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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

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København N.
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5 Jan 2009 → 15 Sep 2020

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19 Jul 2021 → 18 Jul 2021

Publications

A scoping review on muscle cramps and spasms in upper motor neuron disorder-two sides of the same coin?
Therkildsen, Eva Rudjord, Kaster, Pernille Ulrik & Nielsen, Jens Bo, 2024, In: *Frontiers in Neurology*. 15, 9 p., 1360521.

Accurate Monitoring of 24-h Real-World Movement Behavior in People with Cerebral Palsy Is Possible Using Multiple Wearable Sensors and Deep Learning
Novosel, Ivana Bardino, Ritterband-Rosenbaum, Anina, Zampoukis, G., Nielsen, Jens Bo & Lorentzen, Jakob, 2023, In: *Sensors*. 23, 22, 13 p., 9045.

Dynamics of cortical and corticomuscular connectivity during planning and execution of visually guided steps in humans
Spedden, Meaghan Elizabeth, Beck, M. M., West, T. O., Farmer, S. F., Nielsen, Jens Bo & Lundbye-Jensen, Jesper, 2023, In: *Cerebral Cortex*. 33, 2, p. 258–277 20 p.

Oral Motor Impairments Contribute to Weight Status of Adults with Severe Cerebral Palsy

Lyster, Aslak Emil, Hansen, S. L., Andersen, C. T., Nielsen, Jens Bo, Westerterp, K., Wouters, L., Kiens, Bente & Ritterband-Rosenbaum, Anina, 2023, In: *Nutrients*. 15, 24, 14 p., 5042.

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Corticomuscular coherence is reduced in relation to dorsiflexion fatigability to the same extent in adults with cerebral palsy as in neurologically intact adults

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The effect of cathodal transspinal direct current stimulation on tibialis anterior stretch reflex components in humans

Therkildsen, Eva Rudjord, Nielsen, Jens Bo, Beck, M. M., Yamaguchi, T. & Lorentzen, Jakob, 2022, In: *Experimental Brain Research*. 240, p. 159-171 13 p.

A simple, clinically applicable motor learning protocol to increase push-off during gait: A proof-of-concept

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Willerslev-Olsen, Maria, Lorentzen, Jakob, Røhder, Katrine, Ritterband-Rosenbaum, A., Justiniano, M., Guzzetta, A., Lando, A. V., Jensen, A. M. B., Greisen, Gorm, Ejlersen, S., Pedersen, L. Z., Andersen, B., Liphay Behrend, P. & Nielsen, Jens Bo, 2021, In: *BMJ Open*. 11, 7, e044674.

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Increased Ankle Plantar Flexor Stiffness Is Associated With Reduced Mechanical Response to Stretch in Adults With CP

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Neuroplasticity at Home: Improving Home-Based Motor Learning Through Technological Solutions. A Review
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The benefits of strength training in cerebral palsy

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Sustained involuntary muscle activity in cerebral palsy and stroke: same symptom, diverse mechanisms

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

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

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Aldring

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Det autonome nervessystem

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