

Muscle damage in response to a single bout of high intensity concentric exercise in patients with Pompe disease

Váczi M, Nagy SA, Kőszegi T, Misovics B, Szabó E, Müller É, Perlaki G, Orsi G, Pál J, Bogner P, Illes Z. *Ann Transl Med*, 9(5): 389, 2021.

Letöltés helye:

[Muscle damage in response to a single bout of high intensity concentric exercise in patients with Pompe disease \(nih.gov\)](#)

The indirect role of gluteus medius muscle in knee Joint stability during unilateral vertical jump and landing on unstable surface in young trained males

Sebesi B, Fésüs Á, Varga M, Atlasz T, Vadász K, Mayer P, Vass L, Meszler B, Balázs B, Váczi M. *Appl Sci*, 11(16): 7421, 2021.

Letöltés helye:

[Applied Sciences | Free Full-Text | The Indirect Role of Gluteus Medius Muscle in Knee Joint Stability during Unilateral Vertical Jump and Landing on Unstable Surface in Young Trained Males \(mdpi.com\)](#)

Relationship between Anthropometric, Physical and Hormonal Parameters among Pre-Pubertal Handball Players

Cselkó A, Szabó EI, Váczi M, Kőszegi T, Tékus E, Wilhelm M. *Int J Environ Res Public Health*, 18(19): 9977, 2021.

Letöltés helye:

<https://www.mdpi.com/1660-4601/18/19/9977>

A mindennapos testnevelés hatása a Dél-Dunántúl lakosságának sportolási szokásaira és életmódjára

Vargáné Szalai K, Varga T, Marton G. *Területfejlesztés és Innováció*, 14(1-2) pp. 17-23. 2021.

Letöltés helye:

[teruletfejlesztés és innováció 2021 1 2 vargane szalai et al.pdf \(terinno.hu\)](#)

Functional relevance of resistance training-induced neuroplasticity in health and disease.

Hortobágyi T, del Olmo M, Márquez S, Manca A, Gruber M, Granacher U, Taube W, Lundbye-Jensen J, Colomer-Poveda D. *Neuroscience and Biobehavioral Reviews*, 122:79-91, 2021.

Letöltés helye:

<https://www.sciencedirect.com/science/article/pii/S0149763420306941>

Effects of exercise dose and detraining duration on mobility at late mid-life: a randomized clinical trial.

Hortobágyi T, Deák D, Farkas D, Blényesi E, Török K, Granacher U, Tollár J. *Gerontology*, 67:403-414, 2021.

Letöltés helye:

<https://www.karger.com/Article/FullText/513505>

Introduction to Neuromechanics, a new MDPI open access section of Biomechanics.

Hortobágyi T. *Biomechanics Neuromechanics*, 1:290-292, 2021.

Letöltés helye:

<https://www.mdpi.com/2673-7078/1/3/24>

Detraining slows and maintenance training over 6 years halts parkinsonian symptoms-progression.

Hortobágyi T, Sipos D, Borbély G, Áfra Gy, Reichardt-Varga E, Nieboer W, Tamási K, Tollár J. *Frontiers of Neurology*, 12:737726, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34867721/>

A single session of submaximal grip training with or without anodal-TDCS produces no cross-education of maximal grip force.

Alibazi RJ, Frazer AK, Tallent T, Pearce AJ, Hortobágyi T, Kidgell D. *Brazilian Journal of Motor Behavior*, In press, 2021.
Letöltés helye:

<https://socibracom.com/bjmb/index.php/bjmb/article/view/223>

High force unimanual handgrip contractions increase ipsilateral sensorimotor activation and functional connectivity.

Andrushko JW, Gould LA, Renshaw DW, Ekstrand C, Hortobágyi T, Borowsky R, Farthing JP. *Neuroscience*, 452:111-125, 2021.

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/33197497/>

Task-specificity and brain adaptations after balance learning in young adults.

Bakker LBM, Nandi T, Lamoth CJC, Hortobágyi T. *Human Movement Science*, 78:102833, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34175684/>

Neural correlates of motor skill learning are dependent on both age and task difficulty.

Bootsma JM, Caljouw SR, Veldman MP, Maurits NM, Rothwell JC, Hortobágyi. *Frontiers of Aging Neuroscience*, 13:643132, 2021.
Letöltés helye:

<https://www.frontiersin.org/articles/10.3389/fnagi.2021.643132/full>

The Interaction between mobility status and exercise specificity in older adults.

Brahms CM, Hortobágyi T, Kressig RW, Granacher U. *Exercise and Sports Science Reviews*, 49:15-22, 2021.

Letöltés helye:

https://journals.lww.com/acsm-essr/fulltext/2021/01000/the_interaction_between_mobility_status_and.3.aspx

Home-based exercise programmes improve physical fitness of older adults: A PRISMA-compliant systematic review and meta-analysis with relevance for COVID-19.

Chaabene H, Prieske O, Herz M, Moran J, Höhne J, Kliegl R, Ramirez-Campillo R, Behm DG, Hortobágyi T, Granacher U. *Ageing Research Reviews*, 67: 101-265, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/33571702/>

Training load but not fatigue affects cross-education of maximal voluntary force.

Colomer-Poveda D, Romero-Arenas S, Fariñas J, Iglesias-Soler E, Hortobágyi T, Márquez G. *Scandinavian Journal of Medicine and Science in Sports*, 31:313-324, 2021.

Letöltés helye:

<https://onlinelibrary.wiley.com/doi/full/10.1111/sms.13844>

Voluntary suppression of associated activity decreases force steadiness in the active hand.

Colomer-Poveda D, Zijdwind I, Dolstra J, Márquez G, Hortobágyi T. *European Journal of Neuroscience*, 1-17, 2021.

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34184345/>

Neuromodulation by non-invasive brain stimulation (NIBS): a step back to move forward.

del Olmo MF, Sanchez MS, Sanchez GM, Kidgell D, Milot MH, Rothwell JC, Hortobágyi T. *Brazilian Journal of Motor Behavior*, In Press, 2021.

Letöltés helye:

<https://socibracom.com/bjmb/index.php/bjmb/article/view/213>

Cross-education: Is it a viable method for rehabilitation?

Farthing JP, Zehr EP, Hendy AM, Andrushko JW, Manca A, Deriu F, Loennek J, Minetto M, Hortobágyi T. *Brazilian Journal of Motor Behavior*, 15:1-4, 2021.
Letöltés helye:

<https://socibracom.com/bjmb/index.php/bjmb/article/view/215>

Measures of physical fitness improve prediction of kayak and canoe sprint performance in young kayakers and canoeists.

Gäbler G, Prieske O, Elferink-Gemser M, Hortobágyi T, Warnke T, Granacher U. *Journal of Strength and Conditioning Research*, In press, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34027911/>

Strength training intensity and volume affect performance of young kayakers/canoeists.

Gäbler G, Berberyan H, Prieske O, Elferink-Gemser M, Hortobágyi T, Warnke T, Granacher U. *Frontiers of Physiology*, 12:686744, 2021.
Letöltés helye:

<https://www.frontiersin.org/articles/10.3389/fphys.2021.686744/full>

Contralateral effects of unilateral exercise training: modified Delphi consensus to establish key aspects of cross-education.

Manca A, Hortobágyi T, Carroll TJ, Enoka R, Farthing J, Gandevia S, Kidgell D, Taylor J, Deriu F. *Sports Medicine*, 51:11-20, 2021.
Letöltés helye:

<https://link.springer.com/article/10.1007/s40279-020-01377-7>

A below-knee compression garment reduces fatigue-induced strength loss but not knee joint position sense errors.

Négyesi J, Zhang LY, Jin RN, Hortobágyi T, Nagatomi R. *European Journal of Applied Physiology*, 121:219-229, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/33025229/>

Low-intensity Resistance Training with Moderate Blood Flow Restriction Appears to be Safe and Increases Skeletal Muscle Strength and Size in Cardiovascular Surgery Patients: A Pilot Study.

Ogawa H, Nakajima T, Shibasaki I, Nasuno T, Kaneda H, Katayanagi S, Ishizaka H, Mizushima Y, Uematsu A, Yasuda T, Yagi H, Toyoda S, Hortobágyi T, Mizushima T, Inoue T, Fukuda H. *Journal of Clinical Medicine*, 10(3):547, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/33540756/>

Older compared with younger adults performed 467 fewer sit-to-stand trials, accompanied by small changes in muscle activation and voluntary force.

dos Santos PCR, Lamothe C, Gobbi LTB, Zijdewind CAT, Barbieri FA, Hortobágyi T. *Frontiers of Aging Neuroscience*. 13:679282, 2021.
Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34267644/>

Being physically active minimizes the effects of leg muscle fatigue on obstacle negotiation in people with Parkinson's disease.

dos Santos PCR, Barbieri FA, Orcioli-Silva D, Beretta, VS, Hortobágyi T, Gobbi LTB. *Journal of Biomechanics*, 124:110568, 2021.

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34171679/>

Small enhancement of bimanual typing performance after 20 sessions of tDCS in healthy young adults.

Sevilla-Sanchez M, Hortobágyi T, Fogelson N, Iglesias-Soler E, Carballeira E, Fernandez-del-Olmo M. *Neuroscience*, 466:26-35, 2021.

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/33974964/>

High frequency and intensity rehabilitation in 641 subacute ischemic stroke patients.

Tollár J, Nagy F, Csutorás B, Prontvai N, Nagy Z, Török K, Blényesi E, Vajda Z, Farkas D, Tóth B, Repa I, Moizs M, Sipos D, Kedves A, Kovács Á, Hortobágyi T. *Archives of Physical Medicine and Rehabilitation*, 102:9-18, 2021.

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/32861668/>

Age-dependent modulation of motor network connectivity for skill acquisition, consolidation and interlimb transfer after motor practice.

Veldman MP, Maurits NM, Mantini D, Hortobágyi T. *Clinical Neurophysiology*, 132:1790-1801, 2021.

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34130247/>

Age does not affect the muscle activation-joint work relationship during incline and decline walking.

Waanders J, Murgia A, DeVita P, Franz J, Hortobágyi T. *Journal of Biomechanics*, 124:110555, 2021.

Letöltés helye:

<https://www.sciencedirect.com/science/article/pii/S0021929021003353>

Training history-dependent functional role of EMG model-predicted antagonist moments in knee extensor moment generation.

Hortobágyi T, DeVita P, Brady R, Rider P. *Biomechanics Section Neuromechanics* 2:7-20, 2022.

Letöltés helye:

<https://www.mdpi.com/2673-7078/2/1/2>

Comparative effectiveness of four exercise interventions followed by two years of exercise maintenance in multiple sclerosis: A randomized control trial.

Hortobágyi T, Nagy F, Tóth B, Török K, Szita K, Csutorás B, Moizs M, Tollár J. *Archives of Physical Medicine and Rehabilitation*, In press, 2022.

Letöltés helye:

Age- and muscle-specific reliability of muscle architecture measurements assessed by two-dimensional panoramic ultrasound.

Hagoort I, Hortobágyi T, Vuillerme N, Lamothe CJC, Murgia A. *BioMedical Engineering, In Press, 2022.*
Letöltés helye:

Outcome-dependent effects of walking speed and age on quantitative and qualitative gait measures.

Hagoort I, Vuillerme N, Hortobágyi T, Lamothe CJC. *Gait and Posture, 93:39-46, 2022.*
Letöltés helye:

<https://www.sciencedirect.com/science/article/pii/S0966636222000017>

Conservative interventions to improve foot progression angle and clinical measures in orthopedic and neurological patients: A systematic review and meta-analysis.

Schelhaas R, Hijmans JM, Hortobágyi T, Hajibozorgi M, Greve C. *Journal of Biomechanics, 130:110831, 2022.*
Letöltés helye:

pure.rug.nl/ws/portalfiles/portal/193558840/1_s2.0_S002192902100590X_main.pdf

Two days of simulated CrossFit competition affects autonomic nervous system but not anaerobic power or fatigue.

Zecchin-Oliveira AM, Puggina EF, Granacher U, Hortobágyi T. *Journal of Sports Medicine and Physical Fitness, In press, January 2022.*

Letöltés helye:

<https://pubmed.ncbi.nlm.nih.gov/34931788/>

Postural stability - a comparison between rowers and field sport athletes

Dragan, Marinkovic; Slobodan, Pavlovic; Dejan, Madic; Borislav, Obradovic; Zsolt, Németh; Aleksandra, Belic

Journal of Physical Education and Sport 21: 3 pp. 1525-1532., 8 p. (2021)

DOI:10.7752/jpes.2021.03194

<https://efsupit.ro/images/stories/mai2021/Art%20194.pdf>

The Physical Activity Class Satisfaction Questionnaire (PACSQ) in Greek educational context: Psychometric properties

Grigorios Masadis, Filippou Filippou, Evangelos Bebetos, Stella Mavridou, Olga Kouli, Veroniki Karagiannidou, Dimitris Petanidis, Dimitra Varsami, Dafni-Anastasia Filippou, Zsolt Németh

Acta Gymnica 51 Paper: e2021.018, 7 p. (2021)

https://gymnica.upol.cz/artkey/gym-2021010018_the_physical_activity_class_satisfaction_questionnaire_pacsq_in_greek_educational_context_psychometric_prope.php

Coping with the COVID-19 pandemic: The role of physical activity. An international position statement.

Burhaein, E., Demirci, N., Lourenço, C.C.V., Németh, Z., Phytanza, D.T.P.

International Sports Studies, 43 (1), 52-70.

DOI:10.30819/iss.43-1.05 (2021)

<https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1524898>

Sportolók megküzdési stratégiái bokasérülést követően= Athletes coping strategies after ankle injury

Németh Zsolt, Mittly Veronika, Berényi Károly, Mintál Tibor

Recreation, 11 (3). pp. 14-17

<http://doi.org/10.21486/recreation.2021.11.3.2>

Korcsolyázás motivációja felnőttkorban= Motivation for skating in adulthood

Faragó Diána, Paic Róbert, Németh Zsolt

Recreation 13 (4), 18-21

DOI: 10.21486/recreation.2021.11.4.3

<http://real.mtak.hu/134728/1/2021.11.4.3%20-%20.pdf>

Az aktív iskola koncepciójának megvalósulása a gyakorlatban – A Klaszter iskolafejlesztő pilot program módszere és eredményei

Pigniczkyne Lugos Ilona, Paic Róbert

Magyar Diáksport Szövetség, Budapest 2021

ISBN 978-615-5518-21-8

https://shop.mdsz.hu/wp-content/uploads/2021/12/Klaszter_kezikonyv_ebook.pdf

A hazai utazási szokások változásai a koronavírus-járvány hatására

Csóka László, Paic Róbert, Prisztóka Gyöngyvér, Vargáné Szalai Kata, Varga Tamás, Marton Gergely

Turisztikai és vidékfejlesztési tanulmányok 6:4 pp. 16-27. , 12 p. (2021)

DOI: 10.15170/TVT.2021.06.04.02.

<https://www.turisztikaitanulmanyok.hu/2021/12/29/csoka-laszlo-paic-robert-prisztoka-gyongyver-vargane-szalai-kata-varga-tamas-marton-gergely-a-hazai-utazasi-szokasok-valtozasai-a-koronavirus-jarvany/>

PACAP is Protective Against Cellular Stress in Retinal Pigment Epithelial Cells

Fábián E., Horváth G., Opper B., **Atlasz T.**, Tóth G., Reglődi D.

INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS 27 :
2 pp. 1221-1228. , 8 p. (2021)

<https://link.springer.com/article/10.1007/s10989-021-10162-7>

Stability Test of PACAP in Eye Drops

Kovacs, Anita K.; **Atlasz, Tamas**; Werling, Dora ; Szabo, Edina ; Reglodi, Dora ; Toth, Gabor K.

JOURNAL OF MOLECULAR NEUROSCIENCE 71 : 8 pp. 1567-1574. , 8 p. (2021)

<https://pubmed.ncbi.nlm.nih.gov/32323126/>

The Protective Effects of Endogenous PACAP in Oxygen-Induced Retinopathy

Kvarik, Timea ; Reglodi, Dora ; Werling, Dora ; Vaczy, Alexandra ; Kovari, Petra ; Szabo, Edina ; Kovacs, Krisztina ; Hashimoto, Hitoshi ; Ertl, Tibor ; Gyarmati, Judit, **Atlasz Tamas**

JOURNAL OF MOLECULAR NEUROSCIENCE 71 : 12 pp. 2546-2557. , 12 p. (2021)

<https://pubmed.ncbi.nlm.nih.gov/33895966/>

Association between Obesity and Overweight and Cardiorespiratory and Muscle Performance in Adolescents

Petrovics, Peter; Sandor, Barbara ; Palfi, Anita; Szekeres, Zsolt; **Atlasz, Tamas**; Toth, Kalman; Szabados, Eszter

INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 18 : 1 Paper: 134 , 10 p. (2021)

<https://pubmed.ncbi.nlm.nih.gov/33375469/>

Clinical Effect of End-range Maitland Mobilization in the Management of Knee Osteoarthritis - A Pilot Study

Pozsgai, Miklós; Kövesdi, Erzsébet; Németh, Balázs; Kiss, István; Farkas, Nelli; **Atlasz, Tamás**; Váczi, Márk; Nusser, Nóra

IN VIVO 35 : 3 pp. 1661-1668. , 8 p. (2021)

<https://pubmed.ncbi.nlm.nih.gov/33910850/>

Retinoprotective Effects of PACAP Eye Drops in Microbead-Induced Glaucoma Model in Rats

Szabó, Edina; Patkó, Evelin; Váczy, Alexandra; Molitor, Dorottya; Csutak, Adrienne; Tóth, Gábor; Reglődi, Dóra; **Atlasz, Tamás**

INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 22 : 16 Paper: 8825 , 13 p. (2021)

<https://pubmed.ncbi.nlm.nih.gov/34445531/>