor neurones. **Experimental Brain Research**, 77:628-636.
31. MILES, T.S., LE, T.H. and TÜRKER, K.S. (1989) Biphasic inhibitory responses and their IPSPs in soleus motor neurones in man. **Experimental Brain Research**, 77:637-646.
32. HASCELİK, Z., BASGOZE, O., TÜRKER, K., NORMAN, S. and OZKER, R. (1989) The effect of physical training on physical fitness tests and auditory and visual reaction times of volleyball players. **Journal of Sport Medicine and Physical Fitness**, 29:234-239.
33. TÜRKER, K.S., WILKINSON, T.A. and MILES, T.S. (1990) Silent periods in dysfunction patients: a preliminary study using a novel approach. **Australian Dental Journal**, 35:42-45.
34. TÜRKER, K.S. and MILES, T.S. (1990) Cross-talk from other muscles can contaminate EMG signals in reflex studies of the human leg. **Neuroscience Letters**, 111:164-169.
35. NORDSTROM, M.A., MILES, T.S. and TÜRKER, K.S. (1990) Synchronization of motor units in human masseter during a prolonged isometric contraction. **Journal of Physiology (London)**, 426:409-421.
36. TÜRKER, K.S. and MILES, T.S. (1991) Threshold depolarization measurements in resting human motoneurons. **Journal of Neuroscience Methods**, 39:103-107.
37. SATO, T., MILES, T.S., TÜRKER, K.S. and FLAVEL, S. (1992) A simple, cheap stimulator for periodontal mechanoreceptors in human subjects. **Journal de Biologie Buccale**, 20:231-234.
38. [SATO, T., MILES, T.S. and TÜRKER, K.S. (1993) Reflex responses of masseter muscles evoked from specific stimulation of periodontal receptors. **Japanese Journal of Stomatognathic Function**, 11:3-10] In Japanese

39. WARREN, J., MILES, T.S. and TÜRKER, K.S. (1993) Properties of synaptic noise in tonically-active human motoneurons. **Journal of Electromyography and Kinesiology**, 2:189-202.
40. BRODIN, P., TÜRKER, K.S. and MILES, T.S. (1993) Mechanoreceptors around the tooth evoke inhibitory and excitatory reflexes in the human masseter muscle. **Journal of Physiology (London)**, 464:711-723.
41. BRODIN, P., MILES, T.S. and TÜRKER, K.S. (1993) Simple reaction time responses in human masseter muscle. **Archives of Oral Biology**, 38:221-226.
42. SATO, T., TÜRKER, K.S. and MILES, T.S. (1994) Reflex responses to periodontal and auditory stimulation in human masseter. **Journal of oral Rehabilitation**, 21:287-297.
43. TÜRKER, K.S. and CHENG, H.B. (1994) Motor-unit firing frequency can be used for the estimation of synaptic potentials in human motoneurons. **Journal of Neuroscience Methods**, 53:225-234.
44. TÜRKER, K.S., BRODIN, P. and MILES, T.S. (1994) Reflex responses of motor units in human masseter muscle to mechanical stimulation of a tooth. **Experimental Brain Research**, 100:307-315.
45. BRODIN, P. and TÜRKER, K.S. (1994) Electrical stimulation of the lip can evoke excitatory or inhibitory response in the human masseter muscle depending on the stimulus parameters. **Archives of oral Biology**, 39:701-706.
46. SEMMLER, J.G. and TÜRKER, K.S. (1994) Reflex responses of human tibialis anterior motoneurons to low-threshold electrical stimulation of the common peroneal nerve. **Neuroscience Letters**, 178:206-210.
47. TÜRKER, K.S., SCHMIED, A. and CHENG, H.B. (1996) Correlated changes in the firing rate of human motor units during voluntary contraction. **Experimental Brain Research**, 111:455-464.
48. SCUTTER, S., TÜRKER, K.S., and HALL, R. (1997) Incidence of headaches and neck pain in farmers. **Australian Journal of Rural Health**, 5:2-5.
49. TÜRKER, K.S., YANG, J. and BRODIN, P. (1997) Conditions for excitatory and inhibitory masseteric reflexes elicited by tooth pressure in man. **Archives of oral Biology**, 42:121-128.
50. TÜRKER, K.S., YANG, J. and SCUTTER, S. (1997) Tendon tap induces a single long lasting excitatory reflex in the motoneurons of human soleus muscle, **Experimental Brain Research**, 115:169-173.
51. SCUTTER, S.D., TÜRKER, K.S., and YANG, J. (1997) A new method for eliciting and studying H-reflexes in the human masseter. **Archives of oral Biology**, 42:371-376.
52. SCUTTER, S.D. and TÜRKER, K.S. (1998) Recruitment stability in masseter motor units during isometric voluntary contractions. **Muscle & Nerve**, 21:1290-1298.
53. YANG, J. and TÜRKER, K.S. (1999) Jaw reflexes evoked by mechanical stimulation of teeth in man. **Journal of Neurophysiology**, 81:2156-2163.
54. SCUTTER, S.D. and TÜRKER, K.S. (1999) Muscle spindle afferent input favours large motoneurons in human masseter. **Journal of Neurophysiology**, 82:505-507.

55. TÜRKER, K.S. and POWERS, R.K. (1999) Effects of large excitatory and inhibitory inputs on motoneuron discharge rate and probability. **Journal of Neurophysiology**, 82:829-840.
56. McNULTY, P.A., TÜRKER, K.S. and MACEFIELD, V.G. (1999) Evidence for strong synaptic coupling between single tactile afferents and motoneurons supplying the human hand. **Journal of Physiology**, 518:883-893.
57. CHINTAKANON, K., SAMPSON, W.J., TOWNSEND, G.C., WILKINSON, T.M. and TÜRKER, K.S. (1999) Magnetic resonance imaging of the temporomandibular joint in children with class II division I malocclusion. **Perspectives in Human Biology**, 4:145-154.
58. DAVID, G., MAGAREY, M.E., JONES, M.A., DVIR, Z, TÜRKER, K.S. and SHARPE, M. (2000) EMG and strength correlates of selected shoulder muscles during rotations of the glenohumeral joint. **Clinical Biomechanics**, 15:95-102.
59. DAVID, G., DVIR, Z., SIMMONS, N., MAGAREY, M., JONES, M., TÜRKER, K., SHARPE, M. (2000) The relationship between strength and width of the supraspinatus: An isokinetic and ultrasonographic study. **Isokinetics and Exercise Science**, 8:169-174.
60. CHINTAKANON, K., TÜRKER, K.S., SAMPSON, W.J., TOWNSEND, G.C. and WILKINSON, T.M. (2000) A method for protrusive mandibular force measurement in children. **Archives of oral Biology**, 45:113-121.
61. SCUTTER, S.D. and TÜRKER, K.S. (2000) Estimating relative motoneurone size in human masseter muscle. **Archives of oral Biology**, 45:617-620.
62. TÜRKER, K.S. and JENKINS, M. (2000) The reflex response to tooth unloading. **Journal of Neurophysiology**, 84:1088-1092.
63. CHINTAKANON, K., TÜRKER, K.S., SAMPSON, W.J., TOWNSEND, G.C. and WILKINSON, T.M. (2000) Effect of Twin Block therapy on protrusive muscle function. **American Journal of Orthodontics and Dentofacial Orthopedics**, 118:392-396.
64. SCHMIED, A. and TÜRKER, K.S. (2001) Periodontal mechanoreceptors input reduces synchronous discharge of voluntarily-activated masseter motor units in man. **Somatosensory & Motor Research**, 18:143-151.
65. O'CONNOR, S. and TÜRKER, K.S. (2001) Representation of single motor unit action potentials on the surface and intramuscular EMG: Implications for trigeminal reflex investigations. **Archives of oral Biology**, 46:569-572.
66. YANG, J. and TÜRKER, K.S. (2001) Reflex responses of single motor units in human masseter to slowly rising stimulation of a tooth. **Archives of oral Biology**, 46:989-996.
67. TUCKER, K. and TÜRKER, K.S. (2001) Modulation of the periodontally evoked masseter inhibitory reflex by cutaneous stimulation of the face. **Experimental Brain Research**, 139:443-447.
68. TÜRKER, K.S. and POWERS, R.K. (2001) Determining the sign of 'common' synaptic inputs underlying synchronization in motoneurons. **Journal of Neurophysiology**, 86:2807-2822.

69. SCUTTER, S.D. and TÜRKER, K.S. (2001) The role of muscle spindles in human masseter. **Human Movement Science**, 20:489-497.
70. TÜRKER, K.S. and POWERS, R.K. (2002) The effect of motoneurone discharge rate on synchronization. **Journal of Physiology**, 541:245-260.
71. POWERS, R.K., TÜRKER, K.S. and BINDER, M.D. (2002) What can be learned about motoneurone properties from studying firing patterns? **Advances in Experimental Medicine and Biology**, 508:199-205. [
72. BRINKWORTH, S.A.R. and TÜRKER, K.S. (2003) A method for quantifying reflex responses from intra-muscular and surface electromyogram. **Journal of Neuroscience Methods**, 122:179-193.
73. BRINKWORTH, S.A.R., TÜRKER, K.S. and SAVANDRA, A. (2003) Responses of human jaw muscles to axial stimulation of the incisor. **Journal of Physiology**, 547:233-245.
74. TÜRKER, K.S. and POWERS, R.K. (2003) Estimation of postsynaptic potentials in rat hypoglossal motoneurons; Insights for human work. **Journal of Physiology**, 551:419-431.
75. TÜRKER, K.S., BRINKWORTH, S.A.R., ABOLFATHI, P.P., LINKE, I.R. and NEZARAN, H. (2004) A device for investigating neuromuscular control in the human masticatory system. **Journal of Neuroscience Methods**, 136:141-149.
76. BRINKWORTH, S.A.R., MALE, C. and TÜRKER, K.S. (2004) Response of human jaw muscles to axial stimulation of a molar tooth. **Experimental Brain Research** 159:214-224.
77. TUCKER, K.J. and TÜRKER, K.S. (2004) Muscle spindle feedback differs between the soleus and gastrocnemius in humans. **Somatosensory & Motor Research** 21:1-9.
78. BRINKWORTH, S.A.R. and TÜRKER, K.S. (2005) EMG, force and discharge rate analysis of human jaw reflexes in response to axial stimulation of the incisor. **Experimental Brain Research**, 161:145-154.
79. TÜRKER, K.S. and POWERS, R.K. (2005) Black box revisited: A technique for estimating postsynaptic potentials in neurones. **Trends in Neuroscience**, 28:379-386.
80. BRINKWORTH, R.S.A. and TÜRKER, K.S. (2005) Jaw movement alters the reaction of human jaw muscles to incisor stimulation. **Experimental Brain Research** 164:165-176.
81. TÜRKER, K.S., YEO, P.L.M. and GANDEVIA, S.C. (2005) Perceptual distortion of face deletion by local anaesthesia of the human lips and teeth. **Experimental Brain Research**, 165:37-43.
82. TUCKER, K.J. and TÜRKER, K.S. (2005) A new method to estimate signal cancellation in the human maximal M-wave. **Journal of Neuroscience Methods**, 149:31-41.
83. TUCKER, K.J., TUNCER, M. and TÜRKER, K.S. (2005) A review of the H-reflex and M-wave in the human triceps surae. **Human Movement Science**, 24:667-688.
84. SOWMAN, P. and TÜRKER, K.S. (2005) Methods of time and frequency domain examination of physiological tremor in the human jaw. **Human Movement Science**, 24:657-666.

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### **OTHERS - (eg. CONFERENCE PAPERS, ETC)**

#### **PROVISIONAL PATENT**

1. 'MEANS FOR CAUSING MUSCULAR RELAXATION'; DATE OF PATENT: 7 FEBRUARY 1991; LUMINIS PTY LTD (UNIVERSITY OF ADELAIDE'S VENTURE COMPANY)

### COMMISIONED REPORTS

1. Final year thesis (Faculty of Dentistry, Ege University, Izmir, Turkey) “**Bridge Statics**” June 1973 (In Turkish)
2. Doctoral Thesis (Glasgow University, Glasgow, Scotland) "**Effect of Jaw Separation on Masticatory Muscle Properties and Jaw Reflexes.**" September 1978
3. Turkish Research Association Dissertation (Project No: TAG-476) "**The Effect of Noxious Electrical Stimulation on the Parotid Gland.**" January 1983 (In Turkish)

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