

Thomas Graven-Nielsen
Director, Professor, DMSc, PhD
Center for Neuroplasticity and Pain (CNAP)
SMI, Department of Health Science and Technology Aalborg Universitet
Fredrik Bajers Vej 7, D3-205
9220 Aalborg E
Denmark
E-mail: tgn@hst.aau.dk
Phone: +45 9940 9832
Fax: +45 9815 4008
Mobil: +45 2216 0497
Website: <http://www.cnap.hst.aau.dk/> ans <http://www.smi.hst.aau.dk/~tgn/>
Born 1970



Summary

Thomas Graven-Nielsen received a M.Sc.EE degree within Biomedical Engineering from Aalborg University, Denmark in 1994 and acquired his PhD within Biomedical Science and Engineering in 1997 (Aalborg University). In 2006 he obtained a Doctoral degree in Medical Science (dr.med, Copenhagen University). He is Director at Center for Neuroplasticity and Pain (CNAP), SMI, Department of Health Science and Technology, Aalborg University, Denmark (since 2015), and Full Professor in Pain Neuroscience since 2008. The Danish National Research Foundation funds CNAP. Adjunct Professor at University at Western Sydney, Australia (since 2015), and Adjunct Professor at Curtin University of Technology, Perth, Australia (since 2004).

The research focuses on translational studies of musculoskeletal pain bridging the gap between basic animal findings and clinical manifestations of pain. The scope is to identify and modulate key features of human pain neuroplasticity leading to prevention of maladaptive neuroplasticity and promote advantageous neuroplasticity. Development of pain models, biomarkers, and assessment technologies are key biomedical tools for the translational studies. The core areas are muscle pain, joint pain, referred pain, localised and widespread deep-tissue hyperalgesia, pharmacological screening, and electrophysiological techniques to assess muscle pain physiology and neuroplasticity. He has published 300+ papers and reviews (260+ peer-reviewed, H-factor: 55) and received several awards. He reviews papers on a regular basis for high ranked journals, has presented as keynote speaker at several international conferences, and organised scientific workshops and symposia at international meetings. More than 10 national and international collaborations on translational pain research have been established including research groups in Sweden, UK, Japan, USA and Australia.

Qualifications (education and academic degrees)

1994	M.Sc.EE degree within Biomedical Engineering from Aalborg University
1997	Ph.D. within Biomedical Science and Engineering from Aalborg University
1999	University pedagogy (pædagogikum), Aalborg University
2006	dr.med., University of Copenhagen
2009-2010	Research management training (Copenhagen Business School)

Current and previous faculty positions

1997-1999	Assistant Professor, Center for Sensory-Motor Interaction (SMI), Department of Health Science and Technology, Aalborg University
1999-2007	Associate Professor, Center for Sensory-Motor Interaction (SMI), Department of Health Science and Technology, Aalborg University
2001-2004	Adjunct Associate Professor at Curtin University of Technology, Perth, Australia
2004-	Adjunct Professor at Curtin University of Technology, Perth, Australia
2006-	Head of the Doctoral School in Medicine, Biomedical Science and Technology, Faculty of Medicine, Aalborg University (110+ students enrolled)
2008-	Head of the Pain and Motor System Research Group (12 scientists), Center for Sensory-Motor Interaction (SMI), Aalborg University
2008-	Full Professor in Pain Neuroscience, Center for Sensory-Motor Interaction (SMI), Aalborg University
2010-	Deputy Head of Department (Research), Department of Health Science and Technology, Faculty of Medicine, Aalborg University
2015-:	Director, Center for Neuroplasticity and Pain (CNAP), SMI, Department of Health Science and Technology, Aalborg University
2015-:	Adjunct Professor at University of Western Sydney, Australia

Total scientific production

- 290+ scientific peer-reviewed papers (30% in Top-15% ranked journals within the field; 45% as first or senior author)
- Citations in total: 11000+ (Scopus, May 2019)
- H-factor for all scientific papers: 58 (Scopus, May 2019)
- Number of book chapters, proceedings and reviews: 55+
- Number of invited international lectures: 90+
- Monographs in total: 2
- Lead editor on 2 books
- Other (e.g., abstracts, proceedings) in total: 280+
- 3 patents

Research training

Extensive experience with Ph.D.-training including supervision/co-supervision of 17 conferred Ph.D. degrees and 5 on-going Ph.D. students. Chair or opponent in 25 Ph.D. assessment committees. Chair of one higher doctorate degree (dr.scient). Often served as international Ph.D. opponent at, e.g. University of Witwatersrand (South Africa), Umeå University (Sweden), Gent University (Belgium), University of Twente (The Netherlands), and University of Western Sydney (Australia). Completed supervision of 2 post-docs. Head of the International Doctoral School (150+ students enrolled) which has graduated more than 150 Ph.D. students over the last 15 years.

Presentations

Frequently (80+) invited speaker to present on biomedical engineering assessment technologies and basic mechanisms in musculoskeletal pain. Presented as keynote speaker at several international conferences and given numerous symposium presentations at national and international meetings. Moreover, has organised several scientific workshops and symposia at international meetings (e.g. International Association for the Study of Pain (IASP); European Federation of IASP Chapters). Member of scientific programme committee for international meetings. Chaired and hosted a 3-days international symposium with strong scientific impact.

Organisation of international conferences

- Chairman or co-chair for 3 Annual International Symposia on Translational Neurobiology of the Pain System (Aalborg, Denmark, two days meetings in 2009, 2010, and 2012)
- Chairman, the IASP Research Symposium: Fundamentals of Musculoskeletal Pain, 7-9 May 2007 (200 participants from Europe and 18 countries outside Europe)
- Organised several workshops at international conferences (e.g. IASP, EFIC, and the American Pain Society. Typically 200-400 participants).
- Scientific Organizing Committee, member, World MYOPAIN, Toledo, Spain, 2010
- Scientific Organizing Committee, member, the Scandinavian Association for the Study of Pain, Annual Meeting, Aalborg, Denmark, 4-7 April 2002.

Funding

Applied for and administrated grants of more than EURO 3,000,000. Co-investigator on several national and international grants from e.g. NHMRC (Australia), NIH (USA), and EU (FP6). Specific grants to pursue the international collaborations have been obtained (e.g. The Danish Agency for Science, Technology and Innovation).

International Prizes/Awards/Society memberships

The EFIC Grünenthal Grant (2007), the Queen Ingrid's Research Award (2003), The SASP Young Investigator award (2002), and other awards. Scan|Design IASP Collaborative Research Grant (2005, 2007 and 2011). The Research Award (The Danish Disability foundation, 2013). Member of The International Association for the Study of Pain, Society for Neuroscience, The American Pain Society, and The Danish Pain Society.

Editorial and scientific commitments

- Reviews papers on a regular basis for high-ranked journals (15+ per year); e.g. Pain, J Neuroscience, NeuroImage, J Pain, Eur J Pain, J Neurophysiol, J Physiol (all IP>4).
- Lead editor of one book (IASP Press).
- Editorial board member of an international peer-reviewed journal (Scand J Pain).
- Deputy-chair and board member of the Danish IASP (International Association for the Study of Pain) chapter.
- President of the Special Interest Group on Musculoskeletal pain (approx 500 members), IASP.
- Councillor in The European Federation of Chapters of the IASP.
- Served as chair and member of various task force committees in the IASP.

Peer reviewed journal articles

1. Arendt-Nielsen L, Graven-Nielsen T, Svarrer H, Svensson P. 1996. The influence of low back pain on muscle activity and coordination during gait: a clinical and experimental study. *Pain*. 64(2):231-240.
2. Arendt-Nielsen L, Svensson P, Graven-Nielsen T. 1997. How to assess muscle pain experimentally and clinically. *European Journal of Pain*. 1:64-65.
3. Arendt-Nielsen L, Graven-Nielsen T, Svensson P, Jensen TS. 1997. Temporal summation in muscles and referred pain areas: an experimental human study. *Muscle & Nerve*. 20:1311-1313.
4. Graven-Nielsen T, Svensson P, Arendt-Nielsen L. 1997. Effects of experimental muscle pain on muscle activity and co-ordination during static and dynamic motor function. *Electroencephalography and Clinical Neurophysiology*. 105:156-164.
5. Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Jensen TS. 1997. Experimental muscle pain: a quantitative study of local and referred pain in humans following injection of hypertonic saline. *Journal of Musculoskeletal Pain*. 5(1):49-69.
6. Graven-Nielsen T, McArdle A, Phoenix J, Arendt-Nielsen L, Jensen TS, Jackson MJ, Edwards RHT. 1997. In vivo model of muscle pain: quantification of intramuscular chemical, electrical and pressure changes associated with saline-induced muscle pain in humans. *Pain*. 69:137-143.
7. Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Jensen TS. 1997. Quantification of local and referred muscle pain in humans after sequential i.m. injections of hypertonic saline. *Pain*. 69:111-117.
8. Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Jensen TS. 1997. Stimulus-response functions in areas with experimentally induced referred muscle pain: a psychophysical study. *Brain Research*. 744:121-128.
9. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1997. Quantification of local and referred pain in humans induced by intramuscular electrical stimulation. *European Journal of Pain*. 1:105-113.
10. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1997. Referred pain is dependent on sensory input from the periphery: a psychophysical study. *European Journal of Pain*. 1(4):261-269.
11. Fenger-Grøn LS, Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Stengaard-Pedersen K, Jensen TS. 1998. Muscular sensibility assessed by electrical stimulation and mechanical pressure. *Journal of Musculoskeletal Pain*. 6(4):33-44.
12. Graven-Nielsen T, Babenko V, Svensson P, Arendt-Nielsen L. 1998. Experimentally induced muscle pain induces hypoalgesia in heterotopic deep tissues, but not in homotopic deep tissues. *Brain Research*. 787(2):203-210.
13. Graven-Nielsen T, Fenger-Grøn LS, Svensson P, Steengaard-Pedersen K, Arendt-Nielsen L, Jensen TS. 1998. Quantification of deep and superficial sensibility in saline-induced muscle pain: a psychophysical study. *Somatosensory and Motor Research*. 15(1):46-53.
14. Svensson P, De Laat A, Graven-Nielsen T, Arendt-Nielsen L. 1998. Experimental jaw-muscle pain does not change heteronymous H-reflexes in the human temporalis muscle. *Experimental Brain Research*. 121(3):311-318.
15. Svensson P, Graven-Nielsen T, Matre DA, Arendt-Nielsen L. 1998. Experimental muscle pain does not cause long-lasting increases in resting EMG activity. *Muscle & Nerve*. 21:1382-1389.
16. Svensson P, Graven-Nielsen T, Arendt-Nielsen L. 1998. Mechanical hyperesthesia of human facial skin induced by tonic painful stimulation of jaw-muscles. *Pain*. 74(1):93-100.
17. Sörensen J, Graven-Nielsen T, Henrikson KG, Bengtsson M, Arendt-Nielsen L. 1998. Hyperexcitability in fibromyalgia. *Journal of Rheumatology*. 25(1):152-155.
18. Babenko V, Graven-Nielsen T, Svensson P, Drewes AM, Jensen TS, Arendt-Nielsen L. 1999. Experimental human muscle pain and muscular hyperalgesia induced by combinations of serotonin and bradykinin. *Pain*. 82:1-8.
19. Babenko V, Graven-Nielsen T, Svensson P, Drewes AM, Jensen TS, Arendt-Nielsen L. 1999. Experimental human muscle pain induced by intramuscular injections of bradykinin, serotonin, and substance P. *European Journal of Pain*. 3:93-102.
20. Johansen MK, Graven-Nielsen T, Olesen AS, Arendt-Nielsen L. 1999. Generalised muscular hyperalgesia in chronic whiplash syndrome. *Pain*. 83:229-234.
21. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1999. The effect of compression and regional anaesthetic block on referred pain intensity in humans. *Pain*. 80(1-2):257-263.
22. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1999. The effect of differential and complete nerve block on experimental muscle pain in humans. *Muscle & Nerve*. 22:1564-1570.
23. Svensson P, De Laat A, Graven-Nielsen T, Arendt-Nielsen L, Macaluso GM. 1999. Effect of clenching levels on heteronymous H-reflex in human temporalis muscle. *Experimental Brain Research*. 126:467-472.
<https://doi.org/10.1007/s002210050754>
24. Svensson P, McMillan AS, Graven-Nielsen T, Wang K, Arendt-Nielsen L. 1999. Modulation of an inhibitory reflex in single motor units in human masseter by tonic painful stimulation. *Pain*. 83:441-446.
25. Andersen OK, Graven-Nielsen T, Matre DA, Arendt-Nielsen L, Schomburg ED. 2000. Interaction between cutaneous and muscle afferent activity in polysynaptic reflex pathways: a human experimental study. *Pain*. 84:29-36.

26. Babenko V, Svensson P, Graven-Nielsen T, Drewes AM, Jensen TS, Arendt-Nielsen L. 2000. Duration and distribution of experimental muscle hyperalgesia in humans following combined infusions of serotonin and bradykinin. *Brain Research*. 853(2):275-281.
27. Bajaj P, Graven-Nielsen T, Wright A, Davies II, Arendt-Nielsen L. 2000. Muscle hyperalgesia in postexercise muscle soreness assessed by single and repetitive ultrasound stimuli. *Journal of Pain*. 1(2):111-121.
28. Birch L, Graven-Nielsen T, Christensen H, Arendt-Nielsen L. 2000. Experimental muscle pain modulates muscle activity and work performance differently during high and low precision use of a computer mouse. *European Journal of Applied Physiology*. 83:492-498.
29. Birch L, Christensen H, Arendt-Nielsen L, Graven-Nielsen T, Søgaard K. 2000. The influence of experimental muscle pain on motor unit activity during low level contraction. *European Journal of Applied Physiology*. 83:200-206.
30. Graven-Nielsen T, Svensson P, Arendt-Nielsen L. 2000. Effect of muscle pain on motor control: a human experimental approach. *Advances in Physiotherapy*. 2:26-38.
31. Graven-Nielsen T, Kendall SA, Henriksson KG, Bengtsson M, Sørensen J, Johnson A, Gerdle B, Arendt-Nielsen L. 2000. Ketamine reduces muscle pain, temporal summation, and referred pain in fibromyalgia patients. *Pain*. 85:483-491.
32. Graven-Nielsen T, Svensson P, McMillan AS, Arendt-Nielsen L. 2000. Quantitative analysis of reflex inhibition in single motor units in human masseter muscle: effects of stimulus intensity. *Muscle & Nerve*. 23:259-266.
33. Sohn MK, Graven-Nielsen T, Arendt-Nielsen L, Svensson P. 2000. Inhibition of motor unit firing during experimental muscle pain in humans. *Muscle & Nerve*. 23(8):1219-1226.
34. Svensson P, Miles TS, Graven-Nielsen T, Arendt-Nielsen L. 2000. Modulation of stretch-evoked reflexes in single motor units in human masseter muscle by experimental pain. *Experimental Brain Research*. 132:65-71.
35. Bajaj P, Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 2001. Osteoarthritis and its association with muscle hyperalgesia: an experimental controlled study. *Pain*. 93(2):107-114.
36. Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 2001. Post-exercise muscle soreness after eccentric exercise: psychophysical effects and implications on mean arterial pressure. *Scandinavian Journal of Medicine & Science in Sports*. 11(5):266-273. <https://doi.org/10.1034/j.1600-0838.2001.110503.x>
37. Bajaj P, Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 2001. Trigger points in patients with lower limb osteoarthritis. *Journal of Musculoskeletal Pain*. 9(3):17-33.
38. Birch L, Arendt-Nielsen L, Graven-Nielsen T, Christensen H. 2001. An investigation of how acute muscle pain modulates performance during computer work with digitizer and puck. *Applied Ergonomics*. 32(3):281-286. [https://doi.org/10.1016/S0003-6870\(00\)00061-2](https://doi.org/10.1016/S0003-6870(00)00061-2)
39. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Svensson P, Chen ACN. 2001. Different EEG topographic effects of painful and non-painful intramuscular stimulation in man. *Experimental Brain Research*. 141:195-203.
40. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Svensson P, Chen ACN. 2001. Topographic effects of tonic cutaneous nociceptive stimulation on human electroencephalograph. *Neuroscience Letters*. 305(1):49-52.
41. Graven-Nielsen T, Mense S. 2001. The peripheral apparatus of muscle pain: evidence from animal and human studies. *The Clinical Journal of Pain*. 17:2-10.
42. Le Pera D, Graven-Nielsen T, Valeriani M, Oliviero A, Lazzaro VD, Tonali PA, Arendt-Nielsen L. 2001. Inhibition of motor system excitability at cortical and spinal level by tonic muscle pain. *Clinical Neurophysiology*. 112:1633-1641.
43. Macaluso GM, Svensson P, Graven-Nielsen T. 2001. Conditioning of heteronymous H-reflex in human temporalis muscle by stimulation of perioral afferents. *Experimental Brain Research*. 136(1):114-119.
44. McMillan AS, Graven-Nielsen T, Romaniello A, Svensson P. 2001. Motor potentials evoked by transcranial magnetic stimulation during isometric and dynamic masseter muscle contraction in humans. *Archives of Oral Biology*. 46(4):381-386.
45. Niddam DM, Graven-Nielsen T, Arendt-Nielsen L, Chen ACN. 2001. Non-painful and painful surface and intramuscular electrical stimulation at the thenar and hypothenar sites: differential cerebral dynamics of early to late latency SEPs. *Brain Topography*. 13(4):283-292.
46. Polianskis R, Graven-Nielsen T, Arendt-Nielsen L. 2001. Computer-controlled pneumatic pressure algometry: a new technique for quantitative sensory testing. *European Journal of Pain*. 5(3):267-277.
47. Svensson P, Graven-Nielsen T. 2001. Craniofacial muscle pain: review of mechanisms and clinical manifestations. *Journal of Orofacial Pain*. 15(2):117-145.
48. Arendt-Nielsen L, Graven-Nielsen T. 2002. Deep tissue hyperalgesia. *Journal of Musculoskeletal Pain*. 10(1/2):97-119.
49. Farina D, Arendt-Nielsen L, Merletti R, Graven-Nielsen T. 2002. Assessment of single motor unit conduction velocity during sustained contractions of the tibialis anterior muscle with advanced spike triggered averaging. *Journal of Neuroscience Methods*. 115(1):1-12.

50. Farina D, Madeleine P, Graven-Nielsen T, Merletti R, Arendt-Nielsen L. 2002. Standardising surface electromyogram recordings for assessment of activity and fatigue in the human upper trapezius muscle. *European Journal of Applied Physiology*. 86:469-478.
51. Graven-Nielsen T, Lund H, Arendt-Nielsen L, Danneskiold-Samsøe B, Bliddal H. 2002. Inhibition of maximal voluntary contraction force by experimental muscle pain: a centrally mediated mechanism. *Muscle & Nerve*. 26(5):708-712.
52. Graven-Nielsen T, Arendt-Nielsen L. 2002. Is there a relation between intramuscular hypoperfusion and chronic muscle pain?. *Journal of Pain*. 3(4):261-263.
53. Graven-Nielsen T, Gibson SJ, Laursen RJ, Svensson P, Arendt-Nielsen L. 2002. Opioid-insensitive hypoalgesia to mechanical stimuli at sites ipsilateral and contralateral to experimental muscle pain in human volunteers. *Experimental Brain Research*. 146:213-222.
54. Graven-Nielsen T, Arendt-Nielsen L. 2002. Peripheral and central sensitization in musculoskeletal pain disorders: an experimental approach. *Current Rheumatology Reports*. 4(4):313-321.
55. Graven-Nielsen T, Arendt-Nielsen L, Mense S. 2002. Thermosensitivity of muscle: high intensity thermal stimulation of muscle tissue induces pain in humans. *Journal of Physiology*. 540(2):647-656.
56. Polianskis R, Graven-Nielsen T, Arendt-Nielsen L. 2002. Modality-specific facilitation and adaptation to painful tonic stimulation in humans. *European Journal of Pain*. 6:475-484.
57. Polianskis R, Graven-Nielsen T, Arendt-Nielsen L. 2002. Pressure-pain function in desensitized and hypersensitized muscle and skin assessed by cuff algometry. *Journal of Pain*. 3(1):28-37.
58. Polianskis R, Graven-Nielsen T, Arendt-Nielsen L. 2002. Spatial and temporal aspects of deep tissue pain assessed by cuff algometry. *Pain*. 100:19-26.
59. Wright A, Graven-Nielsen T, Davies II, Arendt-Nielsen L. 2002. Temporal summation of pain from skin, muscle and joint following nociceptive ultrasonic stimulation in humans. *Experimental Brain Research*. 144(4):475-482.
60. Arendt-Nielsen L, Graven-Nielsen T. 2003. Central sensitization in fibromyalgia and other musculoskeletal disorders. *Current Pain and Headache Reports*. 7(5):355-361.
61. Arendt-Nielsen L, Mense S, Graven-Nielsen T. 2003. Messung von Muskelschmerz und Hyperalgesie: experimentelle und klinische Befunde. *Schmerz*. 17(6):445-449.
62. Cairns BE, Svensson P, Wang K, Hupfeld S, Graven-Nielsen T, Sessle BJ, Berde CB, Arendt-Nielsen L. 2003. Activation of peripheral NMDA receptors contributes to human pain and rat afferent discharges evoked by injection of glutamate into the masseter muscle. *Journal of Neurophysiology*. 90(4):2098-2105.
63. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Chen ACN. 2003. Psychophysical and EEG responses to repeated experimental muscle pain in humans: pain intensity encodes EEG activity. *Brain Research Bulletin*. 59(6):533-543.
64. Eichenberger U, Giani C, Petersen-Felix S, Graven-Nielsen T, Arendt-Nielsen L, Curatolo M. 2003. Lumbar epidural fentanyl: segmental spread and effect on temporal summation and muscle pain. *British Journal of Anaesthesia*. 90(4):467-473.
65. Farina D, Arendt-Nielsen L, Merletti R, Indino B, Graven-Nielsen T. 2003. Selectivity of spatial filters for surface EMG detection from the tibialis anterior muscle. *IEEE Transactions on Biomedical Engineering*. 50(3):354-364.
66. Graven-Nielsen T, Jansson Y, Segerdahl M, Kristensen JD, Mense S, Arendt-Nielsen L, Sollevi A. 2003. Experimental pain by ischaemic contractions compared with pain by intramuscular infusions of adenosine and hypertonic saline. *European Journal of Pain*. 7(1):93-102. [https://doi.org/10.1016/S1090-3801\(02\)00069-1](https://doi.org/10.1016/S1090-3801(02)00069-1)
67. Graven-Nielsen T, Arendt-Nielsen L. 2003. Induction and assessment of muscle pain, referred pain, and muscular hyperalgesia. *Current Pain and Headache Reports*. 7:443-451.
68. Schulte H, Graven-Nielsen T, Sollevi A, Jansson Y, Arendt-Nielsen L, Segerdahl M. 2003. Pharmacological modulation of experimental phasic and tonic muscle pain by morphine, alfentanil and ketamine in healthy volunteers. *Acta Anaesthesiologica Scandinavica*. 47(8):1020-1030.
69. Slater H, Arendt-Nielsen L, Wright A, Graven-Nielsen T. 2003. Experimental deep tissue pain in wrist extensors: a model of lateral epicondylalgia. *European Journal of Pain*. 7(3):277-288.
70. Svensson P, Cairns BE, Wang K, Hu JW, Graven-Nielsen T, Arendt-Nielsen L, Sessle BJ. 2003. Glutamate-evoked pain and mechanical allodynia in the human masseter muscle. *Pain*. 101(3):221-227.
71. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Svensson P, Chen ACN. 2004. Comparative EEG activation to skin pain and muscle pain induced by capsaicin injection. *International Journal of Psychophysiology*. 51(2):117-126.
72. Ciubotariu A, Arendt-Nielsen L, Graven-Nielsen T. 2004. The influence of muscle pain and fatigue on the activity of synergistic muscles of the leg. *European Journal of Applied Physiology*. 91(5-6):604-614.
73. Ervilha UF, Arendt-Nielsen L, Duarte M, Graven-Nielsen T. 2004. Effect of load level and muscle pain intensity on the motor control of elbow-flexion movements. *European Journal of Applied Physiology*. 92(1-2):168-175. <https://doi.org/10.1007/s00421-004-1083-8>
74. Ervilha UF, Arendt-Nielsen L, Duarte M, Graven-Nielsen T. 2004. The effect of muscle pain on elbow flexion and coactivation tasks. *Experimental Brain Research*. 156(2):174-182. <https://doi.org/10.1007/s00221-003-1781-1>

75. Farina D, Arendt-Nielsen L, Merletti R, Graven-Nielsen T. 2004. Effect of experimental muscle pain on motor unit firing rate and conduction velocity. *Journal of Neurophysiology*. 91(3):1250-1259.
76. Farina D, Merletti R, Indino B, Graven-Nielsen T. 2004. Surface EMG crosstalk evaluated from experimental recordings and simulated signals: reflections on crosstalk interpretation, quantification and reduction. *Methods of Information in Medicine*. 43(1):30-35.
77. Graven-Nielsen T, Mense S, Arendt-Nielsen L. 2004. Painful and non-painful pressure sensations from human skeletal muscle. *Experimental Brain Research*. 159(3):273-283. <https://doi.org/10.1007/s00221-004-1937-7>
78. Schulte E, Ciubotariu A, Arendt-Nielsen L, Disselhorst-Klug C, Rau G, Graven-Nielsen T. 2004. Experimental muscle pain increases trapezius muscle activity during sustained isometric contractions of arm muscles. *Clinical Neurophysiology*. 115(8):1767-1778.
79. Sohn MK, Graven-Nielsen T, Arendt-Nielsen L, Svensson P. 2004. Effects of experimental muscle pain on mechanical properties of single motor units in human masseter. *Clinical Neurophysiology*. 115(1):76-84. [https://doi.org/10.1016/S1388-2457\(03\)00318-3](https://doi.org/10.1016/S1388-2457(03)00318-3)
80. Ervilha UF, Farina D, Arendt-Nielsen L, Graven-Nielsen T. 2005. Experimental muscle pain changes motor control strategies in dynamic contractions. *Experimental Brain Research*. 164(2):215-224. <https://doi.org/10.1007/s00221-005-2244-7>
81. Farina D, Arendt-Nielsen L, Graven-Nielsen T. 2005. Effect of temperature on spike-triggered average torque and electrophysiological properties of low-threshold motor units. *Journal of Applied Physiology*. 99(1):197-203. <https://doi.org/10.1152/jappphysiol.00059.2005>
82. Farina D, Arendt-Nielsen L, Graven-Nielsen T. 2005. Experimental muscle pain decreases voluntary EMG activity but does not affect the muscle potential evoked by transcutaneous electrical stimulation. *Clinical Neurophysiology*. 116(7):1558-1565. <https://doi.org/10.1016/j.clinph.2005.03.009>
83. Farina D, Arendt-Nielsen L, Graven-Nielsen T. 2005. Experimental muscle pain reduces initial motor unit discharge rates during sustained submaximal contractions. *Journal of Applied Physiology*. 98(3):999-1005. <https://doi.org/10.1152/jappphysiol.01059.2004>
84. Farina D, Arendt-Nielsen L, Graven-Nielsen T. 2005. Spike-triggered average torque and muscle fiber conduction velocity of low-threshold motor units following submaximal endurance contractions. *Journal of Applied Physiology*. 98(4):1495-1502. <https://doi.org/10.1152/jappphysiol.01127.2004>
85. Finsen L, Søgaard K, Graven-Nielsen T, Christensen H. 2005. Activity patterns of wrist extensor muscles during wrist extensions and deviations. *Muscle & Nerve*. 31(2):242-251. <https://doi.org/10.1002/mus.20237>
86. Jones A, Frandsen AMS, Graven-Nielsen T, Arendt-Nielsen L, Zachariae R. 2005. Gender differences in the association between dispositional anxiety and subjective pain response to experimental muscle pain. *X X vs. X Y*. 3(1):1-6.
87. Lemming D, Sørensen J, Graven-Nielsen T, Arendt-Nielsen L, Gerdle B. 2005. The responses to pharmacological challenges and experimental pain in patients with chronic whiplash-associated pain. *The Clinical Journal of Pain*. 21(5):412-421.
88. Nie H, Arendt-Nielsen L, Andersen H, Graven-Nielsen T. 2005. Temporal summation of pain evoked by mechanical stimulation in deep and superficial tissue. *Journal of Pain*. 6(6):348-355. <https://doi.org/10.1016/j.jpain.2005.01.352>
89. Slater H, Arendt-Nielsen L, Wright A, Graven-Nielsen T. 2005. Sensory and motor effects of experimental muscle pain in patients with lateral epicondylalgia and controls with delayed onset muscle soreness. *Pain*. 114(1-2):118-130.
90. Andersen H, Arendt-Nielsen L, Danneskiold-Samsøe B, Graven-Nielsen T. 2006. Pressure pain sensitivity and hardness along human normal and sensitized muscle. *Somatosensory and Motor Research*. 23(3/4):97-109. <https://doi.org/10.1080/08990220600856255>
91. Chen H-S, Lei J, He X, Wang Y, Wen W-W, Wei X-Z, Graven-Nielsen T, You H-J, Arendt-Nielsen L. 2006. Pivotal involvement of neurogenic mechanism in subcutaneous bee venom-induced inflammation and allodynia in unanesthetized conscious rats. *Experimental Neurology*. 200(2):386-391. <https://doi.org/10.1016/j.expneurol.2006.02.118>
92. Falla DL, Graven-Nielsen T, Farina D. 2006. Spatial and temporal changes of upper trapezius muscle fiber conduction velocity are not predicted by surface EMG spectral analysis during a dynamic upper limb task. *Journal of Neuroscience Methods*. 156(1-2):236-241. <https://doi.org/10.1016/j.jneumeth.2006.03.006>
93. Gibson W, Arendt-Nielsen L, Graven-Nielsen T. 2006. Delayed onset muscle soreness at tendon-bone junction and muscle tissue is associated with facilitated referred pain. *Experimental Brain Research*. 174(2):351-360. <https://doi.org/10.1007/s00221-006-0466-y>
94. Gibson WI, Arendt-Nielsen L, Graven-Nielsen T. 2006. Referred pain and hyperalgesia in human tendon and muscle belly tissue. *Pain*. 120(1-2):113-123. <https://doi.org/10.1016/j.pain.2005.10.023>
95. Henriksen M, Simonsen EB, Graven-Nielsen T, Lund H, Danneskiold-Samsøe B, Bliddal H. 2006. Impulse-forces during walking are not increased in patients with knee osteoarthritis. *Acta Orthopaedica (Print Edition)*. 77(4):650-656.

96. Henriksen M, Simonsen EB, Alkjær T, Lund H, Graven-Nielsen T, Danneskiold-Samsøe B, Bliddal H. 2006. Increased joint loads during walking: a consequence of pain relief in knee osteoarthritis. *Knee*. 13(6):445-450. <https://doi.org/10.1016/j.knee.2006.08.005>
97. Nie H, Arendt-Nielsen L, Madeleine P, Graven-Nielsen T. 2006. Enhanced temporal summation of pressure pain in the trapezius muscle after delayed onset muscle soreness. *Experimental Brain Research*. 170(2):182-190. <https://doi.org/10.1007/s00221-005-0196-6>
98. Schmidt-Hansen PT, Svensson P, Jensen TS, Graven-Nielsen T, Bach FW. 2006. Patterns of experimentally induced pain in pericranial muscles. *Cephalalgia*. 26(5):568-577. <https://doi.org/10.1111/j.1468-2982.2006.01078.x>
99. Schulte H, Segerdahl M, Graven-Nielsen T, Grass S. 2006. Reduction of human experimental muscle pain by alfentanil and morphine. *European Journal of Pain*. 10(8):733-741. <https://doi.org/10.1016/j.ejpain.2005.11.006>
100. Slater H, Arendt-Nielsen L, Wright A, Graven-Nielsen T. 2006. Effects of a manual therapy technique in experimental lateral epicondylalgia. *Musculoskeletal Science and Practice*. 11(2):107-117. <https://doi.org/10.1016/j.math.2005.04.005>
101. Truini A, Romaniello A, Svensson P, Galeotti F, Graven-Nielsen T, Wang K, Cruccu G, Arendt-Nielsen L. 2006. Experimental skin pain and muscle pain induce distinct changes in human trigeminal motoneuronal excitability. *Experimental Brain Research*. 174(4):622-629. <https://doi.org/10.1007/s00221-006-0508-5>
102. Cescon C, Madeleine P, Graven-Nielsen T, Merletti R, Farina D. 2007. Two-dimensional spatial distribution of surface mechanomyographical response to single motor unit activity. *Journal of Neuroscience Methods*. 159(1):19-25. <https://doi.org/10.1016/j.jneumeth.2006.06.011>
103. Ciubotariu A, Arendt-Nielsen L, Graven-Nielsen T. 2007. Localized muscle pain causes prolonged recovery after fatiguing isometric contractions. *Experimental Brain Research*. 181(1):147-158. <https://doi.org/10.1007/s00221-007-0913-4>
104. Dewhurst S, Graven-Nielsen T, De Vito G, Farina D. 2007. Muscle temperature has a different effect on force fluctuations in young and older women. *Clinical Neurophysiology*. 118(4):762-769. <https://doi.org/10.1016/j.clinph.2006.12.006>
105. Falla DL, Farina D, Graven-Nielsen T. 2007. Experimental muscle pain results in reorganization of coordination among trapezius muscle subdivisions during repetitive shoulder flexion. *Experimental Brain Research*. 178(3):385-393. <https://doi.org/10.1007/s00221-006-0746-6>
106. Falla DL, Farina D, Dahl MK, Graven-Nielsen T. 2007. Muscle pain induces task-dependent changes in cervical agonist/antagonist activity. *Journal of Applied Physiology*. 102(2):601-609. <https://doi.org/10.1152/jappphysiol.00602.2006>
107. Falla DL, Farina D, Graven-Nielsen T. 2007. Spatial dependency of trapezius muscle activity during repetitive shoulder flexion. *Journal of Electromyography & Kinesiology*. 17(3):299-306. <https://doi.org/10.1016/j.jelekin.2006.03.005>
108. Graven-Nielsen T, Arendt-Nielsen L. 2007. Forskelle i smerteperception hos mænd og kvinder. *Ugeskrift for læger*. 169(25):2425-2427.
109. Henriksen M, Alkjær T, Lund H, Simonsen EB, Graven-Nielsen T, Danneskiold-Samsøe B, Bliddal H. 2007. Experimental quadriceps muscle pain impairs knee joint control during walking. *Journal of Applied Physiology*. 103(1):132-139. <https://doi.org/10.1152/jappphysiol.01105.2006>
110. Jespersen A, Dreyer L, Kendall S, Graven-Nielsen T, Arendt-Nielsen L, Bliddal H, Danneskiold-Samsøe B. 2007. Computerized cuff pressure algometry: a new method to assess deep-tissue hypersensitivity in fibromyalgia. *Pain*. 131(1-2):57-62. <https://doi.org/10.1016/j.pain.2006.12.012>
111. Lemming D, Sørensen J, Graven-Nielsen T, Lauber R, Arendt-Nielsen L, Gerdle B. 2007. Managing chronic whiplash associated pain with a combination of low-dose opioid (remifentanil) and NMDA-antagonist (ketamine). *European Journal of Pain*. 11(7):719-732. <https://doi.org/10.1016/j.ejpain.2006.11.002>
112. Mørch CD, Andersen OK, Graven-Nielsen T, Arendt-Nielsen L. 2007. Nociceptive withdrawal reflexes evoked by uniform-temperature laser heat stimulation of large skin areas in humans. *Journal of Neuroscience Methods*. 160(1):85-92. <https://doi.org/10.1016/j.jneumeth.2006.08.014>
113. O'Neill S, Manniche C, Graven-Nielsen T, Arendt-Nielsen L. 2007. Generalized deep-tissue hyperalgesia in patients with chronic low-back pain. *European Journal of Pain*. 11(4):415-420. <https://doi.org/10.1016/j.ejpain.2006.05.009>
114. Schmidt-Hansen PT, Svensson P, Bendtsen L, Graven-Nielsen T, Bach FW. 2007. Increased muscle pain sensitivity in patients with tension-type headache. *Pain*. 129(1-2):113-121. <https://doi.org/10.1016/j.pain.2006.09.037>
115. Andersen H, Arendt-Nielsen L, Svensson P, Danneskiold-Samsøe B, Graven-Nielsen T. 2008. Spatial and temporal aspects of muscle hyperalgesia induced by nerve growth factor in humans. *Experimental Brain Research*. 191(3):371-382. <https://doi.org/10.1007/s00221-008-1531-5>
116. Arendt-Nielsen L, Graven-Nielsen T. 2008. Muscle pain: sensory implications and interaction with motor control. *The Clinical Journal of Pain*. 24(4):291-298.

117. Falla DL, Farina D, Dahl MK, Graven-Nielsen T. 2008. Pain-induced changes muscle fatigability in cervical muscle activation do not affect during sustained isometric contraction. *Journal of Electromyography & Kinesiology*. 18(6):938-946. <https://doi.org/10.1016/j.jelekin.2007.05.007>
118. Farina D, Arendt-Nielsen L, Roatta S, Graven-Nielsen T. 2008. The pain-induced decrease in low-threshold motor unit discharge rate is not associated with the amount of increase in spike-triggered average torque. *Clinical Neurophysiology*. 119(1):43-51. <https://doi.org/10.1016/j.clinph.2007.10.003>
119. Graven-Nielsen T, Arendt-Nielsen L. 2008. Impact of clinical and experimental pain on muscle strength and activity. *Current Rheumatology Reports*. 10(6):475-481. <https://doi.org/10.1007/s11926-008-0078-6>
120. Graven-Nielsen T, Arendt-Nielsen L. 2008. Sensory and motor manifestations of muscle pain. *Journal of Musculoskeletal Pain*. 16(1-2):93-105.
121. Hodges PW, Ervilha UF, Graven-Nielsen T. 2008. Changes in motor unit firing rate in synergist muscles cannot explain the maintenance of force during constant force painful contractions. *Journal of Pain*. 9(12):1169-1174. <https://doi.org/10.1016/j.jpain.2008.06.012>
122. Law LAF, Sluka KA, McMullen T, Lee J, Arendt-Nielsen L, Graven-Nielsen T. 2008. Acidic buffer induced muscle pain evokes referred pain and mechanical hyperalgesia in humans. *Pain*. 140(2):254-264. <https://doi.org/10.1016/j.pain.2008.08.014>
123. Lei J, You H-J, Andersen OK, Graven-Nielsen T, Arendt-Nielsen L. 2008. Homotopic and heterotopic variation in skin blood flow and temperature following experimental muscle pain in humans. *Brain Research*. 1232:85-93. <https://doi.org/10.1016/j.brainres.2008.07.056>
124. Nielsen M, Graven-Nielsen T, Farina D. 2008. Effect of innervation-zone distribution on estimates of average muscle-fiber conduction velocity. *Muscle & Nerve*. 37(1):68-78. <https://doi.org/10.1002/mus.20895>
125. Ge HY, Nie H, Madeleine P, Danneskiold-Samsøe B, Graven-Nielsen T, Arendt-Nielsen L. 2009. Contribution of the local and referred pain from active myofascial trigger points in fibromyalgia syndrome. *Pain*. 147(1-3):233-240. <https://doi.org/10.1016/j.pain.2009.09.019>
126. Ge HY, Serrao M, Andersen OK, Graven-Nielsen T, Arendt-Nielsen L. 2009. Increased H-reflex response induced by intramuscular electrical stimulation of latent myofascial trigger points. *Acupuncture in Medicine*. 27(4):150-154. <https://doi.org/10.1136/aim.2009.001099>
127. Gibson W, Arendt-Nielsen L, Sessle BJ, Graven-Nielsen T. 2009. Glutamate and capsaicin-induced pain, hyperalgesia and modulatory interactions in human tendon tissue. *Experimental Brain Research*. 194(2):173-182. <https://doi.org/10.1007/s00221-008-1683-3>
128. Gibson W, Arendt-Nielsen L, Taguchi T, Mizumura K, Graven-Nielsen T. 2009. Increased pain from muscle fascia following eccentric exercise: animal and human findings. *Experimental Brain Research*. 194(2):299-308. <https://doi.org/10.1007/s00221-008-1699-8>
129. Nie H, Graven-Nielsen T, Arendt-Nielsen L. 2009. Spatial and temporal summation of pain evoked by mechanical pressure stimulation. *European Journal of Pain*. 13(6):592-599. <https://doi.org/10.1016/j.ejpain.2008.07.013>
130. Nie H, Madeleine P, Arendt-Nielsen L, Graven-Nielsen T. 2009. Temporal summation of pressure pain during muscle hyperalgesia evoked by nerve growth factor and eccentric contractions. *European Journal of Pain*. 13(7):704-710. <https://doi.org/10.1016/j.ejpain.2008.06.015>
131. Nielsen MM, Mortensen A, Sørensen JK, Simonsen O, Graven-Nielsen T. 2009. Reduction of experimental muscle pain by passive physiological movements. *Musculoskeletal Science and Practice*. 14(1):101-109. <https://doi.org/10.1016/j.math.2007.12.008>
132. O'Neill S, Graven-Nielsen T, Manniche C, Arendt-Nielsen L. 2009. Ultrasound guided, painful electrical stimulation of lumbar facet joint structures: an experimental model of acute low back pain. *Pain*. 144(1-2):76-83. <https://doi.org/10.1016/j.pain.2009.03.014>
133. Poulsen P, Svendsen JH, Tucker K, Graven-Nielsen T, Hodges PW. 2009. Effect of cancellation on triggered averaging used to determine synchronization between motor unit discharge in separate muscles. *Journal of Neuroscience Methods*. 182(1):1-5. <https://doi.org/10.1016/j.jneumeth.2009.04.017>
134. Tucker K, Falla DL, Graven-Nielsen T, Farina D. 2009. Electromyographic mapping of the erector spinae muscle with varying load and during sustained contraction. *Journal of Electromyography & Kinesiology*. 19(3):373-379. <https://doi.org/10.1016/j.jelekin.2007.10.003>
135. Tucker K, Butler J, Graven-Nielsen T, Riek S, Hodges P. 2009. Motor unit recruitment strategies are altered during deep-tissue pain. *Journal of Neuroscience*. 29(35):10820-10826. <https://doi.org/10.1523/JNEUROSCI.5211-08.2009>
136. Andersen H, Ge H-Y, Arendt-Nielsen L, Danneskiold-Samsøe B, Graven-Nielsen T. 2010. Increased trapezius pain sensitivity is not associated with increased tissue hardness. *Journal of Pain*. 11(5):491-499. <https://doi.org/10.1016/j.jpain.2009.09.017>
137. Arendt-Nielsen L, Nie H, Laursen MB, Laursen BS, Madeleine P, Simonsen OH, Graven-Nielsen T. 2010. Sensitization in patients with painful knee osteoarthritis. *Pain*. 149(3):573-581. <https://doi.org/10.1016/j.pain.2010.04.003>

138. Ge HY, Wang Y, Danneskiold-Samsøe B, Graven-Nielsen T, Arendt-Nielsen L. 2010. The predetermined sites of examination for tender points in fibromyalgia syndrome are frequently associated with myofascial trigger points. *Journal of Pain*. 11(7):644-651. <https://doi.org/10.1016/j.jpain.2009.10.006>
139. Graven-Nielsen T, Arendt-Nielsen L. 2010. Assessment of mechanisms in localized and widespread musculoskeletal pain. *Nature Clinical Practice Rheumatology*. 6(10):599-606. <https://doi.org/10.1038/nrrheum.2010.107>
140. Graven-Nielsen T, Arendt-Nielsen L, Madeleine P, Svensson P. 2010. Smertemekanismer ved kroniske muskuloskeletale tilstande. *Ugeskrift for læger*. 172(24):1824-1827.
141. Henriksen M, Graven-Nielsen T, Aaboe J, Andriacchi TP, Bliddal H. 2010. Gait changes in patients with knee osteoarthritis are replicated by experimental knee pain. *Arthritis Care and Research*. 62(4):501-509. <https://doi.org/10.1002/acr.20033>
142. Hirata RP, Arendt-Nielsen L, Graven-Nielsen T. 2010. Experimental calf muscle pain attenuates the postural stability during quiet stance and perturbation. *Clinical Biomechanics*. 25(9):931-937. <https://doi.org/10.1016/j.clinbiomech.2010.06.001>
143. Arendt-Nielsen L, Fernandez-de-las-Penas C, Graven-Nielsen T. 2011. Basic aspects of musculoskeletal pain: from acute to chronic pain. *Journal of Manual & Manipulative Therapy*. 19(4):186-193. <https://doi.org/10.1179/106698111X13129729551903>
144. Arendt-Nielsen L, Graven-Nielsen T. 2011. Translational musculoskeletal pain research. *Best Practice & Research: Clinical Rheumatology*. 25(2):209-226. <https://doi.org/10.1016/j.berh.2010.01.013>
145. Ayles S, Graven-Nielsen T, Gibson W. 2011. Vibration-induced afferent activity augments delayed onset muscle allodynia. *Journal of Pain*. 12(8):884-891. <https://doi.org/10.1016/j.jpain.2011.02.355>
146. Finocchietti S, Mørch CD, Arendt-Nielsen L, Graven-Nielsen T. 2011. Effects of adipose thickness and muscle hardness on pressure pain sensitivity: Correction. *The Clinical Journal of Pain*. 27(8):735-745. <https://doi.org/10.1097/AJP.0b013e31820c5353>
147. Finocchietti S, Mørch CD, Arendt-Nielsen L, Graven-Nielsen T. 2011. Effects of adipose thickness and muscle hardness on pressure pain sensitivity. *The Clinical Journal of Pain*. 27(5):414-424. <https://doi.org/10.1097/AJP.0b013e31820c5353>
148. Finocchietti S, Nielsen M, Mørch CD, Arendt-Nielsen L, Graven-Nielsen T. 2011. Pressure-induced muscle pain and tissue biomechanics: a computational and experimental study. *European Journal of Pain*. 15(1):36-44. <https://doi.org/10.1016/j.ejpain.2010.05.010>
149. Ge H-Y, Wang Y, Fernandez-de-las-Penas C, Graven-Nielsen T, Danneskiold-Samsøe B, Arendt-Nielsen L. 2011. Reproduction of overall spontaneous pain pattern by manual stimulation of active myofascial trigger points in fibromyalgia patients. *Arthritis Research & Therapy*. 13(2):Article No. R48. <https://doi.org/10.1186/ar3289>
150. Gerber RKH, Nie H, Arendt-Nielsen L, Curatolo M, Graven-Nielsen T. 2011. Local pain and spreading hyperalgesia induced by intramuscular injection of nerve growth factor are not reduced by local anesthesia of the muscle. *The Clinical Journal of Pain*. 27(3):240-247. <https://doi.org/10.1097/AJP.0b013e3182048481>
151. Henriksen M, Rosager S, Aaboe J, Graven-Nielsen T, Bliddal H. 2011. Experimental knee pain reduces muscle strength. *Journal of Pain*. 12(4):460-467. <https://doi.org/10.1016/j.jpain.2010.10.004>
152. Henriksen M, Aaboe J, Graven-Nielsen T, Bliddal H, Langberg H. 2011. Motor responses to experimental Achilles tendon pain. *British Journal of Sports Medicine*. 45(5):393-398. <https://doi.org/10.1136/bjism.2010.072561>
153. Hirata RP, Ervilha UF, Arendt-Nielsen L, Graven-Nielsen T. 2011. Experimental muscle pain challenges the postural stability during quiet stance and unexpected posture perturbation. *Journal of Pain*. 12(8):911-919. <https://doi.org/10.1016/j.jpain.2011.02.356>
154. Ibarra JM, Ge H-Y, Wang C, Vizcaino VM, Graven-Nielsen T, Arendt-Nielsen L. 2011. Latent myofascial trigger points are associated with an increased antagonistic muscle activity during agonist muscle contraction. *Journal of Pain*. 12(12):1282-1288. <https://doi.org/10.1016/j.jpain.2011.09.005>
155. O'Neill S, Kjær P, Graven-Nielsen T, Manniche C, Arendt-Nielsen L. 2011. Low pressure pain thresholds are associated with, but does not predispose for, low back pain. *European Spine Journal*. 20(12):2120-2125. <https://doi.org/10.1007/s00586-011-1796-4>
156. Slater H, Gibson W, Graven-Nielsen T. 2011. Sensory responses to mechanically and chemically induced tendon pain in healthy subjects. *European Journal of Pain*. 15(2):146-152. <https://doi.org/10.1016/j.ejpain.2010.06.010>
157. Ervilha UF, Graven-Nielsen T, Duarte M. 2012. A simple test of muscle coactivation estimation using electromyography. *Brazilian Journal of Medical and Biological Research*. 45(10):977-981. <https://doi.org/10.1590/S0100-879X2012007500092>
158. Finocchietti S, Andresen T, Arendt-Nielsen L, Graven-Nielsen T. 2012. Pain evoked by pressure stimulation on the tibia bone: influence of probe diameter on tissue stress and strain. *European Journal of Pain*. 16(4):534-542. <https://doi.org/10.1016/j.ejpain.2011.08.001>
159. Finocchietti S, Arendt-Nielsen L, Graven-Nielsen T. 2012. Tissue characteristics during temporal summation of pressure-evoked pain. *Experimental Brain Research*. 219(2):255-265. <https://doi.org/10.1007/s00221-012-3085-9>

160. Ge H-Y, Nie H, Graven-Nielsen T, Danneskiold-Samsøe B, Arendt-Nielsen L. 2012. Descending pain modulation and its interaction with peripheral sensitization following sustained isometric muscle contraction in fibromyalgia. *European Journal of Pain*. 16(2):196-203. <https://doi.org/10.1016/j.ejpain.2011.06.008>
161. Graven-Nielsen T, Wodehouse T, Langford RM, Arendt-Nielsen L, Kidd BL. 2012. Normalization of widespread hyperesthesia and facilitated spatial summation of deep-tissue pain in knee osteoarthritis patients after knee replacement. *Arthritis & Rheumatism*. 64(9):2907-2916. <https://doi.org/10.1002/art.34466>
162. Graven-Nielsen T, Wodehouse T, Langford RM, Arendt-Nielsen L, Kidd BL. 2012. Reply: to comment on "Normalization of widespread hyperesthesia and facilitated spatial summation of deep-tissue pain in knee osteoarthritis patients after knee replacement". *Arthritis & Rheumatism*. 64(12):4165-4166. <https://doi.org/10.1002/art.37693>
163. Hirata RP, Arendt-Nielsen L, Shiozawa S, Graven-Nielsen T. 2012. Experimental knee pain impairs postural stability during quiet stance but not after perturbations. *European Journal of Applied Physiology*. 112(7):2511-2521. <https://doi.org/10.1007/s00421-011-2226-3>
164. Lemming D, Graven-Nielsen T, Sørensen J, Arendt-Nielsen L, Gerdle B. 2012. Widespread pain hypersensitivity and facilitated temporal summation of deep tissue pain in whiplash associated disorder: an explorative study of women. *Journal of Rehabilitation Medicine*. 44(8):648-657. <https://doi.org/10.2340/16501977-1006>
165. Lindstrøm R, Graven-Nielsen T, Falla D. 2012. Current pain and fear of pain contribute to reduced maximum voluntary contraction of neck muscles in patients with chronic neck pain. *Archives of Physical Medicine and Rehabilitation*. 93(11):2042-2048. <https://doi.org/10.1016/j.apmr.2012.04.014>
166. Palsson T, Graven-Nielsen T. 2012. Experimental pelvic pain facilitates pain provocation tests and causes regional hyperalgesia. *Pain*. 153(11):2233-2240. <https://doi.org/10.1016/j.pain.2012.07.013>
167. Salomoni SE, Graven-Nielsen T. 2012. Experimental muscle pain increases normalized variability of multidirectional forces during isometric contractions. *European Journal of Applied Physiology*. 112(10):3607-3617. <https://doi.org/10.1007/s00421-012-2343-7>
168. Salomoni SE, Graven-Nielsen T. 2012. Muscle fatigue increases the amplitude of fluctuations of tangential forces during isometric contractions. *Human Movement Science*. 31(4):758-771. <https://doi.org/10.1016/j.humov.2011.08.012>
169. Skou ST, Arendt-Nielsen L, Graven-Nielsen T. 2012. Muskuloskeletal smerte: fysiologi, manifestationer og mekanismer. *Dansk Sportsmedicin*. 16(3):14-18.
170. Slater H, Graven-Nielsen T, Wright A, Schug SA. 2012. Low-dose sublingual ketamine does not modulate experimentally induced mechanical hyperalgesia in healthy subjects. *Pain Medicine*. 13(9):1235-1246. <https://doi.org/10.1111/j.1526-4637.2012.01444.x>
171. Finocchietti S, Takahashi K, Okada K, Watanabe Y, Graven-Nielsen T, Mizumura K. 2013. Deformation and pressure propagation in deep tissue during mechanical painful pressure stimulation. *Medical & Biological Engineering & Computing*. 51(1-2):113-122. <https://doi.org/10.1007/s11517-012-0974-9>
172. Hayashi K, Shiozawa S, Ozaki N, Mizumura K, Graven-Nielsen T. 2013. Repeated intramuscular injections of nerve growth factor induced progressive muscle hyperalgesia, facilitated temporal summation, and expanded pain areas. *Pain*. 154(11):2344-2352. <https://doi.org/10.1016/j.pain.2013.07.007>
173. Henriksen M, Klokke L, Bartholdy C, Graven-Nielsen T, Bliddal H. 2013. The associations between pain sensitivity and knee muscle strength in healthy volunteers: a cross-sectional study. *Pain Research and Treatment*. 2013. <https://doi.org/10.1155/2013/787054>
174. Hirata RP, Jørgensen TS, Rosager S, Arendt-Nielsen L, Bliddal H, Henriksen M, Graven-Nielsen T. 2013. Altered visual and feet proprioceptive feedbacks during quiet standing increase postural sway in patients with severe knee osteoarthritis. *P L o S One*. 8(8). <https://doi.org/10.1371/journal.pone.0071253>
175. Izumi M, Ikeuchi M, Kawasaki M, Ushida T, Morio K, Namba H, Graven-Nielsen T, Ogawa Y, Tani T. 2013. MR-guided focused ultrasound for the novel and innovative management of osteoarthritic knee pain. *B M C Musculoskeletal Disorders*. 14. <https://doi.org/10.1186/1471-2474-14-267>
176. Jespersen A, Amris K, Graven-Nielsen T, Arendt-Nielsen L, Bartels EM, Torp-Pedersen S, Bliddal H, Danneskiold-Samsøe B. 2013. Assessment of pressure-pain thresholds and central sensitization of pain in lateral epicondylalgia. *Pain Medicine*. 14(2):297-304. <https://doi.org/10.1111/pme.12021>
177. Jørgensen TS, Henriksen M, Danneskiold-Samsøe B, Bliddal H, Graven-Nielsen T. 2013. Experimental knee pain evoke spreading hyperalgesia and facilitated temporal summation of pain. *Pain Medicine*. 14(6):874-883. <https://doi.org/10.1111/pme.12093>
178. Queme F, Taguchi T, Mizumura K, Graven-Nielsen T. 2013. Muscular heat and mechanical pain sensitivity after lengthening contractions in humans and animals. *Journal of Pain*. 14(11):1425-1436.
179. Salomoni SE, Ejaz A, Laursen AC, Graven-Nielsen T. 2013. Variability of three-dimensional forces increase during experimental knee pain. *European Journal of Applied Physiology*. 113(3):567-575. <https://doi.org/10.1007/s00421-012-2461-2>

180. Shiozawa S, Hirata RP, Graven-Nielsen T. 2013. Reorganised anticipatory postural adjustments due to experimental lower extremity muscle pain. *Human Movement Science*. 32(6):1239-1252. <https://doi.org/10.1016/j.humov.2013.01.009>
181. Skou ST, Graven-Nielsen T, Lengsø L, Simonsen O, Laursen MB, Arendt-Nielsen L. 2013. Relating clinical measures of pain with experimentally assessed pain mechanisms in patients with knee osteoarthritis. *Scandinavian Journal of Pain*. 4(2):111-117. <https://doi.org/10.1016/j.sjpain.2012.07.001>
182. Skou ST, Graven-Nielsen T, Rasmussen S, Simonsen O, Laursen MB, Arendt-Nielsen L. 2013. Widespread sensitization in patients with chronic pain after revision total knee arthroplasty. *Pain*. 154(9):1588-1594. <https://doi.org/10.1016/j.pain.2013.04.033>
183. Adnadjevic D, Graven-Nielsen T. 2014. Vibration and rotation during biaxial pressure algometry is related with decreased and increased pain sensations. *Pain Medicine*. 15(12):2095-2104. <https://doi.org/10.1111/pme.12550>
184. Arendt-Nielsen L, Eskehave TN, Egsgaard LL, Petersen KK, Graven-Nielsen T, Hoeck HC, Simonsen O, Siebuhr AS, Karsdal M, Bay-Jensen AC. 2014. Association between experimental pain biomarkers and serologic markers in patients with different degrees of painful knee osteoarthritis. *Arthritis & Rheumatology*. 66(12):3317-3326. <https://doi.org/10.1002/art.38856>
185. Finocchietti S, Graven-Nielsen T, Arendt-Nielsen L. 2014. Bone hyperalgesia after mechanical impact stimulation: A human experimental pain model. *Somatosensory and Motor Research*. 31(4):178-185. <https://doi.org/10.3109/08990220.2014.911171>
186. Ge H-Y, Montere S, Graven-Nielsen T, Arendt-Nielsen L. 2014. Latent myofascial trigger points are associated with an increased intramuscular electromyographic activity during synergistic muscle activation. *Journal of Pain*. 15(2):181-187. <https://doi.org/10.1016/j.jpain.2013.10.009>
187. Henriksen M, Klokke L, Graven-Nielsen T, Bartholdy C, Jørgensen TS, Bandak E, Danneskiold-Samsøe B, Christensen R, Bliddal H. 2014. Association of exercise therapy and reduction of pain sensitivity in patients with knee osteoarthritis: A randomized controlled trial. *Arthritis Care & Research*. 66(12):1836-1843. <https://doi.org/10.1002/acr.22375>
188. Izumi M, Petersen KK, Arendt-Nielsen L, Graven-Nielsen T. 2014. Pain referral and regional deep tissue hyperalgesia in experimental human hip pain models. *Pain*. 155(4):792-800. <https://doi.org/10.1016/j.pain.2014.01.008>
189. Jørgensen TS, Graven-Nielsen T, Ellegaard K, Danneskiold-Samsøe B, Bliddal H, Henriksen M. 2014. Intra-articular analgesia and steroid reduce pain sensitivity in knee OA patients: an interventional cohort study. *Pain Research and Treatment*. 2014. <https://doi.org/10.1155/2014/710490>
190. Larsen P, Lund H, Laessoe U, Graven-Nielsen T, Rasmussen S. 2014. Restrictions in Quality of Life after Intramedullary Nailing of Tibial Shaft Fracture. A retrospective follow-up study of 223 cases. *Journal of Orthopaedic Trauma*. 28(9):507-512. <https://doi.org/10.1097/BOT.0000000000000031>
191. Lo Vecchio S, Finocchietti S, Gazerani P, Petersen LJ, Arendt-Nielsen L, Graven-Nielsen T. 2014. Heat-rekindling in UVB-irradiated skin above NGF-sensitized muscle: experimental models of prolonged mechanical hypersensitivity. *International Journal of Physiology, Pathophysiology and Pharmacology*. 6(3):143-152.
192. Lo Vecchio S, Petersen LJ, Finocchietti S, Gazerani P, Arendt-Nielsen L, Graven-Nielsen T. 2014. Hyperalgesia and allodynia to superficial and deep-tissue mechanical stimulation within and outside of the UVB irradiated area in human skin. *Scandinavian Journal of Pain*. 5(4):258-267. <https://doi.org/10.1016/j.sjpain.2014.08.001>
193. Mista CA, Salomoni SE, Graven-Nielsen T. 2014. Spatial reorganisation of muscle activity correlates with change in tangential force variability during isometric contractions. *Journal of Electromyography & Kinesiology*. 24(1):37-45. <https://doi.org/10.1016/j.jelekin.2013.10.014>
194. Mølgaard CM, Graven-Nielsen T, Simonsen O, Kersting UG. 2014. Potential interaction of experimental knee pain and laterally wedged insoles for knee off-loading during walking. *Clinical Biomechanics*. 29(8):848-854. <https://doi.org/10.1016/j.clinbiomech.2014.08.002>
195. O'Neill S, Manniche C, Graven-Nielsen T, Arendt-Nielsen L. 2014. Association between a composite score of pain sensitivity and clinical parameters in low-back pain. *The Clinical Journal of Pain*. 30(10):831-838. <https://doi.org/10.1097/AJP.0000000000000042>
196. O'Neill S, Graven-Nielsen T, Manniche C, Arendt-Nielsen L. 2014. Reliability and validity of a simple and clinically applicable pain stimulus: sustained mechanical pressure with a spring-clamp. *Chiropractic & Manual Therapies*. 22(1). <https://doi.org/10.1186/s12998-014-0030-y>
197. Skou ST, Graven-Nielsen T, Rasmussen S, Simonsen OH, Laursen MB, Arendt-Nielsen L. 2014. Facilitation of pain sensitization in knee osteoarthritis and persistent post-operative pain: A cross-sectional study. *European Journal of Pain*. 18(7):1024-1031. <https://doi.org/10.1002/j.1532-2149.2013.00447.x>
198. Vægter HB, Handberg G, Graven-Nielsen T. 2014. Similarities between exercise-induced hypoalgesia and conditioned pain modulation in humans. *Pain*. 155(1):158-167. <https://doi.org/10.1016/j.pain.2013.09.023>
199. Adnadjevic D, Graven-Nielsen T. 2015. Pressure algometry with a rotational fanning probe improves the detection of experimental muscle hyperalgesia. *Pain Medicine*. 16(3):537-543. <https://doi.org/10.1111/pme.12631>

200. Adnadjevic D, Graven-Nielsen T. 2015. Temporal summation of muscle pain evoked by very fast pressure sequences and rotation. *Somatosensory and Motor Research*. 32(2):99-105. <https://doi.org/10.3109/08990220.2014.981650>
201. Arendt-Nielsen L, Egsgaard LL, Petersen KK, Eskehave TN, Graven-Nielsen T, Hoeck HC, Simonsen O. 2015. A mechanism-based pain sensitivity index to characterize knee osteoarthritis patients with different disease stages and pain levels. *European Journal of Pain*. 19(10):1406-1417. <https://doi.org/10.1002/ejp.651>
202. Bergin MJG, Hirata R, Mista C, Christensen SW, Tucker K, Vicenzino B, Hodges P, Graven-Nielsen T. 2015. Movement evoked pain and mechanical hyperalgesia after intramuscular injection of nerve growth factor: a model of sustained elbow pain. *Pain Medicine*. 16(11):2180-2191. <https://doi.org/10.1111/pme.12824>
203. Christensen SW, Hirata RP, Graven-Nielsen T. 2015. The effect of experimental neck pain on pressure pain sensitivity and axioscapular motor control. *The Journal of Pain*. 16(4):367-379. <https://doi.org/10.1016/j.jpain.2015.01.008>
204. Dannecker EA, Koltyn KF, Velazquez CR, Arendt-Nielsen L, Graven-Nielsen T. 2015. Inducing a blind spot: blinding data collectors in an investigation of experimental pain. *Pain Medicine*. 16(6):1145-1154. <https://doi.org/10.1111/pme.12706>
205. Finocchietti S, Graven-Nielsen T, Arendt-Nielsen L. 2015. Dynamic mechanical assessment of muscle hyperalgesia in humans: the dynamic algometer. *Pain Research & Management*. 20(1):29-34. <https://doi.org/10.1155/2015/595203>
206. Graven-Nielsen T, Vaegter HB, Finocchietti S, Handberg G, Arendt-Nielsen L. 2015. Assessment of musculoskeletal pain sensitivity and temporal summation by cuff pressure algometry: a reliability study. *Pain*. 156(11):2193-2202. <https://doi.org/10.1097/j.pain.0000000000000294>
207. Hirata RP, Salomoni SE, Christensen SW, Graven-Nielsen T. 2015. Reorganised motor control strategies of trunk muscles due to acute low back pain. *Human Movement Science*. 41:282-294. <https://doi.org/10.1016/j.humov.2015.04.001>
208. Jørgensen TS, Henriksen M, Mortensen SR, Klokke L, Ellegaard K, Danneskiold-Samsøe B, Bliddal H, Graven-Nielsen T. 2015. The dynamics of the pain system is intact in patients with knee osteoarthritis: an exploratory experimental study. *Scandinavian Journal of Pain*. 6(C):43-49. <https://doi.org/10.1016/j.sjpain.2014.11.002>
209. Larsen P, Elsøe R, Graven-Nielsen T, Læssøe U, Rasmussen S. 2015. Decreased muscle strength is associated with impaired long-term functional outcome after intramedullary nailing of femoral shaft fracture. *European Journal of Trauma and Emergency Surgery*. 41(6):673-681. <https://doi.org/10.1007/s00068-014-0488-2>
210. Larsen RG, Hirata RP, Madzak A, Frøkjær JB, Graven-Nielsen T. 2015. Eccentric exercise slows in vivo microvascular reactivity during brief contractions in human skeletal muscle. *Journal of Applied Physiology*. 119(11):1272-1281. <https://doi.org/10.1152/jappphysiol.00563.2015>
211. Larsen P, Elsøe R, Hansen SH, Graven-Nielsen T, Læssøe U, Rasmussen S. 2015. Incidence and epidemiology of tibial shaft fractures. *Injury*. 46(4):746-750. <https://doi.org/10.1016/j.injury.2014.12.027>
212. Lemming D, Børsbo B, Sjörs A, Lind E-B, Arendt-Nielsen L, Graven-Nielsen T, Gerdle B. 2015. Single-point but not tonic cuff pressure pain sensitivity is associated with level of physical fitness: a study of non-athletic healthy subjects. *PLOS ONE*. 10(5). <https://doi.org/10.1371/journal.pone.0125432>
213. Lo Vecchio S, Petersen LJ, Finocchietti S, Gazerani P, Arendt-Nielsen L, Graven-Nielsen T. 2015. The effect of combined skin and deep tissue inflammatory pain models. *Pain Medicine*. 16(11): 2053-2064. <https://doi.org/10.1111/pme.12826>
214. Manafi-Khanian B, Arendt-Nielsen L, Frøkjær JB, Graven-Nielsen T. 2015. Deformation and pressure propagation in deep somatic tissue during painful cuff algometry. *European Journal of Pain*. 19(10):1456-1466. <https://doi.org/10.1002/ejp.677>
215. Mista CA, Christensen SW, Graven-Nielsen T. 2015. Modulation of motor variability related to experimental muscle pain during elbow-flexion contractions. *Human Movement Science*. 39:222-235. <https://doi.org/10.1016/j.humov.2014.09.006>
216. Palsson T, Hirata RP, Graven-Nielsen T. 2015. Experimental pelvic pain impairs the performance during the active straight leg raise test and causes excessive muscle stabilization. *The Clinical Journal of Pain*. 31(7):642-651. <https://doi.org/10.1097/AJP.0000000000000139>
217. Palsson TS, Beales D, Slater H, O'Sullivan P, Graven-Nielsen T. 2015. Pregnancy is characterized by widespread deep-tissue hypersensitivity independent of lumbopelvic pain intensity, a facilitated response to manual orthopedic tests, and poorer self-reported health. *Journal of Pain*. 16(3):270-282. <https://doi.org/10.1016/j.jpain.2014.12.002>
218. Rathleff MS, Vicenzino B, Middelkoop M, Graven-Nielsen T, van Linschoten R, Hölmich P, Thorborg K. 2015. Patellofemoral pain in adolescence and adulthood: same same, but different?. *Sports Medicine*. 45(11):1489-1495. <https://doi.org/10.1007/s40279-015-0364-1>
219. Rice DA, Graven-Nielsen T, Lewis GN, McNair PJ, Dalbeth N. 2015. The effects of experimental knee pain on lower limb corticospinal and motor cortex excitability. *Arthritis Research & Therapy*. 17. <https://doi.org/10.1186/s13075-015-0724-0>

220. Shiozawa S, Hirata RP, Graven-Nielsen T. 2015. Center of pressure displacement of standing posture during rapid movements is reorganised due to experimental lower extremity muscle pain. *PLoS ONE*. 10(12). <https://doi.org/10.1371/journal.pone.0144933>
221. Shiozawa S, Hirata RP, Jeppesen JB, Graven-Nielsen T. 2015. Impaired anticipatory postural adjustments due to experimental infrapatellar fat pad pain. *European Journal of Pain*. 19(9):1362-1371. <https://doi.org/10.1002/ejp.667>
222. Vægter HB, Handberg G, Jørgensen MN, Kinly A, Graven-Nielsen T. 2015. Aerobic exercise and cold pressor test induce hypoalgesia in active and inactive men and women. *Pain Medicine*. 16(5):923-933. <https://doi.org/10.1111/pme.12641>
223. Vægter HB, Handberg G, Graven-Nielsen T. 2015. Isometric exercises reduce temporal summation of pressure pain in humans. *European Journal of Pain*. 19(7):973-983. <https://doi.org/10.1002/ejp.623>
224. Doménech-García V, Pálsson TS, Herrero P, Graven-Nielsen T. 2016. Pressure-induced referred pain is expanded by persistent soreness. *Pain*. 157(5):1164-1172. <https://doi.org/10.1097/j.pain.0000000000000497>
225. Drew MK, Pálsson T, Izumi M, Hirata RP, Lovell G, Chiarelli P, Osmotherly PG, Graven-Nielsen T. 2016. Resisted adduction in hip neutral is a superior provocation test to assess adductor longus pain: an experimental pain study. *Scandinavian Journal of Medicine & Science in Sports*. 26(8):967-974. <https://doi.org/10.1111/sms.12529>
226. Larsen P, Elsoe R, Laessoe U, Graven-Nielsen T, Eriksen CB, Rasmussen S. 2016. Decreased QOL and muscle strength are persistent 1 year after intramedullary nailing of a tibial shaft fracture: a prospective 1-year follow-up cohort study. *Archives of Orthopaedic and Trauma Surgery*. 136(10):1395-1402. <https://doi.org/10.1007/s00402-016-2537-2>
227. Larsen P, Elsoe R, Graven-Nielsen T, Læssøe U, Rasmussen S. 2016. Local and Widespread Hyperalgesia After Isolated Tibial Shaft Fractures Treated with Intramedullary Nailing. *Pain Medicine*. 17(6):1174-1180. <https://doi.org/10.1093/pm/pnv016>
228. Larsen LH, Hirata RP, Graven-Nielsen T. 2016. Reorganized trunk muscle activity during multidirectional floor perturbations after experimental low back pain: a comparison of bilateral versus unilateral pain. *Journal of Pain*. 17(2):223-235. <https://doi.org/10.1016/j.jpain.2015.10.012>
229. Lo Vecchio S, Petersen LJ, Finocchietti S, Gazerani P, Christensen SW, Arendt-Nielsen L, Graven-Nielsen T. 2016. Interaction between ultraviolet B-induced cutaneous hyperalgesia and nerve growth factor-induced muscle hyperalgesia. *European Journal of Pain*. 20(7):1058-1069. <https://doi.org/10.1002/ejp.828>
230. Manafi Khanian B, Arendt-Nielsen L, Kjær Petersen K, Samani A, Graven-Nielsen T. 2016. Interface pressure behavior during painful cuff algometry. *Pain Medicine*. 17(5):915-923. <https://doi.org/10.1093/pm/pnv063>
231. Manafi-Khanian B, Arendt-Nielsen L, Graven-Nielsen T. 2016. An MRI-based leg model used to simulate biomechanical phenomena during cuff algometry: a finite element study. *Medical & Biological Engineering & Computing*. 54(2):315-324. <https://doi.org/10.1007/s11517-015-1291-x>
232. Mista CA, Bergin M, Hirata RP, Christensen SW, Tucker K, Hodges P, Graven-Nielsen T. 2016. Effects of prolonged and acute muscle pain on the force control strategy during isometric contractions. *Journal of Pain*. 17(10):1116-1125. <https://doi.org/10.1016/j.jpain.2016.06.013>
233. Petersen KK, Graven-Nielsen T, Simonsen O, Laursen MB, Arendt-Nielsen L. 2016. Preoperative pain mechanisms assessed by cuff algometry are associated with chronic postoperative pain relief after total knee replacement. *Pain*. 157(7):1400-1406. <https://doi.org/10.1097/j.pain.0000000000000531>
234. Petersen KK, Siebuhr AS, Graven-Nielsen T, Simonsen O, Boesen M, Gudbergson H, Karsdal M, Bay-Jensen AC, Arendt-Nielsen L. 2016. Sensitization and serological biomarkers in knee osteoarthritis patients with different degrees of synovitis. *The Clinical Journal of Pain*. 32(10):841-848. <https://doi.org/10.1097/AJP.0000000000000334>
235. Rathleff MS, Petersen KK, Arendt-Nielsen L, Thorborg K, Graven-Nielsen T. 2016. Impaired conditioned pain modulation in young female adults with long-standing patellofemoral pain: a single blinded cross-sectional study. *Pain Medicine*. 17(5):980-988. <https://doi.org/10.1093/pm/pnv017>
236. Schabrun SM, Christensen SW, Mrachacz-Kersting N, Graven-Nielsen T. 2016. Motor cortex reorganization and impaired function in the transition to sustained muscle pain. *Cerebral Cortex*. 26(5):1878-1890. <https://doi.org/10.1093/cercor/bhu319>
237. Vaegter HB, Graven-Nielsen T. 2016. Pain modulatory phenotypes differentiate subgroups with different clinical and experimental pain sensitivity. *Pain*. 157(7):1480-1488. <https://doi.org/10.1097/j.pain.0000000000000543>
238. Vægter HB, Handberg G, Graven-Nielsen T. 2016. Hypoalgesia after exercise and the cold pressor test is reduced in chronic musculoskeletal pain patients with high pain sensitivity. *The Clinical Journal of Pain*. 32(1):58-69. <https://doi.org/10.1097/AJP.0000000000000223>
239. Christensen SW, Hirata RP, Graven-Nielsen T. 2017. Altered pain sensitivity and axioscapular muscle activity in neck pain patients compared with healthy controls. *European Journal of Pain*. 21(10):1763-1771. <https://doi.org/10.1002/ejp.1088>
240. Christensen SW, Hirata RP, Graven-Nielsen T. 2017. Bilateral experimental neck pain reorganize axioscapular muscle coordination and pain sensitivity. *European Journal of Pain*. 21(4):681-691. <https://doi.org/10.1002/ejp.972>

241. Drew MK, Palsson TS, Hirata RP, Izumi M, Lovell G, Welvaert M, Chiarelli P, Osmotherly PG, Graven-Nielsen T. 2017. Experimental pain in the groin may refer into the lower abdomen: Implications to clinical assessments. *Journal of Science and Medicine in Sport*. 20(10):904-909. <https://doi.org/10.1016/j.jsams.2017.04.007>
242. Graven-Nielsen T, Izumi M, Petersen KK, Arendt-Nielsen L. 2017. User-independent assessment of conditioning pain modulation by cuff pressure algometry. *European Journal of Pain*. 21(3):552-561. <https://doi.org/10.1002/ejp.958>
243. Izumi M, Petersen KK, Laursen MB, Arendt-Nielsen L, Graven-Nielsen T. 2017. Facilitated temporal summation of pain correlates with clinical pain intensity after hip arthroplasty. *Pain*. 158(2):323-332. <https://doi.org/10.1097/j.pain.0000000000000764>
244. Larsen P, Læssøe U, Rasmussen S, Graven-Nielsen T, Eriksen CB, Elsøe R. 2017. Asymmetry in gait pattern following tibial shaft fractures: a prospective one-year follow-up study of 49 patients. *Gait & Posture*. 51:47-51. <https://doi.org/10.1016/j.gaitpost.2016.09.027>
245. Larsen LH, Hirata RP, Graven-Nielsen T. 2017. Pain-evoked trunk muscle activity changes during fatigue and DOMS. *European Journal of Pain*. 21(5):907-917. <https://doi.org/10.1002/ejp.993>
246. Lemming D, Børsbo B, Sjörs A, Lind E-B, Arendt-Nielsen L, Graven-Nielsen T, Gerdle B. 2017. Cuff pressure pain detection is associated with both sex and physical activity level in nonathletic healthy subjects. *Pain Medicine*. 18(8):1573-1581. <https://doi.org/10.1093/pm/pnw309>
247. Lindskou TA, Christensen SW, Graven-Nielsen T. 2017. Cuff algometry for estimation of hyperalgesia and pain summation. *Pain Medicine*. 18(3):468-476. <https://doi.org/10.1093/pm/pnw168>
248. Petersen KK, Arendt-Nielsen L, Finocchietti S, Hirata RP, Simonsen O, Laursen MB, Graven-Nielsen T. 2017. Age interactions on pain sensitization in patients with severe knee osteoarthritis and controls. *The Clinical Journal of Pain*. 33(12):1081-1087. <https://doi.org/10.1097/AJP.0000000000000495>
249. Skovbjerg S, Jørgensen T, Arendt-Nielsen L, Ebstrup JF, Carstensen T, Graven-Nielsen T. 2017. Conditioned pain modulation and pressure pain sensitivity in the adult Danish general population: the DanFunD study. *Journal of Pain*. 18(3):274-284. <https://doi.org/10.1016/j.jpain.2016.10.022>
250. Vaegter HB, Bement MH, Madsen AB, Fridriksson J, Dasa M, Graven-Nielsen T. 2017. Exercise increases pressure pain tolerance but not pressure and heat pain thresholds in healthy young men. *European Journal of Pain*. 21(1):73-81. <https://doi.org/10.1002/ejp.901>
251. Vaegter HB, Palsson TS, Graven-Nielsen T. 2017. Facilitated pronociceptive pain mechanisms in radiating back pain compared with localized back pain. *Journal of Pain*. 18(8):973-983. <https://doi.org/10.1016/j.jpain.2017.03.002>
252. Vaegter HB, Handberg G, Emmeluth C, Graven-Nielsen T. 2017. Preoperative hypoalgesia after cold pressor test and aerobic exercise is associated with pain relief six months after total knee replacement. *The Clinical Journal of Pain*. 33(6):475-484. <https://doi.org/10.1097/AJP.0000000000000428>
253. Wang K, Luo Y, Asaki T, Graven-Nielsen T, Cairns BE, Arendt-Nielsen T, Arendt-Nielsen L. 2017. Acid-induced experimental muscle pain and hyperalgesia with single and repeated infusion in human forearm. *Scandinavian Journal of Pain*. 17:260-266. <https://doi.org/10.1016/j.sjpain.2017.07.012>
254. Wang X, Lindstroem R, Carstens NPB, Graven-Nielsen T. 2017. Cervical spine reposition errors after cervical flexion and extension. *BMC Musculoskeletal Disorders*. 18. <https://doi.org/10.1186/s12891-017-1454-z>
255. Asaki T, Wang K, Luo Y, Arendt-Nielsen T, Graven-Nielsen T, Arendt-Nielsen L. 2018. Acid-induced experimental knee pain and hyperalgesia in healthy humans. *Experimental Brain Research*. 236(2):587-598. <https://doi.org/10.1007/s00221-017-5155-5>
256. Boudreau SA, Royo AC, Matthews M, Graven-Nielsen T, Kamavuako EN, Slabaugh G, Thorborg K, Vicenzino B, Rathleff MS. 2018. Distinct patterns of variation in the distribution of knee pain. *Scientific Reports*. 8(1):1-12. <https://doi.org/10.1038/s41598-018-34950-2>
257. Clausen MB, Bandholm T, Rathleff MS, Christensen KB, Zebis MK, Graven-Nielsen T, Hölmich P, Thorborg K. 2018. The Strengthening Exercises in Shoulder Impingement trial (The SExSI-trial) investigating the effectiveness of a simple add-on shoulder strengthening exercise programme in patients with long-lasting subacromial impingement syndrome: Study protocol for a pragmatic, assessor blinded, parallel-group, randomised, controlled trial. *Trials*. 19(1):154. <https://doi.org/10.1186/s13063-018-2509-7>
258. De Martino E, Zandalasini M, Schabrun S, Petrini L, Graven-Nielsen T. 2018. Experimental muscle hyperalgesia modulates sensorimotor cortical excitability, which is partially altered by unaccustomed exercise. *Pain*. 159(12):2493-2502. <https://doi.org/10.1097/j.pain.0000000000001351>
259. Doménech-García V, Skuli Palsson T, Boudreau SA, Herrero P, Graven-Nielsen T. 2018. Pressure-induced referred pain areas are more expansive in individuals with a recovered fracture. *Pain*. 159(10):1972-1979. <https://doi.org/10.1097/j.pain.0000000000001234>
260. Hirata RP, Christensen SW, Agger S, Svindt M, Røssner N, Abildgaard J, Vuillerme N, Graven-Nielsen T. 2018. Light touch contact improves pain-evoked postural instability during quiet standing. *Pain Medicine*. 19(12):2487-2495. <https://doi.org/10.1093/pm/pny015>

261. Holden S, Rathleff MS, Roos EM, Jensen MB, Pourbordbari N, Graven-Nielsen T. 2018. Pain patterns during adolescence can be grouped into four pain classes with distinct profiles: A study on a population based cohort of 2953 adolescents. *European Journal of Pain*. 22(4):793-799. <https://doi.org/10.1002/ejp.1165>
262. Holden S, Straszek CL, Rathleff MS, Petersen KK, Roos EM, Graven-Nielsen T. 2018. Young females with long-standing patellofemoral pain display impaired conditioned pain modulation, increased temporal summation of pain, and widespread hyperalgesia. *Pain*. 159(12):2530-2537. <https://doi.org/10.1097/j.pain.0000000000001356>
263. Høgh M, Petersen KK, Graven-Nielsen T. 2018. Effects of repeated conditioning pain modulation in healthy volunteers. *European Journal of Pain*. 22(10):1833-1843. <https://doi.org/10.1002/ejp.1279>
264. Kristensen HN, Lundbye-Christensen S, Haslund-Thomsen H, Graven-Nielsen T, Elgaard Sørensen E. 2018. Acute Procedural Pain in Children: Intervention with the Hospital Clown. *The Clinical Journal of Pain*. 34(11):1032-1038. <https://doi.org/10.1097/AJP.0000000000000625>
265. Kurien T, Arendt-Nielsen L, Petersen KK, Graven-Nielsen T, Scammell BE. 2018. Preoperative neuropathic pain like symptoms and central pain mechanisms in knee osteoarthritis predicts poor outcome 6 months after total knee replacement surgery. *Journal of Pain*. 19(11):1329-1341. <https://doi.org/10.1016/j.jpain.2018.05.011>
266. Larsen DB, Graven-Nielsen T, Hirata RP, Boudreau SA. 2018. Differential corticomotor excitability responses to hypertonic saline-induced muscle pain in forearm and hand muscles. *Neural Plasticity*. 2018. <https://doi.org/10.1155/2018/7589601>
267. Larsen LH, Hirata RP, Graven-Nielsen T. 2018. Experimental low back pain decreased trunk muscle activity in currently asymptomatic recurrent low back pain patients during step tasks. *Journal of Pain*. 19(5):542-551. <https://doi.org/10.1016/j.jpain.2017.12.263>
268. Martino ED, Petrini L, Schabrun S, Graven-Nielsen T. 2018. Cortical somatosensory excitability is modulated in response to several days of muscle soreness. *Journal of Pain*. 19(11):1296-1307. <https://doi.org/10.1016/j.jpain.2018.05.004>
269. Mista CA, Monverde S, Inglés M, Salvat I, Graven-Nielsen T. 2018. Reorganized Force Control in Elbow Pain Patients During Isometric Wrist Extension. *The Clinical Journal of Pain*. 34(8):732-738. <https://doi.org/10.1097/AJP.0000000000000596>
270. Palsson TS, Boudreau SA, Krebs HJ, Graven-Nielsen T. 2018. Experimental referred pain extends toward previously injured location: An explorative study. *Journal of Pain*. 19(10):1189-1200. <https://doi.org/10.1016/j.jpain.2018.04.018>
271. Schabrun SM, Palsson TS, Thapa T, Graven-Nielsen T. 2018. Movement does not promote recovery of motor output following acute experimental muscle pain. *Pain Medicine*. 19(3):608-614. <https://doi.org/10.1093/pm/pnx099>
272. Seminowicz DA, de Martino E, Schabrun SM, Graven-Nielsen T. 2018. Left dorsolateral prefrontal cortex repetitive transcranial magnetic stimulation reduces the development of long-term muscle pain. *Pain*. 159(12):2486-2492. <https://doi.org/10.1097/j.pain.0000000000001350>
273. Souza-Silva E, Wittrup Christensen S, Hirata RP, Larsen RG, Graven-Nielsen T. 2018. Blood flow after contraction and cuff occlusion is reduced in subjects with muscle soreness after eccentric exercise. *Scandinavian Journal of Medicine & Science in Sports*. 28(1):29-39. <https://doi.org/10.1111/sms.12905>
274. Thapa T, Graven-Nielsen T, Chipchase LS, Schabrun SM. 2018. Disruption of cortical synaptic homeostasis in individuals with chronic low back pain. *Clinical Neurophysiology*. 129(5):1090-1096. <https://doi.org/10.1016/j.clinph.2018.01.060>
275. Vaegter HB, Andersen TE, Harvold M, Andersen PG, Graven-Nielsen T. 2018. Increased pain sensitivity in accident-related chronic pain patients with comorbid posttraumatic stress. *The Clinical Journal of Pain*. 34(4):313-321. <https://doi.org/10.1097/AJP.0000000000000543>
276. Vaegter HB, Madsen AB, Handberg G, Graven-Nielsen T. 2018. Kinesiophobia is associated with pain intensity but not pain sensitivity before and after exercise: an explorative analysis. *Physiotherapy*. 104(2):187-193. <https://doi.org/10.1016/j.physio.2017.10.001>
277. Vaegter HB, Dørge DB, Schmidt KS, Jensen AH, Graven-Nielsen T. 2018. Test-retest reliability of exercise-induced hypoalgesia after aerobic exercise. *Pain Medicine*. 19(11):2212-2222. <https://doi.org/10.1093/pm/pny009>
278. Wang X, Lindstroem R, Plocharski M, Østergaard LR, Graven-Nielsen T. 2018. Cervical flexion and extension includes anti-directional cervical joint motion in healthy adults. *Spine Journal*. 18(1):147-154. <https://doi.org/10.1016/j.spinee.2017.07.170>
279. Wang X, Lindstroem R, Plocharski M, Østergaard LR, Graven-Nielsen T. 2018. Repeatability of Cervical Joint Flexion and Extension Within and Between Days. *Journal of Manipulative and Physiological Therapeutics*. 41(1):10-18. <https://doi.org/10.1016/j.jmpt.2017.08.005>
280. Beales DJ, Gaynor O, Harris J, Fary R, O'Sullivan PB, Slater H, Graven-Nielsen T, Palsson TS. 2019. Correlations between the active straight leg raise, sleep and somatosensory sensitivity during pregnancy with post-partum lumbopelvic pain: an initial exploration. *Scandinavian Journal of Pain*. 19(1):53-60. <https://doi.org/10.1515/sjpain-2018-0081>

281. Bement MH, Petersen KK, Sørensen LB, Andersen HH, Graven-Nielsen T. 2019. Temporal aspects of endogenous pain modulation during a noxious stimulus prolonged for one day. *European Journal of Pain*. <https://doi.org/10.1002/ejp.1523>
282. De Martino E, Seminowicz DA, Schabrun SM, Petrini L, Graven-Nielsen T. 2019. High frequency repetitive transcranial magnetic stimulation to the left dorsolateral prefrontal cortex modulates sensorimotor cortex function in the transition to sustained muscle pain. *NeuroImage*. 186:93-102. <https://doi.org/10.1016/j.neuroimage.2018.10.076>
283. De Martino E, Fernandes AM, Galhardoni R, De Oliveira Souza C, Ciampi De Andrade D, Graven-Nielsen T. 2019. Sessions of Prolonged Continuous Theta Burst Stimulation or High-frequency 10 Hz Stimulation to Left Dorsolateral Prefrontal Cortex for 3 Days Decreased Pain Sensitivity by Modulation of the Efficacy of Conditioned Pain Modulation. *Journal of Pain*. 20(12):1459-1469. <https://doi.org/10.1016/j.jpain.2019.05.010>
284. Hirata RP, Skou ST, Simonsen O, Rasmussen S, Laursen MB, Graven-Nielsen T. 2019. Increased postural stiffness during challenging postural tasks in patients with knee osteoarthritis with high pain sensitization. *Clinical Biomechanics*. 61:129-135. <https://doi.org/10.1016/j.clinbiomech.2018.12.004>
285. Hoegh M, Seminowicz DA, Graven-Nielsen T. 2019. Delayed effects of attention on pain sensitivity and Conditioned Pain Modulation. *European Journal of Pain*. 23(10):1850-1862. <https://doi.org/10.1002/ejp.1458>
286. Holden S, Petersen KK, Arendt-Nielsen L, Graven-Nielsen T. 2019. Conditioning pain modulation reduces pain only during the first stimulation of the temporal summation of pain paradigm in healthy participants. *European Journal of Pain*. 23(7):1390-1396. <https://doi.org/10.1002/ejp.1408>
287. Holden S, Lyng K, Graven-Nielsen T, Riel H, Olesen JL, Larsen LH, Rathleff MS. 2019. Isometric exercise and pain in patellar tendinopathy: A randomized crossover trial. *Journal of Science and Medicine in Sport*. <https://doi.org/10.1016/j.jsams.2019.09.015>
288. Høgh MS, Nørgaard Poulsen J, Petrini L, Graven-Nielsen T. 2019. The Effect of Stress on Repeated Painful Stimuli With And Without Painful Conditioning. *Pain Medicine*. <https://doi.org/10.1093/pm/pnz115>
289. Jenkins LC, Chang W-J, Buscemi V, Liston M, Toson B, Nicholas M, Graven-Nielsen T, Ridding M, Hodges PW, McAuley JH, Schabrun SM. 2019. Do sensorimotor cortex activity, an individual's capacity for neuroplasticity, and psychological features during an episode of acute low back pain predict outcome at 6 months: a protocol for an Australian, multisite prospective, longitudinal cohort study. *BMJ Open*. 9(5). <https://doi.org/10.1136/bmjopen-2019-029027>
290. Larsen DB, Graven-Nielsen T, Hirata RP, Seminowicz D, Schabrun S, Boudreau SA. 2019. Corticomotor excitability reduction induced by experimental pain remains unaffected by performing a working memory task as compared to staying at rest. *Experimental Brain Research*. 237(9):2205-2215. <https://doi.org/10.1007/s00221-019-05587-y>
291. Larsen RG, Thomsen JM, Hirata RP, Steffensen R, Poulsen ER, Frøkjær JB, Graven-Nielsen T. 2019. Impaired microvascular reactivity after eccentric muscle contractions is not restored by acute ingestion of antioxidants or dietary nitrate. *Physiological Reports*. 7(13). <https://doi.org/10.14814/phy2.14162>
292. Larsen DB, Graven-Nielsen T, Boudreau S. 2019. Pain-Induced Reduction in Corticomotor Excitability is Counteracted by Combined Action-Observation and Motor Imagery. *Journal of Pain*. 20(11):1307-1316. <https://doi.org/10.1016/j.jpain.2019.05.001>
293. McPhee ME, Vaegter HB, Graven-Nielsen T. 2019. Alterations in pro-nociceptive and anti-nociceptive mechanisms in patients with low back pain: a systematic review with meta-analysis. *Pain*. <https://doi.org/10.1097/j.pain.0000000000001737>
294. McPhee M, Graven-Nielsen T. 2019. Alterations in temporal summation of pain and conditioned pain modulation across an episode of experimental exercise-induced low back pain. *Journal of Pain*. 20(3):264-276. <https://doi.org/10.1016/j.jpain.2018.08.010>
295. McPhee ME, Graven-Nielsen T. 2019. Recurrent low back pain patients demonstrate facilitated pronociceptive mechanisms when in pain, and impaired antinociceptive mechanisms with and without pain. *Pain*. 160(12):2866-2876. <https://doi.org/10.1097/j.pain.0000000000001679>
296. Qu N, Lindstrøm R, Graven-Nielsen T, Hirata RP. 2019. Experimental cervical interspinous ligament pain altered cervical joint motion during dynamic extension movement. *Clinical Biomechanics*. 65:65-72. <https://doi.org/10.1016/j.clinbiomech.2019.04.002>
297. Qu N, Lindstrøm R, Hirata RP, Graven-Nielsen T. 2019. Origin of neck pain and direction of movement influence dynamic cervical joint motion and pressure pain sensitivity. *Clinical Biomechanics*. 61:120-128. <https://doi.org/10.1016/j.clinbiomech.2018.12.002>
298. Rathleff MS, Graven-Nielsen T, Hölmich P, Winiarski L, Krommes K, Holden S, Thorborg K. 2019. Activity Modification and Load Management of Adolescents With Patellofemoral Pain: A Prospective Intervention Study Including 151 Adolescents. *The American Journal of Sports Medicine*. 47(7):1629-1637. <https://doi.org/10.1177/0363546519843915>
299. Rice D, Nijs J, Kosek E, Wideman T, Hasenbring MI, Koltyn K, Graven-Nielsen T, Polli A. 2019. Exercise induced hypoalgesia in pain-free and chronic pain populations: State of the art and future directions. *Journal of Pain*. 20(11):1249-1266. <https://doi.org/10.1016/j.jpain.2019.03.005>

300. Straszek CL, Rathleff MS, Graven-Nielsen T, Petersen KK, Roos EM, Holden S. 2019. Exercise-induced hypoalgesia in young adult females with long-standing patellofemoral pain – A randomized crossover study. *European Journal of Pain*. 23(10):1780-1789. <https://doi.org/10.1002/ejp.1452>
301. Suda EY, Hirata RP, Palsson T, Vuillerme N, Sacco ICN, Graven-Nielsen T. 2019. Experimental knee-related pain enhances attentional interference on postural control. *European Journal of Applied Physiology*. 119(9):2053-2064. <https://doi.org/10.1007/s00421-019-04192-9>
302. Summers SJ, Schabrun SM, Hirata RP, Graven-Nielsen T, Cavaleri R, Chipchase LS. 2019. Effect of sustained experimental muscle pain on joint position sense. *Pain Reports*. 4(3):2471-2531. <https://doi.org/10.1097/PR9.0000000000000737>
303. Summers SJ, Chipchase LS, Hirata R, Graven-Nielsen T, Cavaleri R, Schabrun SM. 2019. Motor adaptation varies between individuals in the transition to sustained pain. *Pain*. 160(9):2115-2125. <https://doi.org/10.1097/j.pain.0000000000001604>
304. Sørensen LB, Christensen S, Gazerani P, Graven-Nielsen T. 2019. Enlarged areas of pain and pressure hypersensitivity by spatially distributed intramuscular injections of low-dose nerve growth factor. *Journal of Pain*. 20(5):566-576. <https://doi.org/10.1016/j.jpain.2018.11.005>
305. Sørensen LB, Gazerani P, Graven-Nielsen T. 2019. Nerve growth factor-induced muscle hyperalgesia facilitates ischaemic contraction-evoked pain. *European Journal of Pain*. 23(10):1814-1825. <https://doi.org/10.1002/ejp.1455>
306. Vaegter HB, Lyng KD, Yttereng FW, Christensen MH, Sørensen MB, Graven-Nielsen T. 2019. Exercise-induced hypoalgesia after isometric wall squat exercise: A test-retest reliability study. *Pain Medicine*. 20(1):129-137. <https://doi.org/10.1093/pm/pny087>
307. Vaegter HB, Bjerregaard LK, Redin M-M, Rasmussen SH, Graven-Nielsen T. 2019. Hypoalgesia after bicycling at lactate threshold is reliable between sessions. *European Journal of Applied Physiology*. 119(1):91-102. <https://doi.org/10.1007/s00421-018-4002-0>
308. Van Ettinger-Veenstra H, Lundberg P, Alföldi P, Södermark M, Graven-Nielsen T, Sjös A, Engström M, Gerdle B. 2019. Chronic widespread pain patients show disrupted cortical connectivity in default mode and salience networks, modulated by pain sensitivity. *Journal of Pain Research*. 12:1743—1755. <https://doi.org/10.2147/JPR.S189443>
309. Christensen SW, Peolsson A, Agger SM, Gammelgaard MS, Graven-Nielsen T, Hirata RP. 2020. Head repositioning accuracy is influenced by experimental neck pain in those most accurate but not when adding a cognitive task. *Scandinavian Journal of Pain*. 20(1):191-203. <https://doi.org/10.1515/sjpain-2019-0093>
310. Holden S, Rathleff M, Thorborg K, Holmich P, Graven-Nielsen T. 2020. Mechanistic pain profiling in young adolescents with patellofemoral pain before and following treatment: a prospective cohort study. *Pain*. <https://doi.org/10.1097/j.pain.0000000000001796>
311. Rathleff MS, Winiarski L, Krommes K, Graven-Nielsen T, Hölmich P, Olesen JL, Holden S, Thorborg K. 2020. Pain, Sports Participation, and Physical Function in 10-14 Year Olds With Patellofemoral Pain and Osgood Schlatter: A Matched Cross-Sectional Study of 252 Adolescents. *Journal of Orthopaedic and Sports Physical Therapy*. 1-26. <https://doi.org/10.2519/jospt.2020.8770>

Book chapters

1. Arendt-Nielsen, L, Graven-Nielsen, T & Svensson, P 1999, Assessment of muscle pain in humans: clinical and experimental aspects. in L Vecchiet & MA Giamberardino (eds), *Muscle Pain, Myofascial Pain, and Fibromyalgia: Recent Advances*. Haworth Press, New York, pp. 25-41.
2. Graven-Nielsen, T, Sørensen, J, Henriksson, KG, Bengtsson, M & Arendt-Nielsen, L 1999, Central hyperexcitability in fibromyalgia. in L Vecchiet & MA Giamberardino (eds), *Muscle Pain, Myofascial Pain, and Fibromyalgia: Recent Advances*. Haworth Press, New York, pp. 261-271.
3. Graven-Nielsen, T 1999, SEMG in experimental and clinical muscle pain research. in HJ Hermens & B Freriks (eds), *Future Applications of Surface ElectroMyoGraphy : Proceedings of the fourth general SENIAM workshop, September 1999, 's Hertogenbosch, the Netherlands*. Roessingh Research and Development, pp. 85-90.
4. Graven-Nielsen, T, Sergerdahl, M, Svensson, P & Arendt-Nielsen, L 2001, Methods for induction and assessment of pain in humans with clinical and pharmacological examples. in L Kruger (ed.), *Methods in Pain Research*. CRC Press, Boca Raton, Methods & New Frontiers in Neuroscience, pp. 263-304.
5. Arendt-Nielsen, L & Graven-Nielsen, T 2002, Deep tissue hyperalgesia. in RM Bennett (ed.), *The Clinical Neurobiology of Fibromyalgia and Myofascial Pain: Therapeutic Implications*. Haworth Press, New York, pp. 97-119.
6. Bliddal, H & Graven-Nielsen, T 2003, Muskelsmerter. in TS Jensen, JB Dahl & L Arendt-Nielsen (eds), *Smerter : en lærebog*. FADL's Forlag, København, pp. 141-151.
7. Graven-Nielsen, T, Svensson, P & Arendt-Nielsen, L 2003, Interaction between muscle pain and motor control. in H Johansson, U Windhorst, M Djupsjöbacka & M Passatore (eds), *Chronic Work-Related Myalgia: Neuromuscular Mechanisms behind Work-Related Chronic Muscle Pain Syndromes*. Gävle University Press, pp. 141-154.

8. Arendt-Nielsen, L, Graven-Nielsen, T & Svensson, P 2004, Disturbances of pain perception in myofascial pain syndrome and other musculoskeletal pains. in S Lautenbacher & RB Fillingim (eds), *Pathophysiology of Pain Perception*. Plenum Publishing Corporation, New York, Plenum Series in Rehabilitation and Health, pp. 93-106.
9. Arendt-Nielsen, L & Graven-Nielsen, T 2005, Assessing muscle pain mechanisms in humans. in DM Justins (ed.), *Pain 2005: An Updated Review : Refresher Course Syllabus*. IASP Press, Seattle, pp. 355-365.
10. Graven-Nielsen, T 2006, Assessing musculoskeletal pain. in *Refresher Courses, Pain in Europe V, 5th Congress of the European Federation of IASP Chapters (EFIC), 13 September 2006, Istanbul, Turkey*. pp. 62-66.
11. Graven-Nielsen, T 2006, Central sensitization in musculoskeletal pain. in K-A Lindgren (ed.), *6th Physiatric Summer School: Fibromyalgia, 15-16 September 2005*. Rehabilitation ORTON Invalid Foundation, Helsinki, Uden navn, pp. 15-19.
12. Graven-Nielsen, T & Arendt-Nielsen, L 2006, Muscle pain. in M Akay (ed.), *Wiley Encyclopedia of Biomedical Engineering*. vol. 4, Wiley, Hoboken, NJ, pp. 2417-2424.
13. Graven-Nielsen, T 2007, Exogenous muscle pain. in RF Schmidt & WD Willis (eds), *Encyclopedia of Pain*. vol. 1, Springer, Berlin, pp. 755-757.
14. Graven-Nielsen, T 2007, Referred muscle pain, assessment. in RF Schmidt & WD Willis (eds), *Encyclopedia of Pain*. vol. 3, Springer, Berlin, pp. 2103-2106. <https://doi.org/10.1007/978-3-540-29805-2>
15. Arendt-Nielsen, L & Graven-Nielsen, T 2008, Musculoskeletal pain: basic mechanisms. in J Castro-Lopes, S Raja & M Schmelz (eds), *Pain 2008 : an Updated Review: Refresher Course Syllabus*. IASP Press, Seattle, pp. 63-73.
16. Arendt-Nielsen, L & Graven-Nielsen, T 2008, Translational aspects of musculoskeletal pain: from animals to patients. in T Graven-Nielsen, L Arendt-Nielsen & S Mense (eds), *Fundamentals of Musculoskeletal Pain*. IASP Press, Seattle, pp. 347-366.
17. Graven-Nielsen, T & Arendt-Nielsen, L 2008, Human models and clinical manifestations of musculoskeletal pain and pain-motor interactions. in T Graven-Nielsen, L Arendt-Nielsen & S Mense (eds), *Fundamentals of Musculoskeletal Pain*. IASP Press, Seattle, pp. 155-187.
18. Arendt-Nielsen, L & Graven-Nielsen, T 2009, Muscle pain, including fibromyalgia. in MD Binder, N Hirokawa & U Windhorst (eds), *Encyclopedia of Neuroscience*. Springer, pp. 2505-2508. https://doi.org/10.1007/978-3-540-29678-2_3674
19. Bliddal, H & Graven-Nielsen, T 2009, Muskelsmerter. in TS Jensen, JB Dahl & L Arendt-Nielsen (eds), *Smerter: baggrund, evidens og behandling*. 2 edn, FADL's Forlag, København, pp. 135-144.
20. Arendt-Nielsen, L, Graven-Nielsen, T, Kidd, BL & Fernandez-de-las-Penas, C 2010, From basic science to management of chronic musculoskeletal pain. in *Pain 2010 : an Updated Review: Refresher Course Syllabus*. IASP Press, Seattle, pp. 73-83, World Congress on Pain, Montréal, Canada, 29/08/2010.
21. Graven-Nielsen, T & Mense, S 2010, Referral of musculoskeletal pain. in S Mense & RD Gerwin (eds), *Muscle Pain: Understanding the Mechanisms*. Springer, Berlin, pp. 177-205. https://doi.org/10.1007/978-3-540-85021-2_5, <https://doi.org/10.1007/978-3-540-85021-2>
22. Graven-Nielsen, T & Arendt-Nielsen, L 2010, Reorganized motor control due to muscle pain. in S Mense & RD Gerwin (eds), *Muscle Pain: Understanding the Mechanisms*. Springer, Berlin, pp. 251-268. https://doi.org/10.1007/978-3-540-85021-2_7, <https://doi.org/10.1007/978-3-540-85021-2>
23. Arendt-Nielsen, L, Graven-Nielsen, T & Petrini, L 2012, Experimental human models and assessment of pain in non-pain conditions. in MA Giamberardino & TS Jensen (eds), *Pain Comorbidities: Understanding and Treating the Complex Patient*. IASP Press, pp. 57-83.
24. Graven-Nielsen, T, Bliddal, H & Arendt-Nielsen, L 2012, Muscular pain comorbidities in joint diseases. in MA Giamberardino & TS Jensen (eds), *Pain Comorbidities: Understanding and Treating the Complex Patient*. IASP Press, pp. 349-372.
25. Graven-Nielsen, T & Arendt-Nielsen, L 2012, Musculoskeletal pain mechanisms and quantitative assessment. in I Tracey (ed.), *Pain 2012 Refresher Courses: 14th World Congress on Pain*. IASP Press, Seattle, WA, pp. 147-156, World Congress on Pain, Milano, Italy, 27/08/2012.
26. Graven-Nielsen, T 2013, Exogenous muscle pain. in GF Gebhart & RF Schmidt (eds), *Encyclopedia of Pain*. 2 edn, Springer Publishing Company, Berlin, pp. 1230-1233. https://doi.org/10.1007/978-3-642-28753-4_1412
27. Graven-Nielsen, T & Arendt-Nielsen, L 2013, Human surrogate models for musculoskeletal pain. in HO Handwerker & L Arendt-Nielsen (eds), *Pain Models: Translational Relevance and Applications*. IASP Press, pp. 317-333.
28. Graven-Nielsen, T, Ge, H-Y & Arendt-Nielsen, L 2013, Neurophysiological basis of muscle-referred pain to the head. in C Fernández-de-las-Peñas, L Chaitow & J Schoenen (eds), *Multidisciplinary Management of Migraine: Pharmacological, Manual, and Other Therapies*. Jones and Bartlett Publishers, Contemporary Issues in Physical Therapy and Rehabilitation Medicine, pp. 57-66.
29. Graven-Nielsen, T & Arendt-Nielsen, L 2013, Quantitative sensory testing in musculoskeletal pain. in *Refresher Courses, Pain in Europe VIII : 8th Congress of the European Pain Federation EFIC, 9 October 2013, Florence, Italy*. European Pain Federation EFIC, pp. 35-42, Pain in Europe, Congress of the European Federation of IASP Chapters (EFIC), Florence, Italy, 09/10/2013.

30. Graven-Nielsen, T 2013, Referred muscle pain, assessment. in GF Gebhart & RF Schmidt (eds), *Encyclopedia of Pain*. 2 edn, Springer Publishing Company, Berlin, pp. 3372-3376. https://doi.org/10.1007/978-3-642-28753-4_3768
31. Graven-Nielsen, T, Madsen, HB & Arendt-Nielsen, L 2013, The interaction of musculoskeletal pain and physical activity: human studies. in P Ekkekakis (ed.), *Routledge Handbook of Physical Activity and Mental Health*. Routledge, pp. 359-371.
32. Arendt-Nielsen, L & Graven-Nielsen, T 2014, Mechanisms underlying extraterritorial and widespread sensitization: from animal to chronic pain. in T Graven-Nielsen & L Arendt-Nielsen (eds), *Musculoskeletal Pain: Basic Mechanisms and Implications*. IASP Press, pp. 417-435.
33. Graven-Nielsen, T & Arendt-Nielsen, L 2014, Assessment of musculoskeletal pain mechanisms and relevant human experimental models. in T Graven-Nielsen & L Arendt-Nielsen (eds), *Musculoskeletal Pain: Basic Mechanisms and Implications*. IASP Press, pp. 369-391.
34. Graven-Nielsen, T & Arendt-Nielsen, L 2014, Basic mechanisms and assessment of musculoskeletal pain. in SN Raja & CL Sommer (eds), *Pain 2014 Refresher Courses: 15th World Congress on Pain*. IASP Press, pp. 153-161, World Congress on Pain, Buenos Aires, Argentina, 06/10/2014.
35. Arendt-Nielsen, L, Graven-Nielsen, T & Petrini, L 2015, Experimental human models and assessment of pain in non-pain conditions. in MA Giamberardino & TS Jensen (eds), *Pain Comorbidities: Understanding and Treating the Complex Patient*. Wolters Kluwer , pp. 57-83.
36. Arendt-Nielsen, L, Graven-Nielsen, T & Andersen, OK 2015, Mechanistic quantitative sensory testing: from animals to patients. in O Wilder-Smith, L Arendt-Nielsen, D Yarnitsky & KCP Vissers (eds), *Postoperative Pain: Science and Clinical Practice*. Wolters Kluwer , pp. 95-107.
37. Graven-Nielsen, T & Arendt-Nielsen, L 2015, Human surrogate models for musculoskeletal pain. in HO Handwerker & L Arendt-Nielsen (eds), *Pain Models: Translational Relevance and Applications*. Wolters Kluwer , pp. 317-333.
38. Graven-Nielsen, T, Bliddal, H & Arendt-Nielsen, L 2015, Muscular pain comorbidities in joint diseases. in MA Giamberardino & TS Jensen (eds), *Pain Comorbidities: Understanding and Treating the Complex Patient*. Wolters Kluwer , pp. 349-372.
39. Graven-Nielsen, T, Madsen, HB & Arendt-Nielsen, L 2015, The interaction of musculoskeletal pain and physical activity: human studies. in P Ekkekakis (ed.), *Routledge Handbook of Physical Activity and Mental Health*. Routledge, Routledge Handbooks, pp. 359-371.
40. Graven-Nielsen, T & Arendt-Nielsen, L 2015, The nociceptive capacity of muscle, skeletal, and connective tissue. in O Wilder-Smith, L Arendt-Nielsen, D Yarnitsky & KCP Vissers (eds), *Postoperative Pain: Science and Clinical Practice*. Wolters Kluwer , pp. 17-33.
41. Graven-Nielsen, T, Høgh, M & Vægter, HB 2017, Smerte. in IB Bjørnlund, NE Sjöberg & H Lund (eds), *Basisbog i fysioterapi*. 2 edn, Munksgaard , Fysio/Munksgaard, pp. 71-85.
42. Mrachacz-Kersting, N, Yao, N, Gervasio, S, Jiang, N, Palsson, T, Graven-Nielsen, T, Falla, D, Dremstrup, K & Farina, D 2017, A Brain-Computer-Interface to combat musculoskeletal pain. in C Guger, A Brendan & EC Leuthardt (eds), *Brain-Computer-Interface Research – A state of the art summary*. 5 edn, Springer, pp. 123-130. https://doi.org/10.1007/978-3-319-57132-4_10
43. Graven-Nielsen, T, Fernández-de-las-Peñas, C, McPhee, M & Arendt-Nielsen, L 2018, Musculoskeletal referred pain to the craniofacial region. in C Fernández-de-las-Peñas & J Mesa-Jiménez (eds), *Temporomandibular Disorders: Manual Therapy, Exercise and Needling*. Handspring Publishing, pp. 67-78.
44. Graven-Nielsen, T & Arendt-Nielsen, L 2018, The nociceptive capacity of muscle, skeletal, and connective tissue. in DB Carr, L Arendt-Nielsen & KCP Vissers (eds), *Pain after surgery*. Wolters Kluwer , pp. 15-32.
45. Bliddal, H & Graven-Nielsen, T 2019, Smerter i bevægeapparatet 1: Muskelsmerter. in M U. Werner, NB Finnerup & L Arendt-Nielsen (eds), *Smerter: Baggrund, Evidens og Behandling*. 4. edn, FADL's Forlag, pp. 378-390.

Conference papers and abstracts

1. Zamorano AM, Arguissain F, Kleber B, Vuust P, Boudreau S, Flor H, Graven-Nielsen T. 2019. The effects of use-dependent neuroplasticity and chronic pain on somatosensory peripheral and cortical excitability. Abstract from 11th Congress of The European PAIN Federation EFIC, Valencia, Spain.
2. Sørensen LB, Gazerani P, Graven-Nielsen T. 2019. Increased muscle pain evoked by ischemic contractions in a nerve growth factor (NGF)-sensitized muscle. Abstract from 11th Congress of The European PAIN Federation EFIC, Valencia, Spain.
3. Petersen KK, Jensen MB, Graven-Nielsen T, Hauerslev LV, Arendt-Nielsen L, Rathleff MS. 2019. Temporal summation and pain catastrophizing is associated with pain after 12 weeks: A prospective cohort study of patients with low back pain in general practice. Abstract from 11th Congress of The European PAIN Federation EFIC, Valencia, Spain.
4. Palsson T, Christensen SW, Martino ED, Graven-Nielsen T. 2019. Pain and disability in Low Back Pain can be reduced despite no improvements in the pain sensory profile. Abstract from 11th Congress of The European PAIN Federation EFIC, Valencia, Spain.

5. McPhee ME, Graven-Nielsen T. 2019. Enhanced pro-nociceptive mechanisms are present in recurrent low back pain patients, but only during a painful episode, in contrast to anti-nociceptive mechanisms. Abstract from 11th Congress of The European PAIN Federation EFIC, Valencia, Spain.
6. McPhee ME, Graven-Nielsen T. 2019. Local hypoalgesia to pressure and enhanced sequential conditioned pain modulation following fatiguing trunk extensor exercise. Abstract from 2019 Australian Pain Society Conference 39th Annual Scientific Meeting , Gold Coast, Australia.
7. Larsen DB, Graven-Nielsen T, Boudreau S. 2019. A novel approach to counterbalance pain-induced reduction in corticomotor excitability. Abstract from 11th Congress of The European PAIN Federation EFIC, Valencia, Spain.
8. Zandalasini M, De Martino E, Arendt-Nielsen L, Graven-Nielsen T. 2018. Test-retest reliability of motor and sensory evoked potentials as well as pain sensitivity assessment in healthy volunteers. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
9. Zamorano AM, Arguissain F, Boudreau S, Kleber B, Vuust P, Flor H, Graven-Nielsen T. 2018. Modulation of nociceptive-evoked cortical responses during the transition towards persistent muscle pain. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
10. Vaegter H, Redin M, Rasmussen S, Bjerregaard LK, Graven-Nielsen T. 2018. Hypoalgesia after bicycling at lactate threshold is reliable between sessions in pain-free subjects. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
11. Thapa T, Ridding M, Graven-Nielsen T, Schabrun S. 2018. The influence of sustained nociception on homeostatic plasticity in humans. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
12. Sørensen LB, Boudreau S, Gazerani P, Graven-Nielsen T. 2018. Spatially distributed injections of low-dose nerve growth factor (NGF) induce enlarged areas of muscle pain and pronounced muscle hypersensitivity. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
13. Summers S, Schabrun S, Hirata RP, Graven-Nielsen T, Cavaleri R, Chipchase L. 2018. Effect of sustained experimental pain on joint position sense. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
14. Summers S, Chipchase L, Hirata RP, Graven-Nielsen T, Cavaleri R, Schabrun S. 2018. Motor cortex reorganisation is associated with the magnitude of motor variability in the transition to sustained muscle pain. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
15. Poulsen JN, Graven-Nielsen T, Gazerani P. 2018. Bradykinin-2 receptor antagonist, HOE 140, prevents the development of delayed onset muscle soreness in female and male rats. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
16. Nygård Kristensen H, Thomsen HH, Lundbye-Christensen S, Graven-Nielsen T, Sørensen EE. 2018. The pain experience in hospitalized children. The impact of hospital clowns on hospitalized children undergoing painful procedures. Abstract from Sygeplejesymposium, Aalborg, Denmark.
17. McPhee ME, Graven-Nielsen T. 2018. Temporal summation of pain and conditioned pain modulation across an episode of experimental low back pain. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
18. Larsen DB, Graven-Nielsen T, Hirata RP, Schabrun S, Seminowicz D, Boudreau S. 2018. Corticomotor excitability reduction in response to acute experimental muscle pain is not modulated by engagement in a two-back task. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
19. Kurien T, Iwabuchi S, Petersen KK, Reckziegel D, Cottam W, Kerslake R, Edwards K, Graven-Nielsen T, Arendt-Nielsen L. 2018. Chronic postoperative pain after total knee arthroplasty is associated with a functional MRI signature of facilitated temporal summation of pain. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
20. Høgh M, Poulsen JN, Petrini L, Graven-Nielsen T. 2018. The effect of stress on conditioned and unconditioned pain in healthy volunteers. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
21. Holden S, Petersen KK, Graven-Nielsen T. 2018. Conditioning pain modulation reduces the initial part of temporal pain summation in healthy males. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
22. Holden S, Straszek CL, Rathleff MS, Petersen KK, Roos E, Graven-Nielsen T. 2018. Young females with long standing patellofemoral pain display impaired conditioned pain modulation, increased temporal summation of pain, and widespread hyperalgesia. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
23. De Martino E, Zandalasini M, Schabrun S, Petrini L, Graven-Nielsen T. 2018. Exercise-induced muscle soreness in a pre-sensitized muscle: a novel model to provoke central and peripheral neuroplastic effects. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
24. De Martino E, Seminowicz D, Schabrun S, Petrini L, Graven-Nielsen T. 2018. Left DLPFC rTMS counteracts the sensorimotor cortical excitability changes in the transition to sustained muscle pain. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.

25. Christensen SW, Palsson TS, Krebs HJ, Graven-Nielsen T, Hirata RP. 2018. Prolonged slumped sitting posture causes neck pain and increased axioscapular muscle activity in healthy volunteers. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
26. Bement M, Petersen KK, Sørensen LB, Andersen HH, Graven-Nielsen T. 2018. Temporal aspects of conditioned pain modulation and temporal summation of pain during a prolonged noxious stimulus. Abstract from 17th World Congress on Pain, IASP 2018, Boston, MA, United States.
27. Nygård Kristensen H, Haslund-Thomsen HL, Lundbye-Christensen S, Graven-Nielsen T, Sørensen EE. 2018. The pain experience in hospitalized children. The impact of hospital clowns on hospitalized children under-going painful procedures. In *Abstraktbog. Afslutningskonference: 'Patienten i Front - Forskning i Centrum': Et forskningsprogram med fokus på patient- og pårørendeinddragelse 2013-2018*. Aalborg: Aalborg Universitetshospital.
28. Wang X, Lindstrøm R, Graven-Nielsen T. 2017. Cervical Regional Reposition Errors after Cervical Flexion and Extension. Abstract from BIT's 4th Annual World Congress of Orthopaedics 2017 (WCORT-2017), Taiyuan, China.
29. Sørensen LB, Graven-Nielsen T. 2017. NGF-induced muscle soreness and mechanical hyperalgesia: effects of muscle type and NGF-dose. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
30. Poulsen JN, Graven-Nielsen T, Gazerani P. 2017. Deconstructing a model of muscular mechanical hyperalgesia provoked by lengthening contractions in rats. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
31. Palsson TS, Domenech-Garcia V, Boudreau S, Graven-Nielsen T. 2017. Remote pain modulates the area of referred pain in healthy individuals. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
32. McPhee ME, Petersen KK, Høgh M, Graven-Nielsen T. 2017. Repeated measures of temporal summation of pain with cuff algometry. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
33. Liu Q, Palsson TS, Sørensen LB, Boudreau S, Graven-Nielsen T. 2017. Influences of conditioned pain modulation on the pain and pain referral patterns of the shoulder. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
34. Larsen DB, Graven-Nielsen T, Hirata RP, Boudreau SA. 2017. Acute muscle pain does not influence the corticomotor excitability of neighboring hand musculature representations to the same degree. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
35. Larsen LH, Brogner H, Østergaard GV, Sørensen BØ, Graven-Nielsen T. 2017. Increased trunk muscle activity during gait after bilateral experimental pain induction in recurrent low back pain patients during a pain-free period. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
36. Kristensen HN, Thomsen HH, Graven-Nielsen T, Sørensen EE. 2017. The pain experience in hospitalized children: The impact of hospital clowns on hospitalized children undergoing painful procedures. Abstract from 13th International Family Nursing Conference, Pamplona, Spain.
37. Høgh M, Petersen KK, Graven-Nielsen T. 2017. Temporal profile of four consecutive assessments of conditioning pain modulation. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
38. Doménech-Garcia V, Palsson TS, Boudreau S, Herrero P, Graven-Nielsen T. 2017. Delayed onset muscle soreness differentially modulates pressure-induced referred pain in individuals with a recovered shoulder fracture as compared to healthy controls. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
39. De Martino E, Schabrun S, Petrini L, Graven-Nielsen T. 2017. Cortical somatosensory excitability and cortical motor excitability react differently in response to several days of muscle hyperalgesia. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
40. Christensen SW, Palsson TS, Hirata RP, Krebs HJ, Graven-Nielsen T. 2017. Sitting posture and neck pain in healthy volunteers. Abstract from World Confederation for Physical Therapy Congress, WCPT, Cape Town, South Africa.
41. Christensen SW, Hirata RP, Peolsson A, Agger SM, Svindt M, Graven-Nielsen T. 2017. The effect of acute experimental neck pain on cervical kinesthetic sense with and without a distracting cognitive task. Abstract from Pain in Europe X, 10th Congress of the European Pain Federation, EFIC, Copenhagen, Denmark.
42. Suda EY, Hirata RP, Palsson TS, Vuillerme N, Sacco ICN, Graven-Nielsen T. 2017. Experimental knee pain enhances attentional interference on postural control. In *Abstract Book, XXVI Congress of the International Society of Biomechanics, ISB, 23-27 July 2017, Brisbane, Australia*. pp. 938.
43. Qu N, Lindstrøm R, Hirata RP, Graven-Nielsen T. 2017. Experimental neck muscle pain increase pressure pain threshold over cervical facet joints. *Scandinavian Journal of Pain*. 16:182-183. <https://doi.org/10.1016/j.sjpain.2017.04.052>
44. McPhee ME, Petersen KK, Hoegh MS, Graven-Nielsen T. 2017. Paradoxical differences in pain ratings of the same stimulus intensity. *Scandinavian Journal of Pain*. 16:181. <https://doi.org/10.1016/j.sjpain.2017.04.047>

45. Liu QG, Palsson TS, Sørensen LB, Graven-Nielsen T. 2017. The size of pain referral patterns from a tonic painful mechanical stimulus is increased in women. *Scandinavian Journal of Pain*. 16:179. <https://doi.org/10.1016/j.sjpain.2017.04.042>
46. Larsen DB, Graven-Nielsen T, Hirata RP, Boudreau S. 2017. Acute muscle pain alters corticomotor output of the affected muscle stronger than a synergistic, ipsilateral muscle. *Scandinavian Journal of Pain*. 16:177. <https://doi.org/10.1016/j.sjpain.2017.04.038>
47. Larsen RG, Thomsen JM, Hirata RP, Frøkjær JB, Graven-Nielsen T. 2017. Eccentric exercise and microvascular function: Protective role of dietary nitrate and antioxidants?. *Medicine and Science in Sports and Exercise*. 49(5S):1003. <https://doi.org/10.1249/01.mss.0000519750.58619.9a>
48. Høgh M, Petersen KK, Graven-Nielsen T. 2017. Fixed or adapted conditioning intensity for repeated conditioned pain modulation. *Scandinavian Journal of Pain*. 16:176. <https://doi.org/10.1016/j.sjpain.2017.04.034>
49. Hirata RP, Skou ST, Simonsen O, Rasmussen S, Graven-Nielsen T. 2017. Increased postural stiffness in patients with knee osteoarthritis who are highly sensitized. *Scandinavian Journal of Pain*. 16:173-174. <https://doi.org/10.1016/j.sjpain.2017.04.028>
50. De Martino E, Petrini L, Schabrun S, Graven-Nielsen T. 2017. Several days of muscle hyperalgesia facilitates cortical somatosensory excitability. *Scandinavian Journal of Pain*. 16:169. <https://doi.org/10.1016/j.sjpain.2017.04.016>
51. Wang X, Lindstrøm R, Graven-Nielsen T. 2016. Motion segment contributions to cervical flexion and extension motion. Abstract from 17th EFORT Congress, European Federation of National Associations of Orthopaedics and Traumatology, Geneva, Switzerland.
52. Vægter H, Handberg G, Emmeluth C, Graven-Nielsen T. 2016. Hypoalgesia after cold pressor test and aerobic exercise predict pain relief six months after total knee replacement. Abstract from 16th World Congress on Pain, Yokohama, Japan.
53. Vægter HB, Graven-Nielsen T. 2016. Pain modulatory phenotypes differentiate subgroups with different clinical and experimental pain sensitivity. Abstract from 16th World Congress on Pain, Yokohama, Japan.
54. Uchida Y, Petersen KK, Graven-Nielsen T, Arendt-Nielsen L. 2016. A reliability study of computer-controlled cuff pressure algometry to assess central pain mechanisms: a novel water-filled cuff. Abstract from 16th World Congress on Pain, Yokohama, Japan.
55. Shiozawa S, Graven-Nielsen T. 2016. The relationship between pain threshold, muscle strength, and QOL in elderly people. Abstract from 16th World Congress on Pain, Yokohama, Japan.
56. Schabrun S, Palsson TS, Graven-Nielsen T. 2016. Attenuated corticomotor output due to experimental muscle pain does not return to normal following a motor learning task. Abstract from 16th World Congress on Pain, Yokohama, Japan.
57. Palsson TS, Krebs HJ, Boudreau S, Graven-Nielsen T. 2016. Location of previous traumatic pain shift location of experimentally-induced referred pain. Abstract from 16th World Congress on Pain, Yokohama, Japan.
58. Manafi-Khanian B, Arendt-Nielsen L, Graven-Nielsen T. 2016. Influences of liquid medium on interface pressure distribution in cuff stimulation methodology. Abstract from 16th World Congress on Pain, Yokohama, Japan.
59. Larsen P, Elsøe R, Læssøe U, Graven-Nielsen T, Eriksen CB, Rasmussen S. 2016. Decreased muscle strength is persistent and associated with worse quality of life one year after intramedullary nailing of a tibial shaft fracture. Abstract from 17th EFORT Congress, European Federation of National Associations of Orthopaedics and Traumatology, Geneva, Switzerland.
60. Larsen LH, Hirata RP, Graven-Nielsen T. 2016. Effects of unilateral and bilateral experimental low-back pain on trunk muscle activity during stair walking in healthy and recurrent low-back pain patients. Abstract from 16th World Congress on Pain, Yokohama, Japan.
61. Jure FA, Arguissain F, Manresa JB, Graven-Nielsen T, Andersen OK. 2016. Stimulus predictability modulates the withdrawal strategy to nociceptive stimulation in humans. Abstract from 16th World Congress on Pain, Yokohama, Japan.
62. Høgh M, Andersen HH, Graven-Nielsen T. 2016. Tonic pressure as a novel model for conditioned pain modulation. Abstract from 16th World Congress on Pain, Yokohama, Japan.
63. Holden S, Rathleff MS, Roos E, Jensen MB, Pourbordbari N, Graven-Nielsen T. 2016. Pain during adolescence can be grouped into four pain clusters with distinct profiles: results from a population based cohort of 2953 adolescents. Abstract from 16th World Congress on Pain, Yokohama, Japan.
64. Graven-Nielsen T. 2016. Assessment of musculoskeletal pain mechanisms in clinical and experimental settings: refresher course. Abstract from 16th World Congress on Pain, Yokohama, Japan.
65. Graven-Nielsen T. 2016. Novel models for studying the effect of exercise and fatigue on the pain sensitivity in humans: part of topical workshop. Abstract from 16th World Congress on Pain, Yokohama, Japan.
66. Christensen SW, Hirata RP, Graven-Nielsen T. 2016. Acute bilateral experimental neck pain reorganises axioscapular and trunk muscle activity during slow arm movements. Abstract from IFOMPT Conference, International Federation of Orthopaedic Manipulative Physical Therapists, Glasgow, United Kingdom.

67. Christensen SW, Hirata RP, Graven-Nielsen T. 2016. Ongoing neck pain causes alterations in axioscapular muscle activity when compared to healthy controls. Abstract from 16th World Congress on Pain, Yokohama, Japan.
68. Kristensen HN, Thomsen HH, Graven-Nielsen T, Sørensen EE. 2016. Hospitalized children's pain experience: Effect and impact of intervention with the hospital clown. Poster presented at Sygeplejesymposium, Aalborg, Denmark.
69. Kristensen HN, Thomsen HH, Graven-Nielsen T, Sørensen EE. 2016. The pain experience in hospitalized children: The impact of hospital clowns on hospitalized children undergoing painful procedures. Poster presented at Nordic Conference in Nursing Research, Stockholm, Sweden.
70. Palsson TS, Krebs HJ, Boudreau S, Graven-Nielsen T. 2016. Injury to the musculoskeletal system causes a shift in location of experimentally- induced referred pain. In Abstrakts og program, Forsknings- og Udviklingssymposium for Fysioterapeuter, Region Nordjylland, 8. november 2016, Aalborg, Danmark. Fysio- og Ergoterapi, Aalborg Universitetshospital. pp. 10.
71. Kristensen HN, Sørensen EE, Graven-Nielsen T, Thomsen HH. 2016. Hospitalized children's pain experience: Effect and impact of intervention with the hospital clown in acute and repeated painful procedures in hospitalized children. A mixed methods study. In Programme - Abstracts, Second Nordic Conference in Nursing Research, 15-17 June 2016, Stockholm, Sweden. Svensk Sjuksköterske Förening. pp. 49.
72. Kristensen HN, Sørensen EE, Graven-Nielsen T, Thomsen HH. 2016. Hospitalized children's pain experience: Effect and impact of intervention with the hospital clown in acute and repeated painful procedures in hospitalized children: A mixed methods study. In Programme - Abstracts, Second Nordic Conference in Nursing Research, 15-17 June 2016, Stockholm, Sweden. Svensk Sjuksköterske Förening. pp. 49-50.
73. Holden S, Rathleff MS, Roos E, Jensen MB, Pourbordbari N, Graven-Nielsen T. 2016. Pain during adolescence can be grouped into four pain clusters with distinct profiles: results from a population based cohort of 2953 adolescents. In Abstrakts og program, Forsknings- og Udviklingssymposium for Fysioterapeuter, Region Nordjylland, 8. november 2016, Aalborg, Danmark: "træning som behandling - hvorfor, hvordan og hvor lidt er nok?". Fysio- og Ergoterapi, Aalborg Universitetshospital. pp. 9.
74. Graven-Nielsen T, Arendt-Nielsen L. 2016. Assessment of musculoskeletal pain mechanisms in clinical and experimental settings. Sommer CL, Wallace MS, Cohen SP, Kress M, editors. In Pain 2016 Refresher Courses: 16th World Congress on Pain. Washington: IASP Press. pp. 177-184.
75. Kurien T, Reckziegel D, Cottam WJ, Petersen KK, Pearson RG, Arendt-Nielsen L, Graven-Nielsen T, Auer DP, Scammell BE. 2016. Neural correlates of temporal summation in knee osteoarthritis pain: a preliminary fMRI study at 3T. *Osteoarthritis and Cartilage*. 24(Suppl. 1):S455. <https://doi.org/10.1016/j.joca.2016.01.830>
76. Christensen SW, Hirata RP, Graven-Nielsen T. 2016. Acute bilateral experimental neck pain: Reorganise axioscapular and trunk muscle activity during slow resisted arm movements. *Scandinavian Journal of Pain*. 12:125-126. <https://doi.org/10.1016/j.sjpain.2016.05.027>
77. Palsson TS, Graven-Nielsen T. 2015. The long posterior sacroiliac ligament in lumbopelvic pain: comparison of clinical and experimental findings. Abstract from Forsknings- og udviklingssymposium i Nordjylland, Aalborg, Denmark.
78. Larsen P, Elsøe R, Læssøe U, Graven-Nielsen T, Eriksen CB, Rasmussen S. 2015. Decreased muscle strength is persistent and associated with worse Quality of Life one year after intramedullary nailing of a tibial shaft fracture. Abstract from Forsknings- og udviklingssymposium i Nordjylland, Aalborg, Denmark.
79. Larsen LH, Hirata RP, Graven-Nielsen T. 2015. Muskelømhed og unilateral og bilateral eksperimentel rygsmerter betydning for motorisk kontrol. Abstract from Forsknings- og udviklingssymposium i Nordjylland, Aalborg, Denmark.
80. Christensen SW, Hirata RP, Graven-Nielsen T. 2015. Fysisk aktivitets indvirkning på tryksmerter sensitivitet og smerteudbredelse hos personer med nakkesmerter sammenlignet med raske deltagere. Abstract from Forsknings- og udviklingssymposium i Nordjylland, Aalborg, Denmark.
81. Vægter HB, Handberg G, Emmeluth C, Graven-Nielsen T. 2015. Exercise-induced hypoalgesia and conditioned pain modulation are reduced in patients with knee osteoarthritis compared with patients with widespread pain and healthy controls. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO07 No. 077; EFIC5-0122.
82. Vægter HB, Handberg G, Graven-Nielsen T. 2015. The effect of aerobic and isometric exercises on pain sensitivity in healthy subjects and in patients with chronic musculoskeletal pain. In Abstracts Fagkongres 2015: Danske Fysioterapeuter, 5-7 March 2015, Odense, Denmark. Danske Fysioterapeuter. pp. 89.
83. Uchida Y, Petersen KK, Graven-Nielsen T, Arendt-Nielsen L. 2015. Within and between daily session reliability of computer-controlled pressure cuff algometry. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO28 No. 363; EFIC5-0373.
84. Schliessbach J, Siegenthaler A, Treichel F, Graven-Nielsen T, Arendt-Nielsen L, Curatolo M. 2015. Sensitivity and specificity of diagnostic suprascapular nerve block assessed by a model of experimental muscle pain. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO23 No. 277; EFIC5-0066.

85. Rathleff MS, Petersen KK, Arendt-Nielsen L, Thorborg K, Graven-Nielsen T. 2015. Hyperalgesia, temporal pain summation, and conditioned pain modulation in young female adults with and without patellofemoral pain: an assessor-blinded study. In Sports Medicine Congress, 22-24 January 2015, Copenhagen, Denmark. Danish Association of Sports Medicine and Danish Association of Sports Physiotherapy. pp. 32.
86. Petersen KK, Graven-Nielsen T, Laursen MB, Simonsen O, Arendt-Nielsen L. 2015. Osteoarthritis patients with increased temporal summation of pain and impaired conditioning pain modulation before surgery have more chronic pain after total knee replacement surgery. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO09 No. 103; EFIC5-0407.
87. Palsson TS, Graven-Nielsen T. 2015. The long posterior sacroiliac ligament in lumbopelvic pain: comparison of clinical and experimental findings. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO08 No. 086; EFIC5-0641.
88. Mense S, Graven-Nielsen T, Giamberardino MA. 2015. Spread of musculoskeletal pain: common but misunderstood. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. T2.4 No. 2.4a; EFIC5-1092.
89. Larsen P, Elsøe R, Graven-Nielsen T, Læssøe U, Rasmussen S. 2015. Decreased muscle strength is associated with impaired long-term functional outcome after intramedullary nailing of femoral shaft fracture. In Abstracts Fagkongres 2015: Danske Fysioterapeuter, 5-7 March 2015, Odense, Denmark. Danske Fysioterapeuter. pp. 100-101.
90. Krebs HJ, Palsson TS, Graven-Nielsen T. 2015. The role of pain memory in lumbopelvic pain: a pilot study. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO06 No. 065; EFIC5-0853.
91. Hirata RP, Christensen S, Agger SM, Svindt M, Røssner N, Abildgaard J, Vuillerme N, Graven-Nielsen T. 2015. Distraction from pain improves postural stability during experimental pain. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO52 No. 146; EFIC5-0585.
92. Graven-Nielsen T, Kosek E, Hasenbring M, Fehrmann E. 2015. Approach to activity engagement in musculoskeletal pain: translation from research to clinical application. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. T5.5 No 5.5a; EFIC5-1109.
93. Ebbesen BD, Rasmussen J, Gervasio S, Graven-Nielsen T, Mrachacz-Kersting N. 2015. Chronic musculoskeletal pain and its effects on brain activation. In 45th Annual Meeting of the Society for Neuroscience, Neuroscience 2015, 17-21 October 2015, Chicago, IL, USA. Society for Neuroscience. pp. No. 807.27/W1.
94. Drew M, Palsson TS, Hirata RP, Izumi M, Lovell G, Chiarelli P, Osmotherly PG, Graven-Nielsen T. 2015. The influence of experimental thigh and groin pain on the mechanical sensitivity, pain distribution and clinical tests of the adductor longus. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. PO08 No. 080; EFIC5-0765.
95. Descheemaeker F, Meeus M, Danneels L, Devulder J, Prins B, Rimbaut S, Graven-Nielsen T, Van Damme S. 2015. The effect of a short mindfulness intervention on exercise induced hyperalgesia in fibromyalgia patients: a randomized controlled trial. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. No. 282.
96. Christensen SW, Hirata RP, Graven-Nielsen T. 2015. Bilateral experimental neck pain reorganizes axioscapular and trunk muscle activity during fast arm movements. In Abstracts Fagkongres 2015: Danske Fysioterapeuter, 5-7 March 2015, Odense, Denmark. Danske Fysioterapeuter. pp. 97-98.
97. Christensen SW, Hirata RP, Graven-Nielsen T. 2015. The effects of repeated arm movements on pressure pain sensitivity in neck pain patients and healthy controls. In Abstract book of the 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. No. 126.
98. Graven-Nielsen T, Arendt-Nielsen L. 2015. Assessment of musculoskeletal pain mechanisms and the importance for management. In Refresher Courses, 9th Congress of the European Pain Federation, EFIC, 2-5 September 2015, Vienna, Austria. European Pain Federation EFIC. pp. 67-73.
99. Palsson T, Slater H, Beales D, O'Sullivan P, Graven-Nielsen T. 2014. Increased pain sensitivity occurs naturally during pregnancy and may be related with several physical and psychosocial factors. Abstract from Forsknings- og udviklingssymposium i Region Nordjylland 2014: Innovativ træning og rehabilitering, Aalborg, Denmark.
100. Larsen P, Elsøe R, Graven-Nielsen T, Læssøe U, Rasmussen S. 2014. Decreased muscle strength is associated with impaired longterm functional outcome after intramedullary nailing of femoral shaft fracture. Abstract from Forsknings og udviklingssymposium i Region Nordjylland 2014, Aalborg, Denmark.
101. Christensen SW, Hirata RP, Graven-Nielsen T. 2014. Akutte eksperimentelle nakkesmerter påvirker motorisk kontrol af axioscapulære & trunkus muskler. Abstract from Forsknings- og udviklingssymposium i Region Nordjylland 2014: Innovativ træning og rehabilitering, Aalborg, Denmark.
102. Luo Y, Wang K, Asaki T, Graven-Nielsen T, Cairns BE, Arendt-Nielsen L. 2014. Acid-induced experimental muscle pain and hyperalgesia with single and repeated infusion in human forearm. Poster presented at World Congress on Pain, Buenos Aires, Argentina.

103. Vaegter HB, Handberg G, Graven-Nielsen T. 2014. Hypoalgesia induced by exercise and cold pressor pain in patients with chronic pain. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PF059.
104. Schabrun SM, Christensen SW, Mrachacz-Kersting N, Graven-Nielsen T. 2014. Motor cortex adaptation in the transition from acute to maintained muscle pain. In Annual Meeting of the Society for Neuroscience, Neuroscience 2014, 15-19 November 2014, Washington, DC, USA. pp. Poster No. 338.04/HH2.
105. Schabrun SM, Christensen SW, Mrachacz-Kersting N, Graven-Nielsen T. 2014. Motor cortex reorganisation after several days with muscle hyperalgesia and movement evoked pain in humans. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PW078.
106. Petersen KK, Siebuhr A, Graven-Nielsen T, Simonsen O, Arendt-Nielsen L. 2014. Knee osteoarthritis patients with different degrees of synovitis have different sensitization and serological biomarkers paradigms. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PT281.
107. Mølgaard C, Graven-Nielsen T, Simonsen O, Kersting UG. 2014. Potential interaction of experimental knee pain and laterally wedged insoles for knee offloading during walking. In Sports Medicine Congress, 30 January-1 February 2014, Kolding, Denmark: Treatment and Prevention of Sports Injuries. Danish Association of Sports Medicine and Danish Association of Sports Physiotherapy. pp. 24-25.
108. Mista CA, Bergin M, Christensen SW, Hirata RP, Tucker KJ, Hodges PW, Graven-Nielsen T. 2014. Effects of prolonged muscle soreness and pain on force variability during isometric force task. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PH121.
109. Lemming D, Börsbo B, Sjörs A, Lind E, Arendt-Nielsen L, Graven-Nielsen T, Gerdle B. 2014. Sensitivity to cuff algometry in 98 healthy non-athletic people: associations with sex and physical activity level?. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PS133.
110. Izumi M, Petersen KK, Laursen MB, Arendt-Nielsen L, Graven-Nielsen T. 2014. Widespread sensitization in patients with painful hip osteoarthritis. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PF367.
111. Hirata RP, Salomoni SE, Christensen SW, Graven-Nielsen T. 2014. Altered control strategies during isometric trunk extension following experimental low back pain. In Book of Proceedings, ISEK 2014, XX Congress of the International Society of Electrophysiology and Kinesiology, 15-18 July 2014, Rome, Italy. ISEK.
112. Graven-Nielsen T. 2014. Improving the outcome of patients with musculoskeletal and postsurgical pains: understanding pain mechanisms and controlling co-morbidities. In Annual Meeting of the Society for Neuroscience, Neuroscience 2014, 15-19 November 2014, Washington, DC, USA. pp. Presentation No. 766.07.
113. Finocchietti S, Arendt-Nielsen L, Petersen KK, Simonsen O, Graven-Nielsen T. 2014. Cuff algometry to assess sensitization in elderly patients with severe knee osteoarthritis compared with controls. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PT232 .
114. Domenech V, Skuli T, Herrero P, Graven-Nielsen T. 2014. Referred shoulder pain is facilitated by muscle soreness. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PF369.
115. Christensen SW, Hirata RP, Graven-Nielsen T. 2014. Axioscapular muscle activity during experimental neck pain and rapid arm movements is not affected. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PH080.
116. Bergin MJ, Hirata RP, Mista CA, Christensen SW, Tucker K, Vicenzino B, Hodges PW, Graven-Nielsen T. 2014. Sustained mechanical hyperalgesia and pain during movement after intramuscular injection of nerve growth factor into a forearm muscle. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PW151.
117. Adnadjevic D, Graven-Nielsen T. 2014. Fast pressure stimulation sequences and rotation used to evoke temporal summation of muscle pain. In 15th World Congress on Pain, 6-11 October 2014, Buenos Aires, Argentina. IASP Press. pp. No. PT227.
118. Larsen RG, Simonsen CW, Hirata RP, Frøkjær JB, Graven-Nielsen T. 2014. Effects of eccentric exercise on microvascular function in human skeletal muscle. *Acta Physiologica*. 211(Suppl. 696):37, No. 6:5.
119. Skou ST, Graven-Nielsen T, Rasmussen S, Simonsen O, Laursen MB, Arendt-Nielsen L. 2013. Sensitization in patients with pain after revision total knee arthroplasty. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 179.
120. Palsson T, Slater H, Beales D, O'Sullivan P, Graven-Nielsen T. 2013. Musculoskeletal pain and hyperalgesia in pregnancy facilitates the outcome of clinical diagnostic tests for lumbopelvic pain. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 153.
121. O'Neill S, Manniche C, Graven-Nielsen T, Arendt-Nielsen L. 2013. Association between a composite score of pain sensitivity and clinical parameters in low-back pain. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 183.

122. Mista CA, Graven-Nielsen T. 2013. Effects of experimental muscle pain on force variability during task-related and three directional isometric force task. In Abstracts, Poster Session I, Progress in Motor Control IX, 13-16 July 2013, Montréal, Canada. The International Society of Motor Control. pp. 66, No. 132.
123. Madsen HB, Handberg G, Jørgensen M, Kinly A, Graven-Nielsen T. 2013. Exercise-induced hypoalgesia and conditioned pain modulation is not correlated with status of physical activity. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 127.
124. Madsen HB, Handberg G, Jørgensen M, Kinly A, Graven-Nielsen T. 2013. Status of physical activity is not related to level of exercise-induced hypoalgesia and conditioned pain modulation. In Sports Medicine Congress, 31 January-2 February 2013, Kolding, Denmark: From Research to Clinical Practice. Danish Association of Sports Medicine and Danish Association of Sports Physiotherapy. pp. 25-26, No. 22.
125. Lo Vecchio S, Petersen LJ, Finocchietti S, Gazerani P, Arendt-Nielsen L, Graven-Nielsen T. 2013. Interaction between experimental cutaneous and muscle hyperalgesia: an experimental study in healthy volunteers. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 829.
126. Larsen LH, Hirata RP, Graven-Nielsen T. 2013. Complex muscular adaptation to perturbations after induction of experimental low back pain in healthy participants. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 827.
127. Jørgensen TS, Henriksen M, Rosager S, Klokke L, Ellegaard K, Danneskiold-Samsøe B, Bliddal H, Graven-Nielsen T. 2013. Experimental knee pain rekindles spreading hyperalgesia and facilitated temporal summation of pain in patients with knee OA. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 146.
128. Izumi M, Petersen KK, Arendt-Nielsen L, Graven-Nielsen T. 2013. Different patterns of pain referral and regional deep tissue hyperalgesia in experimental human hip pain models. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 145.
129. Hirata RP, Jørgensen TS, Mortensen SR, Arendt-Nielsen L, Bliddal H, Henriksen M, Graven-Nielsen T. 2013. Pain intensity is correlated with postural strategies in patients with severe knee osteoarthritis under different sensory conditions. In Abstracts, ISPGR World Congress, 22-26 June 2013, Akita, Japan. International Society for Posture & Gait Research, ISPGR. pp. No. P4-E-118.
130. Graven-Nielsen T, Skou ST, Rasmussen S, Simonsen O, Laursen MB, Arendt-Nielsen L. 2013. Sensitization is more prominent in patients with pain after revision total knee arthroplasty than in painful knee osteoarthritis. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 167.
131. Graven-Nielsen T, Schmelz M, Mense S. 2013. Translational studies on nerve growth factor, sensitisation and pain. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 19.
132. Ge H-Y, Graven-Nielsen T, Arendt-Nielsen L. 2013. Trigger point dry needling in fibromyalgia: a partly blinded, randomized and controlled clinical trial. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 217.
133. Finocchietti S, Graven-Nielsen T, Arendt-Nielsen L. 2013. A novel experimental model of bone hyperalgesia after mechanical impact periosteal stimulation. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 822.
134. Christensen SW, Hirata RP, Graven-Nielsen T. 2013. Experimental neck muscle pain reorganises the axio-shoulder muscle activity during arm movements. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 139.
135. Asaki T, Wang K, Luo Y, Nielsen TA, Graven-Nielsen T, Arendt-Nielsen L. 2013. Acid-induced experimental knee pain and hyperalgesia in humans. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 819.
136. Adnadjevic D, Graven-Nielsen T. 2013. Reliable vibration stimulation combined with pressure algometry. In Abstract Book of the 8th Congress of the European Federation of IASP Chapters (EFIC), 9-12 October 2013, Florence, Italy. European Pain Federation EFIC. pp. No. 1090.
137. Adnadjevic D, Lorrain T, Graven-Nielsen T. 2013. Safety system for moving coil pressure algometer. In 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBS, 3-7 July 2013, Osaka, Japan. IEEE Press. pp. 5356-5359. (IEEE Engineering in Medicine and Biology Society. Conference Proceedings). <https://doi.org/10.1109/EMBC.2013.6610759>
138. Joergensen T, Graven-Nielsen T, Rosager S, Klokke L, Ellegaard K, Danneskiold-Samsøe B, Bliddal H, Henriksen M. 2013. Acute and short-term effects of intra-articular knee pain relief on pain sensitization in knee OA: a cohort study. *Osteoarthritis and Cartilage*. 21(Suppl.):S268, No. 520. <https://doi.org/10.1016/j.joca.2013.02.560>

139. Henriksen M, Klokke L, Graven-Nielsen T, Bartholdy C, Joergensen TS, Bandak E, Danneskiold-Samsøe B, Christensen R, Bliddal H. 2013. Exercise therapy reduces pain sensitivity in patients with knee osteoarthritis: a randomized controlled trial. *Arthritis & Rheumatism*. 65(10, Suppl.):S775, No. 1816. <https://doi.org/10.1002/art.38216>
140. Dannecker E, Koltyn K, Velazquez C, Arendt-Nielsen L, Graven-Nielsen T. 2013. Blinding data collectors in investigations of experimental pain: let's get real. *Journal of Pain*. 14(4, Suppl.):S37.
141. Skou ST, Graven-Nielsen T, Lingsø L, Simonsen O, Laursen MB, Arendt-Nielsen L. 2012. Predicting clinical pain in knee osteoarthritis using a multimodal pressure pain assessment procedure. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PT 060.
142. Shiozawa S, Oida Y, Morozumi K, Nakamura N, Sato S, Kitabatake Y, Yoshida K, Graven-Nielsen T. 2012. The cause-effect relations between physical function, physical ability, and quality of life in elderly people with knee pain after short-term non-invasive intervention. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PF 116.
143. Salomoni SE, Ejaz A, Laursen A, Graven-Nielsen T. 2012. Experimental knee pain impair the steadiness of the motor output in all three-dimensional force components. In Proceedings of the XIXth Congress of the International Society of Electrophysiology & Kinesiology, ISEK2012, 19-21 July 2012, Brisbane, Australia. ISEK. pp. 422, No. PAIN_P1.1.
144. Palsson T, Graven-Nielsen T. 2012. Extra articular pain of the sacroiliac joint complex causes widespread hyperalgesia and changes the outcome of sacroiliac joint provocation tests. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PT 050.
145. Mista CA, Salomoni SE, Graven-Nielsen T. 2012. Effects of visual feedback size on multidirectional force variability during isometric contractions. In Proceedings of the XIXth Congress of the International Society of Electrophysiology & Kinesiology, ISEK2012, 19-21 July 2012, Brisbane, Australia. ISEK. pp. 50, No. BIOM_O4.3.
146. Madsen HB, Handberg G, Graven-Nielsen T. 2012. Different manifestations of exercise-induced hypoalgesia and conditioned pain modulation in humans. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PW 182.
147. Madsen HB, Handberg G, Graven-Nielsen T. 2012. Exercise and conditioned pain modulation have different effects on cuff pressure pain tolerance in humans. In Programme and Abstract Book, the 2012 Joint Annual Meeting of the Scandinavian Association for the Study of Pain (SASP) and the Danish Pain Society (DSF), 19-21 April 2012, Aarhus, Denmark. SASP. pp. 40, No. T15.
148. Lo Vecchio S, da Silva LB, Gazerani P, Graven-Nielsen T, Petersen L, Arendt-Nielsen L. 2012. Heat rekindling of UV-B-irradiated skin: a human experimental model of peripheral and central sensitisation. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PT 298.
149. Lo Vecchio S, Petersen LJ, Graven-Nielsen T, Finocchietti S, Gazerani P, Arendt-Nielsen L. 2012. Hyperalgesia in human skin and deep-tissues inside and outside of a UVB irradiated area. In Programme and Abstract Book, the 2012 Joint Annual Meeting of the Scandinavian Association for the Study of Pain (SASP) and the Danish Pain Society (DSF), 19-21 April 2012, Aarhus, Denmark. SASP. pp. 40-41, No. T16.
150. Larsen P, Lund H, Graven-Nielsen T, Læssøe U, Rasmussen S. 2012. Forreste knæsmærter og begrænsninger i aktivitet og deltagelse efter marvsømning af tibia fraktur. In Abstracts Fagfestival 2012, Danske Fysioterapeuter, 22-24 March 2012, Odense, Denmark. Danske Fysioterapeuter. pp. 67-68.
151. Larsen LH, Hirata RP, Falla D, Graven-Nielsen T. 2012. Motor control of the back during frontal plane perturbations with and without pain. In Proceedings of the XIXth Congress of the International Society of Electrophysiology & Kinesiology, ISEK2012, 19-21 July 2012, Brisbane, Australia. ISEK. pp. 267, No. SPIN_O3.2.
152. Larsen LH, Graven-Nielsen T, Falla D. 2012. Raske forsøgsdeltageres motoriske kontrol af lænderyggen med træningsømheden og eksperimentel rygsmerter. In Abstracts Fagfestival 2012, Danske Fysioterapeuter, 22-24 March 2012, Odense, Denmark. Danske Fysioterapeuter. pp. 83.
153. Larsen LH, Hirata RP, Falla D, Graven-Nielsen T. 2012. Reorganized motor control pattern in experimental low back muscle pain. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PT 039.
154. Jørgensen TS, Henriksen M, Danneskiold-Samsøe B, Bliddal H, Graven-Nielsen T. 2012. Spreading hyperalgesia and facilitated temporal summation of pain evoked by experimental knee pain. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PW 242.
155. Jespersen A, Jørgensen TS, Christensen R, Gudberg H, Graven-Nielsen T, Bliddal H, Henriksen M. 2012. The association between pressure-pain tolerance threshold and local and/or systemic inflammation in obese knee osteoarthritis patients: a cross-sectional study. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PW 211.

156. Hayashi K, Shiozawa S, Ozaki N, Mizumura K, Graven-Nielsen T. 2012. Repeated intramuscular injections of nerve growth factor induced muscle hyperalgesia, facilitated temporal summation, and expanded referred pain. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PW 238.
157. Graven-Nielsen T. 2012. Effects of musculoskeletal pain on postural control and force variability. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. TW 24.
158. Graven-Nielsen T, Hirata RP, Jørgensen TS, Rosager S, Arendt-Nielsen L, Bliddal H, Henriksen M. 2012. Impaired postural control in knee osteoarthritis patients: effects of visual and feet proprioceptive input and disease severity. In Proceedings of the XIXth Congress of the International Society of Electrophysiology & Kinesiology, ISEK2012, 19-21 July 2012, Brisbane, Australia. ISEK. pp. 46, No. BIOM_O3.3.
159. Graven-Nielsen T. 2012. Musculoskeletal pain mechanisms and quantitative assessment. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press.
160. Graven-Nielsen T, Finocchietti S, Arendt-Nielsen L. 2012. Temporal summation of pain evoked by pressure stimulation in muscle: a finite element study of tissue stress/strain distribution. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PW 233.
161. Finocchietti S, Takahashi K, Okada K, Watanabe Y, Graven-Nielsen T, Mizumura K. 2012. Tissue deformation and pressure propagation in human tissue during mechanical painful stimulation: comparison of tibialis anterior and gastrocnemius medialis. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PT 026.
162. Eskehave TN, Arendt-Nielsen L, Egsgaard LL, Graven-Nielsen T, Hoeck HC, Bay-Jensen A-C, Karsdal MA. 2012. Association between pain, biochemical markers of inflammation and cartilage degradation in patients with osteoarthritis. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PW 067.
163. Degenhardt BF, Snider EJ, Snider KT, Pamperin K, Yang Q, Johnson JC, Graven-Nielsen T. 2012. Comparing pressure pain thresholds determined by algometry and manual palpation. In Abstracts of the 14th World Congress on Pain, International Association for the Study of Pain, IASP, 27-31 August 2012, Milan, Italy. IASP Press. pp. No. PT 023.
164. Adnadjevic D, Graven-Nielsen T. 2012. Moving coil pressure algometer produces consistent force gradient and repeated stimulation. In 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBS, EMBC, 28 August-1 September 2012, San Diego, CA, USA. IEEE Press. pp. 6591-6594. (IEEE Engineering in Medicine and Biology Society. Conference Proceedings).
<https://doi.org/10.1109/EMBC.2012.6347505>
165. Madsen HB, Handberg G, Graven-Nielsen T. 2012. Exercise and conditioned pain modulation have different effects on cuff pressure pain tolerance in humans. *Scandinavian Journal of Pain*. 3(3):190, No. T15.
<https://doi.org/10.1016/j.sjpain.2012.05.045>
166. Lo Vecchio S, Petersen LJ, Graven-Nielsen T, Finocchietti S, Gazerani P, Arendt-Nielsen L. 2012. Hyperalgesia in human skin and deep-tissues inside and outside of a UVB irradiated area. *Scandinavian Journal of Pain*. 3(3):190, No. T16. <https://doi.org/10.1016/j.sjpain.2012.05.046>
167. Jørgensen TS, Henriksen M, Christensen R, Graven-Nielsen T, Bliddal H, Jespersen A. 2012. Baseline pressure-pain tolerance threshold predicts the clinical outcome of a weight loss intervention in obese knee OA patients: a prospective cohort study. *Osteoarthritis and Cartilage*. 20(Suppl. 1):S254-S255, No. 503.
<https://doi.org/10.1016/j.joca.2012.02.425>
168. Jørgensen TS, Jespersen A, Christensen R, Gudbergson H, Graven-Nielsen T, Bliddal H, Henriksen M. 2012. The association between pressure-pain tolerance threshold and local and/or systemic inflammation in obese knee osteoarthritis patients: a cross-sectional study. *Osteoarthritis and Cartilage*. 20(Suppl. 1):S258-S258, No. 510.
<https://doi.org/10.1016/j.joca.2012.02.432>
169. Shiozawa S, Hirata RP, Graven-Nielsen T. 2011. Experimental knee-muscle pain inhibits the lower extremity muscle activation during anticipatory postural adjustments related to ankle movements. In Annual Meeting of the Society for Neuroscience, Neuroscience 2011, 12-16 November 2011, Washington, DC, USA. Washington, DC: Society for Neuroscience. pp. No. 923.22/VV36.
170. Salomoni SE, Graven-Nielsen T. 2011. Experimental muscle pain increases multidirectional force fluctuations during isometric contractions. In Annual Meeting of the Society for Neuroscience, Neuroscience 2011, 12-16 November 2011, Washington, DC, USA. Washington, DC: Society for Neuroscience. pp. No. 703.07/SS6.
171. Palsson T, Graven-Nielsen T. 2011. Experimental extra articular pain of the sacroiliac joint complex facilitates outcome of sacroiliac joint provocation tests. In Fysioterapi & rehabilitering: en abstraktsamling fra det årlige forsknings- og udviklingssymposium i Nordjylland for fysioterapeuter 2011, 22. november 2011, Aalborg, Danmark. Aalborg: University College Nordjylland, UCN. pp. 21.

172. Larsen P, Lund H, Graven-Nielsen T, Læssøe U, Rasmussen S. 2011. Forreste knæsmærter og begrænsninger i aktivitet og deltagelse efter marvsømning af tibia fraktur. In *Fysioterapi & rehabilitering: en abstraktsamling fra det årlige forsknings- og udviklingssymposium i Nordjylland for fysioterapeuter 2011*, 22. november 2011, Aalborg, Danmark. Aalborg: University College Nordjylland, UCN. pp. 57-58.
173. Larsen LH, Falla DL, Graven-Nielsen T. 2011. Motorisk kontrol af lænderyggen hos raske: undersøgelse af overflade-EMG og kinematik ved standardiserede motoriske opgaver på bevægelig platform med træningsømhed og eksperimentel rygsmerter. In *Fysioterapi & rehabilitering: en abstraktsamling fra det årlige forsknings- og udviklingssymposium i Nordjylland for fysioterapeuter 2011*, 22. november 2011, Aalborg, Danmark. Aalborg: University College Nordjylland, UCN. pp. 32-33.
174. Hirata RP, Arendt-Nielsen L, Shiozawa S, Graven-Nielsen T. 2011. Experimental knee-related pain impairs postural stability during quiet stance. In *Annual Meeting of the Society for Neuroscience, Neuroscience 2011*, 12-16 November 2011, Washington, DC, USA. Washington, DC: Society for Neuroscience. pp. No. 580.01/FF22.
175. Shiozawa S, Oida Y, Morozumi K, Nakamura N, Sato S, Kitabatake Y, Yoshida K, Graven-Nielsen T. 2011. Short-term training effects on the relation between function, ability, and quality of life in elderly people with knee pain. *European Journal of Pain Supplements*. 5(1):76, No. T508. [https://doi.org/10.1016/S1754-3207\(11\)70256-5](https://doi.org/10.1016/S1754-3207(11)70256-5)
176. Palsson T, Graven-Nielsen T. 2011. Experimental extra articular pain of the sacroiliac joint complex facilitates outcome of sacroiliac joint provocation tests. *European Journal of Pain Supplements*. 5(1):126, No. F204. [https://doi.org/10.1016/S1754-3207\(11\)70429-1](https://doi.org/10.1016/S1754-3207(11)70429-1)
177. Lo Vecchio S, Graven-Nielsen T, Finocchietti S, Gazerani P, Arendt-Nielsen L. 2011. Hyperalgesia to superficial and deep mechanical stimulation within and outside a UVB irradiated area. *European Journal of Pain Supplements*. 5(1):20, No. T119. [https://doi.org/10.1016/S1754-3207\(11\)70064-5](https://doi.org/10.1016/S1754-3207(11)70064-5)
178. Graven-Nielsen T, Mense S, Giamberardino MA. 2011. Translational studies on myofascial trigger points: models and clinical implication. *European Journal of Pain Supplements*. 5(1):11-12, No. 45. [https://doi.org/10.1016/S1754-3207\(11\)70035-9](https://doi.org/10.1016/S1754-3207(11)70035-9)
179. Finocchietti S, Arendt-Nielsen L, Graven-Nielsen T. 2011. Pressure-induced bone pain: an experimental and modeling study. *European Journal of Pain Supplements*. 5(1):162, No. F511. [https://doi.org/10.1016/S1754-3207\(11\)70556-9](https://doi.org/10.1016/S1754-3207(11)70556-9)
180. Salomoni SE, Graven-Nielsen T. 2011. Muscle strength as a predictor of the magnitude of multidirectional force fluctuations during steady contractions. *International Federation for Medical and Biological Engineering Proceedings*. 34:93-96. https://doi.org/10.1007/978-3-642-21683-1_23
181. Finocchietti S, Arendt-Nielsen L, Graven-Nielsen T. 2011. Pressure algometry and tissue characteristics: improved stimulation efficacy by a new probe design. *International Federation for Medical and Biological Engineering Proceedings*. 34:49-52. https://doi.org/10.1007/978-3-642-21683-1_12
182. Finocchietti S, Graven-Nielsen T. 2010. Deep tissue biomechanics during pressure pain assessments on anterior tibialis muscle. Abstract from Annual Meeting of the Danish Biomechanics Society, Aalborg, Denmark.
183. Shiozawa S, Oida Y, Morozumi K, Nakamura N, Sato S, Kitabatake Y, Miura K, Graven-Nielsen T. 2010. The cause-effect relation between physical function, physical ability, and health-related quality of life in elderly people with knee pain. In *Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP)*, 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PH 042.
184. Salomoni SE, Graven-Nielsen T. 2010. The effects of muscle fatigue on three-dimensional force steadiness during isometric trunk extensions. Falla D, Farina D, editors. In *Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010*, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Aalborg: Department of Health Science and Technology. Aalborg University.
185. Quemé LF, Nie H, Mizumura K, Graven-Nielsen T. 2010. Experimental muscle pain and muscle hyperalgesia after intramuscular injection of heated saline or capsaicin. In *Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP)*, 29 August-2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PM 249.
186. O'Neill S, Kjær P, Graven-Nielsen T, Manniche C, Arendt-Nielsen L. 2010. Low pressure pain threshold is associated with, but does not predispose for low back pain. In *Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP)*, 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PT 081.
187. Jespersen A, Amris K, Bartels E, Graven-Nielsen T, Bliddal H, Danneskiold-Samsøe B. 2010. Temporal and spatial summation in widespread and localized chronic musculoskeletal pain. In *Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP)*, 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PH 087.
188. Hirata RP, Ervilha U, Arendt-Nielsen L, Graven-Nielsen T. 2010. Experimental thigh muscle pain impairs postural control during quiet standing posture. Falla D, Farina D, editors. In *Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010*, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Aalborg: Department of Health Science and Technology. Aalborg University.

189. Hirata RP, Ervilha U, Arendt-Nielsen L, Graven-Nielsen T. 2010. Experimental thigh muscle pain impairs postural recovery after perturbations during standing. In Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP), 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PH 076.
190. Henriksen M, Aaboe J, Graven-Nielsen T, Bliddal H, Langberg H. 2010. Motor responses to experimental achilles tendon pain. Falla D, Farina D, editors. In Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Aalborg: Department of Health Science and Technology. Aalborg University.
191. Graven-Nielsen T. 2010. Human experimental models of tonic deep tissue pain and manifestations of widespread hyperalgesia. In Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP), 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. TS 53.
192. Graven-Nielsen T, Nie H, Mense S, Arendt-Nielsen L. 2010. Injection of nerve growth factor causes prolonged hyperalgesia to phasic pressure stimulation but not allodynia to vibration stimulation. In Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP), 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PT 251.
193. Graven-Nielsen T. 2010. Motor adaptation in musculoskeletal pain. Falla D, Farina D, editors. In Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]. Aalborg: Department of Health Science and Technology. Aalborg University.
194. Ge H-Y, Xu Y, Danneskiold-Samsøe B, Graven-Nielsen T, Arendt-Nielsen L. 2010. Myofascial trigger points mapping and acupuncture for plantar foot pain in fibromyalgia. In Myopain 2010 Abstracts, 3-7 October 2010, Toledo, Spain. pp. 16, No. 19.
195. Ge H-Y, Xu Y, Graven-Nielsen T, Danneskiold-Samsøe B, Arendt-Nielsen L. 2010. Reproduction of overall spontaneous pain pattern by manual stimulation of active myofascial trigger points in fibromyalgia patients. In Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP), 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PW 090.
196. Finocchietti S, Arendt-Nielsen L, Mørch CD, Graven-Nielsen T. 2010. Effects of muscle hardness on pressure pain assessment. In Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP), 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PM 264.
197. Finocchietti S, Arendt-Nielsen L, Graven-Nielsen T. 2010. Stress and strain distribution in muscle tissue during pressure stimulation: a 3D finite-element analysis. In Myopain 2010 Abstracts, 3-7 October 2010, Toledo, Spain. pp. 43, No. 72.
198. Dannecker EA, Koltyn KF, Velazquez CR, Arendt-Nielsen L, Graven-Nielsen T. 2010. Sex differences in exercise-induced analgesia and diffuse noxious inhibitory control. In Abstracts of the 13th World Congress on Pain, International Association for the Study of Pain (IASP), 29 August - 2 September 2010, Montreal, Canada [CD-ROM]. IASP Press. pp. No. PH 228.
199. Hodges PW, Tucker K, Butler J, Graven-Nielsen T, Riek S. 2009. Motor unit recruitment strategies are altered during constant force contractions when pain is induced in muscle or other tissues. In 39th Annual Meeting of the Society for Neuroscience, Neuroscience 2009, 17-21 October 2009, Chicago, USA. pp. No. 179.18/CC1.
200. Hirata RP, Arendt-Nielsen L, Graven-Nielsen T. 2009. Experimental calf muscle pain attenuates the postural stability. In 39th Annual Meeting of the Society for Neuroscience, Neuroscience 2009, 17-21 October 2009, Chicago, USA. pp. No. 76.4/Y3.
201. Graven-Nielsen T, Nie H, Mense S, Arendt-Nielsen L. 2009. Repeated injections of a high dose nerve growth factor (NGF) do not induce immediate muscle pain but prolonged hyperalgesia. *European Journal of Pain*. 13(Suppl. 1):S125, No. 415. [https://doi.org/10.1016/S1090-3801\(09\)60418-3](https://doi.org/10.1016/S1090-3801(09)60418-3)
202. Ge HY, Nie H, Madeleine P, Danneskiold-Samsøe B, Graven-Nielsen T, Arendt-Nielsen L. 2009. Contribution of the local and referred pain from active myofascial trigger points bilaterally in the upper trapezius in fibromyalgia syndrome. *European Journal of Pain*. 13(Suppl. 1):S149-S150, No. 505. [https://doi.org/10.1016/S1090-3801\(09\)60508-5](https://doi.org/10.1016/S1090-3801(09)60508-5)
203. Finocchietti S, Nielsen M, Graven-Nielsen T. 2009. The relation between mechanical properties of tissues and the sensation of muscle pain during pressure stimulation. *European Journal of Pain*. 13(Suppl. 1):S220, No. 762. [https://doi.org/10.1016/S1090-3801\(09\)60765-5](https://doi.org/10.1016/S1090-3801(09)60765-5)
204. Wodehouse T, Cruwys S, Kay R, Graven-Nielsen T, Arendt-Nielsen L, Langford R, Kidd BL. 2008. Osteoarthritis and its association with mechanical hyperalgesia: an experimental controlled study. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PW 044.
205. Slater H, Schug SA, Wright T, Graven-Nielsen T. 2008. The efficacy of oral ketamine on experimentally induced mechanical hyperalgesia. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PW 116.
206. Nielsen M, Graven-Nielsen T, Frøkjær JB, Farina D. 2008. Finite element simulation of surface potential distributions at variable limb joint angle. In Proceedings, XVIIth Congress of the International Society of Electrophysiology and Kinesiology (ISEK), 18-21 June 2008, Niagara Falls, Canada [CD-ROM]. ISEK.

207. Nie H, Graven-Nielsen T, Arendt-Nielsen L. 2008. Spatial and temporal summation of pain evoked by mechanical pressure stimulation. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PW 140.
208. Law LAF, Sluka KA, McMullen T, Lee J, Arendt-Nielsen L, Graven-Nielsen T. 2008. Acidic buffer induced muscle pain evokes referred pain and mechanical hyperalgesia in humans. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PW 114.
209. Graven-Nielsen T, Nie H, Arendt-Nielsen L, Madeleine P. 2008. Facilitated temporal summation of pressure pain during muscle hyperalgesia evoked by nerve growth factor and eccentric contractions. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PW 143.
210. Graven-Nielsen T. 2008. The sensory-motor integration in experimental musculoskeletal pain. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. TW 37.
211. Gibson W, Arendt-Nielsen L, Sessle B, Graven-Nielsen T. 2008. Glutamate facilitates capsaicin-induced pain in human tendon tissue. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PT 132.
212. Arendt-Nielsen L, Olesen AE, Ståhl C, Menzaghi F, Kell S, Graven-Nielsen T, Drewes AM. 2008. CR665: a selective peripherally acting kappa receptor agonist attenuates visceral pain in humans. In Abstracts of the 12th World Congress on Pain, International Association for the Study of Pain (IASP), 17-22 August 2008, Glasgow, Scotland [CD-ROM]. IASP Press. pp. No. PM 178.
213. Gerber RH, Nie H, Graven-Nielsen T, Arendt-Nielsen L, Curatolo M. 2008. Is it possible to identify muscles as primary source of pain by intramuscular injection of ropivacaine?. *Swiss Medical Weekly*. 138(Suppl. 166):11 S, No. P 8.
214. Tucker K, Hodges P, Butler J, Graven-Nielsen T. 2007. Strategies for maintaining force during acute pain. In *Fundamentals of Musculoskeletal Pain, IASP Research Symposium 2007*, 7-9 May 2007, Aalborg, Denmark. pp. No. 26.
215. Lei J, You H-J, Andersen OK, Graven-Nielsen T, Arendt-Nielsen L. 2007. Dynamic changes of temperature and blood flow in skin of primary and referred areas in intramuscular injection of hypertonic saline induced human experimental muscle pain. In *Fundamentals of Musculoskeletal Pain, IASP Research Symposium 2007*, 7-9 May 2007, Aalborg, Denmark. pp. No. 23.
216. Law LAF, Sluka KA, Hunstad T, Lee J, Graven-Nielsen T. 2007. Acidic buffer induced referred pain associated with mechanical hyperalgesia. In *Fundamentals of Musculoskeletal Pain, IASP Research Symposium 2007*, 7-9 May 2007, Aalborg, Denmark. pp. No. 24.
217. Graven-Nielsen T, Ervilha UF, Hodges PW. 2007. Reduced motor unit firing rate in synergist muscles during constant force painful contractions. In *37th Annual Meeting of the Society for Neuroscience, Neuroscience 2007*, 3-7 November 2007, San Diego, CA, USA. pp. No. 510.1/PP27.
218. Andersen H, Arendt-Nielsen L, Svensson P, Danneskiold-Samsøe B, Graven-Nielsen T. 2007. Spatial and temporal muscle hyperalgesia induced by NGF in humans. In *Fundamentals of Musculoskeletal Pain, IASP Research Symposium 2007*, 7-9 May 2007, Aalborg, Denmark. pp. No. 25.
219. Ribbel-Madsen S, Jespersen A, Diemer T, Graven-Nielsen T, Bliddal H, Danneskiold-Samsøe B. 2007. Levels of cytokines, substance P, and excitatory amino acids in spinal fluid, saliva and plasma in patients with fibromyalgia. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):57, No. 102.
220. Jespersen A, Ribbel-Madsen S, Diemer T, Graven-Nielsen T, Bliddal H, Danneskiold-Samsøe B. 2007. Substance P and levels of IL-1b, IL-6, IL-10, tumor necrosis factor alpha and GM-CSF in extracellular fluid from skin in fibromyalgia syndrome patients extracted by the suction blister. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):50, No. 88.
221. Jespersen A, Ribbel-Madsen S, Diemer T, Graven-Nielsen T, Bliddal H, Danneskiold-Samsøe B. 2007. Substance P levels in saliva and spinal fluid in patients with fibromyalgia syndrome and healthy control. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):51, No. 89.
222. Graven-Nielsen T. 2007. The interaction of musculoskeletal pain and motor control. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):10, No. 12.
223. Gibson WI, Graven-Nielsen T. 2007. Fascial and deep muscle tissue sensitivity to hypertonic saline under normal and eccentric-exercise-induced sensitised conditions. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):23, No. 36.
224. Ge HY, Serrao M, Andersen OK, Graven-Nielsen T, Arendt-Nielsen L. 2007. Increased H-reflex response induced by intramuscular electrical stimulation at trigger points. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):22, No. 34.
225. Falla DL, Farina D, Dahl MK, Graven-Nielsen T. 2007. Acute changes in muscle coordination induced by experimental pain do not affect cervical muscle fatigability during sustained isometric contraction. *Physiotherapy*. 93(S1):S117-S118, No. 1368.

226. Andersen H, Arendt-Nielsen L, Svensson P, Danneskiold-Samsøe B, Graven-Nielsen T. 2007. Spatial and temporal muscle hyperalgesia induced by nerve growth factor in humans. *Journal of Musculoskeletal Pain*. 15(Suppl. 13):13, No. 16.
227. Falla DL, Farina D, Dahl MK, Graven-Nielsen T. 2006. Muscle pain induces task-dependent changes in cervical agonist/antagonist coordination. In 36th Annual Meeting of the Society for Neuroscience, 14-18 October 2006, Atlanta, GA, USA. pp. No. 347.10/U7.
228. Falla DL, Farina D, Graven-Nielsen T. 2006. Upper trapezius muscle pain results in reorganization of coordination among trapezius muscle subdivisions during dynamic movement of the upper limb. In *From Research to Practice: Proceedings XVIth Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2006*, 28 June-1 July 2006, Torino, Italy. pp. 66.
229. Ervilha UF, Duarte M, Arendt-Nielsen L, Graven-Nielsen T. 2006. A simple validation of co-contraction indices. In *From Research to Practice: Proceedings XVIth Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2006*, 28 June-1 July 2006, Torino, Italy. pp. 83, No. T07.P17.
230. Dewhurst S, Graven-Nielsen T, De Vito G, Farina D. 2006. Effect of altered local temperature on force steadiness in young and older women. In *From Research to Practice: Proceedings XVIth Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2006*, 28 June-1 July 2006, Torino, Italy. pp. 198.
231. Cescon C, Madeleine P, Graven-Nielsen T, Merletti R, Farina D. 2006. Two-dimensional spatial distribution of surface mechanomyography response to single motor unit activity. In *From Research to Practice: Proceedings XVIth Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2006*, 28 June-1 July 2006, Torino, Italy. pp. 90.
232. Graven-Nielsen T, Curatolo M, Mense S. 2006. Central sensitization, referred pain, and deep tissue hyperalgesia in musculoskeletal pain. Flor H, Kalso E, Dostrovsky JO, editors. In *Proceedings of the 11th World Congress on Pain*. IASP Press. pp. 217-230.
233. Jespersen A, Lund H, Graven-Nielsen T, Arendt-Nielsen L, Bliddal H, Danneskiold-Samsøe B. 2006. Spatial summation of pain assessed by computerized cuff pressure algometry is not facilitated in patients with knee osteoarthritis. *Osteoarthritis and Cartilage*. 14(Suppl. B):S191, No. P356.
234. Graven-Nielsen T, Gibson W, Arendt-Nielsen L. 2006. Fascial involvement in delayed onset muscle soreness. *European Journal of Pain*. 10(Suppl. 1):S87, No. 326.
235. Gibson W, Farina D, Graven-Nielsen T. 2006. Experimental muscle but not tendon pain decreases motor unit discharge rate. *European Journal of Pain*. 10(Suppl. 1):S77, No. 287.
236. Slater H, Arendt-Nielsen L, Wright T, Graven-Nielsen T. 2005. Saline-induced referred pain and mechanical hyperalgesia in clinical lateral epicondylalgia and in healthy controls with induced muscle soreness in wrist extensors. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
237. Lemming D, Sørensen J, Graven-Nielsen T, Arendt-Nielsen L, Gerdle B. 2005. Whiplash associated disorder: a multivariate analysis of pharmacological response and experimental pain. In *Program & Abstracts. 28th Annual Meeting of the Scandinavian Association for the Study of Pain, SASP 2005, 20-22 May 2005, Oslo, Norway*. pp. 59.
238. Graven-Nielsen T, Mense S, Staud R. 2005. Central sensitization, referred pain and deep tissue hyperalgesia in musculoskeletal pain. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
239. Graven-Nielsen T, Mense S, Arendt-Nielsen L. 2005. Sensations from skeletal muscle to mechanical stimulation. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
240. Grass S, Carlsson M, Sollevi A, Graven-Nielsen T, Segerdahl M. 2005. Sex related differences in human experimental muscle pain. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
241. Gibson WI, Arendt-Nielsen L, Graven-Nielsen T. 2005. Experimentally induced saline pain from human tendon and muscle: a comparison of pain characteristics and referred pain areas. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
242. Arendt-Nielsen L, Ståhl C, Frokjaer J, Huggins JP, Smart TS, Graven-Nielsen T, Drewes AM. 2005. Effect of gabapentin on temporal summation and experimentally induced muscle pain. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
243. Andersen H, Arendt-Nielsen L, Danneskiold-Samsøe B, Graven-Nielsen T. 2005. Muscle hardness and spatial pressure sensitivity in delayed onset muscle soreness. In *Abstracts. 11th World Congress on Pain, 21-26 August 2005, Sydney, Australia*. IASP Press.
244. Jespersen A, Kendall S, Dreyer L, Bartels EM, Graven-Nielsen T, Arendt-Nielsen L, Bliddal H, Danneskiold-Samsøe B. 2005. Spatial summation of pain in fibromyalgia assessed by computerized cuff pressure algometry. *Annals of the Rheumatic Diseases*. 64(Suppl. 3):345, No. FRI0291.
245. Arendt-Nielsen L, Graven-Nielsen T. 2005. Spinal cord hypersensitivity in FM and other chronic musculoskeletal pain conditions. *Les Entretiens du Carla*. (8):28-29.

246. Slater H, Arendt-Nielsen L, Wright T, Graven-Nielsen T. 2004. A comparison of sensori-motor interactions in patients with 'tennis elbow' and an in-vivo experimental model of 'tennis elbow' in healthy subjects. In 25th Annual Scientific Meeting of the Australian Pain Society, 7-10 March 2004, Canberra, Australia. pp. 89, No. 4.
247. Graven-Nielsen T. 2004. Peripheral and central sensitisation in musculoskeletal pain. In 25th Annual Scientific Meeting of the Australian Pain Society, 7-10 March 2004, Canberra, Australia. pp. 64, No. P4.1.
248. Graven-Nielsen T. 2004. Quantitative sensory testing in chronic widespread pain. In 25th Annual Scientific Meeting of the Australian Pain Society, 7-10 March 2004, Canberra, Australia. pp. 63, No. 3D.3.
249. Graven-Nielsen T. 2004. Sensory-motor interaction in muscle pain. In 25th Annual Scientific Meeting of the Australian Pain Society, 7-10 March 2004, Canberra, Australia. pp. 79, No. 4B.1.
250. Farina D, Arendt-Nielsen L, Merletti R, Graven-Nielsen T. 2004. Low-threshold motor unit twitch force and conduction velocity following sub-maximal fatiguing contractions. In Proceedings XVth Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2004, 18-21 June 2004, Boston, MA, USA. pp. 162, No. 419.
251. Jespersen A, Kendall SA, Dreyer L, Danneskiold-Samsøe B, Bliddal H, Graven-Nielsen T. 2004. Computerized cuff pressure algometry: a new method to assess deep-tissue sensitivity in fibromyalgia. *Journal of Musculoskeletal Pain*. 12(Suppl. 9):54, No. 108.
252. Jespersen A, Kendall SA, Dreyer L, Graven-Nielsen T, Danneskiold-Samsøe B, Bliddal H. 2004. Computerized cuff pressure algometry: a new semi-objective method to assess pain in patients with fibromyalgia. *Annals of the Rheumatic Diseases*. 63(Suppl. 1):66-67, No. OP0031.
253. Jespersen A, Kendall S, Dreyer L, Graven-Nielsen T, Danneskiold-Samsøe B, Bliddal H. 2004. Computerized cuff pressure algometry: a new semi-objective method to assess pain in patients with fibromyalgia. *Arthritis & Rheumatism*. 50(9, Suppl.):S308.
254. Jespersen A, Kendall SA, Dreyer L, Graven-Nielsen T, Danneskiold-Samsøe B, Bliddal H. 2004. Relationship between computerized cuff pressure algometry and disease assessment measures in fibromyalgia. *Journal of Musculoskeletal Pain*. 12(Suppl. 9):55, No. 109.
255. Graven-Nielsen T, Mense S, Arendt-Nielsen L. 2004. Non-painful and painful pressure sensation from skeletal muscle. *Journal of Musculoskeletal Pain*. 12(Suppl. 9):24, No. 48.
256. Arendt-Nielsen L, Graven-Nielsen T. 2004. Central sensitisation in fibromyalgia. *Les Entretiens du Carla*. (7):26-27.
257. Arendt-Nielsen L, Graven-Nielsen T, Ervilha UF. 2004. Muscle pain and muscle fatigue: experimental and clinical findings. *Annals of the Rheumatic Diseases*. 63(Suppl. 1):43, No. SP0133.
258. Andersen H, Arendt-Nielsen L, Danneskiold-Samsøe B, Graven-Nielsen T. 2004. Spatial pressure sensitivity in healthy muscle. *Journal of Musculoskeletal Pain*. 12(Suppl. 9):12, No. 24.
259. Andersen OK, Matjacic Z, Graven-Nielsen T, Arendt-Nielsen L. 2003. Human withdrawal reflex receptive fields to foot sole stimulation in symmetrical standing position. In Society for Neuroscience 33rd Annual Meeting, 8-12 November 2003, New Orleans, LA, USA [CD-ROM]. pp. No. 914.9.
260. Svensson P, Cairns BE, Wang K, Hupfeld S, Graven-Nielsen T, Sessle BJ, Berde CB, Arendt-Nielsen L. 2003. Effect of peripheral NMDA receptor antagonists on masseter muscle pain. *Journal of Dental Research*. 82(Special issue B):316, No. 2443.
261. Schmidt-Hansen PT, Svensson P, Jensen TS, Graven-Nielsen T, Bach FW. 2003. Patterns of experimentally induced pain in pericranial muscles in patients with tension-type headache and matched controls. *Cephalalgia*. 23(7):629, No. P2G1.
262. Segerdahl M, Graven-Nielsen T, Jansson Y, Draiby J, Kristensen J, Arendt-Nielsen L, Sollevi A. 2002. Alfentanil reduces muscle pain by hypertonic saline infusion and electric stimulation. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 500, No. 1498-P46.
263. Schulte H, Graven-Nielsen T, Sollevi A, Jansson Y, Kristensen J, Arendt-Nielsen L, Segerdahl M. 2002. Modulation of human experimental muscle pain by an NMDA-receptor antagonist and by opioids. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 500, No. 1495-P43.
264. Polianskis R, Graven-Nielsen T, Arendt-Nielsen L. 2002. Spatial and temporal aspects of deep tissue pain, assessed by cuff algometry. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 498, No. 1488-P36.
265. Mrachacz-Kersting N, Grey MJ, Voigt M, Graven-Nielsen T, Sinkjær T. 2002. Does a transcortical pathway contribute to the human quadriceps stretch reflex during sitting?. In Society for Neuroscience 32nd Annual Meeting, 2-7 November 2002, Orlando, FL, USA [CD-ROM]. pp. No. 15.13.
266. Lemming D, Sørensen J, Graven-Nielsen T, Arendt-Nielsen L, Gerdle B. 2002. The analgesic effect of morphine, lidocaine and ketamine in whiplash associated disorder patients with different pain duration. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 173, No. 519-P153.

267. Graven-Nielsen T, Jansson Y, Segerdahl M, Kristensen JD, Mense S, Arendt-Nielsen L, Sollevi A. 2002. Experimental pain by intramuscular infusions of adenosine or hypertonic saline compared to pain by ischaemic contractions. In Abstract Book of the Scandinavian Association for the Study of Pain, 25th Annual SASP Meeting, Aalborg, Denmark, 4-7 April. pp. 33, No. 1.
268. Graven-Nielsen T. 2002. Induction and assessment of muscle pain and the clinical applications. In Abstract Book of the Scandinavian Association for the Study of Pain, 25th Annual SASP Meeting, 4-7 April 2002, Aalborg, Denmark. pp. 29.
269. Graven-Nielsen T, Arendt-Nielsen L, Mense S. 2002. Muscle pain induced by high intensity thermal stimulation. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 20, No. 60-P56.
270. Giani C, Petersen-Felix S, Graven-Nielsen T, Arendt-Nielsen L, Curatolo M. 2002. Epidural fentanyl: effect on segmental spread, temporal summation and muscle pain. In Abstract Book of the Scandinavian Association for the Study of Pain, 25th Annual SASP Meeting, Aalborg, Denmark, 4-7 April. pp. 46, No. 24.
271. Ciubotariu A, Arendt-Nielsen L, Graven-Nielsen T. 2002. The effect of experimental muscle pain and fatigue on synergistic muscle activity. In Abstract Book of the Scandinavian Association for the Study of Pain, 25th Annual SASP Meeting, Aalborg, Denmark, 4-7 April. pp. 60, No. 48.
272. Ciubotariu A, Arendt-Nielsen L, Graven-Nielsen T. 2002. The effect of experimental muscle pain on homonymous synergistic muscle activity during sustained contractions. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 19, No. 56-P52.
273. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Chen ACN. 2002. Brain processing of cool and warm perceptions: EEG spectral topography and coherence analyses. In 8th International Conference on Functional Mapping of the Human Brain, HBM 2002, 2-6 June 2002, Sendai, Japan.
274. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Chen ACN. 2002. Cerebral response to repeated tonic muscle pain: psychophysics and EEG spectral topography. In 10th World Congress on Pain, 17-22 August 2002, San Diego, CA, USA: IASP Abstract Book. IASP Press. pp. 148, No. 436-P70.
275. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Chen ACN. 2002. Differential cerebral responses to auditory aversive arousal and muscle pain: EEG topography and power spectra. In 8th International Conference on Functional Mapping of the Human Brain, HBM 2002, 2-6 June 2002, Sendai, Japan.
276. Farina D, Madeleine P, Graven-Nielsen T, Merletti R, Arendt-Nielsen L. 2001. Standardisation of surface EMG recording for reliable assessment of the upper trapezius muscle activity and fatigue in occupational studies. In ESMAC-SIAMOC Pre-Congress Course on Movement Analysis (European Society for Movement Analysis in Adults and Children, Societa' Italiana di Analisi del Movimento in Clinica), 9-11 October 2001, Milan, Italy.
277. Farina D, Arendt-Nielsen L, Merletti R, Graven-Nielsen T. 2001. A spike triggered averaging technique for high resolution assessment of single motor unit conduction velocity changes during fatiguing voluntary contractions. In 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC 2001, 25-28 October 2001, Istanbul, Turkey. pp. 1097-1100.
278. Slater H, Arendt-Nielsen L, Wright A, Graven-Nielsen T. 2001. Deep tissue pain in wrist extensors: a model of lateral epicondylalgia. *Journal of Musculoskeletal Pain.* 9(Suppl. 5):95.
279. Graven-Nielsen T, Lund H, Arendt-Nielsen L, Danneskiold-Samsøe B, Bliddal H. 2001. Attenuation of maximal force during experimental muscle pain is centrally mediated. *Journal of Musculoskeletal Pain.* 9(Suppl. 5):16.
280. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Svensson P, Chen ACN. 2001. The effects of cutaneous nociception on EEG topography. *NeuroImage.* 13(6, Suppl. 1):S871.
281. Schulte H, Graven-Nielsen T, Jansson Y, Kristensen J, Sollevi A, Arendt-Nielsen L, Segerdahl M. 2000. Alfentanil, morphine and ketamine increase thresholds and reduce local and referred muscle pain during hypertonic saline infusion and electric stimulation. In *Pain in Europe : Third Congress of the European Federation of IASP Chapters, EFIC, September 26-30, 2000, Nice, France.* pp. 213, No. PS1-065.
282. Graven-Nielsen T, Gibson S, Svensson P, Arendt-Nielsen L. 2000. Sensitivity to pressure stimuli in capsaicin-induced referred pain areas. In *Pain in Europe : Third Congress of the European Federation of IASP Chapters, EFIC, September 26-30, 2000, Nice, France.* pp. 213, No. PS1-066.
283. Chang P, Arendt-Nielsen L, Graven-Nielsen T, Svensson P, Chen ACN. 2000. EEG and human pain: topographic mapping of tonic pain by intradermal vs. intramuscular injection of capsaicin. In *Pain in Europe: Third Congress of the European Federation of IASP Chapters, EFIC, September 26-30, 2000, Nice, France.* pp. 187, No. PS1-014.
284. Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 2000. Effects of post-exercise muscle soreness on pinch force. In *Pain in Europe : Third Congress of the European Federation of IASP Chapters, EFIC, September 26-30, 2000, Nice, France.* pp. 204, No. PS1-047.
285. Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 2000. Post-exercise muscle soreness evaluated by McGill pain questionnaire (MPQ). In *The Pain Society, British and Irish Chapter of the International Association for the Study of Pain, Annual Scientific Meeting, 3-5 April 2000, Warwick, UK.* pp. 85, Poster No. 78.

286. Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 2000. A psychophysical study of muscle fatigue and post-exercise muscle soreness of first dorsal interosseous muscle of hand. Sinkjær T, Popovic D, Struijk JJ, editors. In IFESS 2000. NP 2000, Proceedings, 5th Annual Conference of the International Functional Electrical Stimulation Society, 6th Triennial Conference "Neural Prostheses: Motor Systems", June 18-24, 2000, Aalborg University, Denmark. Center for Sensory-Motor Interaction (SMI), Department of Health Science and Technology, Aalborg University. pp. 186-189.
287. Wright A, Graven-Nielsen T, Arendt-Nielsen L, Davies II. 1999. Temporal summation following noviveptive ultrasonic stimulation. In 9th World Congress on Pain, 22-27 August 1999, Vienna, Austria. IASP Press. pp. 515, No. 35.
288. Svensson P, Miles TS, Graven-Nielsen T, Arendt-Nielsen L. 1999. Inhibitory effects of tonic jaw-muscle pain on stretch reflexes in single motor unit recordings. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 538, No. 112.
289. Schmidt-Hansen PT, Svensson P, Jensen TS, Graven-Nielsen T, Arendt-Nielsen L, Bach FW. 1999. Referred pain in pericranial muscles following hypertonic saline injection. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 423, No. 157.
290. Petersen-Felix S, Curatolo M, Giani C, Graven-Nielsen T, Zbinden AM, Arendt-Nielsen L. 1999. Epidural fentanyl: effect on intramuscular and cutaneous experimental pain. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 401, No. 82.
291. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1999. The effect of differential and complete nerve block on electrical induced muscle pain: a psychophysical study. In 9th World Congress on Pain, 22-27 August 1999, Vienna, Austria. IASP Press. pp. 516, No. 37.
292. Johansen M, Graven-Nielsen T, Schou-Olesen A, Arendt-Nielsen L. 1999. Muscular hyperalgesia and referred pain in chronic whiplash syndrome. In 9th World Congress on Pain, 22-27 August 1999, Vienna, Austria. IASP Press. pp. 48, No. 151.
293. Graven-Nielsen T, Aspegren-Kendall S, Henriksson KG, Bengtsson M, Sörensen J, Johnson A, Gerdle B, Arendt-Nielsen L. 1999. Ketamine attenuates experimental referred muscle pain and temporal summation in fibromyalgia patients. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 516, No. 39.
294. Birch L, Christensen H, Graven-Nielsen T, Arendt-Nielsen L, Sjøgaard K. 1999. Motor unit firing rate during experimental muscle pain. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 516, No. 36.
295. Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 1999. Psychophysical study of muscle hyperalgesia: an experimental post exercise muscle pain model. In The Pain Society, British and Irish Chapter of the International Association for the Study of Pain, Annual Scientific Meeting, 14-16 April 1999, Edinburgh, United Kingdom. pp. 71-72.
296. Bajaj P, Graven-Nielsen T, Wright A, Davies II, Arendt-Nielsen L. 1999. Ultrasonic stimulation for assessment of muscle hyperalgesia and temporal summation of muscle pain. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 515, No. 34.
297. Babenko V, Svensson P, Drewes AM, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1999. Experimental muscular hyperalgesia in humans induced by combinations of serotonin and bradykinin: the duration and spatial distribution. In 9th World Congress on Pain, August 22-27, 1999, Vienna, Austria. IASP Press. pp. 514, No. 31.
298. Birch L, Graven-Nielsen T, Arendt-Nielsen L, Sjøgaard K, Christensen H. 1999. The influence of experimental muscle pain on motor unit threshold and behaviour during low level ramp contraction. Christensen, H. : Sjøgaard, G. (eds.), editor. In PROCID Symposium. Muscular Disorders in Computer Users: Mechanisms and Models, 25-27 November 1999, Copenhagen, Denmark. National Institute of Occupational Health. pp. 162-165.
299. Bajaj P, Graven-Nielsen T, Arendt-Nielsen L. 1999. Post exercise muscle soreness (PEMS): an experimental muscle pain. *Journal of Anaesthesiology - Clinical Pharmacology*. 15(4):407.
300. Babenko V, Graven-Nielsen T, Svensson P, Drewes AM, Jensen TS, Arendt-Nielsen L. 1998. Involvement of algogenic substances in muscle pain and muscular hyperalgesia in humans. In Second Annual Pain, 7-8 December 1998, Washington, DC, USA.
301. Andersen OK, Graven-Nielsen T, Matre DA, Arendt-Nielsen L. 1998. Interaction of cutaneous and muscle afferent activity in withdrawal reflex pathways in man. In Society for Neuroscience 28th Annual Meeting, 7-12 November 1998, Los Angeles, CA, USA: Abstract Book, Vol. 24(2). pp. 2085, No. 831.8.
302. Svensson P, McMillan AS, Graven-Nielsen T, Wang K, Arendt-Nielsen L. 1998. Painful conditioning of motor-unit reflex behavior in human masseter muscle. *Journal of Dental Research*. 77(Special issue B):1007, No. 3007.
303. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1998. The effect of differential and complete nerve block on referred pain: a psychophysical study. *Journal of Musculoskeletal Pain*. 6(Suppl. 2):12.
304. Graven-Nielsen T, Sörensen J, Henriksson KG, Bengtsson M, Arendt-Nielsen L. 1998. Central hyperexcitability in fibromyalgia. *Journal of Musculoskeletal Pain*. 6(Suppl. 2):83.
305. Graven-Nielsen T, Svensson P, Laa AD, Arendt-Nielsen L. 1998. Effect of bite force on heteronymous H-reflexes in human temporalis muscle. *Journal of Dental Research*. 77(Special issue B):1005, No. 2992.

306. Babenko V, Graven-Nielsen T, Svensson P, Drewes AM, Arendt-Nielsen L, Jensen TS. 1998. Intramuscular injections of bradykinin, serotonin and substance P in humans in relation to pain and hyperalgesia to mechanical stimuli. *European Journal of Neuroscience. Supplement.* 10:82, No. 30.33.
307. Babenko V, Graven-Nielsen T, Svensson P, Drewes AM, Arendt-Nielsen L, Jensen TS. 1998. Muscle pain and muscular hyperalgesia after intramuscular injections of bradykinin, serotonin and substance P in humans. *Journal of Musculoskeletal Pain.* 6(Suppl. 2):No. 4.
308. Arendt-Nielsen L, Laursen RJ, Graven-Nielsen T, Babenko V, Drewes AM, Svensson P. 1998. Assessment of muscle pain in humans: clinical and experimental aspects. *Journal of Musculoskeletal Pain.* 6(Suppl. 2):57.
309. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1997. Quantification of local and referred pain in humans induced by intramuscular electrical stimulation. In *SASP 1997 : 20th Annual Meeting of the Scandinavian Association for the Study of Pain*, April 17-20, 1997, Århus, Denmark. pp. 23.
310. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1997. Referred pain dependent on sensory input from the periphery: a human experimental study. In *PGA'97 : 51st Postgraduate Assembly*, 13-17 December 1997, New York, NY, USA: The World of Anesthesia. pp. 117.
311. Laursen RJ, Graven-Nielsen T, Jensen TS, Arendt-Nielsen L. 1997. The effect of skin anaesthetising the area of muscular induced referred pain. In *Pain in Europe: 2nd Congress of the European Federation of IASP Chapters*, September 24-27, 1997, Barcelona, Spain. pp. 286-287.
312. Graven-Nielsen T, Svensson P, Arendt-Nielsen L. 1997. Modulation of static and dynamic muscle activity by experimental muscle pain in legs. In *Society for Neuroscience 27th Annual Meeting*, 25-30 October 1997, New Orleans, LA, USA: Abstract Book, Vol. 23(2). pp. 2354, No. 916.11.
313. Graven-Nielsen T, McArdle A, Phoenix J, Arendt-Nielsen L, Jensen TS, Jackson MJ, Edwards RHT. 1997. MRI and microdialysis for assessment of intramuscular biochemical following saline-induced muscle pain in humans. In *20th Annual Meeting of the Scandinavian Association for the Study of Pain, SASP*, April 17-20, 1997, Århus, Denmark. pp. 25.
314. Graven-Nielsen T, Svensson P, Matre DA, Arendt-Nielsen L. 1997. Ongoing muscle pain do not cause muscular hyperactivity. In *Pain in Europe: 2nd Congress of the European Federation of IASP Chapters*, September 24-27, 1997, Barcelona, Spain. pp. 354.
315. Fenger-Grøn LS, Graven-Nielsen T, Svensson P, Arendt-Nielsen L, Stengaard-Petersen K, Jensen TS. 1997. Muscle pain assessed by electrical stimulation and mechanical pressure in the anterior tibial muscle. In *SASP 1997 : 20th Annual Meeting of the Scandinavian Association for the Study of Pain*, April 17-20, 1997, Århus, Denmark. pp. No. 24.
316. Babenko V, Graven-Nielsen T, Svensson P, Arendt-Nielsen L. 1997. The effect of prolonged muscle pain on deep pressure-pain sensibility. In *Pain in Europe: 2nd Congress of the European Federation of IASP Chapters*, September 24-27, 1997, Barcelona, Spain. pp. 354.
317. Andersen OK, Graven-Nielsen T, Matre DA, Arendt-Nielsen L, Schomburg ED. 1997. Investigation of summation between cutaneous and muscle afferent input in man: an experimental pain study. In *Book of abstracts: Pain in Europe: 2nd Congress of the European Federation of IASP Chapters*, September 24-27, 1997, Barcelona, Spain. pp. 356.
318. Arendt-Nielsen L, Graven-Nielsen T, Svensson P. 1997. Investigation of muscle pain in man. In *Book of Abstracts, Pain in Europe : 2nd Congress of the European Federation of IASP Chapters*, 24-27 September 1997, Barcelona, Spain. pp. 210-214.
319. Slot L, Graven-Nielsen T, Stengaard-Pedersen K, Arendt-Nielsen L, Svensson P, Jensen TS. 1996. Pain thresholds in cutaneous, subcutaneous and muscle tissue after saline induced muscle pain. In *Abstracts 8th World Congress on Pain*, 17-22 August 1996, Vancouver, Canada. IASP Press. pp. 232-233, No. 51.
320. Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Jensen TS. 1996. Psychophysical assessment of thermal and mechanical stimuli applied to areas with referred muscle pain in humans. In *Abstracts 8th World Congress on Pain*, 17-22 August 1996, Vancouver, Canada. IASP Press. pp. 233, No. 52.
321. Graven-Nielsen T. 1995. Experimental muscle pain: motor and sensory aspects. In *Symposium om patogenetiska mekanismer vid kronisk muskelsmärta*, June 1995, Linköping, Sweden.
322. Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Jensen TS. 1995. Sensory aspects of experimental muscle pain. In *Pain in Europe*, Verona, Italy, May. pp. 71.
323. Graven-Nielsen T, Arendt-Nielsen L, Svensson P, Jensen TS. 1995. Experimental referred muscle pain. *Journal of Musculoskeletal Pain.* 3(Suppl. 1):7.
324. Arendt-Nielsen L, Graven-Nielsen T, Sværre H, Svensson P. 1995. The effect of clinical and experimental low back pain on human gait. *Journal of Musculoskeletal Pain.* 3(Suppl. 1):135.
325. Arendt-Nielsen L, Graven-Nielsen T, Sværre H, Svensson P. 1994. The influence of low back pain on muscle activity and coordination during gait: a clinical and experimental study. In *International Conference on Pain*, October 1994, London, UK .

Books

Graven-Nielsen, T 1997, *Sensory manifestations and sensory-motor interactions during experimental muscle pain in man*. Center for Sensory-Motor Interaction (SMI), Department of Health Science and Technology, Aalborg University, Aalborg.

Graven-Nielsen, T 2006, *Fundamentals of muscle pain, referred pain and deep tissue hyperalgesia*. Scandinavian Journal of Rheumatology, no. vol.35(suppl.122). <https://doi.org/10.1080/03009740600865980>

Patents

Arendt-Nielsen L, Graven-Nielsen T, inventors. 01-Sep-2011. Method and device for evoking temporal pain summation. IPC No. A61B5/103. Patent No. WO2011103880.

Graven-Nielsen T, Arendt-Nielsen L, inventors. 07-May-2015. System for evaluating pain modulation, spatial and/or temporal summation of pain or descending inhibition of pain in a human. IPC No. A61B5/00, A61B5/021, A61B5/022. Patent No. WO2015063221.

Graven-Nielsen T, Arendt-Nielsen L, Petersen KK, inventors. 01-Dec-2016. Inflatable cuff for pain modulation or pain assessment. IPC No. A61B 5/00 (2006.01) . Patent No. WO/2016/189093.