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Motor Control

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Short presentation

I am interested in fundamental research questions to evaluate the effect of exercise and rehabilitation programs. Through animal models, studies on healthy subjects and patients, I together with my group aim to better understand the neural control of movement in health and disease.

Employment

Professor

Department of Neuroscience

København N

5 Jan 2009 → nu

Professor

Department of Nutrition, Exercise and Sports

København N

1 Oct 1999 → 31 Aug 2017

Professor, Head of Section

Neural Control of Movement

København N

1 Jan 2013 → 5 Jul 2016

Head of section, professor

Motor Control

København N

1 Jan 2013 → nu

Publications

Chemical denervation using botulinum toxin increases Akt expression and reduces submaximal insulin-stimulated glucose transport in mouse muscle

Li, Z., Näslund-Koch, L., Henriquez Olguín, C., Knudsen, J. R., Li, J., Madsen, A. L. B., Ato, S., Wienecke, J., Ogasawara, R., Nielsen, J. B. & Jensen, T. E., 21 Oct 2018, In : Cellular Signalling. 53, p. 224-233 10 p.

Feedforward neural control of toe walking in humans

Lorentzen, J., Willerslev-Olsen, M., Hüche Larsen, H., Svane, C., Forman, C., Frisk, R., Farmer, S. F., Kersting, U. & Nielsen, J. B., 1 Jun 2018, In : Journal of Physiology. 596, 11, p. 2159-2172 14 p.

On Denny-Brown's 'spastic dystonia' - What is it and what causes it?

Lorentzen, J., Pradines, M., Gracies, J-M. & Nielsen, J. B., Jan 2018, In : *Clinical Neurophysiology*. 129, 1, p. 89-94

Assessment of intersegmental coordination of rats during walking at different speeds - Application of continuous relative phase

Raffalt, P. C., Nielsen, L. R., Madsen, S., Højberg, L. M., Pingel, J., Nielsen, J. B., Alkjær, T. & Wienecke, J., 2018, In : *Journal of Biomechanics*. 73, p. 168-176 9 p.

Characterization of corticospinal activation of finger motor neurons during precision and power grip in humans

Svane, C., Forman, C. R., Nielsen, J. B. & Geertsen, S. S., 2018, In : *Experimental Brain Research*. 236, 3, p. 745-753 9 p.

Day-to-day reliability of gait characteristics in rats

Raffalt, P. C., Nielsen, L. R., Madsen, S., Højberg, L. M., Pingel, J., Nielsen, J. B., Wienecke, J. & Alkjær, T., 2018, In : *Journal of Biomechanics*. 72, p. 247-251 5 p.

Impaired ability to suppress excitability of antagonist motoneurons at onset of dorsiflexion in adults with cerebral palsy

Geertsen, S. S., Kirk, H. & Nielsen, J. B., 2018, In : *Neural Plasticity*. 2018, 11 p., 1265143.

Impaired muscle growth precedes development of increased stiffness of the triceps surae musculotendinous unit in children with cerebral palsy

Willerslev-Olsen, M., Choe Lund, M., Lorentzen, J., Barber, L., Kofoed-Hansen, M. & Nielsen, J. B., 2018, In : *Developmental Medicine and Child Neurology*. 60, 7, p. 672-679 8 p.

Increased central common drive to ankle plantar flexor and dorsiflexor muscles during visually guided gait

Jensen, P., Jensen, N. J., Terkildsen, C. U., Choi, J. T., Nielsen, J. B. & Geertsen, S. S., 2018, In : *Physiological Reports*. 6, 3, 11 p., e13598.

Micro-vascularisation is not a limiting factor for exercise in adults with Cerebral Palsy

Andersen, I. T., Harrison, A., Broholm, R., Harder, A., Nielsen, J. B., Bülow, J. & Pingel, J., 2018, In : *Journal of Applied Physiology*. 125, 2, p. 536-544

Modulation of task-related cortical connectivity in the acute and subacute phase after stroke

Larsen, L. H., Zibrandtsen, I. C., Wienecke, T., Kjær, T. W., Langberg, H., Nielsen, J. B. & Christensen, M. S., 2018, In : *European Journal of Neuroscience*. 47, 8, p. 1024-1032 9 p.

Oscillatory corticospinal activity during static contraction of ankle muscles is reduced in healthy old versus young adults

Spedden, M. E., Nielsen, J. B. & Geertsen, S. S., 2018, In : *Neural Plasticity*. 2018, 13 p., 3432649.

Progressive practice promotes motor learning and repeated transient increases in corticospinal excitability across multiple days

Christiansen, L., Madsen, M. A. J., Bojsen-Møller, E., Thomas, R., Nielsen, J. B. & Lundbye-Jensen, J., 2018, In : *Brain Stimulation*. 11, 2, p. 346-357 12 p.

Variable impact of tizanidine on the medium latency reflex of upper and lower limbs

Kurtzer, I., Bouyer, L. J., Bouffard, J., Jin, A., Christiansen, L., Nielsen, J. B. & Scott, S. H., 2018, In : *Experimental Brain Research*. 236, 3, p. 665-677 13 p.

Injection of high dose botulinum-toxin A leads to impaired skeletal muscle function and damage of the fibrillar and non-fibrillar structures

Pingel, J., Nielsen, M. S., Lauridsen, T., Rix, K., Bech, M., Alkjaer, T., Andersen, I. T., Nielsen, J. B. & Feidenhans'l, R. K., 7 Nov 2017, In : *Scientific Reports*. 7, 14746.

Corticomuscular coherence in the acute and subacute phase after stroke

Larsen, L. H., Zibrandtsen, I. C., Wienecke, T., Kjaer, T. W., Christensen, M. S., Nielsen, J. B. & Langberg, H., Nov 2017, In : Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology. 128, 11, p. 2217-2226 10 p.

To be active through indoor-climbing: an exploratory feasibility study in a group of children with cerebral palsy and typically developing children

Schram Christensen, M., Jensen, T., Voigt, C. B., Nielsen, J. B. & Lorentzen, J., 15 Jun 2017, In : B M C Neurology. 17, 20 p., 112.

A critical period of corticomuscular and EMG-EMG coherence detection in healthy infants aged 9-25weeks

Ritterband-Rosenbaum, A., Herskind, A., Li, X., Willerslev-Olsen, M., Olsen, M. D., Farmer, S. F. & Nielsen, J. B., 15 Apr 2017, In : The Journal of Physiology. 595, 8, p. 2699-2713

A randomized clinical trial in preterm infants on the effects of a home-based early intervention with the 'CareToy System'

Sgandurra, G., Lorentzen, J., Inguaggiato, E., Bartalena, L., Beani, E., Cecchi, F., Dario, P., Giampietri, M., Greisen, G., Herskind, A., Nielsen, J. B., Rossi, G. & Cioni, G., 2017, In : P L o S One. 12, 3, 13 p., e0173521.

Acute exercise improves motor memory consolidation in preadolescent children

Lundbye-Jensen, J., Skriver, K. C., Nielsen, J. B. & Roig, M., 2017, In : Frontiers in Human Neuroscience. 11, 10 p., 182.

Contribution of sensory feedback to plantar flexor muscle activation during push-off in adults with cerebral palsy

Frisk, R. F., Jensen, P., Kirk, H., Bouyer, L. J., Lorentzen, J. & Nielsen, J. B., 2017, In : Journal of Neurophysiology. 118, 6, p. 3165-3174 10 p.

Convergence of ipsi- and contralateral muscle afferents on common interneurons mediating reciprocal inhibition of ankle plantarflexors in humans

Mrachacz-Kersting, N., Geertsen, S. S., Stevenson, A. J. T. & Nielsen, J. B., 2017, In : Experimental Brain Research. 235, 5, p. 1555-1564 10 p.

Development and aging of human spinal cord circuitries

Geertsen, S. S., Willerslev-Olsen, M., Lorentzen, J. & Nielsen, J. B., 2017, In : Journal of Neurophysiology. 118, 2, p. 1133-1140 8 p.

How plastic are human spinal cord motor circuitries?

Christiansen, L., Lundbye-Jensen, J., Perez, M. A. & Nielsen, J. B., 2017, In : Experimental Brain Research. 235, 11, p. 3243-3249 7 p.

Long-term progressive motor skill training enhances corticospinal excitability for the ipsilateral hemisphere and motor performance of the untrained hand

Christiansen, L., Larsen, M. N., Grey, M. J., Nielsen, J. B. & Lundbye-Jensen, J., 2017, In : European Journal of Neuroscience. 45, 12, p. 1490-1500 11 p.

Modulation of fronto-parietal connections during the rubber hand illusion

Karabanov, A. N., Ritterband-Rosenbaum, A., Christensen, M. S., Siebner, H. R. & Nielsen, J. B., 2017, In : European Journal of Neuroscience. 45, 7, p. 964-974 11 p.

Muscle disuse caused by botulinum toxin injection leads to increased central gain of the stretch reflex in the rat

Pingel, J., Hultborn, H., Naslund-Koch, L., Jensen, D. B., Wienecke, J. & Nielsen, J. B., 2017, In : Journal of Neurophysiology. 118, 4, p. 1962-1969 8 p.

New perspectives on the development of muscle contractures following central motor lesions

Pingel, J., Bartels, E. M. & Nielsen, J. B., 2017, In : Journal of Physiology. 595, 4, p. 1027-1038 12 p.

Non-invasive assessment of changes in corticomotoneuronal transmission in humans

Taube, W., Leukel, C., Nielsen, J. B. & Lundbye-Jensen, J., 2017, In : Journal of Visualized Experiments. 123, 8 p., e52663.

Spatial facilitation of reciprocal inhibition and crossed inhibitory responses to soleus motoneurons during walking

Stevenson, A. J. T., Geertsen, S. S., Nielsen, J. B. & Mrachacz-Kersting, N., 2017, *Converging Clinical and Engineering Research on Neurorehabilitation II: Proceedings of the 3rd International Conference on NeuroRehabilitation (ICNR2016), October 18-21, 2016, Segovia, Spain*. Ibáñez, J., González-Vargas, J., Azorín, J. M., Akay, M. & Pons, J. L. (eds.). Cham, Switzerland: Springer, p. 1031-1036 6 p. (Biosystems and Biorobotics, Vol. 15).

Supplementation of docosahexaenoic acid (DHA), vitamin D₃ and uridine in combination with six weeks of cognitive and motor training in prepubescent children: A pilot study

Hansen, S. L., Ritterband-Rosenbaum, A., Voigt, C. B., Hellgren, L., Sørensen, A-D. M., Jacobsen, C., Greve, L. Z., Jørgensen, K. D., Bilde, P. E., Kiens, B. & Nielsen, J. B., 2017, In : B M C Nutrition. 3, 12 p., 37.

Treadmill training with an incline reduces ankle joint stiffness and improves active range of movement during gait in adults with cerebral palsy

Lorentzen, J., Kirk, H., Fernandez-Lago, H., Frisk, R. F., Nielsen, N. S., Jorsal, M. & Nielsen, J. B., 2017, In : Disability and Rehabilitation. 39, 10, p. 987-993 7 p.

A pilot study on early home-based intervention through an intelligent baby gym (CareToy) in preterm infants

Sgandurra, G., Bartalena, L., Cecchi, F., Cioni, G., Giampietri, M., Greisen, G., Herskind, A., Inguaggiato, E., Lorentzen, J., Nielsen, J. B., Orlando, M., Dario, P. & CareToy Consortium, 2016, In : Research in Developmental Disabilities. 53-54, p. 32-42 11 p.

Aldring

Geertsen, S. S. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 198-209 12 p.

Basal neurofysiologi

Nielsen, J. B. & Petersen, N. C., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 52-63 12 p.

Botulinum toxin injection causes hyper-reflexia and increased muscle stiffness of the triceps surae muscle in the rat

Pingel, J., Wienecke, J., Lorentzen, J. & Nielsen, J. B., 2016, In : Journal of Neurophysiology. 116, 6, p. 2615-2623 9 p.

Changes in corticospinal drive to spinal motoneurons following tablet-based practice of manual dexterity

Larsen, L. H., Jensen, T., Christensen, M. S., Lundbye-Jensen, J., Langberg, H. & Nielsen, J. B., 2016, In : Physiological Reports. 4, 2, 11 p., e12684.

Det autonome nervessystem

Christiansen, L. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København, p. 177-183 7 p.

Det motoriske systems neuroanatomi

Nielsen, J. B. & Christiansen, L., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 64-80 17 p.

Error signals driving locomotor adaptation: Cutaneous feedback from the foot is used to adapt movement during perturbed walking

Choi, J. T., Jensen, P., Nielsen, J. B. & Bouyer, L. J., 2016, In : Journal of Physiology. 594, 19, p. 5673-5684 12 p.

Explosive resistance training increases rate of force development in ankle dorsiflexors and gait function in adults with cerebral palsy

Kirk, H., Geertsen, S. S., Lorentzen, J., Krarup, K. B., Bandholm, T. Q. & Nielsen, J. B., 2016, In : Journal of Strength and Conditioning Research. 30, 10, p. 2749-2760 12 p.

Forord

Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 10-11 2 p.

Fra Tanke til Handling - Bevægelsens Neurobiologi

Christiansen, L. (ed.), Geertsen, S. S. (ed.), Lundbye-Jensen, J. (ed.) & Nielsen, J. B. (ed.), 2016, København: Hjerneforum. 352 p.

Fundamentale kontrolmekanismer

Christensen, M. S. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 81-90 10 p.

Gang og andre rytmiske bevægelser

Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 248-259 12 p.

Hjernens styring af bevægelser

Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 144-160 17 p.

Human spinal motor control

Nielsen, J. B., 2016, In : Annual Review of Neuroscience. 39, p. 81-101 21 p.

Kognition, opmærksomhed og følelser i bevægelse

Christensen, M. S. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 161-176 16 p.

Kroppens atomer, molekyler, celler og energiomsætning

Christiansen, L. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L. & Geertsen, S. S. (eds.). København: Hjerneforum, p. 13-51 39 p.

Livsstil og hjernen

Herskind, A. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 335-345 11 p.

Locomotor sequence learning in visually guided walking

Choi, J. T., Jensen, P. & Nielsen, J. B., 2016, In : Journal of Neurophysiology. 115, 4, p. 2014-2020 7 p., jn.00938.2015.

Motorisk indlæring

Lundbye-Jensen, J., Christiansen, L., Christensen, M. S. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 277-298 22 p.

Muscle growth is reduced in 15-month-old children with cerebral palsy

Herskind, A., Ritterband-Rosenbaum, A., Willerslev-Olsen, M., Lorentzen, J., Hanson, L., Lichtwark, G. & Nielsen, J. B., 2016, In : Developmental Medicine and Child Neurology. 58, 5, p. 485-491 7 p.

Muskelfysiologi

Petersen, N. C. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 115-125 11 p.

Nervesystemets udvikling og børns motorik

Petersen, N. C., Meehan, C. F., Hultborn, H., Petersen, T. H. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 184-197 14 p.

Neuroplasticitet

Lundbye-Jensen, J., Christiansen, L. & Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 260-276 17 p.

Rygmarvens motoriske mekanismer

Nielsen, J. B., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 126-143 18 p.

Sanserne og motorisk kontrol

Nielsen, J. B., Christiansen, L. & Christensen, M. S., 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 210-234 25 p.

Den Gennemskuende Hjerne

Martiny, K. M. M. & Nielsen, J. B., Dec 2015, *Den Menneskelige Hjerne*. Hjerneforum, p. 59-74

Assessment of transmission in specific descending pathways in relation to gait and balance following spinal cord injury

Barthélemy, D., Willerslev-Olsen, M., Lundell, H., Biering-Sørensen, F. & Nielsen, J. B., 2015, *Sensorimotor Rehabilitation: At the Crossroads of Basic and Clinical Sciences*. Dancause, N., Nadeau, S. & Rossignol, S. (eds.). Elsevier, Vol. 218. p. 79-101 23 p. (Progress in Brain Research).

Disruption of locomotor adaptation with repetitive transcranial magnetic stimulation over the motor cortex

Choi, J. T. L., Bouyer, L. J. & Nielsen, J. B., 2015, In : *Cerebral Cortex*. 25, 7, p. 1981-1986 6 p.

Early identification and intervention in cerebral palsy

Herskind, A., Greisen, G. & Nielsen, J. B., 2015, In : *Developmental Medicine and Child Neurology*. 57, 1, p. 29-36 8 p.

Gait training facilitates central drive to ankle dorsiflexors in children with cerebral palsy

Willerslev-Olsen, M., Petersen, T. H., Farmer, S. F. & Nielsen, J. B., 2015, In : *Brain*. 138, 3, p. 589-603 15 p.

Impaired gait function in adults with cerebral palsy is associated with reduced rapid force generation and increased passive stiffness

Geertsen, S. S., Kirk, H., Lorentzen, J., Jorsal, M., Johansson, C. B. & Nielsen, J. B., 2015, In : *Clinical Neurophysiology*. 126, 12, p. 2320-2329 10 p.

Interlimb communication following unexpected changes in treadmill velocity during human walking

Stevenson, A. J. T., Geertsen, S. S., Sinkjær, T., Nielsen, J. B. & Mrachacz-Kersting, N., 2015, In : *Journal of Neurophysiology*. 113, 9, p. 3151-3158 8 p.

Model-based motion tracking of infants

Olsen, M. D., Herskind, A., Nielsen, J. B. & Paulsen, R. R., 2015, *Computer Vision - ECCV 2014 Workshops: Zurich, Switzerland, September 6-7 and 12, 2014. Proceedings, Part III*. Agapito, L., Bronstein, M. M. & Rother, C. (eds.). Zurich: Springer, p. 673-685 13 p. (Lecture notes in computer science, Vol. 8927).

New ways, new moves: treatment of children with disabilities

Nielsen, J. B., 2015, In : *Developmental Medicine and Child Neurology*. 57, 5, p. 400 1 p.

Repetitive activation of the corticospinal pathway by means of rTMS may reduce the efficiency of corticomotoneuronal synapses

Taube, W., Leukel, C., Nielsen, J. B. & Lundbye-Jensen, J., 2015, In : *Cerebral Cortex*. 25, 6, p. 1629-1637 9 p.

Science-based neurorehabilitation: Recommendations for neurorehabilitation from basic science

Nielsen, J. B., Willerslev-Olsen, M., Christiansen, L., Lundbye-Jensen, J. & Lorentzen, J., 2015, In : *Journal of Motor Behavior*. 47, 1, p. 7-17 11 p.

Twenty weeks of home-based interactive training of children with cerebral palsy improves functional abilities

Lorentzen, J., Greve, L. Z., Kliim-Dee, M., Rasmussen, B., Bilde, P. E. & Nielsen, J. B., 2015, In : *B M C Neurology*. 15, 12 p., 75.

10 Hz rTMS over right parietal cortex alters sense of agency during self-controlled movements

Ritterband-Rosenbaum, A., Karabanov, A. N., Christensen, M. S. & Nielsen, J. B., 2014, In : *Frontiers in Human Neuroscience*. 8, 7 p., 471.

Acute exercise improves motor memory: Exploring potential biomarkers

Skriver, K. C., Roig, M., Lundbye-Jensen, J., Pingel, J., Helge, J. W., Kiens, B. & Nielsen, J. B., 2014, In : *Neurobiology of Learning and Memory*. 116, p. 46-58 13 p.

Aging increases the susceptibility to motor memory interference and reduces off-line gains in motor skill learning

Roig, M., Ritterband-Rosenbaum, A., Jensen, J. L. & Nielsen, J. B., 2014, In : *Neurobiology of Aging*. 35, 8, p. 1892-1900 9 p.

Body part tracking of infants

Olsen, M. D., Herskind, A., Nielsen, J. B. & Paulsen, R. R., 2014, *2014 22nd International Conference on Pattern Recognition (ICPR)*. IEEE, p. 2167-2172 6 p.

Botulinum neurotoxin treatment for spasticity: The role of electromyography guidance

Vilholm, O. J. & Nielsen, J. B., 2014, In : *Journal of Rehabilitation Medicine*. 46, 7, p. 715-716 2 p.

Functionality of the contralateral biceps femoris reflex response during human walking

Stevenson, A. J. T., Geertsen, S. S., Sinkjaer, T., Nielsen, J. B. & Mrachacz-Kersting, N., 2014, *Replace, Repair, Restore, Relieve - Bridging Clinical and Engineering Solutions in Neurorehabilitation: Proceedings of the 2nd International Conference on NeuroRehabilitation (ICNR2014), Aalborg, 24-26 June, 2014*. Jensen, W., Andersen, O. K. & Akay, M. (eds.). Heidelberg: Springer VS, p. 765-773 9 p. (Biosystems and Biorobotics, Vol. 7).

Gait training reduces ankle joint stiffness and facilitates heel strike in children with Cerebral Palsy

Willerslev-Olsen, M., Lorentzen, J. & Nielsen, J. B., 2014, In : *NeuroRehabilitation*. 35, 4, p. 643-655 13 p.

Home-based, early intervention with mechatronic toys for preterm infants at risk of neurodevelopmental disorders (CARETOY): a RCT protocol

Sgandurra, G., Bartalena, L., Cioni, G., Greisen, G., Herskind, A., Inguaggiato, E., Lorentzen, J., Nielsen, J. B., Sicola, E. & CareToy Consortium, 2014, In : *B M C Pediatrics*. 14, 1, 9 p., 268.

Sense of agency is related to gamma band coupling in an inferior parietal-preSMA circuitry

Ritterband-Rosenbaum, A., Nielsen, J. B. & Christensen, M. S., 2014, In : *Frontiers in Human Neuroscience*. 8, 10 p., 510.

Sensory feedback to ankle plantar flexors is not exaggerated during gait in spastic children with cerebral palsy

Willerslev-Olsen, M., Andersen, J. B., Sinkjær, T. & Nielsen, J. B., 2014, In : *Journal of Neurophysiology*. 111, 4, p. 746-754 9 p.

Central common drive to antagonistic ankle muscles in relation to short-term co-contraction training in non-dancers and professional ballet dancers

Geertsen, S. S., Kjær, M., Pedersen, K. K., Petersen, T. H., Perez, M. A. & Nielsen, J. B., 2013, In : *Journal of Applied Physiology*. 115, 7, p. 1075-1081 7 p.

Cutaneous mechanisms of isometric ankle force control

Choi, J. T., Jensen, J. L., Leukel, C. & Nielsen, J. B., 2013, In : *Experimental Brain Research*. 228, 3, p. 377-384 8 p.

Failure of normal development of central drive to ankle dorsiflexors relates to gait deficits in children with cerebral palsy

Petersen, T. H., Farmer, S. F., Kliim-Due, M. & Nielsen, J. B., 2013, In : *Journal of Neurophysiology*. 109, 3, p. 625-639 15 p.

Fast diffusion tensor imaging and tractography of the whole cervical spinal cord using point spread function corrected echo planar imaging

Lundell, H. M. H., Barthelemy, D., Biering-Sørensen, F., Cohen-Adad, J., Nielsen, J. B. & Dyrby, T. B., 2013, In : *Magnetic Resonance in Medicine*. 69, 1, p. 144-149 6 p.

Functional implications of corticospinal tract impairment on gait after spinal cord injury

Barthélemy, D., Knudsen, H., Willerslev-Olsen, M., Lundell, H., Nielsen, J. B. & Biering-Sørensen, F., 2013, In : *Spinal Cord*. 51, 11, p. 852-856 5 p.

Fører spasticitet til kontrakturer?

Nielsen, J. B., Willerslev-Olsen, M., Lorentzen, J. & Sinkjær, T., 2013, In : *Ugeskrift for Læger*. 175, 9, p. 600 1 p.

Interlimb communication to the knee flexors during walking in humans

Stevenson, A. J. T., Geertsen, S. S., Andersen, J. B., Sinkjær, T., Nielsen, J. B. & Mrachacz-Kersting, N., 2013, In : *Journal of Physiology*. 591, 19, p. 4921-4935 15 p.

Passive muscle properties are altered in children with cerebral palsy before the age of 3 years and are difficult to distinguish clinically from spasticity

Willerslev-Olsen, M., Lorentzen, J., Sinkjær, T. & Nielsen, J. B., 2013, In : *Developmental Medicine and Child Neurology*. 55, 7, p. 617-623 7 p.

Seeing or moving in parallel: the premotor cortex does both during bimanual coordination, while the cerebellum monitors the behavioral instability of symmetric movements

Christensen, M. S., Ehrsson, H. H. & Nielsen, J. B., 2013, In : *Experimental Brain Research*. 230, 1, p. 101-115 15 p.

The effects of cardiovascular exercise on human memory: A review with meta-analysis

Roig, M., Nordbrandt, S., Geertsen, S. S. & Nielsen, J. B., 2013, In : *Neuroscience & Biobehavioral Reviews*. 37, 8, p. 1645-1666 22 p.

A single bout of exercise improves motor memory

Roig, M., Skriver, K. C., Lundbye-Jensen, J., Kiens, B. & Nielsen, J. B., 2012, In : *P L o S One*. 7, 9, 8 p., e44594.

Adaptive plasticity of gait

Bouyer, L., Grey, M. J. & Nielsen, J. B., 2012, *Routledge Handbook of Motor Control and Motor Learning*. Gollhofer, A., Taube, W. & Nielsen, J. B. (eds.). London: Routledge, p. 213-230 18 p.

Assessment of a portable device for the quantitative measurement of ankle joint stiffness in spastic individuals

Lorentzen, J., Grey, M. J., Geertsen, S. S., Biering-Sørensen, F., Brunton, K., Gorassini, M. & Nielsen, J. B., 2012, In : *Clinical Neurophysiology*. 123, 7, p. 1371-1382 12 p.

Fictive locomotion in the adult decerebrate and spinal mouse in vivo

Meehan, C. F., Grøndahl, L., Nielsen, J. B. & Hultborn, H. R., 2012, In : *Journal of Physiology*. 590, 2, p. 289-300 12 p.

Neural control of walking

Grey, M. J., Bouyer, L. & Nielsen, J. B., 2012, *Routledge Handbook of Motor Control and Motor Learning*. Gollhofer, A., Taube, W. & Nielsen, J. B. (eds.). London: Routledge, p. 197-212 16 p.

Neural tension technique is no different from random passive movements in reducing spasticity in patients with traumatic brain injury

Lorentzen, J., Nielsen, D., Holm, K., Baagøe, S., Grey, M. J. & Nielsen, J. B., 2012, In : Disability and Rehabilitation. 34, 23, p. 1978-1985 8 p.

Ny viden om spasticitet og dens behandling

Lorentzen, J., Willerslev-Olsen, M., Crone, C., Sinkjær, T. & Nielsen, J. B., 2012, In : Ugeskrift for Læger. 174, 9, p. 569-573 5 p.

Rapid changes in corticospinal excitability during force field adaptation of human walking

Barthélemy, D., Alain, S., Grey, M. J., Nielsen, J. B. & Bouyer, L. J., 2012, In : Experimental Brain Research. 217, 1, p. 99-115 17 p.

Routledge Handbook of Motor Control and Motor Learning

Gollhofer, A. (ed.), Taube, W. (ed.) & Nielsen, J. B. (ed.), 2012, London: Routledge. 420 p.

Subconscious visual cues during movement execution allow correct online choice reactions

Leukel, C., Lundbye-Jensen, J., Christensen, M. S., Gollhofer, A., Nielsen, J. B. & Taube, W., 2012, In : P L o S One. 7, 9, p. e44496 8 p.

The motor cortex drives the muscles during walking in human subjects

Petersen, T. H., Willerslev-Olsen, M., Conway, B. A. & Nielsen, J. B., 2012, In : Journal of Physiology. 590, 10, p. 2443-2452 10 p.

Twenty weeks of computer-training improves sense of agency in children with spastic cerebral palsy

Ritterband-Rosenbaum, A., Christensen, M. S. & Nielsen, J. B., 2012, In : Research in Developmental Disabilities. 33, 4, p. 1227-1234 8 p.

Voluntary movement: Limitations and consequences of the anatomy and physiology of motor pathways

Rothwell, J. C. & Nielsen, J. B., 2012, *Routledge Handbook of Motor Control and Motor Learning*. Gollhofer, A., Taube, W. & Nielsen, J. B. (eds.). London: Routledge, p. 304-318 15 p.

Altered sense of agency in children with spastic cerebral palsy

Ritterband-Rosenbaum, A., Christensen, M. S., Kliim-Due, M., Petersen, L. Z., Rasmussen, B. & Nielsen, J. B., 2011, In : B M C Neurology. 11, 1, p. 150 (1-12) 12 p.

Cerebral activation is correlated to regional atrophy of the spinal cord and functional motor disability in spinal cord injured individuals

Lundell, H., Christensen, M. S., Barthélemy, D., Willerslev-Olsen, M., Biering-Sørensen, F. & Nielsen, J. B., 2011, In : NeuroImage. 54, 2, p. 1254-1261 8 p.

Distribution of collateral fibers in the monkey cervical spinal cord detected with diffusion-weighted magnetic resonance imaging

Lundell, H., Nielsen, J. B., Ptito, M. & Dyrby, T. B., 2011, In : NeuroImage. 56, 3, p. 923-929 7 p.

Independent spinal cord atrophy measures correlate to motor and sensory deficits in individuals with spinal cord injury

Lundell, H. M. H., Barthélemy, D., Skimminge, A., Dyrby, T. B., Biering-Sørensen, F., Nielsen, J. B., Lundell, H., Barthélemy, D., Skimminge, A., Dyrby, T. B., Biering-Sørensen, F. & Nielsen, J. B., 2011, In : Spinal Cord. 49, 1, p. 70-5 5 p.

Individualized, home-based interactive training of cerebral palsy children delivered through the Internet

Bilde, P. E., Kliim-Due, M., Rasmussen, B., Petersen, L., Petersen, T. H. & Nielsen, J. B., 2011, In : B M C Neurology. 11, p. 32 (1-9) 9 p.

Interference in ballistic motor learning: specificity and role of sensory error signals

Lundbye-Jensen, J., Petersen, T. H., Rothwell, J. C. & Nielsen, J. B., 2011, In : *PLoS One*. 6, 3, p. e17451 (1-15) 15 p.

Involvement of the corticospinal tract in the control of human gait

Barthélemy, D., Grey, M. J., Nielsen, J. B. & Bouyer, L., 2011, In : *Progress in Brain Research*. 192, p. 181-197 17 p.

Reciprocal Ia inhibition contributes to motoneuronal hyperpolarisation during the inactive phase of locomotion and scratching in the cat

Geertsen, S. S., Stecina, K., Meehan, C. F., Nielsen, J. B. & Hultborn, H., 2011, In : *Journal of Physiology*. 589, 1, p. 119-134 16 p.

Seeing or moving in parallel: Premotor cortex does both during bimanual coordination

Christensen, M. S., Ehrsson, H. & Nielsen, J. B., 2011. 1 p.

Spinal inhibition of descending command to soleus motoneurons is removed prior to dorsiflexion

Geertsen, S. S., van de Ruit, M., Grey, M. J. & Nielsen, J. B., 2011, In : *Journal of Physiology*. 589, 23, p. 5819-5831 13 p.

The effect of baclofen and diazepam on motor skill acquisition in healthy subjects

Willerslev-Olsen, M., Lundbye-Jensen, J., Petersen, T. H. & Nielsen, J. B., 2011, In : *Experimental Brain Research*. 213, 4, p. 465-474 10 p.

Distinguishing active from passive components of ankle plantar flexor stiffness in stroke, spinal cord injury and multiple sclerosis

Lorentzen, J., Grey, M. J., Crone, C., Mazevet, D., Biering-Sørensen, F., Nielsen, J. B., Lorentzen, J., Grey, M. J., Crone, C., Mazevet, D., Biering-Sørensen, F. & Nielsen, J. B., 1 Nov 2010, In : *Clinical Neurophysiology*. 121, 11, p. 1939-51 13 p.

Impaired transmission in the corticospinal tract and gait disability in spinal cord injured persons

Barthélemy, D., Willerslev-Olsen, M., Lundell, H., Conway, B. A., Knudsen, H., Biering-Sørensen, F., Nielsen, J. B., Barthélemy, D., Willerslev-Olsen, M., Lundell, H. M. H., Conway, B. A., Knudsen, H., Biering-Sørensen, F. & Holm-Nielsen, J. B., 1 Aug 2010, In : *Journal of Neurophysiology*. 104, 2, p. 1167-76 10 p.

Childhood development of common drive to a human leg muscle during ankle dorsiflexion and gait

Hvass Petersen, T., Kliim-Due, M., Farmer, S. F. & Nielsen, J. B., 2010, In : *Journal of Physiology*. 588, 22, p. 4387-4400 14 p.

Contribution of afferent feedback and descending drive to human hopping

Zuur, A. T., Lundbye-Jensen, J., Leukel, C., Taube, W. J., Grey, M. J., Gollhofer, A., Nielsen, J. B. & Gruber, M., 2010, In : *Journal of Physiology*. 588, 5, p. 799-807 9 p.

Corticospinal contribution to arm muscle activity during human walking

Barthélemy, D. & Nielsen, J. B., 2010, In : *Journal of Physiology*. 588, 6, p. 967-979 13 p.

Enhanced spinal excitation from ankle flexors to knee extensors during walking in stroke patients

Achache, V., Mazevet, D., Iglesias, C., Lackmy, A., Nielsen, J. B., Katz, R. & Marchand-Pauvert, V., 2010, In : *Clinical Neurophysiology*. 121, 6, p. 930-938 9 p.

Ia inhibitory neurons are involved in the hyperpolarization of motoneurons during their inactive phases in locomotion and scratching in the cat

Geertsen, S. S., Stecina, K., Meehan, C. F., Nielsen, J. B. & Hultborn, H., 2010.

Illusory sensation of movement induced by repetitive transcranial magnetic stimulation

Christensen, M. S., Lundbye-Jensen, J., Grey, M. J., Vejlbj, A. D., Belhage, B., Nielsen, J. B., Christensen, M. S., Jensen, J. L., Grey, M. J., Vejlbj, A. D., Belhage, B. & Holm-Nielsen, J. B., 2010, In : *PLoS One*. 5, 10, p. e13301

Illusory sensation of movement induced by repetitive transcranial magnetic stimulation

Christensen, M. S., Lundbye-Jensen, J., Grey, M. J., Vejlbj, A. D., Belhage, B. & Nielsen, J. B., 2010.

Intrinsic properties of lumbar motor neurones in the adult G127insTGGG superoxide dismutase-1 mutant mouse *in vivo*: evidence for increased persistent inward currents

Meehan, C. F., Moldovan, M., Marklund, S. L., Graffmo, K. S., Nielsen, J. B. & Hultborn, H., 2010, In : Acta Physiologica (Print Edition). 200, 4, p. 361-376 16 p.

Intrinsic properties of mouse lumbar motoneurons revealed by intracellular recording *in vivo*

Meehan, C. F., Sukiasyan, N., Zhang, M., Nielsen, J. B. & Hultborn, H., 2010, In : Journal of Neurophysiology. 103, 5, p. 2599-2610 12 p.

Learning without knowing: subliminal visual feedback facilitates ballistic motor learning

Lundbye-Jensen, J., Leukel, C. & Nielsen, J. B., 2010.

Load rather than length sensitive feedback contributes to soleus muscle activity during human treadmill walking

af Klint, R., Mazzaro, N., Nielsen, J. B., Sinkjaer, T. & Grey, M. J., 2010, In : Journal of Neurophysiology. 103, 5, p. 2747-2756 10 p.

Mind the body in the brain

Nielsen, J. B., 2010, In : Scandinavian Journal of Medicine & Science in Sports. 20, 5, p. 709-710 2 p.

Modulation of sensory inhibition of motor evoked potentials elicited by TMS prior to movement?

Leukel, C., Lundbye-Jensen, J., Nielsen, J. B., Gollhofer, A. & Taube, W., 2010.

Nye teknologier til fremme af fysisk aktivitet - perspektiver

Nielsen, J. B., 2010, *Fysisk Aktivitet for Sundhed*. Bangsbo, J. & Ibsen, B. (eds.). København: Kulturministeriet, p. 33-34 2 p.

Repetitive activation of the corticospinal tract by means of rTMS may reduce the efficiency of corticomotoneuronal synapses

Taube, W., Leukel, C., Schubert, M., Nielsen, J. B. & Lundbye-Jensen, J., 2010.

Rhythmic movement of one leg elicits modulation of spinal reflexes in the other leg

Stecina, K., Nissen, U. V. & Nielsen, J. B., 2010. 1 p.

The role of plastic changes in the motor cortex and spinal cord for motor learning

Nielsen, J. B. & Lundbye-Jensen, J., 2010, In : Acta Physiologica (Print Edition). Suppl. 677, p. 19-20 2 p.

Voluntary activation of ankle muscles is accompanied by subcortical facilitation of their antagonists

Geertsen, S. S., Zuur, A. T. & Nielsen, J. B., 2010, In : Journal of Physiology. 588, 13, p. 2391-2402 12 p.

Bevægelsessygdomme: Manden der pludselig blev stiv som et brædt og andre historier om bevægelsessygdomme

Crone, C. & Nielsen, J. B., 2009, *Hjernen i Bevægelse*. Bøgeskov, J., Ellemann, K. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 68-79 12 p.

Cortical involvement in anticipatory postural reactions in man

Petersen, T. H., Rosenberg, K., Petersen, N. C. & Nielsen, J. B., 2009, In : Experimental Brain Research. 193, 2, p. 161-171 11 p.

Food for Brains

Kiens, B., Kliim-Due, M., Nielsen, J. B., Rasmussen, B. & Bilde, P. E., 2009, Helene Elsass Center. 201 p.

Fysisk aktivitet og hjernen

Nielsen, J. B., 2009, *Forskning i Bevægelse: Et nyt forskningsfelt i et 100-årigt perspektiv*. Poulsen, A. L., Trangbæk, E., Jørgensen, K. & Nordsborg, N. (eds.). København: Museum Tusulanum, p. 322-325 4 p.

Genoptræning af hjernen: Neuroplasticitet og neurorehabilitering

Grey, M. J. & Nielsen, J. B., 2009, *Hjernen i Bevægelse*. Bøgeskov, J., Ellemann, K. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 104-113 10 p.

Hjernen i Bevægelse

Bøgeskov, J. (ed.), Ellemann, K. (ed.) & Nielsen, J. B. (ed.), 2009, København: Hjerneforum. 143 p.

Hvad der gør bevægelser lette

Nielsen, J. B., 2009, *Hjernen i Bevægelse*. Bøgeskov, J., Ellemann, K. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 33-40 8 p.

Interference in ballistic motor learning - is motor interference really sensory?

Lundbye-Jensen, J., Petersen, T. H., Rothwell, J. C. & Nielsen, J. B., 2009.

Interference in motor learning - is motor interference sensory?

Jensen, J. L., Petersen, T. H., Rothwell, J. C. & Nielsen, J. B., 2009.

Introduktion

Nielsen, J. B., 2009, *Hjernen i Bevægelse*. Bøgeskov, J., Ellemann, K. & Nielsen, J. B. (eds.). København: Hjerneforum, p. 6-7 2 p.

Optimal spectral tracking - with application to speed dependent neural modulation of tibialis anterior during human treadmill walking

Brittain, J-S., Catton, C., Conway, B. A., Nielsen, J. B., Jenkinson, N. & Halliday, D. M., 2009, In : *Journal of Neuroscience Methods*. 177, 2, p. 334-347 14 p.

Spasticitet: hvad er det nu lige det er

Nielsen, J. B. & Lorentzen, J., 2009, In : *Fysioterapeuten*. 4, p. 12-20 9 p.

Sudden drop in ground support produces force-related unload response in human overground walking

Af Klint, R., Nielsen, J. B., Sinkjaer, T. & Grey, M. J., 2009, In : *Journal of Neurophysiology*. 101, 4, p. 1705-1712 8 p.

Tibialis anterior stretch reflex in early stance is suppressed by repetitive transcranial magnetic stimulation

Zuur, A. T., Christensen, M. S., Sinkjær, T., Grey, M. J. & Nielsen, J. B., 2009, In : *Journal of Physiology*. 587, 8, p. 1669-1676 8 p.

Action-blindsight in healthy subjects after transcranial magnetic stimulation

Christensen, M. S., Kristiansen, L., Rowe, J. B. & Nielsen, J. B., 2008, In : *Proceedings of the National Academy of Science of the United States of America*. 105, 4, p. 1353-1357 5 p.

Central nervous adaptations following 1 week of wrist and hand immobilization

Lundbye-Jensen, J. & Nielsen, J. B., 2008, In : *Journal of Applied Physiology*. 105, 1, p. 139-151 13 p.

Corticospinal inhibition of transmission in propriospinal-like neurones during human walking

Iglesias, C., Nielsen, J. B. & Marchand-Pauvert, V., 2008, In : *European Journal of Neuroscience*. 28, 7, p. 1351-1361 11 p.

Facilitation of soleus but not tibialis anterior motor evoked potentials before onset of antagonist contraction

Geertsen, S. S., Zuur, A. T. & Nielsen, J. B., 2008, In : Brain Stimulation. 3, p. 275 1 p.

Immobilization induces changes in presynaptic control of group Ia afferents in healthy humans

Jensen, J. L. & Nielsen, J. B., 2008, In : Journal of Physiology. 586, 17, p. 4121-4135 15 p.

Increased central facilitation of antagonist reciprocal inhibition at the onset of dorsiflexion following explosive strength training

Geertsen, S. S., Jensen, J. L. & Nielsen, J. B., 2008, In : Journal of Applied Physiology. 105, 3, p. 915-922 8 p.

Modulation of recurrent inhibition from knee extensors to ankle motoneurons during human walking

Lamy, J-C., Iglesias, C., Lackmy, A., Nielsen, J. B., Katz, R. & Marchand-Pauvert, V., 2008, In : Journal of Physiology. 586, 24, p. 5931-5946 16 p.

Motorisk kontrol

Nielsen, J. B., 2008, *Træning: i forebyggelse, behandling og rehabilitering*. Beyer, N., Lund, H. & Klinge, K. (eds.). København: Munksgaard, p. 67-78 12 p.

Reduction of common motoneuronal drive on the affected side during walking in hemiplegic stroke patients

Nielsen, J. B., Brittain, J-S., Halliday, D. M., Marchand-Pauvert, V., Mazevet, D. & Conway, B. A., 2008, In : Clinical Neurophysiology. 119, 12, p. 2813-2818 6 p.

Soleus H-reflex excitability during pedaling post-stroke

Schindler-Ivens, S., Brown, D. A., Lewis, G. N., Nielsen, J. B., Ondishko, K. L. & Wieser, J., 2008, In : Experimental Brain Research. 188, 3, p. 465-474 10 p.

Speed-related spinal excitation from ankle dorsiflexors to knee extensors during human walking

Iglesias, C., Nielsen, J. B. & Marchand-Pauvert, V., 2008, In : Experimental Brain Research. 188, 1, p. 101-110 10 p.

Task-and phase-related changes in cortico-muscular coherence

Masakado, Y. & Nielsen, J. B., 2008, In : Keio Journal of Medicine. 57, 1, p. 50-56 7 p.

The olympic brain. Does corticospinal plasticity play a role in acquisition of skills required for high-performance sports?

Nielsen, J. B. & Cohen, L. G., 2008, In : Journal of Physiology. 586, 1, p. 65-70 6 p.

Within-step modulation of leg muscles activity by afferent feedback in human walking

Klint, R. A., Nielsen, J. B., Cole, J. D., Sinkjær, T. & Grey, M. J., 2008, In : Journal of Physiology. 586, 19, p. 4643-4648 6 p.

Premotor cortex modulates somatosensory cortex during voluntary movements without proprioceptive feedback

Christensen, M. S., Lundbye-Jensen, J., Geertsen, S. S., Petersen, T. H., Paulson, O. B. & Nielsen, J. B., 1 Apr 2007, In : Nature Neuroscience. 10, 4, p. 417-9 3 p.

Evaluation of transcranial magnetic stimulation for investigating transmission in descending motor tracts in the rat

Nielsen, J. B., Perez, M. A., Oudega, M., Enriquez-Denton, M. & Aimonetti, J-M., 2007, In : European Journal of Neuroscience. 25, 3, p. 805-814

Plasticity and regeneration of the spinal cord and peripheral nervous system

Hultborn, H. R. A., Nielsen, J. B. & Krarup, C., 2007, In : Acta Physiologica (Print Edition). 189, 2, p. 109-110

Positive force feedback in human walking

Grey, M. J., Nielsen, J. B., Mazzaro, N. & Sinkjær, T., 2007, In : Journal of Physiology. 581, 1, p. 99-105 7 p.

Post-activation depression of soleus stretch reflexes in healthy and spastic humans

Grey, M. J., Klinge, K., Crone, C., Lorentzen, J., Biering-Sørensen, F., Ravnborg, M. & Nielsen, J. B., 2007, In : Experimental Brain Research. 185, 2, p. 189-197 9 p.

Reduced reciprocal inhibition is seen only in spastic limbs in patients with neurolethyrism

Crone, C., Petersen, N., Giménez-Roldán, S., Lungholt, B., Nyborg, K. & Nielsen, J. B., 2007, In : Experimental Brain Research. 181, 1, p. 193-197

Single-trial multiwavelet coherence in application to neurophysiological time series

Brittain, J. S., Halliday, D. M., Conway, B. A. & Nielsen, J. B., 2007, In : IEEE Transactions on Biomedical Engineering. 54, 5, p. 854-862 9 p.

Spinal control of locomotion - from cat to man

Hultborn, H. & Nielsen, J. B., 2007, In : Acta Physiologica (Print Edition). 189, 2, p. 111-121 10 p.

Task-specific depression of the soleus H-reflex after cocontraction training of antagonistic ankle muscles

Perez, M. A., Jensen, J. L. & Nielsen, J. B., 2007, In : Journal of Neurophysiology. 98, 6, p. 3677-3687 11 p.

The spinal pathophysiology of spasticity - from a basic science point of view

Nielsen, J. B., Crone, C. & Hultborn, H. R. A., 2007, In : Acta Physiologica (Print Edition). 189, 2, p. 171-180 10 p.

Up-regulation of reciprocal inhibition by explosive strength training

Geertsen, S. S., Jensen, J. L. & Nielsen, J. B., 2007. 1 p.

Watching your foot move - an fMRI study of visuomotor interactions during foot movement

Christensen, M. S., Jensen, J. L., Petersen, N., Geertsen, S. S., Paulson, O. B. & Nielsen, J. B., 2007, In : Cerebral Cortex. 17, 8, p. 1906-1917 12 p.

An fMRI study of cerebral activity during voluntary movements without sensory feedback due to ischemic nerve block

Christensen, M. S., Jensen, J. L., Geertsen, S. S., Petersen, T. H., Paulson, O. B. & Nielsen, J. B., 2006.

Changes in corticospinal drive to spinal motoneurons following visuo-motor skill learning in humans

Perez, M. A., Jensen, J. L. & Nielsen, J. B., 2006, In : Journal of Physiology. 573, 3, p. 843-855

Det motoriske system

Nielsen, J. B., 2006, *Neurologi og Neurorehabilitering*. Wæhrens, E., Winkel, A. & Gyiring, J. (eds.). København: Munksgaard, p. 35-59

Growth-rate regulated genes have profound impact on interpretation of transcriptome profiling in *Saccharomyces cerevisiae*

Regenberg, B., Grotkjaer, T., Winther, O., Fausbøll, A., Akesson, M., Bro, C., Hansen, L. K., Brunak, S. & Nielsen, J., 2006, In : Genome Biology (Online Edition). 7, 11, p. R107

Motor cortical adaptations following 2 weeks of lower limb immobilization

Jensen, J. L., Christensen, M. S., Petersen, T. H., Geertsen, S. S. & Nielsen, J. B., 2006, *Strength Training for Sport, Health, Aging and Rehabilitation*. Aagaard, P., Madsen, K., Magnusson, P. & Bojsen-Møller, J. (eds.). University of Southern Denmark, p. 183-184

Motor cortical adaptations to 2 weeks of lower limb immobilization

Jensen, J. L., Christensen, M. S., Petersen, T. H., Geertsen, S. S. & Nielsen, J. B., 2006. 1 p.

Neural adaptations to progressive resistance training investigated by fMRI and transcranial magnetic stimulation

Geertsen, S. S., Petersen, T. H., Jensen, J. L., Christensen, M. S. & Nielsen, J. B., 2006, *Strength Training for Sport, Health, Aging and Rehabilitation*. Aagaard, P., Madsen, K., Magnusson, P. & Bojsen-Møller, J. (eds.). University of Southern Denmark, p. 110

Spasticity-assessment: a review

Biering-Sørensen, F., Nielsen, J. B. & Klinge, K. P., 2006, In : *Spinal Cord*. 44, 12, p. 708-722

Spinal reflex adaptations following 2 weeks of lower limb immobilization

Jensen, J. L. & Nielsen, J. B., 2006, *Strength Training for Sport, Health, Aging and Rehabilitation*. Aagaard, P., Madsen, K., Magnusson, P. & Bojsen-Møller, J. (eds.). University of Southern Denmark, p. 181-182

Increase in H-reflex gain following 1 week of immobilization

Jensen, J. L., Sørensen, M. & Nielsen, J. B., 2005. 1 p.

Motor skill training and strength training are associated with different plastic changes in the central nervous system

Jensen, J. L., Marstrand, P. C. D. & Nielsen, J. B., 2005, In : *Journal of Applied Physiology*. 99, 4, p. 1558-1568

Organization of common synaptic drive to motoneurons during fictive locomotion in the spinal cat

Nielsen, J. B., Conway, B. A., Halliday, D. M., Perreault, M-C. & Hultborn, H. R. A., 2005, In : *Journal of Physiology*. 569, 1, p. 291-304

Physiological roles for persistent inward currents in motoneurons: Insights from the central respiratory drive

Kirkwood, P., Denton, M. E., Wienecke, J., Nielsen, J. B. & Hultborn, H., 2005, In : *Biocybernetics and Biomedical Engineering*. 25, 3, p. 31-38 8 p.

Presynaptic control of group Ia afferents in relation to acquisition of a visuo-motor skill in healthy humans

Perez, M. A., Lungholt, B. K. S. & Nielsen, J. B., 2005, In : *Journal of Physiology*. 568, 1, p. 343-354

Reduction of common synaptic drive to ankle dorsiflexor motoneurons during walking in patients with spinal cord lesion

Hansen, N. L., Conway, B. A., Halliday, D. M., Hansen, S., Pyndt, H. S., Biering-Sørensen, F. & Nielsen, J. B., 2005, In : *Journal of Neurophysiology*. 94, 2, p. 934-942

Short-term adaptations in spinal cord circuits evoked by repetitive transcranial magnetic stimulation: possible underlying mechanisms

Perez, M. A., Lungholt, B. K. S. & Nielsen, J. B., 2005, In : *Experimental Brain Research*. 162, 2, p. 202-212

Stretch reflex regulation in healthy subjects and patients with spasticity

Nielsen, J. B., Petersen, N., Crone, C. & Sinkjær, T., 2005, In : *Neuromodulation*. 8, 1, p. 49-57

The effect of penile vibratory stimulation on male fertility potential, spasticity and neurogenic detrusor overactivity in spinal cord lesioned individuals

Biering-Sørensen, F., Læssøe, L., Sønksen, J. O. R., Bagi, P., Nielsen, J. B. & Kristensen, J. K., 2005, In : *Acta Neurochirurgica - Supplements only*. 93, p. 159-163 13 p.

Ankle extensor proprioceptors contribute to the enhancement of the soleus EMG during the stance phase of human walking

Grey, M. J., Mazzaro, N., Nielsen, J. B. & Sinkjær, T., 2004, In : *Canadian Journal of Physiology and Pharmacology*. 82, 8-9, p. 610-616

Antispastic effect of penile vibration in men with spinal cord lesion

Læssøe, L., Nielsen, J. B., Biering-Sørensen, F. & Sønksen, J. O. R., 2004, In : *Archives of Physical Medicine and Rehabilitation*. 85, 6, p. 919-924

Menneskets motoriske funktioner: Kompendium

Nielsen, J. B., 2004, København: Institut for Idræt, Københavns Universitet. 98 p.

Motor skill training induces changes in the excitability of the leg cortical area in healthy humans

Perez, M. A., Lungholt, B. K. S., Nyborg, K. & Nielsen, J. B., 2004, In : Experimental Brain Research. 159, 2, p. 197-205

Reciprocal inhibition and corticospinal transmission in the arm and leg in patients with autosomal dominant pure spastic paraparesis (ADPSP)

Crone, C., Petersen, N., Nielsen, J. E., Hansen, N. L. & Nielsen, J. B., 2004, In : Brain. 127, 12, p. 2693-2702

Sensorimotor integration at spinal level as a basis for muscle coordination during voluntary movement in humans

Nielsen, J. B., 2004, In : Journal of Applied Physiology. 96, 5, p. 1961-1967 7 p.

The effect of transcranial magnetic stimulation and peripheral nerve stimulation on corticomuscular coherence in humans

Hansen, N. L. & Nielsen, J. B., 2004, In : Journal of Physiology. 561, 1, p. 295-306

The suppression of the long-latency stretch reflex in the human tibialis anterior muscle by transcranial magnetic stimulation

Van Doornik, J., Masakado, Y., Sinkjær, T. & Nielsen, J. B., 2004, In : Experimental Brain Research. 157, 3, p. 403-406

Appearance of reciprocal facilitation of ankle extensors from ankle flexors in patients with stroke or spinal cord injury

Crone, C., Johnsen, L. L., Biering-Sørensen, F. & Nielsen, J. B., 2003, In : Brain. 126, 2, p. 495-507 13 p.

Changes in reciprocal inhibition across the ankle joint with changes in external load and pedaling rate during bicycling

Pyndt, H. S., Laursen, M. & Nielsen, J. B., 2003, In : Journal of Neurophysiology. 90, 5, p. 3168-3177

Functional coupling of motor units is modulated during walking in human subjects

Halliday, D. M., Conway, B. A., Christensen, L. O. D., Hansen, N. L., Petersen, N. & Nielsen, J. B., 2003, In : Journal of Neurophysiology. 89, 2, p. 960-968

How we walk: Central control of muscle activity during human walking

Nielsen, J. B., 2003, In : Neuroscientist. 9, 3, p. 195-204 10 p.

Investigating human motor control by transcranial magnetic stimulation

Petersen, N., Pyndt, H. S. & Nielsen, J. B., 2003, In : Experimental Brain Research. 152, 1, p. 1-16 16 p.

Modulation of transmission in the corticospinal and group Ia afferent pathways to soleus motoneurons during bicycling

Pyndt, H. S. & Nielsen, J. B., 2003, In : Journal of Neurophysiology. 89, 1, p. 304-314

Variable amplification of synaptic input to cat spinal motoneurons by dendritic persistent inward current

Hultborn, H. R. A., Denton, M. E., Wienecke, J. & Nielsen, J. B., 2003, In : Journal of Physiology. 552, 3, p. 945-952

Afferent feedback in the control of human gait

Nielsen, J. B. & Sinkjær, T., 2002, In : J Electromyogr Kinesiol. 3, p. 213-217

Cortical excitability and motor task in man: an investigation of the wrist extensor motor area

Aimonetti, J-M. P. G. & Nielsen, J. B., 2002, In : Experimental Brain Research. 4, p. 431-439

Corticospinal transmission to leg motoneurons in human subject with deficient glycinergic inhibition

Nielsen, J. B., Tijssen, M. A., Hansen, N. L., Crone, C., Petersen, N., Brown, P., Van Dijk, J. G. & Rothwell, J. C., 2002, In : Journal of Physiology. 544, 2, p. 631-640 10 p.

Coupling of antagonistic ankle muscles during co-contraction in humans

Hansen, S., Hansen, N. L., Christensen, L. O. D., Petersen, N. & Nielsen, J. B., 2002, In : Experimental Brain Research. 146, 3, p. 282-292 11 p.

Interaction between peripheral afferent activity and presynaptic inhibition of Ia afferents in the cat

Enríquez-Denton, M., Morita, H., Christensen, L. O. D., Petersen, N., Sinkjær, T. & Nielsen, J. B., 2002, In : Journal of Neurophysiology. 88, 4, p. 1664-1674

Modulation of heteronymous reflexes from ankle dorsiflexors to hamstring muscles during human walking

Marchand-Pauvert, V. & Nielsen, J. B., 2002, In : Experimental Brain Research. 142, p. 402-408

Modulation of non-monosynaptic excitation from ankle dorsiflexor afferents to quadriceps motoneurons during human walking

Marchand-Pauvert, V. & Nielsen, J. B., 2002, In : Journal of Physiology. 538, p. 647-657

Motoneuronal drive during human walking

Nielsen, J. B., 2002, In : Brain Research Reviews. 40, 1-3, p. 192-201

Cerebral functional anatomy of voluntary contractions of ankle muscles in man

Johannsen, P., Christensen, L. O. D., Sinkjær, T. & Nielsen, J. B., 2001, In : Journal of Physiology. 535, p. 397-406

Changes in intracortical excitability induced by stimulation of wrist afferents in man

Aimonetti, J-M. P. G. & Nielsen, J. B., 2001, In : Journal of Physiology. 534, p. 891-902

Group II muscle afferents probably contribute to the medium latency soleus stretch reflex during walking in humans

Grey, M. J., Ladouceur, M., Andersen, J. B., Nielsen, J. B. & Sinkjær, T., 2001, In : Journal of Physiology. 534, 3, p. 925-933 9 p.

Modulation of presynaptic inhibition and disynaptic reciprocal Ia inhibition during voluntary movement in spasticity

Morita, H., Crone, C., Christenhuis, D., Petersen, N. & Nielsen, J. B., 2001, In : Brain. 124, 4, p. 826-837 12 p.

Patients with the major and minor form of hyperekplexia differ with regards to disynaptic reciprocal inhibition between ankle flexor and extensor muscles

Crone, C., Nielsen, J. B., Petersen, N., Tijssen, M.J. & van Dijk, J.G., 2001, In : Experimental Brain Research. 140, p. 190-197 8 p.

Suppression of EMG activity by transcranial magnetic stimulation in human subjects during walking

Petersen, N. C., Butler, J. E., Marchand-Pauvert, V., Fisher, R., Ledebt, A., Pyndt, H. S., Hansen, N. L. & Nielsen, J. B., 2001, In : Journal of Physiology. 537, 2, p. 651-656 6 p.

Synchronization of lower limb motor unit activity during walking in human subjects

Hansen, N. L., Hansen, S., Christensen, L. O. D., Petersen, N. C. & Nielsen, J. B., 2001, In : Journal of Neurophysiology. 86, 3, p. 1266-1276 11 p.

Transcranial magnetic stimulation and stretch reflexes in the tibialis anterior muscle during human walking

Christensen, L. O. D., Andersen, J. B., Sinkjær, T. & Nielsen, J. B., 2001, In : Journal of Physiology. 531, p. 545-557

Cerebral activation during bicycle movements in man

Christensen, L. O. D., Johannsen, T., Sinkjær, T., Petersen, N., Pyndt, H. S. & Nielsen, J. B., 2000, In : Experimental Brain Research. 135, p. 66-72

Differential changes in corticospinal and Ia inputs to tibialis anterior and soleus motor neurones during voluntary contraction in man.

Morita, H., Olivier, E., Baumgarten, J., Petersen, N., Christensen, L. O. D. & Nielsen, J. B., 2000, In : *Acta Physiologica Scandinavica*. 170, 1, p. 65-76 12 p.

Distribution of non-monosynaptic excitation to early and late recruited units in human forearm muscles

Marchand-Pauvert, V., Mazevet, D., Nielsen, J. B., Petersen, N. & Pierrot-deseilligny, E., 2000, In : *Experimental Brain Research*. 134, p. 274-278 5 p.

Evidence for transcortical reflex pathways in the lower limb of man

Christensen, L. O. D., Petersen, N., Andersen, J. B., Sinkjær, T. & Nielsen, J. B., 2000, In : *Progress in Neurobiology*. 62, p. 251-272

Hjernens styring af bevægelser hos mennesker

Nielsen, J. B., 2000, In : *Ugeskrift for læger*. 162, 22, p. 3169-3175 7 p.

Major role for sensory feedback in soleus EMG activity in the stance phase of walking in man

Sinkjær, T., Andersen, J. B., Ladouceur, M., Christensen, L. O. D. & Nielsen, J. B., 2000, In : *Journal of Physiology*. 523, 3, p. 817-827 11 p.

Presynaptic control of transmission along the pathway mediating disynaptic reciprocal inhibition in the cat

Enriquez-Denton, M., Nielsen, J. B., Perreault, M.-C., Morita, H., Petersen, N. & Hultborn, H., 2000, In : *Journal of Physiology*. 526, 3, p. 623-637 15 p.

Reciprocal inhibition in hemiplegic patients - a longitudinal study

Crone, C., Johnsen, L. L. & Nielsen, J. B., 2000, *Supplements to clinical Neurophysiology, Vol. 53*. Elsevier, p. 187-191

Synchronization of lower limb motor units in spastic patients

Hansen, N. L., Hansen, S., Crone, C., Christensen, L. O. D., Petersen, N., Nielsen, J. E., Biering-Sørensen, F. & Nielsen, J. B., 2000, *Supplements to Clinical Neurophysiology, Vol. 53*. Elsevier, p. 178-185

The effect of baclofen on the transmission in spinal pathways in spastic multiple sclerosis patients

Ørsnes, G., Crone, C., Krarup, C., Petersen, N. & Nielsen, J. B., 2000, In : *Clinical Neurophysiology*. 111, 8, p. 1372-1379 8 p.

Evidence suggesting that a transcortical reflex pathway contributes to cutaneous reflexes in the tibialis anterior muscle during walking in man

Christensen, L. O. D., Morita, H., Petersen, N. & Nielsen, J. B., 1999, In : *Experimental Brain Research*. 124, 1, p. 59-68 10 p.

Modulation of reciprocal inhibition between ankle extensors and flexors during walking in man

Petersen, N., Morita, H. & Nielsen, J. B., 1999, In : *Journal of Physiology*. 520, 2, p. 605-619 15 p.

On the comparability of H-reflexes and MEPs

Nielsen, J. B., Morita, H., Baumgarten, J., Petersen, N. & Christensen, L. O. D., 1999, In : *Electroencephalography and Clinical Neurophys Suppl.* 51, p. 93-101 8 p.

Recruitment of extensor-carpi-radialis motor units by transcranial magnetic stimulation and radial-nerve stimulation in human subjects

Morita, H., Baumgarten, J., Petersen, N., Christiansen, L. O. D. & Nielsen, J. B., 1999, In : *Experimental Brain Research*. 128, 4, p. 557-562 6 p.

Co-contraction of antagonistic muscles in man

Nielsen, J. B., 1998, In : *Danish Medical Bulletin*. 45, 4, p. 423-435 13 p.

Corticospinal function during human walking

Christensen, LOD., Petersen, N., Morita, H. & Nielsen, J. B., 1998, In : New York Academy of Sciences. 16, p. 546-549 4 p.

Does a C3-C4 propriospinal system transmit corticospinal excitation in the primate? An investigation in the macaque monkey

Maier, MA., Illert, M., Kirkwood, P. A., Nielsen, J. B. & Lemon, RN., 1998, In : Journal of Physiology. 511, 1, p. 191-212 22 p.

Evaluation of reciprocal inhibition of the soleus H-reflex during tonic plantar flexion in man

Petersen, N., Morita, H. & Nielsen, J. B., 1998, In : Journal of Neuroscience Methods. 84, p. 1-8 8 p.

Evidence that a transcortical pathway contributes to stretch reflexes in the tibialis anterior muscle in man

Petersen, N., Christensen, LOD., Morita, H., Sinkjær, T. & Nielsen, J. B., 1998, In : Journal of Physiology. 512, 1, p. 267-276 10 p.

Gating of somatosensory evoked potentials during voluntary movement of the lower limb in man

Morita, H., Petersen, N. & Nielsen, J. B., 1998, In : Experimental Brain Research. 120, 2, p. 143-152 10 p.

Pharmacologically evoked fictive motor patterns in the acutely spinalized Marmoset monkey (*Callithrix jacchus*)

Fedirchuk, B., Nielsen, J. B., Petersen, N. & Hultborn, H., 1998, In : Experimental Brain Research. 122, 3, p. 351-361 11 p.

Sensitivity of H-reflexes and stretch reflexes to presynaptic inhibition in humans

Morita, H., Petersen, N., Christensen, LOD., Sinkjær, T. & Nielsen, J. B., 1998, In : Journal of Neurophysiology. 80, 2, p. 610-620 11 p.

The effect of transcranial magnetic stimulation on the soleus H-reflex during human walking

Petersen, N., Christensen, LOD. & Nielsen, J. B., 1998, In : Journal of Physiology. 513, 2, p. 599-610 12 p.

Evidence suggesting a transcortical pathway from cutaneous foot afferents to tibialis anterior motoneurons in man

Nielsen, J. B., Petersen, N. & Fedirchuk, B., 1997, In : Journal of Physiology. 501, p. 473-484 12 p.

On the mechanism of the post-activation depression of the H-reflex in human subjects

Hultborn, H., Illert, M., Nielsen, J. B., Ballegaard, M., Paul, A. & Wiese, H., 1997, In : Experimental Brain Research. 108, p. 450-462 13 p.

A second reply (Are H-reflexes and F-responses equally sensitive to changes in motoneuronal excitability?)

Hultborn, H. & Nielsen, J. B., 1996, In : Muscle & Nerve. 19, p. 1347-1348 2 p.

Evidence of facilitation of soleus-coupled Renshaw cells during voluntary co-contraction of antagonistic ankle muscles in man

Nielsen, J. B. & Pierrot-Deseilligny, E., 1996, In : Journal of Physiology. 493, p. 603-611 9 p.

Central control of reciprocal inhibition during fictive dorsiflexion in man

Nielsen, J. B., Crone, C., Sinkjær, T., Toft, E. & Hultborn, H., 1995, In : Experimental Brain Research. 104, p. 99-106 8 p.

Changes in the effect of magnetic brain stimulation accompanying voluntary dynamic contraction in man

Nielsen, J. B. & Petersen, N., 1995, In : Journal of Physiology. 484, p. 777-789 13 p.

Changes in transmission across synapses of Ia afferents in spastic patients

Nielsen, J. B., Petersen, N. & Crone, C., 1995, In : Brain. 118, p. 995-1004 10 p.

Evidence favouring different descending pathways to soleus motoneurons activated by magnetic brain stimulation in man
Nielsen, J. B. & Petersen, N., 1995, In : Journal of Physiology. 486, p. 779-788 10 p.

H-reflexes and F-responses are not equally sensitive to changes in motoneuronal excitability
Hultborn, H. & Nielsen, J. B., 1995, In : Muscle & Nerve. 18, p. 1471-1474 4 p.

Ikkeinvasiv transkranial hjernestimulation hos mennesker
Nielsen, J. B., 1995, In : Ugeskrift for læger. 157, 18, p. 2559-2564 6 p.

Latency of effects evoked by electrical and magnetic brain stimulation in lower limb motoneurons in man
Nielsen, J. B., Petersen, N. & Ballegaard, M., 1995, In : Journal of Physiology. 484, p. 791-802 12 p.

Mechanical and electromyographic analysis of reciprocal inhibition at the human ankle joint
Sinkjær, T., Nielsen, J. B. & Toft, E., 1995, In : Journal of Neurophysiology. 74, 2, p. 849-855 7 p.

Central control of disynaptic reciprocal inhibition in man
Crone, C. & Nielsen, J. B., 1994, In : Acta Physiologica Scandinavica. 152, p. 351-363 13 p.

Discharge of muscle afferents during voluntary co-contraction of antagonistic ankle muscles in man
Nielsen, J. B., Nagaoka, M., Kagamihara, Y., Kakuda, N. & Tanaka, R., 1994, In : Neuroscience Letters. 170, p. 277-280 3 p.

Disynaptic reciprocal inhibition of ankle extensors in spastic patients
Crone, C., Nielsen, J. B., Petersen, N., Ballegaard, M. & Hultborn, H., 1994, In : Brain. 117, p. 1161-1168 8 p.

Further evidence of increased motor cortex excitability during tonic plantar flexion in humans
Nielsen, J. B., 1994, In : Acta Physiologica Scandinavica. 152, p. 341-343 3 p.

Is presynaptic inhibition distributed to corticospinal fibres in man?
Nielsen, J. B. & Petersen, N., 1994, In : The Journal of Physiology. 477, 1, p. 47-58 12 p.

Segmental reflexes and ankle joint stiffness during co-contraction of antagonistic muscles
Nielsen, J. B., Sinkjær, T., Toft, E. & Kagamihara, Y., 1994, In : Experimental Brain Research. 102, p. 350-358 9 p.

Synchronization of human leg motor units during cocontraction in man
Nielsen, J. B. & Kagamihara, Y., 1994, In : Experimental Brain Research. 102, p. 84-94 11 p.

Differential projection of the sural nerve to early and late recruited tibialis anterior motor units: Change of the recruitment gain
Nielsen, J. B. & Kagamihara, Y., 1993, In : Acta Physiologica Scandinavica. 147, p. 385-401 17 p.

H-reflexes are less depressed following muscle stretch in spastic spinal cord injured patients than in healthy subjects
Nielsen, J. B., Petersen, N., Ballegaard, M., Biering-Sørensen, F. & Kiehn, O., 1993, In : Experimental Brain Research. 97, p. 173-176 4 p.

H-reflexes are smaller in dancers from the Royal Danish Ballet than in well-trained athletes
Nielsen, J. B., Crone, C. & Hultborn, H., 1993, In : European Journal of Applied Physiology. 66, p. 116-121 6 p.

Task-related changes in the effect of magnetic brain stimulation on spinal neurones in man
Nielsen, J. B., Petersen, N., Deuschl, G. & Ballegaard, M., 1993, In : Journal of Physiology. 471, p. 223-243 21 p.

The regulation of the presynaptic inhibition during co-contraction of antagonistic muscles in man
Nielsen, J. B., 1993, In : Journal of Physiology. 464, p. 575-593 19 p.

Central facilitation of Ia inhibition during tonic dorsiflexion revealed after blockade of peripheral feedback
Nielsen, J. B., Kagamihara, Y., Crone, C. & Hultborn, H., 1992, In : Experimental Brain Research. 88, p. 651-656 6 p.

Changes in motor cortex excitability preceding voluntary ramp-and-hold plantarflexion in man
Nielsen, J. B. & Petersen, N., 1992, In : Acta Physiologica Scandinavica. 146, p. 399-400 2 p.

The regulation of disynaptic reciprocal Ia inhibition during co-contraction of antagonistic muscles in man
Nielsen, J. B. & Kagamihara, Y., 1992, In : Journal of Physiology. 456, p. 373-391 19 p.

Pattern of cutaneous inhibition of the propriospinal-like excitation to human upper limb motoneurons
Nielsen, J. B. & Pierrot-Deseilligny, E., 1991, In : Journal of Physiology. 434, p. 35-45 11 p.

Sensitivity of monosynaptic test reflexes to facilitation and inhibition as a function of the test reflex size: a study in man and the cat
Crone, C., Hultborn, H., Mazieres, L., Morin, C., Nielsen, J. B. & Pierrot-Deseilligny, E., 1990, In : Experimental Brain Research. 81, p. 35-45 11 p.

Methodological implications of the post activation depression of the soleus H-reflex in man
Crone, C. & Nielsen, J. B., 1989, In : Experimental Brain Research. 416, p. 28-32 5 p.

Spinal mechanisms in man contribution to reciprocal inhibition during voluntary dorsiflexion of the foot
Crone, C. & Nielsen, J. B., 1989, In : Journal of Physiology. 416, p. 255-272 18 p.

Reciprocal Ia inhibition between ankle flexors and extensors in man
Crone, C., Hultborn, H., Jespersen, B. & Nielsen, J. B., 1987, In : Journal of Physiology. 389, p. 163-185 18 p.