

ICORD Annual Report 2021-22

Appendix 1: Selected publications by ICORD Principal Investigators

Michael Berger

Manna M, Mortenson WB, Kardeh B, Douglas S, Marks C, Krauss EM, **Berger MJ**. Patient perspectives and self-rated knowledge of nerve transfer surgery for restoring upper limb function in spinal cord injury. *PM R*. 2022 Mar 29. doi: 10.1002/pmrj.12811. Epub ahead of print. PMID: 35352495.

Moneo J, Kramer JLK, Nightingale TE, **Berger MJ**. Can MRI reveal lower motor neuron damage after traumatic spinal cord injury? A scoping review. *Neurotrauma Reports*. Vol. 2, No. 1. Published Online: 29 Nov 2021 <https://doi.org/10.1089/neur.2021.0019>

Castanov V, **Berger MJ**, Ritsma B, Trier J, Hendry JM. Optimizing the timing of peripheral nerve transfers for functional re-animation in cervical spinal cord injury: a conceptual framework. *J Neurotrauma*. 2021 Oct 29. doi: 10.1089/neu.2021.0247. Epub ahead of print. PMID: 34715742.

Chen L, Bkin EO, Haldane C, Bristol SG, **Berger MJ**. The relationship between sensibility tests and functional outcomes in patients with traumatic upper limb nerve injuries: a systematic review. *Archives of Rehabilitation Research and Clinical Translation* 2021:100159. <https://doi.org/10.1016/j.arrct.2021.100159>

Jaimie Borisoff

Khalili M, Jonathan C, Hocking N, Van der Loos M, Mortenson WB, **Borisoff J**. (2021). Perception of autonomy among people who use wheeled mobility assistive devices: dependence on environment and contextual factors. *Disability and rehabilitation. Assistive technology*.: 1-8.

Khalili, M; Kryt, G; Mortenson, W; Van der Loos, H; **Borisoff, J**. (2021). Comparison of Manual Wheelchair and Pushrim-Activated Power-Assisted Wheelchair Propulsion Characteristics during Common Over-Ground Maneuvers. *Sensors*. 21(21): 7008. <http://dx.doi.org/https://doi.org/10.3390/s21217008>.

Reid H, Miller WC, Esfandiari E, Mohammadi S, Rash I, Tao G, Simpson E, Leong K, Matharu P, Sakakibara B, Schmidt J, Jarus T, Forwell S, **Borisoff J**, Backman C, Alic A, Brooks E, Chan J, Flockhart E, Irish J, Tsukura C, Di Spirito N, Mortenson WB. (2021). The Impact of COVID-19-Related Restrictions on Social and Daily Activities of Parents, People With Disabilities, and Older Adults: Protocol for a Longitudinal, Mixed Methods Study. *MIR research protocols*. 10(9): e28337.

Khalili M, Jonathan C, Hocking N, Van Der Loos M, Mortenson B, **Borisoff JF**. (2021). Perception of autonomy among people who use wheeled mobility assistive devices: dependence on the type of wheeled assistive technology. *Assistive technology*: 1-9.

Khalili M, Kryt G, Van der Loos HFM, **Borisoff JF**. (2021). A Comparison Between Conventional and User-Intention-Based Adaptive Pushrim-Activated Power-Assisted Wheelchairs. *IEEE transactions on neural systems and rehabilitation engineering: a publication of the IEEE Engineering in Medicine and Biology Society*. 29: 2511-2520.

Flockhart EW, Miller WC, Campbell JA, Mattie JL, **Borisoff JF**. (2021). Evaluation of two power assist systems for manual wheelchairs for usability, performance and mobility: a pilot study. *Disability and rehabilitation. Assistive technology*.: 1-13.

Khalili M, Kryt G, Van der Loos HFM, **Borisoff JF**. (2021). A Comparison Between Conventional and Terrain-Specific Adaptive Pushrim-Activated Power-Assisted Wheelchairs. *IEEE transactions on neural systems and rehabilitation engineering: a publication of the IEEE Engineering in Medicine and Biology Society*. 29: 2550-2558.

Andrea Bundon

Koch L, Sweet S, Man K, Arbour-Nicitopoulos K, Orr K, **Bundon A**, Latimer-Cheung A & Tomasone J. Exploring the relationship between quality and quantity of physical activity participation in community-based exercise programs for persons with physical disabilities. *Adapted Physical Activity Quarterly*. <https://doi.org/10.1123/apaq.2021-0168>

Sauvé JL, O'Rourke JJ, Wilson B, **Bundon A** & Beauchamp MR (2022). Looking back to move forward: Recently retired Olympians' perspectives of factors that contribute to and undermine athlete well-being. *Sport, Exercise and Performance Psychology*. 11(1), 44-60. <https://doi.org/10.1037/spy0000273>

Dean NA, **Bundon A**, Howe PD & Abele N (online ahead of print). Gender parity, false starts, and promising practices in the Paralympic Movement. *Sociology of Sport Journal*. Doi: <https://doi.org/10.1123/ssj.2021-0030>

Victoria Claydon

Hockin BCD, Heeney ND, Whitehurst DGT, **Claydon VE** (2022) Evaluating the impact of syncope and presyncope on quality of life: a systematic review and meta-analysis. *Frontiers in Cardiovascular Medicine*, **9**: 834879.

Williams EL, Raj S, Schondorf R, Shen WK, Wieling W, **Claydon VE** (2021). Salt supplementation in the management of orthostatic intolerance: vasovagal syncope and postural orthostatic tachycardia syndrome. *Autonomic Neuroscience - Basic and Clinical*, **237**: 102906. **This article was selected to be featured in the Special Issue on Salt.**

Van Twist DJL, Harms MPM, van Wijnen VK, **Claydon VE**, Freeman R, Cheshire WP, Wieling W (2021). Diagnostic criteria for initial orthostatic hypotension: a narrative review. *Clinical Autonomic Research*, **31**: 685-698.

Hockin BCD *, Taha O*, **Claydon VE** (2021). Reliance on vascular responses for the maintenance of blood pressure in healthy older adults - insights from the Valsalva maneuver. *Autonomic Neuroscience: Basic and Clinical*, **236**: 102898. *Contributed equally to the manuscript.

Lucci V-EM, McGrath MS, Inskip JA, Sarveswaran S, Willms R, **Claydon VE** (2021). Response to "Clinical recommendations for use of lidocaine lubricant during bowel care after spinal cord injury prolong care routines and worsen autonomic dysreflexia: results from a randomised clinical trial" - the authors reply. *Spinal Cord*, **159**: 1311-1312. **This article was selected as Reader's Choice 2021 highlighting the most cited, downloaded and shared articles of the year.**

Hockin BCD, Tang EZ, Lloyd MG, **Claydon VE** (2021). Forearm vascular resistance responses to the Valsalva maneuver in healthy young and older adults. *Clinical Autonomic Research*, **31**: 737-753.

Lucci V-EM, Harrison EL, DeVeau KM, Harman KA, Squair JW, Krassioukov AV, Magnuson DSK, West CR, **Claydon VE** (2021). Markers of susceptibility to cardiac arrhythmia in experimental spinal cord injury and the impact of sympathetic stimulation and exercise training. *Autonomic Neuroscience: Basic and Clinical*, **235**: 102867.

Heeney ND, Lee RHY, Hockin BCD, Clarke DC, Sanatani S, Armstrong K, Sedlak T, **Claydon VE** (2021). At-home determination of 24-hour urine sodium excretion: validation of chloride test strips and multiple spot samples. *Autonomic Neuroscience: Basic and Clinical*, **233**: 102797. **This article was selected to be featured in the Special Issue on Salt.**

Raj SR, Barboi A, **Claydon VE**, Limberg JK, Lucci V-EM, Numan M, Peltier A, Singer W, Snapper H, Vernino S (2021). Long-COVID dysautonomia and Long-COVID POTS: An American Autonomic Society Statement. *Clinical Autonomic Research*, **19**: 1-4.

Taylor CE, Arnold AC, Fanciulli AF, Provini F, Fu Q, Macefield VG, Weese-Mayer DE, Shibao C, Charkoudian N, **Claydon VE** (2021) Women in *Clinical Autonomic Research*: how far have we come in 30 years? *Clinical Autonomic Research*, **17**: 1-4.

Mathias CJ, Low DA, **Claydon VE** (2021). Autonomic disturbances following spinal cord injury. In: Primer on the Autonomic Nervous System. Ed: Robertson D, Burnstock G, Paton JFR, Biaggioni I, Low PA. Elsevier Inc., 4th edition. Chapter 104.

Wieling W and **Claydon VE** (2021). Physiology of the upright posture. In: Primer on the Autonomic Nervous System. Ed: Robertson D, Burnstock G, Paton JFR, Biaggioni I, Low PA. Elsevier Inc., 4th edition. Chapter 34.

Coupal K, Heeney ND, Hockin BCD, Ronsley R, Armstrong K, Sanatani S, **Claydon VE** (2021). Pubertal hormone changes and the autonomic nervous system: potential role in paediatric orthostatic intolerance. *Frontiers in Autonomic Neuroscience*, **13**: 1197[1-20]. In: Autonomic Neuroscience Editor's Pick 2021. Ed: Macefield VG and Bornstein JC. Lausanne: Frontiers Media SA, 1st edition. Section 17, pages, 166-185.

Jacquelyn Cragg

Sanguinetti R, Soriano JE, Squair JW, **Cragg JJ**, Larkin-Kaiser KA, McGirr A, Phillips A. National survey of mental health and suicidal thoughts in people with spinal cord injury. *Spinal Cord* 2022 (epub ahead of print).

Crispo J, Liu L, Noonan V, Thorogood N, Kwon BK, Dvorak M, Thibault D, Willis A, **Cragg JJ**. Pediatric traumatic spinal cord injury in the United States: a national inpatient analysis. *Topics in Spinal Cord Injury Rehabilitation* 2022;28(1):1-12.

Kuramoto L, Sobolev B, Rosner J, Brasher P, Azoulay L. **Cragg JJ**. A systematic, concept-based method of developing the exposure measure for drug safety and effectiveness studies. *Pharmacoepidemiology & Drug Safety* 2022;31(1):13-21.

Soriano JE, Squair JW, **Cragg JJ**, Vaseghi B, Dujic Z, Emery C, Grant C, Charbonneau R, Phillips A. A national survey of physical activity after spinal cord injury. *Scientific Reports* 2022; 12(4405).

Zisper C, **Cragg JJ**, Guest J, Fehlings M, Jutzeler CR, Anderson A, Curt A. Stem cells in acute spinal cord injury: a review. In Press at *Lancet Neurology* 2022.

McGregor R, Warner F, **Cragg JJ**, Kramer JK. Outcomes reported in meta-analyses of non-opioid, pharmacological peri-operative interventions for chronic post-surgical pain: A meta-research study. *Regional Anesthesia & Pain Medicine* 2022; 47:263-269.

Aspinall P, Harrison L, Scheuren P, **Cragg JJ**, Guest J, Jones L, Kirshblum S, Lammertse D, Kwon B, Kramer JLK. A systematic review of safety reporting in acute spinal cord injury clinical trials: challenges and recommendations. *Journal of Neurotrauma* 2021; 38(15):2047-2054.

Potentially Highlighted in Annual Report: Crispo J, Liu L, Noonan V, Thorogood N, Kwon BK, Dvorak M, Thibault D, Willis A, **Cragg JJ**. Pediatric traumatic spinal cord injury in the United States: a national inpatient analysis. *Topics in Spinal Cord Injury Rehabilitation* 2022;28(1):1-12.

Peter Cripton

Fung A, Fleps I, **Cripton PA**, Guy P, Ferguson SJ, Helgason B. Prophylactic augmentation implants in the proximal femur for hip fracture prevention: An in-silico investigation of simulated sideways fall impacts. *Journal of the Mechanical Behaviour of Biomedical Materials*. 2022. doi: 10.1016/j.jmbbm.2021.104957.

Yamamoto S, **Whyte T, Van Toen C, Melnyk A, Shewchuk J**, Street J, Cripton P, Oxland TR. The diagnostic precision of computed tomography for traumatic cervical spine injury: An in vitro biomechanical investigation. *Clinical Biomechanics*. 2021. doi: 10.1016/j.clinbiomech.2021.105529.

Yamamoto S, **Dias L**, Street J, **Cripton PA**, Oxland TR. Anteroposterior shear stiffness of the upper thoracic spine at quasi-static and dynamic loading rates—An in vitro biomechanical study. *Journal of Orthopedic Research*. 2021. doi: 10.1002/jor.25196.

Whyte T, Barker JB, Cronin DS, Dumas GA, Nolte L-P, Cripton PA. Load-Sharing and Kinematics of the Human Cervical Spine Under Multi-Axial Transverse Shear Loading: Combined Experimental and Computational Investigation. *Journal of Biomechanical Engineering*. 2021. doi: /10.1115/1.4050030.

Strejiger F, Kim K-T, So K, Manouchehri N, Shortt K, Okon EB, Morrison C, Fong A, Gupta R, Brown AA, Tigchelaar S, Sun J, Liu E, Keung M, Daly CD, **Cripton PA**, Sekhon MS, Griesdale DE, Kwon BK. Duraplasty in Traumatic Thoracic Spinal Cord Injury: Impact on Spinal Cord Hemodynamics, Tissue Metabolism, Histology, and Behavioral Recovery Using a Porcine Model. *Journal of Neurotrauma*. 2021. doi:10.1089/neu.2021.0084.

Melnyk AD, Whyte T, Van Toen C, Yamamoto S, Street J, Oxland TR, Cripton PA. The effect of end condition on spine segment biomechanics in compression with lateral eccentricity. *Journal of Biomechanics*. 2021. doi:10.1016/j.jbiomech.2021.110617.

Button EB, Cheng WH, Barron C, Cheung H, Bashir A, Cooper J, Gill J, Stukas S, Baron DC, Robert J, Rowe EM, Cripton PA, Wellington CL. Development of a novel, sensitive translational immunoassay to detect plasma glial fibrillary acidic protein (GFAP) after murine traumatic brain injury. *Alzheimer Research and Therapy*. 2021;13(1):58. doi:10.1186/s13195-021-00793-9.

Booth GR, Cripton PA, Siegmund GP. The Lack of Sex, Age, and Anthropometric Diversity in Neck Biomechanical Data. *Frontiers in Bioengineering and Biotechnology*. 2021;9:14.

Stacy Elliott

Characterization of heart rate changes associated with autonomic dysreflexia during penile vibrostimulation and urodynamics by Walter M, Rietchel L, Ramirez A, Hocaloski S, **Elliott S**, and Krassioukov A. Preprint DOI: 10.1101/2021.04.03.21254489 (Spinal Cord)

Evaluation and Management of Autonomic Dysreflexia and Other Autonomic Dysfunctions: Preventing the Highs and Lows: management of blood pressure, sweating, and temperature dysfunction. Clinical practice guidelines: Consortium for Spinal Cord Medicine (PVA Paralyzed Veterans of America supported) Washington DC. Krassioukov A, Linsenmeyer TA, Beck LA, **Elliott S**, Gorman P, Kirshblum S, Vogel L, Wecht J. *Top Spinal Cord Inj Rehabil* (2021) 27 (2): 225–290.

Yuen W, Witherspoon L, Wu E, Wong J, Sheikholeslami S, Bentley J, Zarowski C, Sundar M, **Elliott S**, Higano C, Flannigan R. Sexual rehabilitation recommendations for prostate cancer survivors and their partners from a biopsychosocial Prostate Cancer Supportive Care Program. *Support Care Cancer*. 2022 Feb;30(2):1853-1861. doi: 10.1007/s00520-021-06335-1. Epub 2021 Oct 6. PMID: 34613474.

Janice Eng

Crockett RA, Hsu CL, Dao E, Tam R, Alkeridy W, **Eng JJ**, Handy TC, Liu-Ambrose T. Mind the gaps: functional networks disrupted by white matter hyperintensities are associated with greater falls risk. *Neurobiol Aging*. 2022;109:166-175.

Tao G, Miller WC, **Eng JJ**, Esfandiari E, Imam B, Lindstrom H, Payne MW. Group-based telerehabilitation intervention using Wii Fit to improve walking in older adults with lower limb amputation (WiiNWalk): A randomized control trial. *Clin Rehabil*. 2021 Nov 29;2692155211061222.

Moncion K, Rodrigues L, MacKay-Lyons M, **Eng JJ**, Billinger SA, Ploughman M, Bailey DM, Trivino M, Bayley M, Thiel A, Roig M, Tang A. Exercise-Based Stroke Rehabilitation: Clinical Considerations Following the COVID-19 Pandemic. *Neurorehabil Neural Repair*. 2022 Jan;36(1):3-16.

Louie DR, Simpson LA, Mortenson WB, Field TS, Yao J, Eng JJ. Prevalence of walking limitation after acute stroke and its impact on discharge to home. *Phys Ther*. 2022 Jan 1;102(1):pzab246.

Lui M, McKellar K, Cooper S, Eng JJ, Bird ML. Evaluating the impact of a training program to support transitioning from the hospital to the community for people after stroke: a community case study. *BMC Health Serv Res*. 2022 Jan 5;22(1):30yi

Sakakibara BM, Lear SA, Barr SI, Goldsmith CH, Schneeberg A, Silverberg ND, Yao J, Eng JJ. Telehealth coaching to improve self-management for secondary prevention after stroke: A randomized controlled trial of Stroke Coach. *Int J Stroke*. 2021 May 27

Gururaj S, Bird ML, Borschmann K, **Eng JJ**, Watkins CL, Walker MF, Solomon JM; SRRR2 KT working group. Evidence-based stroke rehabilitation: do priorities for practice change and feasibility of implementation vary across high income, upper and lower-middle income countries? *Disabil Rehabil*. 2021 Apr 13:1-8.

Crocket RA, Hsu CL, Dao E, Fox M, Tam R, **Eng JJ**, Handy T, Liu-Ambrose T. Painting by Lesions: Functional Networks Affected by White Matter Hyperintensities Are Associated with Cognitive Impairment in Older Adults with Cerebral Small Vessel Disease. *Neuroimage*. 2021 Aug 1;236:118089

Hoogenes B, Querée M, Miller WC, Mortenson WB, Townson A, **Eng JJ**. Evidence on definitions, concepts, outcome instruments, and interventions for chronic fatigue in spinal cord injury: a scoping review protocol. *JBI Evid Synth*. 2021 Apr 12;19(8):1999-2006.

Simpson LA, Hayward KS, McPeake M, Field TS, **Eng JJ**. Challenges of Estimating Accurate Prevalence of Arm Weakness Early After Stroke. *Neurorehabil Neural Repair*. 2021 Oct;35(10):871-879.

Louie DR, Mortenson WB, Durocher M, Schneeberg A, Teasell R, Yao J, **Eng JJ**. Efficacy of an exoskeleton-based physical therapy program for non-ambulatory patients during subacute stroke rehabilitation: a randomized controlled trial. *J Neuroeng Rehabil*. 2021 Oct 10;18(1):149.

Yang CL, Liu J, Simpson LA, Menon C, **Eng JJ**. Real-world functional grasping activity in individuals with stroke and healthy controls using a novel wearable wrist sensor. *Neurorehabil Neural Repair*. 2021;35:929-937.

Simpson LA, Menon C, Hodgson AJ, WB Mortenson, **Eng JJ**. Clinicians' perceptions of a potential wearable device for capturing upper limb activity post-stroke: a qualitative focus group study. *J Neuroeng Rehabil*. 2021;18(1):135.

Louie DR, Simpson LA, Mortenson WB, Field TS, Yao J, **Eng JJ**. Prevalence of walking limitation after acute stroke and its impact on discharge to home. *Phys Ther*. 2021:pzab246.

Roy N, Daburger A, Goodfellow N, Herr D, Schramm M, **Eng JJ**, Louie DR. Mirror therapy for lower-extremity hemiparesis: a knowledge translation study using an educational module to change physiotherapists' perceptions. *Physiotherapy Canada*. 2021;73(3):218-225.

Louie DR, Bird ML, Menon C, **Eng JJ**. Perspectives on the prospective development of stroke-specific lower extremity wearable monitoring technology: a qualitative focus group study with physical therapists and individuals with stroke. *J Neuroeng Rehabil*. 2020;17:31 (11 pages).

Lim SB, Louie DR, Peters S, Liu-Ambrose T, Boyd LA, **Eng JJ**. Brain activity during real-time walking and with walking interventions after stroke: a systematic review. *J Neuroeng Rehabil*. 2021 Jan 15;18(1):8.

Yang CL, Waterson S, **Eng JJ**. Implementation and evaluation of the virtual Graded Repetitive Arm Supplementary Program (GRASP) for individuals with stroke during the COVID-19 pandemic and beyond. *Phys Ther*. 2021 Mar 4:pzab083.

Peters S, Botero M, Evers A, Fong B, Jakab B, Petter E, **Eng JJ**. Development and feasibility of a modified Fugl-Meyer lower extremity assessment for telerehabilitation: a pilot study. *Pilot Feasibility Stud*. 2021 Jun 7;7(1):121.

Yang CL, Bird ML, **Eng JJ**. Implementation and evaluation of the Graded Repetitive Arm Supplementary Program (GRASP) for people with stroke in a real world community setting: Case report. *Phys Ther*. 2021 Mar 3;101(3):pzab008.

Nabata KJ, Tse EK, Nightingale TE, Lee AHX, **Eng JJ**, Querée M, Walter M, Krassioukov AV. The therapeutic potential and usage patterns of cannabinoids in people with spinal cord injuries: a systematic review. *Curr Neuropharmacol*. 2021;19(3):402-432.3993

Susan Forwell

Gainforth HL, Hoekstra F, McKay R, McBride CB, Sweet SN, Martin Ginis, KA, Anderson K, Chernesky, J, Clarke T, **Forwell S**, Maffin J, McPhail L, Mortenson B, Scarrow G, Schaefer L, Sibley K, Athanasopoulos P, Willms R. The Integrated Knowledge Translation Guiding Principles for Conducting and Disseminating Spinal Cord Injury Research in Partnership. *Archives of Physical Medicine and Rehabilitation*. 2021. 102(4), 656-663. DOI: <https://doi.org/10.1016/j.apmr.2020.09.393>

Lukas M, Forsyth L, Lee-Bunting MK and **Forwell SJ**. "This is Me": The Transition of Coming-Out for Gay Men Through an Occupational Perspective. *Journal of Occupational Science*. 2021. DOI: 10.1080/14427591.2021.1981986

Reid HM, Miller WC, Esfandiari E, Mohammadi S, Rash I, Tao G, Simpson E, Leong K, Matharu P, Sakakibara B, Schmidt J, Jarus T, **Forwell S**, Borisoff J, Backman C, Alic A, Brooks E, Chan J, Flockhart E, Irish J, Tsukura C,

Dispirito N, Mortenson WB (2021). The impact of COVID-19 related restrictions on social and daily activities of parents, people with disabilities and older adults: Protocol for a longitudinal, mixed-methods study. *Journal of Medical Internet Research (JMIR) Research Protocols*. 2021. 10(9):e28337. DOI: [10.2196/28337](https://doi.org/10.2196/28337)

To-Miles F, Forwell SJ, Backman C. Exploring occupations and well-being before and during the COVID-19 pandemic in adults with and without inflammatory arthritis. *Journal of Occupational Science*. 2022. DOI: 10.1080/14427591.2022.2057573

Breen J & Forwell SJ. [SA]. "Chapter 14: "The Difference Model of Disability: A Focus on Employment". In *Agile coping in the digital era: Emerging issues for research and practice*. Eds. N. Ferreira, I.L. Potgieter & M. Coetzee. Springer Nature (International). Cham, Switzerland 2021: p. 275-298. https://link.springer.com/chapter/10.1007/978-3-030-70228-1_14

David Granville

Gapud EJ, Trejo-Zambrano MI, Gomez-Banuelos E, Tiniakou E, Antiochos B, **Granville DJ**, Andrade, Casciola-Rosen L, Rosen A. Granzyme B induces IRF-3 phosphorylation through a perforin-independent proteolysis-dependent signaling cascade without inducing cell death. *J. Immunol*. 2021 206(2):335-344. doi: 10.4049/jimmunol.2000546. CA

Hiroyasu S, Zeglinski MR, Zhao H, Pawluk MA, Turner CT, Kasprick A, Tateishi C, Nishie W, Burleigh A, Lennox PA, Van Laeken N, Carr NJ, Peterson F, Crawford RI, Shimizu H, Tsuruta D, Ludwig RJ, Granville DJ. Granzyme B Inhibition Reduces Disease Severity in Autoimmune Blistering Diseases. *Nature Comm*. 2021 12(1):302. doi: 10.1038/s41467-020-20604-3. SA

Turner CT, Bolsoni J, Zeglinski MR, Zhao, H, Ponomarev T, Richardson K, Hiroyasu S, Schmid E, Papp A, Granville DJ. Granzyme B Mediates Impaired Healing of Pressure Injuries in Aged Skin. *NPJ Aging Mech Dis*. 2021 5;7(1):6. doi: 10.1038/s41514-021-00059-6. SA

Hayes BD, Fossey MPM, Poormasjedi-Meibod MS, Erskine E, Soriano JE, Scott B, Rosentreter R, **Granville DJ**, Phillips AA, West CR. Experimental high thoracic spinal cord injury impairs the cardiac and cerebrovascular response to orthostatic challenge in rats. *Am J Physiol Heart Circ Physiol*. 2021 Oct 1;321(4):H716-H727. doi: 10.1152/ajpheart.00239.2021. Epub 2021 Aug 27. PMID: 34448635

Hiroyasu S, Hiroyasu A, Granville DJ, Tsuruta D. Pathological functions of granzyme B in inflammatory skin diseases. *J Dermatol Sci*. 2021 Nov;104(2):76-82. doi: 10.1016/j.jdermsci.2021.10.006. Epub 2021 Oct 27. PMID: 34772583

Hu MD, Golovchenko NB, Burns GL, Nair PM, Kelly TJ 4th, Agos J, Irani MZ, Soh WS, Zeglinski MR, Lemenze A, Bonder EM, Sandrock I, Prinz I, **Granville DJ**, Keely S, Watson AJM, Edelblum KL. $\gamma\delta$ Intraepithelial Lymphocytes Facilitate Pathological Epithelial Cell Shedding Via CD103-Mediated Granzyme Release. *Gastroenterology*. 2022 Mar;162(3):877-889.e7. doi: 10.1053/j.gastro.2021.11.028. Epub 2021 Dec 1. PMID: 34861219

Veronica Hirsch-Reinshagen

Hoiland RL, Ainslie PN, Wellington CL, Cooper J, Stukas S, Thiara S, Foster D, Fergusson N, Conway EM, Menon DK, Gooderham PA, **Hirsch-Reinshagen V**, Griesdale D, Sekhon M. Brain hypoxia is associated with neuroglial injury in humans post-cardiac arrest. *Circ Res* 2021. <https://doi.org/10.1161/CIRCRESAHA.121.319157>

Chatterjee A, **Hirsch-Reinshagen V**, Moussavi SA, Ducharme B, Mackenzie IR, Hsiung GYR. Clinico-pathological comparison of patients with autopsy-confirmed Alzheimer's disease, dementia with Lewy bodies, and mixed pathology. *Alzheimer's Dement*. 2021;13:e12189

Levine A, Lee C, Fava C, Tsang F, McNeil K, Yip ST, **Hirsch-Reinshagen V**. Detailed neuropathologic report of COVID-19 complicated by large intracerebral hemorrhage and periventricular lesions with macrophagic infiltrates. *Free Neuropathol*. 2021 Mar 25;2:7.

Andreas Hoffer

Patents issued

Systems and methods for trans-esophageal sympathetic ganglion recruitment. Bassi, Thiago Gasperini; **Hoffer, Joaquín Andrés**; Reynolds, Steven Campbell. **U.S. Patent 10,940,308** issued March 9, 2021.

Systems for Optimization of Multi-Electrode Nerve Pacing. **Hoffer, Joaquín Andrés**, Sadarangani, Gautam; Nolette, Marc-Andre; Thakkar, Viral; Tran, Bao Dung. **European Patent EP 3566743 B1** issued on March 10, 2021.

Diaphragm Pacing System. **Hoffer, Joaquín Andrés**, Sadarangani, Gautam; Nolette, Marc-Andre; Thakkar, Viral; Tran, Bao Dung. **Japanese Patent JP 6846824 B2** issued on March 24, 2021.

Transvascular nerve stimulation apparatus and methods. **Hoffer, Joaquín Andrés**. **U.S. Patent 11,027,130** issued June 8, 2021.

Apparatus and methods for assisted breathing by transvascular nerve stimulation. Thakkar, Viral; **Hoffer, Joaquín Andrés**; Tran, Bao Dung; Evans, Douglas G.; Nash, John. **Australian Patent AU 2019283933** issued August 19, 2021.

Systems and related methods for optimization of multi-electrode nerve pacing. **Hoffer, Joaquín Andrés**, Sadarangani, Gautam; Nolette, Marc-Andre; Thakkar, Viral; Tran, Bao Dung. **U.S. Patent 11,311,730** issued April 26, 2022.

Heather Gainforth

McKay RC, Baxter KL, Giroux EE, **Casemore S, **Clarke TY, **McBride CB, Sweet SN, **Gainforth HL** (2022).

Investigating the peer mentor-mentee relationship: Characterizing peer mentorship conversations between people with spinal cord injury. *Disability and Rehabilitation*.

Hoekstra F, Trigo F, Sibley KM, Graham ID, Kennefick M, Mrklas KJ, Nguyen T, Vis- Dunbar M, SCI Guiding Principles Consensus Panel**, **Gainforth HL** (2022). Systematic overviews of partnership principles and strategies identified from health research about spinal cord injury and related health conditions: A scoping review. *The Journal of Spinal Cord Medicine*, 1-18.

Osborne JB, Rocchi MA, **McBride CB, McKay R, **Gainforth HL**, Upper R, & Sweet SN (2022). Couples' experiences with sexuality after spinal cord injury. *Disability and Rehabilitation*, 1-9.

Lucci VEM, McKay RC, **McBride CB, **McGrath MS, **Willms R, **Gainforth HL** & Claydon V. (2022). Barriers and facilitators to changing bowel care practices after spinal cord injury: a Theoretical Domains Framework approach. *Spinal Cord*, 1-10.

Sweet SN, Hennig L, Shi Z, **Clarke T, **Flaro H, Hawley S, Schaefer L, **Gainforth HL** (2021). Outcomes of peer mentorship for people living with spinal cord injury: Perspectives from members of Canadian SCI community-based organizations. *Spinal Cord*.

Sweet SN, Hennig L, Pastore O, Hawley S, **Clarke T, **Flaro H, Schaefer L, **Gainforth HL** (2021). Understanding peer mentorship programs from the perspectives of members from Canadian SCI community-based organizations. *Spinal Cord*.

Allan V, **Gainforth HL**, Turnridge J, Konoval T, Cote J, & Latimer-Cheung A (2021). Narrative as a learning tool for coaches of athletes with a disability: Using stories to translate research into practice. *Physical Education and Sport Pedagogy*.

Gainforth HL, McKay RC, Hoekstra F, **Maffin J, Sibley KM, Jung ME, **SCI Guiding Principles Consensus Panel. (2021). Principles to guide spinal cord injury research partnerships: a Delphi consensus study. *Disability and Rehabilitation*, 1-8.

Shaw RB, Giroux EE, **McBride CB, **Gainforth HL**, Martin Ginis KA (2021). Investigating the influence of interaction modality on the communication patterns of spinal cord injury peer mentors. *Patient Education and Counselling*.

Hoekstra F, Schaefer L, **Athanasopoulos P, **SCI Guiding Principles Consensus Panel, **Gainforth HL** (2021). Researchers' and research users' experiences with and reasons for working together in spinal cord injury research partnerships: A qualitative study. *International Journal of Health Policy and Management*.

Hoekstra F, **SCI Guiding Principles Consensus Panel, & **Gainforth HL** (2021). Principles and related strategies for spinal cord injury research partnership approaches: A qualitative study. *Evidence & Policy*.

Bonnell K, Michalovic E, Koch J, Pagé V, Ramsay J, **Gainforth HL**, Lamontagne M-E, Sweet SN (2021). Physical activity for individuals living with a physical disability in Quebec: Issues and opportunities of access. *Disability and Health Journal*.

Sweet SN, Shi Z, Rocchi M, Ramsay J, Pagé V, Lamontagne M-E, & **Gainforth HL** (2021). Longitudinal examination of leisure-time physical activity (LTPA), participation, and social inclusion upon joining a community-based LTPA program for adults with physical disabilities. *Archives of Physical Medicine & Rehabilitation*. DOI: 10.1016/j.apmr.2021.02.025.

Hoekstra F, McKay RC, & **Gainforth HL** (2021). A trainee perspective on an integrated knowledge translation approach to developing the first Integrated Knowledge Translation Guiding Principles for the spinal cord injury research system. In: McCutcheon C, Reszel J, Kothari A, Graham ID, editors. *How We Work Together: The Integrated Knowledge Translation Research Network Casebook*. Volume 4. Ottawa, ON: Integrated Knowledge Translation Research Network. 2021; 26-29. Available from: <https://iktrn.ohri.ca/projects/casebook/>

Piotr Kozlowski

Yung AC, Prevost VH, Morris SR, Vavasour IM, Samadi-Bahrami, Moore W, Laule C, Mackay AL, **Kozlowski P**, "Temperature dependence and histological correlation of inhomogeneous magnetization transfer and myelin water imaging in ex vivo brain", *NeuroImage*, 236, 118046 (2021).

Liu H, Xiang Q-S, Tam R, **Kozlowski P**, Li DKB, MacKay AL., Kramer JK, Laule C, "Introduction to a novel T₂ relaxation analysis method SAME-ECOS: Spectrum Analysis for Multiple Exponentials via Experimental Condition Oriented Simulation", *Magnetic Resonance in Medicine*, 87(2), 915-931 (2022).

Cain SM, Bernier LP, Zhang Y, Yung AC, Kass J, Bohnet B, Yang Y, Gopaul R, **Kozlowski P**, MacVicar BA, Snutch TP, "Hyperexcitable superior colliculus and fatal brainstem spreading depolarization in a model of SUDEP", *Brain Communications*, accepted November 22, 2021.

John Kramer

Damascelli M, Woodward TS, Sanford N, Zahid HB, Lim R, Scott A, **Kramer JLK**. Multiple functional brain networks related to pain perception revealed by fMRI. *Neuroinformatics*. 2021 Jun 8. doi: 10.1007/s12021-021-09527-6. Epub ahead of print. PMID: 34101115.

Dorton MC, Lucci VM, de Groot S, Loughin TM, Cragg JJ, **Kramer JLK**, Post MWM, Claydon VE. Evaluation of cardiovascular disease risk in individuals with chronic spinal cord injury. *Spinal Cord*. 2021 Jul;59(7):716-729. doi: 10.1038/s41393-020-00566-5. Epub 2020 Oct 17. PMID: 33070157.

Warner FM, Bailey NG, Scheuren PS, Lütolf R, McGregor R, Banga R, Hsieh JTC, **Kramer JLK**. Clinical trials and tribulations: lessons from spinal cord injury studies registered on ClinicalTrials.gov. *Spinal Cord*. 2021 Dec;59(12):1256-1260. doi: 10.1038/s41393-021-00699-1. Epub 2021 Sep 3. PMID: 34480090.

Faw TD, Lakhani B, Schmalbrock P, Knopp MV, Lohse KR, **Kramer JLK**, Liu H, Nguyen HT, Phillips EG, Bratasz A, Fisher LC, Deibert RJ, Boyd LA, McTigue DM, Basso DM. Eccentric rehabilitation induces white matter plasticity and sensorimotor recovery in chronic spinal cord injury. *Exp Neurol*. 2021 Dec;346:113853. doi: 10.1016/j.expneurol.2021.113853. Epub 2021 Aug 28. PMID: 34464653.

Bourguignon L, Vo AK, Tong B, Geisler F, Mach O, Maier D, **Kramer JLK**, Grassner L, Jutzeler CR. Natural progression of routine laboratory markers after spinal trauma: a longitudinal, multi-cohort study. *J Neurotrauma*. 2021 Aug 1;38(15):2151-2161. doi: 10.1089/neu.2021.0012. Epub 2021 May 28. PMID: 33882712; PMCID: PMC8309438.

Grassner L, Petr O, Warner FM, Dedeciusova M, Mathis AM, Pinggera D, Gsellmann S, Meiners LC, Freigang S, Mokry M, Resch A, Kretschmer T, Rossmann T, Navarro FR, Gruber A, Spindel M, Winkler PA, Marhold F, Sherif C, Wais JP, Rössler K, Pfisterer W, Mühlbauer M, Trivik-Barrientos FA, Rath S, Voldrich R, Krska L, Lipina R, Kerekanic M, Fiedler J, Kasik P, Priban V, Tichy M, Krupa P, Cesak T, Kroupa R, Callo A, Haninec P, Pohlodek D, Krahulik D,

Sejkorova A, Sames M, Dvorak J, Suchomel P, Tomas R, Klener J, Juran V, Smrcka M, Linzer P, Kaiser M, Hrabovsky D, Jancalek R, Kälin V, Bozinov O, Niggli C, Serra C, Guatta R, Kuhlen DE, Wanderer S, Marbacher S, Lavé A, Schaller K, Esculier C, Raabe A, **Kramer JLK**, Thomé C, Netuka D. Trends and outcomes for non-elective neurosurgical procedures in Central Europe during the COVID-19 pandemic. *Sci Rep*. 2021 Mar 17;11(1):6171. doi: 10.1038/s41598-021-85526-6. PMID: 33731753; PMCID: PMC7969942.

McDougall JF, Bailey NGN, Banga R, Linde LD, **Kramer JLK**. The Influence of Examiner Gender on Responses to Tonic Heat Pain Assessments: A Preliminary Investigation. *Front Pain Res (Lausanne)*. 2021 Dec 23;2:729860. doi: 10.3389/fpain.2021.729860. PMID: 35295446; PMCID: PMC8915545.

Leister I, Linde LD, Vo AK, Haider T, Mattiassich G, Grassner L, Schaden W, Resch H, Jutzeler CR, Geisler FH, **Kramer JLK**, Aigner L. Routine Blood Chemistry Predicts Functional Recovery After Traumatic Spinal Cord Injury: A Post Hoc Analysis. *Neurorehabil Neural Repair*. 2021 Apr;35(4):321-333. doi: 10.1177/1545968321992328. Epub 2021 Feb 22. PMID: 33615895.

Evans V, Koh RGL, Duarte FCK, Linde L, Amiri M, Kumbhare D. A randomized double blinded placebo controlled study to evaluate motor unit abnormalities after experimentally induced sensitization using capsaicin. *Sci Rep*. 2021 Jul 2;11:13793.

Duarte FCK, West DWD, Linde LD, Hassan S, Kumbhare DA. Re-Examining Myofascial Pain Syndrome: Toward Biomarker Development and Mechanism-Based Diagnostic Criteria. *Curr Rheumatol Rep*. 2021 Jul 8;23(8):69.

Aspinall P, Harrison L, Scheuren P, Cragg JJ, Ferguson AR, Guest JD, Hsieh J, Jones L, Kirshblum S, Lammertse D, Kwon BK, **Kramer JLK**. A Systematic Review of Safety Reporting in Acute Spinal Cord Injury Clinical Trials: Challenges and Recommendations. *J Neurotrauma*. 2021 Aug 1;38(15):2047-2054. doi: 10.1089/neu.2020.7540. Epub 2021 Jun 3. PMID: 33899507.

Evans V, Duarte FC, Linde LD, Kumbhare D. Differences and similarities among questionnaires to assess pain status in chronic widespread pain population: a quantitative analysis. *British Journal of Pain*. 2021 Nov 1;15(4):441-9.

Linde LD, Bent LR, Dickey JP, Kumbhare DA, Srbely JZ. Exploring the effect of capsaicin-induced central sensitization on the upper limb nociceptive withdrawal reflex threshold. *Exp Brain Res*. 2021 Nov 1;239(11):3405-15.

Moneo J, **Kramer JLK**, Nightingale TE, Berger MJ. Can Magnetic Resonance Imaging Reveal Lower Motor Neuron Damage after Traumatic Spinal Cord Injury? A Scoping Review. *Neurotrauma Rep*. 2021 Nov 29;2(1):541-547. doi: 10.1089/neur.2021.0019. PMID: 34901947; PMCID: PMC8655802.

Todd KR, Shaw RB, **Kramer JLK**, Martin Ginis KA. Using ecological momentary assessment to evaluate neuropathic pain experienced by adults with SCI: recommendations and participant perceptions. *Disabil Rehabil*. 2021 Aug;43(17):2439-2446. doi: 10.1080/09638288.2019.1702724. Epub 2019 Dec 18. PMID: 31850813.

Todd KR, Shaw RB, **Kramer JLK**, Martin Ginis KA. Using ecological momentary assessment to evaluate neuropathic pain experienced by adults with SCI: recommendations and participant perceptions. *Disabil Rehabil*. 2021 Aug;43(17):2439-2446. doi: 10.1080/09638288.2019.1702724. Epub 2019 Dec 18. PMID: 31850813.

Todd KR, Shaw RB, **Kramer JLK**, Martin Ginis KA. Using ecological momentary assessment to evaluate neuropathic pain experienced by adults with SCI: recommendations and participant perceptions. *Disabil Rehabil*. 2021 Aug;43(17):2439-2446. doi: 10.1080/09638288.2019.1702724. Epub 2019 Dec 18. PMID: 31850813.

Rosner J, Negraeff M, Bélanger LM, Tsang A, Ritchie L, Mac-Thiong JM, Christie S, Wilson JR, Dhall S, Charest-Morin R, Street J, Ailon T, Paquette S, Dea N, Fisher CG, Dvorak MF, Finnerup NB, Kwon BK, **Kramer JLK**. Characterization of Hyperacute Neuropathic Pain after Spinal Cord Injury: A Prospective Study. *J Pain*. 2022 Jan;23(1):89-97. doi: 10.1016/j.jpain.2021.06.013. Epub 2021 Jul 21. PMID: 34302956.

Thomé C, Kögl N, Grassner L, Vo AK, **Kramer JLK**, Petr O. Motor Recovery Depends on Timing of Surgery in Patients With Lumbar Disk Herniation. *Neurosurgery*. 2022 Jan 17. doi: 10.1227/NEU.0000000000001825. Epub ahead of print. PMID: 35040807.

McGregor RH, Warner FM, Linde LD, Cragg JJ, Osborn JA, Varshney VP, Schwarz SKW, **Kramer JLK**. Quality of meta-analyses of non-opioid, pharmacological, perioperative interventions for chronic postsurgical pain: a

systematic review. *Reg Anesth Pain Med.* 2022 Apr;47(4):263-269. doi: 10.1136/rapm-2021-102981. Epub 2022 Jan 13. PMID: 35027479.

Liu H, Joseph TS, Xiang QS, Tam R, Kozlowski P, Li DKB, MacKay AL, **Kramer JLK**, Laule C. A data-driven T2 relaxation analysis approach for myelin water imaging: Spectrum analysis for multiple exponentials via experimental condition oriented simulation (SAME-ECOS). *Magn Reson Med.* 2022 Feb;87(2):915-931. doi: 10.1002/mrm.29000. Epub 2021 Sep 7. PMID: 34490909

Andrei Krassioukov

Andretta E, Pagliacci MC, Zuliani C, Filocamo MT, Losavio E, **Krassioukov AV**. A survey of clinical practice concerning long-term follow-up of neurogenic lower urinary tract dysfunction due to spinal cord injury in Italy. *J Spinal Cord Med.* 2021 Apr;1-9.

Hansen RM, Krogh K, Sundby J, **Krassioukov AV**, Hagen EM. Postprandial hypotension and spinal cord injury. *J Clin Med.* 2021 Apr;10(7):1417.

Round AM, Joo MC, Barakso CM, Fallah N, Noonan VK, **Krassioukov AV**. Neurogenic bowel in acute rehabilitation following spinal cord injury: impact of laxatives and opioids. *J Clin Med.* 2021 Apr;10(8):1673.

Sachdeva R, Nightingale TE, Pawar K, Kalimullina T, Mesa A, Marwaha A, Williams AMM, Lam T, **Krassioukov AV**. Noninvasive neuroprosthesis promotes cardiovascular recovery after spinal cord injury. *Neurotherapeutics.* 2021 Apr;18(2):1244-1256.

Xing H, Liu N, **Krassioukov AV**, Biering-Sørensen F. How to learn the International Standards to document remaining Autonomic Function after Spinal Cord Injury (ISAFSCI) content: Self-study through booklet is not enough. *J Spinal Cord Med.* 2021 May;1-8.

Balthazaar SJT, Sengeløv M, Bartholdy K, Malmqvist L, Ballegaard M, Hansen B, Svendsen JH, Kruse A, Welling KL, **Krassioukov AV**, Biering-Sørensen F, Biering-Sørensen T. Cardiac arrhythmias six months following traumatic spinal cord injury. *J Spinal Cord Med.* 2021 Jul;1-7.

Hubbard ME, Phillips AA, Charbonneau R, Squair JW, Parr AM, **Krassioukov AV**. PRES secondary to autonomic dysreflexia: A case series and review of the literature. *J Spinal Cord Med.* 2021 Jul;44(4):606-612.

Krassioukov AV, Linsenmeyer TA, Beck LA, Elliott S, Gorman P, Kirschblum S, Vogel L, Wecht J, Clay S. Evaluation and management of autonomic dysreflexia and other autonomic dysfunctions: preventing the highs and lows. *J Spinal Cord Med.* 2021 Jul;44(4):631-683.

Xing H, Liu N, **Krassioukov AV**, Biering-Sørensen F. What should be clarified when learning the International Standards to document remaining Autonomic Function after Spinal Cord Injury (ISAFSCI) among medical students. *Spinal Cord Ser Cases.* 2021 Jul;7(1):68.

Alrashidi AA, Nightingale TE, **Krassioukov AV**. Time to reconsider the importance of autonomic function in paralympic athletes with spinal cord injury. *JAMA Cardiol.* 2021 Aug;6(8):976-977.

Craig A, Pozzato I, Arora M, Middleton J, Rodrigues D, McBain C, Tran Y, Davis GM, Gopinath B, Kifley A, **Krassioukov AV**, Braithwaite J, Mitchell R, Gustin SM, Schoffl J, Cameron ID. A neuro-cardiac self-regulation therapy to improve autonomic and neural function after SCI: a randomized controlled trial protocol. *BMC Neurol.* 2021 Aug;21(1):329.

Harman KA, DeVeau KM, Squair JW, West CR, **Krassioukov AV**, Magnuson DSK. Effects of early exercise training on the severity of autonomic dysreflexia following incomplete spinal cord injury in rodents. *Physiol Rep.* 2021 Aug;9(15):e14969.

Gee CM, Nightingale TE, West CR, **Krassioukov AV**. Infographic. Doping without drugs: how para-athletes may self-harm to boost performance. *Br J Sports Med.* 2021 Aug;55(16):937-938.

Alrashidi AA, Balthazaar SJT, Currie KD, Nightingale TE, **Krassioukov AV**. Associations between left ventricular structure and function with cardiorespiratory fitness and body composition in individuals with cervical and upper thoracic spinal cord injury. *Spinal Cord.* 2021 Sep;59(7):796-803.

Lee AHX, Ramirez AL, **Krassioukov AV**, Walter M. Long-term neurogenic lower urinary tract dysfunction: A case of cardiovascular nightmares. *J Spinal Cord Med.* 2021 Sep;44(5):806-810.

Walter M, Ruiz I, Squair JW, Rios LAS, Averbek MA, **Krassioukov AV**. Prevalence of self-reported complications associated with intermittent catheterization in wheelchair athletes with spinal cord injury. *Spinal Cord.* 2021 Sep;59(9):1018-1025.

Alrashidi AA, Nightingale TE, Currie KD, Hubli M, MacDonald MJ, Hicks AL, Oh P, Craven BC, **Krassioukov AV**. Exercise improves cardiorespiratory fitness, but not arterial health, after spinal cord injury: The CHOICES Trial. *J Neurotrauma.* 2021 Nov;38(21):3020-3029.

Lucci VM, Harrison EL, DeVeau KM, Harman KA, Squair JW, **Krassioukov AV**, Magnuson DSK, West CR, Claydon VE. Markers of susceptibility to cardiac arrhythmia in experimental spinal cord injury and the impact of sympathetic stimulation and exercise training. *Auton Neurosci.* 2021 Nov;235:102867.

Soriano JE, Romac R, Squair JW, Barak OF, Sarafis ZK, Lee AHX, Coombs GB, Vaseghi B, Grant C, Charbonneau R, Mijacika T, **Krassioukov AV**, Ainslie PN, Larkin-Kaiser KA, Phillips A, Dujic Z. Passive leg cycling increases activity of the cardiorespiratory system in people with tetraplegia. *Appl Physiol Nutr Metab.* 2021 Nov;10.1139/apnm-2021-0523.

Gray K, Sheehan W, Wecht J, Linsenmeyer TA, Sachdeva R, **Krassioukov AV**. Response to Clinical recommendations for use of lidocaine lubricant during bowel care after spinal cord injury prolong care routines and worsen autonomic dysreflexia: results from a randomised clinical trial. *Spinal Cord.* 2021 Dec;59(12):1309-1310.

Brian Kwon

Aspinall P, Harrison L, Scheuren P, Cragg J, Ferguson AR, Guest J, Hsieh JT, Jones L, Kirshblum S, Lammertse D, **Kwon BK**, Kramer J. A systematic review of safety reporting in acute spinal cord injury clinical trials: challenges and recommendations. *J Neurotrauma.* 2021 Apr 24. doi: 10.1089/neu.2020.7540. Epub ahead of print. PMID: 33899507.

Streijger F, Kim KT, So K, Manouchehri N, Shortt K, Okon EB, Morrison C, Fong A, Gupta R, Brown AA, Tigchelaar S, Sun J, Liu E, Keung M, Daly CD, Cripton PA, Sekhon MS, Griesdale DE, **Kwon BK**. Duraplasty in traumatic thoracic spinal cord injury: impact on spinal cord hemodynamics, tissue metabolism, histology, and behavioral recovery using a porcine model. *J Neurotrauma.* 2021 Nov 1;38(21):2937-2955. doi: 10.1089/neu.2021.0084. Epub 2021 Jun 18. PMID: 34011164.

Jaja BNR, Badhiwala J, Guest J, Harrop J, Shaffrey C, Boakye M, Kurpad S, Grossman R, Toups E, Geisler F, **Kwon BK**, Aarabi B, Kotter M, Fehlings MG, Wilson JR. Trajectory-based classification of recovery in sensorimotor complete traumatic cervical spinal cord injury. *Neurology.* 2021 Apr 13;10.1212/WNL.0000000000012028. doi: 10.1212/WNL.0000000000012028. Epub ahead of print. PMID: 33849991.

Nadeau M, Singh S, Bélanger L, Noonan VK, Hamilton L, Boyd M, Dea N, **Kwon BK**, Paquette S, Street J, Dvorak M, Fisher C. Patient perspective: diagnosis and prognosis of acute spinal cord injuries. *Spinal Cord.* 2021 Aug;59(8):865-873. doi: 10.1038/s41393-021-00641-5. Epub 2021 Jun 3. PMID: 34083745.

Skinnider MA, Rogalski J, Tigchelaar S, Manouchehri N, Prudova A, Jackson AM, Nielsen K, Jeong J, Chaudhary S, Shortt K, Gallagher-Kurtzke Y, So K, Fong A, Gupta R, Okon EB, Rizzuto MA, Dong K, Streijger F, Belanger L, Ritchie L, Tsang A, Christie S, Mac-Thiong JM, Bailey C, Ailon T, Charest-Morin R, Dea N, Wilson JR, Dhall S, Paquette S, Street J, Fisher CG, Dvorak MF, Shannon C, Borchers C, Balshaw R, Foster LJ, **Kwon BK**. Proteomic portraits reveal evolutionarily conserved and divergent responses to spinal cord injury. *Mol Cell Proteomics.* 2021 Jun 12;20:100096. doi: 10.1016/j.mcpro.2021.100096. Epub ahead of print. PMID: 34129941; PMCID: PMC8260874.

Davies BM, Mowforth OD, Khan DZ, Yang X, Stacpoole SRL, Hazenbiller O, Gronlund T, Tetreault L, Kalsi-Ryan S, Starkey ML, Sadler I, Sarewitz E, Houlton D, Carter J, Howard E, Rahimi-Movaghar V, Guest JD, Aarabi B, **Kwon BK**, Kurpad SN, Harrop J, Wilson JR, Grossman R, Smith EK, McNair AGK, Fehlings MG, Kotter MRN. The development of lived experience-centered word clouds to support research uncertainty gathering in degenerative cervical myelopathy: results from an engagement process and protocol for their evaluation, via a nested randomized controlled trial. *Trials.* 2021 Jun 25;22(1):415. doi: 10.1186/s13063-021-05349-8. PMID: 34172080; PMCID: PMC8235822.

Rosner J, Negraeff M, Bélanger LM, Tsang A, Ritchie L, Mac-Thiong JM, Christie S, Wilson JR, Dhall S, Charest-Morin R, Street J, Ailon T, Paquette S, Dea N, Fisher CG, Dvorak MF, Finnerup NB, **Kwon BK**, Kramer JLK. Characterization of hyperacute neuropathic pain after spinal cord injury: a prospective study. *J Pain*. 2021 Jul 21:S1526-5900(21)00290-X. doi: 10.1016/j.jpain.2021.06.013. Epub ahead of print. PMID: 34302956.

Karim SM, Cadotte DW, Wilson JR, **Kwon BK**, Jacobs WB, Johnson MG, Paquet J, Bailey CS, Christie SD, Nataraj A, Attabib N, Phan P, McIntosh G, Hall H, Rampersaud YR, Manson N, Thomas KC, Fisher CG, Dea N. Effectiveness of surgical decompression in patients with degenerative cervical myelopathy: results of the canadian prospective multicenter study. *Neurosurgery*. 2021 Oct 13;89(5):844-851. doi: 10.1093/neuros/nyab295. PMID: 34382661.

Beauchamp-Chalifour P, Flexman AM, Street JT, Fisher CG, Ailon T, Dvorak MF, **Kwon BK**, Paquette SJ, Dea N, Charest-Morin R. The impact of frailty on patient-reported outcomes after elective thoracolumbar degenerative spine surgery. *J Neurosurg Spine*. 2021 Aug 6:1-9. doi: 10.3171/2021.2.SPINE201879. Epub ahead of print. PMID: 34359047.

Fallah N, Noonan VK, Waheed Z, Rivers CS, Plashkes T, Bedi M, Etmnan M, Thorogood NP, Ailon T, Chan E, Dea N, Fisher C, Charest-Morin R, Paquette S, Park S, Street JT, **Kwon BK**, Dvorak MF. Development of a machine learning algorithm for predicting in-hospital and 1-year mortality after traumatic spinal cord injury. *Spine J*. 2021 Aug 20:S1529-9430(21)00853-6. doi: 10.1016/j.spinee.2021.08.003. Epub ahead of print. PMID: 34419627.

Doelman A, Tigchelaar S, McConeghy B, Sinha S, Keung MS, Manouchehri N, Webster M, Fisk S, Morrison C, Streijger F, Nislow C, **Kwon BK**. Characterization of the gut microbiome in a porcine model of thoracic spinal cord injury. *BMC Genomics*. 2021 Oct 30;22(1):775. doi: 10.1186/s12864-021-07979-3. Erratum in: *BMC Genomics*. 2021 Dec 6;22(1):879. PMID: 34717545; PMCID: PMC8557039.

Martin AR, Tetreault L, Davies BM, Curt A, Freund P, Rahimi-Movaghar V, Wilson JR, Fehlings MG, **Kwon BK**, Harrop JS, Davies BM, Kotter MR, Guest JD, Aarabi B, Kurpad SN. Imaging and electrophysiology for degenerative cervical myelopathy [AO Spine RECODE DCM Research Priority Number 9]. *Global Spine J*. 2021 Nov 19:21925682211057484. doi: 10.1177/21925682211057484. Epub ahead of print. PMID: 34797993.

Germscheid N, Cheung JPY, Neva MH, Öner FC, **Kwon BK**, Valacco M, Awwad W, Sciubba DM, Lewis SJ, Rhines LD, Yoon ST, Alini M, Grad S, Fisher CG, Samartzis D. Research practices and needs among spine surgeons worldwide. *Global Spine J*. 2021 Dec 6:21925682211058158. doi: 10.1177/21925682211058158. Epub ahead of print. PMID: 34870488.

Mowforth OD, Khan DZ, Wong MY, Pickering GAE, Dean L, Magee J, Mullarkey L, Hirayama Y, Rihova M, Butler M, Stewart M, Goulson B, Ahmed S, Fricke K, Popa-Nimigea V, Millar Z, Venkatesh A, Willison A, Senthil K, Hazenbiller O, Sarewitz E, Sadler I, Gronlund T, Tetreault L, Harrop JS, Aarabi B, Rahimi-Movaghar V, Kurpad SN, Guest JD, Wilson JR, **Kwon BK**, Fehlings MG, McNair AGK, Davies BM, Kotter MRN. Gathering global perspectives to establish the research priorities and minimum data sets for degenerative cervical myelopathy: sampling strategy of the first round consensus surveys of AO spine RECODE-DCM. *Global Spine J*. 2021 Dec 8:21925682211047546. doi: 10.1177/21925682211047546. Epub ahead of print. PMID: 34879754.

Tetreault L, Garwood P, Gharooni AA, Touzet AY, Nanna-Lohkamp L, Martin A, Wilson J, Harrop JS, Guest J, **Kwon BK**, Milligan J, Arizala AM, Riew KD, Fehlings MG, Kotter MR, Kalsi-Ryan S, Davies B. Improving assessment of disease severity and strategies for monitoring progression in degenerative cervical myelopathy [AO Spine RECODE DCM Research Priority Number 4]. *Global Spine J*. 2021 Dec 31:21925682211063854. doi: 10.1177/21925682211063854. Epub ahead of print. PMID: 34971524.

Siddiq MM, Hannila SS, Zorina Y, Nikulina E, Rabinovich V, Hou J, Huq R, Richman EL, Tolentino RE, Hansen J, Velenosi A, **Kwon BK**, Tsirka SE, Maze I, Sebra R, Beaumont KG, Toro CA, Cardozo CP, Iyengar R, Filbin MT. Extracellular histones, a new class of inhibitory molecules of CNS axonal regeneration. *Brain Commun*. 2021 Nov 13;3(4):fcab271. doi: 10.1093/braincomms/fcab271. PMID: 34993473; PMCID: PMC8728726.

Lasry O, Ailon T, Charest-Morin R, Dea N, Dvorak M, Fisher C, Gara A, **Kwon B**, Lloyd-Smith E, Paquette S, Wong T, Street J. Accuracy of hospital-based surveillance systems for surgical site infection after adult spine surgery: a Bayesian latent class analysis. *J Hosp Infect*. 2021 Nov;117:117-123. doi: 10.1016/j.jhin.2021.07.005. Epub 2021 Jul 14. PMID: 34273471.

Tetreault L, Kalsi-Ryan S, Benjamin Davies, Nanna-Lohkamp L, Garwood P, Martin AR, Wilson JR, Harrop JS, Guest JD, **Kwon BK**, Milligan J, Arizala AM, Kotter MR, Fehlings MG. Degenerative cervical myelopathy: a practical approach to diagnosis. *Global Spine J.* 2022 Jan 19;21925682211072847. doi: 10.1177/21925682211072847. Epub ahead of print. PMID: 35043715.

Ashok A, Andrabi SS, Mansoor S, Kuang Y, **Kwon BK**, Labhassetwar V. Antioxidant therapy in oxidative stress-induced neurodegenerative diseases: role of nanoparticle-based drug delivery systems in clinical translation. *Antioxidants (Basel).* 2022 Feb 17;11(2):408. doi: 10.3390/antiox11020408. PMID: 35204290; PMCID: PMC8869281.

Boerger TF, Hynstrom AS, Furlan JC, Kalsi-Ryan S, Curt A, **Kwon BK**, Kurpad SN, Fehlings MG, Harrop JS, Aarabi B, Rahimi-Movaghar V, Guest JD, Wilson JR, Davies BM, Kotter MRN, Koljonen PA. Developing peri-operative rehabilitation in degenerative cervical myelopathy [AO Spine RECODE-DCM Research Priority Number 6]: an unexplored opportunity? *Global Spine J.* 2022 Feb;12(1_suppl):97S-108S. doi: 10.1177/21925682211050925. PMID: 35174735; PMCID: PMC8859699.

Davies BM, Mowforth O, Wood H, Karimi Z, Sadler I, Tetreault L, Milligan J, Wilson JRF, Kalsi-Ryan S, Furlan JC, Kawaguchi Y, Ito M, Zipser CM, Boerger TF, Vaccaro AR, Murphy RKJ, Hutton M, Rodrigues-Pinto R, Koljonen PA, Harrop JS, Aarabi B, Rahimi-Movaghar V, Kurpad SN, Guest JD, Wilson JR, **Kwon BK**, Kotter MRN, Fehlings MG. Improving awareness could transform outcomes in degenerative cervical myelopathy [AO Spine RECODE-DCM Research Priority Number 1]. *Global Spine J.* 2022 Feb;12(1_suppl):28S-38S. doi: 10.1177/21925682211050927. PMID: 35174734; PMCID: PMC8859708.

Tetreault L, Mowforth O, Khan DZ, Gronlund T, Garwood P, Hazenbiller O, Harrop JS, Aarabi B, Rahimi-Movaghar V, Kurpad SN, Guest JD, Wilson JR, **Kwon BK**, Fehlings MG, Davies BM, Kotter MRN; AO Spine RECODE-DCM Steering Committee and AO Spine RECODE-DCM Consortium. James Lind Alliance priority setting partnership for degenerative cervical myelopathy [AO Spine RECODE-DCM]: an overview of the methodology used to process and short-list research uncertainties. *Global Spine J.* 2022 Feb;12(1_suppl):19S-27S. doi: 10.1177/21925682211062501. PMID: 35174731; PMCID: PMC8859709.

Davies BM, Phillips R, Clarke D, Furlan JC, Demetriades AK, Milligan J, Witiw CD, Harrop JS, Aarabi B, Kurpad SN, Guest JD, Wilson JR, **Kwon BK**, Vaccaro AR, Fehlings MG, Rahimi-Movaghar V, Kotter MRN. Establishing the socio-economic impact of degenerative cervical myelopathy is fundamental to improving outcomes [AO Spine RECODE-DCM Research Priority Number 8]. *Global Spine J.* 2022 Feb;12(1_suppl):122S-129S. doi: 10.1177/21925682211039835. PMID: 35174730; PMCID: PMC8859704.

Hilton B, Gardner EL, Jiang Z, Tetreault L, Wilson JRF, Zipser CM, Riew KD, Guest JD, Harrop JS, Fehlings MG, Rodrigues-Pinto R, Rahimi-Movaghar V, Aarabi B, Koljonen PA, Kotter MRN, Davies BM, **Kwon BK**. Establishing diagnostic criteria for degenerative cervical myelopathy [AO Spine RECODE-DCM Research Priority Number 3]. *Global Spine J.* 2022 Feb;12(1_suppl):55S-63S. doi: 10.1177/21925682211030871. PMID: 35174729; PMCID: PMC8859706.

Davies BM, Mowforth O, Gharooni AA, Tetreault L, Nouri A, Dhillon RS, Bednarik J, Martin AR, Young A, Takahashi H, Boerger TF, Newcombe VF, Zipser CM, Freund P, Koljonen PA, Rodrigues-Pinto R, Rahimi-Movaghar V, Wilson JR, Kurpad SN, Fehlings MG, **Kwon BK**, Harrop JS, Guest JD, Curt A, Kotter MRN. A new framework for investigating the biological basis of degenerative cervical myelopathy [AO Spine RECODE-DCM Research Priority Number 5]: Mechanical Stress, Vulnerability and Time. *Global Spine J.* 2022 Feb;12(1_suppl):78S-96S. doi: 10.1177/21925682211057546. PMID: 35174728; PMCID: PMC8859710.

Nouri A, Tessitore E, Molligaj G, Meling T, Schaller K, Nakashima H, Yukawa Y, Bednarik J, Martin AR, Vajkoczy P, Cheng JS, **Kwon BK**, Kurpad SN, Fehlings MG, Harrop JS, Aarabi B, Rahimi-Movaghar V, Guest JD, Davies BM, Kotter MRN, Wilson JR. Degenerative cervical myelopathy: development and natural history [AO Spine RECODE-DCM Research Priority Number 2]. *Global Spine J.* 2022 Feb;12(1_suppl):39S-54S. doi: 10.1177/21925682211036071. PMID: 35174726; PMCID: PMC8859703.

Gharooni AA, **Kwon BK**, Fehlings MG, Boerger TF, Rodrigues-Pinto R, Koljonen PA, Kurpad SN, Harrop JS, Aarabi B, Rahimi-Movaghar V, Wilson JR, Davies BM, Kotter MRN, Guest JD. Developing novel therapies for degenerative cervical myelopathy [AO Spine RECODE-DCM Research Priority Number 7]: opportunities from restorative

neurobiology. *Global Spine J.* 2022 Feb;12(1_suppl):109S-121S. doi: 10.1177/21925682211052920. PMID: 35174725; PMCID: PMC8859698.

Crispo JAG, Liu LJW, Noonan VK, Thorogood NP, **Kwon BK**, Dvorak MF, Thibault D, Willis A, Cragg JJ. Pediatric traumatic spinal cord injury in the United States: a national inpatient analysis. *Top Spinal Cord Inj Rehabil.* 2022 Winter;28(1):1-12. doi: 10.46292/sci21-00047. Epub 2022 Jan 19. PMID: 35145330; PMCID: PMC8791421.

Neural Repair and Regeneration after Spinal Cord Injury and Spine Trauma, Edited by Michael G. Fehlings, Brian K. Kwon, Alexander R. Vaccaro, and F. Cumhur Oner. Elsevier, London, UK, 2022. Hardcover ISBN: 9780128198353

Tania Lam

Zhou X, Williams AMM, Lam T. The effects of exercise-based interventions on urogenital outcomes in persons with spinal cord injury: a systematic review and meta-analysis. *J Neurotrauma.* 2021;38(9):1225-1241. DOI: 10.1089/neu.2020.7454.

Eginyan G, Williams AMM, Joseph KS, Lam T. Trunk muscle activity and kinematics during boxing and battle rope exercise in people with motor-complete spinal cord injury. *J Spinal Cord Medicine.* 2021. DOI: 10.1080/10790268.2021.2005993.

Sachdeva R, Nightingale TE, Pawar K, Kalimullina T, Mesa A, Marwaha A, **Williams AMM, Lam T, Krassioukov A.** Noninvasive neuroprosthesis promotes cardiovascular recovery after spinal cord injury. *Neurotherapeutics.* 2021;18(2):1244-1256. DOI: 10.1007/s13311-021-01034-5.

Williams AMM, Deegan E, Walter M, Stothers L, Lam T. Exoskeleton training to improve lower urinary tract function in people with motor-complete spinal cord injury: a randomized pilot trial. *J Rehabil Med.* 2021;53(8):jrm00222. DOI: 10.2340/16501977-2864.

Corree Laule

Dvorak AV, Swift-LaPointe T, Vavasour IM, Lee LE, Abel S, Russell-Schulz BA, Graf C, Wurl A, Liu H, **Laule C, Li DKB, Trabousee A, Tam R, Boyd LA, MacKay AL, Kolind SH.** An atlas for human brain myelin content throughout the adult life span. *Scientific Reports.* 2021 Jan 11;11(1):269.

Dao E, Tam R, Hsiung G-YR, ten Brinke L, Crockett R, Barha CK, Yoo Y, Keridy WA, Doherty SH, **Laule C, MacKay AL, Liu-Ambrose T.** Exploring the contribution of myelin content in normal appearing white matter to cognitive outcomes in subcortical ischemic vascular cognitive impairment. *Journal of Alzheimer's Disease.* 2021;80(1):91-101.

Prevost V, Yung A, Morris SR, Vavasour IM, Samadi F, Moore GRW, **Laule C, MacKay AL, Kozlowski P.** Temperature dependence and histological correlation of inhomogeneous magnetization transfer and myelin water imaging in ex vivo brain. *Neuroimage.* 2021 Apr 20;236:118046

Luczynski P, **Laule C, Hsiung G-YR, Moore GRW, Tremlett H.** Coexistence of multiple sclerosis and Alzheimer's disease: a case series. *Journal of Neurology Research.* 2021 Aug;11(3-4):60-67

Cohen-Adad J, et al (92 authors, including **Laule C**). Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. *Scientific Data.* 2021 Aug 16;8(1):219

Holmes RD, Vavasour IM, Greenfield J, Zhao G, Lee JS, Moore GRW, Tam R, Letz LM, Trabousee A, Li DKB, **Laule C.** Nonlesional diffusely abnormal appearing white matter in clinically isolated syndrome: Prevalence, association with clinical and MRI features, and risk for conversion to multiple sclerosis. *Journal of Neuroimaging.* 2021 Sep;31(5):981-994

Kamma E, Becquart P, Trabousee A, Schabas A, Vavasour IM, **Laule C, Vilariño-Güell C, Quandt JA.** Elevated levels of serum CD5 antigen-like protein distinguish secondary progressive multiple sclerosis from other disease subtypes. *Multiple Sclerosis and Related Disorders.* 2021 Sep 20;56:103269

Cohen-Adad J, et al (92 authors, including **Laule C**). Generic acquisition protocol for quantitative MRI of the spinal cord. *Nature Protocols.* 2021 Oct;16(10):4611-4632

Vavasour IM, Chang KL, Combes AJE, Meyers SM, Kolind SH, Rauscher A, Li DKB, Traboulsee A, MacKay AL, **Laule C**. Water content changes in new multiple sclerosis lesions have minimal effect on determination of myelin water fraction values. *Journal of Neuroimaging*. 2021 Nov;31(6):1119-1125

Lee LE, Vavasour IM, Dvorak A, Liu H, Abel S, Johnson P, Ristow S, Au S, **Laule C**, Tam R, Li DKB, Cross H, Ackermans N, Schabas A, Chan J, Sayao A-L, Devonshire V, Carruthers R, Traboulsee A, Kolind S. Cervical cord myelin abnormality is associated with clinical disability in MS. *Multiple Sclerosis*. 2021 Dec;27(14):2191-2198

Vavasour IM, Yik J, Becquart P, Gill J, Kolind SH, Tam R, Schabas AJ, Sayao A-L, Devonshire V, Carruthers RL, Traboulsee A, Moore GRW, Stukas S, Wellington C, Quandt JA, Li DKB, **Laule C**. Diffusely abnormal white matter in clinically isolated syndrome is associated with parenchymal loss and elevated neurofilament levels. *Multiple Sclerosis and Related Disorders*. 2021 Nov 26;57:103422.

Liu H, Joseph TS, Xiang Q-S, Tam R, Kozlowski P, Li DKB, MacKay AL, Kramer JLK, **Laule C**. A novel T2 relaxation analysis method SAME-ECOS: Spectrum Analysis for Multiple Exponentials via Experimental Condition Oriented Simulation. *Magnetic Resonance in Medicine* 2022 Feb;87(2):915-931

Kathleen Martin Ginis

Mortenson WB, Routhier F, Mahmood A, Prescott M, Labbé D, **Martin Ginis KA**, Miller WC (2022). Predictors of psychological distress and confidence negotiating physical and social environments among mobility device users. *American Journal of Physical Medicine and Rehabilitation*, 101(4), 324-330. Doi: 10.1097/PHM.0000000000001816.

Bonaccio S, Connelly CE, Gellatly IR, Jetha A, & **Martin Ginis KA** (2022). The participation of people with disabilities in the workplace across the employment cycle: Employer concerns and research evidence. In R. E. Riggio & S. K. Johnson (Eds.) *Introduction to Industrial/Organizational Psychology* (8th Ed). New York: Routledge Taylor & Francis.

Martin Ginis KA, Sharma R, Brears SL (2022). Physical activity and chronic disease prevention: Where is the research on people with disabilities? *Canadian Medical Association Journal*, 194, E338-40. doi: 10.1503/cmaj.211699

Ma JK Walden K, McBride CB, Le Cornu Levett C, Colistro R, Plashkes T, Thorson T, Shu, H, **Martin Ginis KA** (2022). Implementation of the spinal cord injury exercise guidelines in the hospital and community settings: Protocol for a type II hybrid trial. *Spinal Cord*, 60, 53-57. <https://doi.org/10.1038/s41393-021-00685-7> *Editor's Choice

Martin Ginis KA, van der Ploeg H, Smith B, Lai B, Heath GW (2021). Enabling physical activity for people living with disabilities - Authors' reply. *The Lancet*, 398(10316), 2074.

Shaw RB, Lawrason SVC, Todd KR, & **Martin Ginis KA** (2021) A scoping review of peer mentorship studies for people with disabilities: Exploring interaction modality and frequency of interaction. *Health Communication*, 36(14), 1841-1851. DOI: 10.1080/10410236.2020.1796293

Todd KR, Shaw RB, Kramer JLK, & **Martin Ginis KA** (2021). Using ecological momentary assessment to evaluate neuropathic pain experienced by adults with SCI: recommendations and participant perceptions. *Disability and Rehabilitation*, 43(17), 2439-2446. Doi: 10.1080/09638288.2019.1702724

Todd KR, van der Scheer JW, Walsh JJ, Jackson GS, Dix GU, Little JP, Kramer, JLK, **Martin Ginis KA** (2021). The impact of sub-maximal exercise on neuropathic pain, inflammation, and affect among adults with spinal cord injury: A pilot study. *Frontiers in Rehabilitation Sciences*, 2, 68. doi: 10.3389/fresc.2021.700780

Martin Ginis KA, van der Ploeg HP, Foster C, Lai B, McBride CB, Ng K, Pratt M Shirazipour CH, Smith B, Vasquez PM, Heath GW (2021). Participation of people living with disabilities in physical activity: a global perspective. *The Lancet*, 398(10298), 443-455. [https://doi.org/10.1016/S0140-6736\(21\)01164-8](https://doi.org/10.1016/S0140-6736(21)01164-8).

Moore SA, Sharma R, **Martin Ginis KA**, Arbour-Nicitopoulos KP (2021). Adverse effects of the COVID-19 pandemic on movement and play behaviours of children and youth living with disabilities: Findings from the National Physical Activity Measurement (NPAM) study. *International Journal of Environmental Research and Public Health*, 18(24), 12950. doi: 10.3390/ijerph182412950.

Mikami Y, Tinduh D, Lee K, Chotiyarnwong C, van der Scheer JW, Jung KS, Shinohara H, Narasinta I, Yoon SH, Kanjanapanang N, Sakai T, Kusumawardhani MK, Park J, Prachgosin P, Obata F, Utami DA, Laohasinnarong P, Wardhani IL, Limprasert S, Tajima F, Goosey-Tolfrey VL, **Martin Ginis KA** (2021). Cultural validation and language translation of the scientific SCI exercise guidelines for use in Indonesia, Japan, Korea, and Thailand. *Journal of Spinal Cord Medicine*, Jul 6, 1-12. Epub ahead of print. Doi: 10.1080/10790268.2021.1945857.

Williams A, Ma JK, **Martin Ginis KA**, West CR (2021). Effects of a tailored physical activity intervention on cardiovascular structure and function in individuals with spinal cord injury. *Neurorehabilitation and Neural Repair*, 35(8), 692-703. doi: 10.1177/15459683211017504.

Jetha A, Gignac MAM, Ibrahim S, & **Martin Ginis KA** (2021). Disability and sex/gender intersections in unmet workplace support needs: Findings from a large Canadian survey of workers. *American Journal of Industrial Medicine*, 64(2), 149-161. doi: 10.1002/ajim.23203. <https://doi.org/10.1002/ajim.23203>

Lawrason SVC, **Martin Ginis KA** (2021) Factors associated with leisure-time physical activity participation among individuals with spinal cord injury who ambulate. *Disability and Rehabilitation*. Epub ahead of print. Doi: 10.1080/09638288.2021.1904011

Sindall P, Lenton JP, Mason BS, Tolfrey K, Cooper RA, **Martin Ginis KA**, Goosey-Tolfrey, VL (2021). Practice improves court mobility and self-efficacy in tennis-specific wheelchair propulsion. *Disability and Rehabilitation: Assistive Technology*, 16, 398-406. Doi: 10.1080/17483107.2020.1761892

Martin Ginis KA, Latimer-Cheung AE, West CR (2021). Commentary on "The First Global Physical Activity and Sedentary Behavior Guidelines for People Living with Disability". *Journal of Physical Activity and Health*, 18(4), 348-349. doi: 10.1123/jpah.2020-0871.

Gainforth HL, Hoekstra F, McKay R, McBride CB, Sweet SN, **Martin Ginis KA**, Anderson K, Chernesky J, Clarke T, Forwell S, Maffin J, McPhail L, Mortenson WB, Scarrow G, Schaefer L, Sibley KM, Athanasopoulos P, Willms R. (2021). Integrated Knowledge Translation (IKT) guiding principles for conducting and disseminating spinal cord injury (SCI) research in partnership. *Archives of Physical Medicine and Rehabilitation*, 102, 656-663. Doi 10.1016/j.apmr.2020.09.393

Martin Ginis KA, Úbeda-Colomer J, Alrashidi AA, Nigtingale TE, Au JS, Currie KD, Hubli M, Krassioukov A. (2021). Construct validation of the leisure time physical activity questionnaire for people with SCI (LTPAQ-SCI). *Spinal Cord*, 59(3), 311-318. doi: 10.1038/s41393-020-00562-9

Todd KR, Lawrason SVC, Shaw RB, Wirtz D, **Martin Ginis KA** (2021). Physical activity interventions, chronic pain, and subjective well-being among persons with spinal cord injury: A systematic scoping review. *Spinal Cord*, 59(2), 93-104. doi: 10.1038/s41393-020-00550-z

Arbour-Nicitopoulos KP, Bassett-Gunter RL, Leo J, Sharma R, Olds T, Latimer-Cheung AE, **Martin Ginis KA** (2021). A cross-sectional examination of the 24-hour movement behaviours in Canadian youth with physical and sensory disabilities. *Disability and Health Journal*, 14(1) 100980. <https://doi.org/10.1016/j.dhjo.2020.100980>.

Martin Ginis KA, West CR (2021). From guidelines to practice: development and implementation of disability-specific physical activity guidelines. *Disability and Rehabilitation*, 43(24), 3432-3439. Doi: 10.1080/09638288.2020.1757167

Wayne Moore

Ontaneda D, Raza PC, Arnold DL, Dwyer MG, Gauthier SM, Greve DN, Harrison DM, Henry RG, Li DKB, Mahajan KR, Mainero C, **Moore GRW**, Narayanan S, Oh J, Patel R, Pelletier D, Rauscher A, Rooney WD, Sicotte NL, Tam R, Reich DS, and Azevedo CJ, on behalf of the North American Imaging in Multiple Sclerosis Cooperative (NAIMS) Deep gray matter injury: A North American Imaging in Multiple Sclerosis consensus statement. *Brain* 144 (7): 1974-1984, 2021.

Prevost, VH, Yung A, Morris SR, Vavasour IM, Samadi-Bahrami Z, **Moore GRW**, Laule C, MacKay A, Kozlowski P. Temperature dependence and histological correlation of inhomogeneous magnetization transfer and myelin water imaging in ex vivo brain. *Neuroimage* 2021 Aug 1;236:118046. doi: 10.1016/j.neuroimage.2021.118046. Epub 2021 Apr 20

Blandford SN, Galloway DA, Williams JB, Arsenault S, Brown J, MacLean G, **Moore GRW**, Barron J, Ploughman M, Clift F, Stefanelli M, Moore C. Interleukin-1 receptor antagonist: An exploratory plasma biomarker that correlates with disability and provides pathophysiological insights in relapsing-remitting multiple sclerosis. *Mult Scler and Rel Dis* 52 (2021) 103006.

Vavasour IM, Sun P, Graf C, Yik J, Kolind SH, Li DKB, Sayao A-L, Schabas A, Devonshire V, Carruthers R, Trabousee A, **Moore GRW**, Song S-K, Laule C. Characterisation of multiple sclerosis neuroinflammation and neurodegeneration with relaxation and diffusion basis spectrum imaging. *Mult Scler*. 2022 Mar;28(3):418-428. doi: 10.1177/13524585211023345. Epub 2021 Jun 16.

Holmes RD, Vavasour IM, Greenfield J, Zhao G, Lee JS, **Moore GRW**, Tam R, Metz LM, Trabousee A, Li DKB, Laule C. Nonlesional diffusely abnormal appearing white matter in clinically isolated syndrome: Prevalence, association with clinical and MRI features, and risk for conversion to multiple sclerosis. *J Neuroimaging*. 2021 Sep;31(5):981-994. doi: 10.1111/jon.12900. Epub 2021 Jun 15.

Cairns J, Vavasour IM, Trabousee A, Carruthers R, Kolind SH, Li DKB, **Moore GRW**, Laule C. Diffusely abnormal white matter in multiple sclerosis. *J Neuroimaging* 2022 Jan;32(1):5-16. doi: 10.1111/jon.12945. Epub 2021 Nov 9.

Vavasour IM, Becquart P, Gill J, Zhao G, Yik JT, Trabousee A, Carruthers RL, Kolind S, Schabas AJ, Sayao AL, Devonshire V, Tam R, **Moore GRW**, Stukas S, Wellintom C, Quandt J, Li DKB, Laule C. Diffusely abnormal white matter in clinically isolated syndrome is associated with parenchymal loss and elevated neurofilament levels. *Mult Scler Relat Disord* 2022 Jan;57:103422. doi: 10.1016/j.msard.2021.103422.

Yik JT, Becquart P, Gill J, Petkau J, Trabousee A, Carruthers R, Kolind SH, Devonshire V, Sayao AL, Schabas A, Tam R, **Moore GRW**, Li DKB, Stukas S, Wellington C, Quandt JA, Vavasour IM, Laule C. Serum neurofilament light chain correlates with myelin and axonal magnetic resonance imaging markers in multiple sclerosis. *Mult Scler Relat Disord* 2022 Jan;57:103366. doi: 10.1016/j.msard.2021.103366. Epub 2021 Nov 3.

Ben Mortenson

Hoogenes B, Querée M, Miller WC, **Mortenson WB**, Townson A, Eng JJ (2021). Evidence on definitions, concepts, outcome instruments, and interventions for chronic fatigue in spinal cord injury: A scoping review protocol. *Joanna Briggs Institute Evidence Synthesis*, 19(8), 1996-2006. Doi: [10.11124/JBIES-20-00214](https://doi.org/10.11124/JBIES-20-00214)

Hernández-Cruz N, Castro L, Medina J, Favela J, Michan L, **Mortenson WB** (2021). Scoping review of healthcare literature on mobile, wearable, and textile sensing technology for continuous monitoring. *Journal of Healthcare Informatics Research*, 5, 270-299. Doi: [10.1007/s41666-020-00087-z](https://doi.org/10.1007/s41666-020-00087-z)

Gainforth HL, Hoekstra F, McKay R, McBride CB, Sweet SN, Martin Ginis KA, Anderson K, Chernesky J, Clarke T, Forwell S, Maffin J, McPhail L, **Mortenson WB**, Scarrow G, Schaefer L, Sibley K, Athanasopoulos P, Willms R (2021). The integrated knowledge translation (IKT) guiding principles for conducting and disseminating spinal cord injury (SCI) research in partnership. *Archives of Physical Medicine and Rehabilitation*, 102(4), 656-663. <https://doi.org/10.1016/j.apmr.2020.09.393>

Prescott M, Miller WC, Tan P, Garside N, Borisoff J, Feick RD, **Mortenson WB** (2021). An exploration of the navigational behaviours of people who use wheeled mobility devices in unfamiliar pedestrian environments. *Journal of Transport & Health*. <https://doi.org/10.1016/j.jth.2020.100975>

Mortenson WB, Battalova A, Hurd L, Hobson S, Emery R, Kirby RL (2021). Correlates of self-reported Wheelchair Skills Test Questionnaire scores of new users of mobility scooters: A cross-sectional study. *Disability and Rehabilitation: Assistive Technology*, 27, 1-8. doi: [10.1080/17483107.2021.1874065](https://doi.org/10.1080/17483107.2021.1874065)

Wong R, Stewart A, Sawatzky B, Laskin J, Borisoff J, Mattie J, Sparrey C, **Mortenson WB** (2021). Exploring exercise participation and the usability of the adaptive rower and arm crank ergometer through wheelchair users' perspectives. *Disability and Rehabilitation*. doi: [10.1080/09638288.2021.1894245](https://doi.org/10.1080/09638288.2021.1894245)

Hoekstra F, **SCI Guiding Principles Panel (including Mortenson WB)**, Gainforth HL (2021). Principles and related strategies for spinal cord injury research partnership approaches: a qualitative study. *Evidence & Policy*, 1-14. doi: [10.1332/174426421X16161715996124](https://doi.org/10.1332/174426421X16161715996124).

Hoekstra F, Schaefer L, Athanasopoulos P, **SCI Guiding Principles Consensus Panel (including Mortenson WB)**, Gainforth HL (2021). Researchers' and research users' experiences with working together in spinal cord research partnerships: A qualitative study. *International Journal of Health Policy and Management*, 1-12. doi: [10.34172/ijhpm.2021.35](https://doi.org/10.34172/ijhpm.2021.35)

Khalili M, Jonathan C, Hocking N, Van der Loos HFM, **Mortenson WB**, Borisoff J (2021). Perception of autonomy among people who use wheeled mobility assistive devices: Dependence on environment and contextual factors. *Disability and Rehabilitation: Assistive Technology*. <https://doi.org/10.1080/17483107.2021.1978565>

Mortenson WB, Routhier F, Mahmood A, Prescott M, Labbé D, Martin Ginis KA, Miller WC (2021). Predictors of psychological distress and confidence negotiating physical and social environments among mobility device users. *American Journal of Physical Medicine & Rehabilitation*, 101(4), 324-330. doi: [10.1097/PHM.0000000000001816](https://doi.org/10.1097/PHM.0000000000001816)

Theurer K, Stone RI, Suto MJ, Timonen V, Brown SG, **Mortenson WB** (2021). 'It makes you feel good to help!': The experience of peer mentoring in long-term care. *British Journal of Social Psychology*, 25(10), 1887-1896. doi: [10.1080/13607863.2020.1849023](https://doi.org/10.1080/13607863.2020.1849023)

Gan DRY, Mahmood A, Routhier F, **Mortenson WB** (2021). Walk/wheelability: An inclusive instrument-pair for participatory aging-friendly research and practice. *The Gerontologist*, gnab079. <https://doi.org/10.1093/geront/gnab079>

Reid H, Miller WC, Esfandiari E, Mohammadi S, Rash I, Tao G, Simpson E, Leong K, Matharu P, Sakakibara B, Schmidt J, Jarus T, Forwell S, Borisoff J, Backman C, Alic A, Brooks E, Chan J, Flockhart E, Irish J, Tsukura C, Dispirito N, **Mortenson WB** (2021). The impact of COVID-19 related restrictions on social and daily activities of parents, people with disabilities and older adults: Protocol for a longitudinal, mixed-methods study. *JMIR Research Protocols*, 10(9), e28337. doi: [10.2196/28337](https://doi.org/10.2196/28337)

Theurer K, Stone RI, Suto MJ, Timonen V, Brown SG, **Mortenson WB** (2021). 'It makes you feel good to help!': An exploratory study on the experience of peer-mentoring in long-term care. *Canadian Journal of Aging*, 41(3).

Simpson LA, Menon C, Hodgson AJ, **Mortenson WB**, Eng JJ (2021). Clinicians' perceptions of a potential wearable device for capturing upper limb activity post-stroke: A qualitative focus group study. *Journal of NeuroEngineering and Rehabilitation*, 18, 135. <https://doi.org/10.1186/s12984-021-00927-y>

Merrick D, Hillma K, Wilson A, Labbe D, Thompson A, **Mortenson WB** (2021). All aboard: Users' experiences of adapted paddling programs. *Disability and Rehabilitation*, 43(20): 2945-2951. doi: [10.1080/09638288.2020.1725153](https://doi.org/10.1080/09638288.2020.1725153)

Louie DR, **Mortenson WB**, Lui M, Durocher M, Teasell R, Yao J, Eng JJ. Patients' and therapists' experience and perception of exoskeleton-based physiotherapy during subacute stroke rehabilitation: A qualitative analysis. *Disability and Rehabilitation*. Doi: [10.1080/09638288.2021.1989503](https://doi.org/10.1080/09638288.2021.1989503)

Gainforth HL, McKay RC, Hoekstra F, Maffin J, Sibley KM, Jung ME, **SCI Guiding Principles Consensus Panel (including Mortenson WB)** (2021). Principles to guide spinal cord injury research partnerships: A Delphi consensus study. *Disability and Rehabilitation*, 1-8.

Prescott M, Routhier F, Labbé D, Grandisson M, Mahmood A, Morales E, Best KL, Mostafavi MA, Borisoff J, Gamache S, Sawatzky B, Miller WC, Bulk LY, Robillard JM, Ford HT, Seetharaman KR, **Mortenson WB** (2022). Providing accessible recreation outdoors - User-driven research on standards (PARCOURS): A study protocol. *JMIR Research Protocols*, 11(3), e33611.

Simpson LA, Barclay R, Bayley T, Dukelow SP, MacIntosh BJ, Marilyn M, Menon C, **Mortenson WB**, Peng TH, Pollock CL, Pooyania S, Teasell R, Yang CL, Yao J, Eng JJ (2022). Virtual Arm Boot Camp (V-ABC): Study protocol for a mixed-methods study to increase upper limb recovery after stroke with an intensive program coupled with a grasp count device. *Trials*, 23(129): 1-12.

Battalova A, Hurd L, Hobson S, Kirby RL, Emery R, **Mortenson WB** (2022). "Dirty looks": A critical phenomenology of motorized mobility scooter use. *Social Science & Medicine*, 297. <https://doi.org/10.1016/j.socscimed.2022.114810>

Tom Oxland

Noonan AM, **Oxland TR**, Brown SHM. Investigating the active contractile function of the rat paraspinal muscles reveals unique cross-bridge kinetics in the multifidus. *Eur Spine J*. 2022 Jan 28. doi: 10.1007/s00586-022-07120-2. Online ahead of print.

Yamamoto S, Whyte T, Van Toen C, Melnyk A, Shewchuk J, Street J, Cripton P, **Oxland TR**. The diagnostic precision of computed tomography for traumatic cervical spine injury: An in vitro biomechanical investigation. *Clin Biomech* 2021 Nov 13;92:105529. doi: 10.1016/j.clinbiomech.2021.105529.

Dourthe B, Shaikh N, Pai S A, Fels S, Brown SHM, Wilson DR, Street J, **Oxland TR**. - Automated segmentation of spinal muscles from upright open MRI using a multi-scale pyramid 2D convolutional neural network. *Spine (Phila Pa 1976)*. 2021 Dec 15. doi: 10.1097/BRS.0000000000004308. Online ahead of print.

Yamamoto S, Dias L, Street J, Cripton PA, **Oxland TR**. Anteroposterior shear stiffness of the upper thoracic spine at quasi-static and dynamic loading rates-An in vitro biomechanical study. *J Orthop Res*. 2021 Oct 20. doi: 10.1002/jor.25196.

Melnyk A, Whyte T, Van Toen C, Yamamoto S, Street J, **Oxland TR**, Cripton PA. The effect of end condition on spine segment biomechanics in compression with lateral eccentricity. *J Biomech*. 2021 Nov 9;128:110617. doi: 10.1016/j.jbiomech.2021.110617.

Shaikh N, Zhang H, Brown SHM, Lari H, Lasry O, Street J, Wilson DR, **Oxland TR**. Synchronous imaging of pelvic geometry and muscle morphometry: a pilot study of pelvic retroversion using upright MRI. *Sci Rep*. 2021 Oct 11;11(1):20127. doi: 10.1038/s41598-021-99305-w.

Malakoutian M, Theret M, Yamamoto S, Dehghan-Hamani I, Lee M, Street J, Rossi F, Brown SHM, **Oxland TR**. Larger muscle fibers and fiber bundles manifest smaller elastic modulus in paraspinal muscles of rats and humans. *Sci Rep*. 2021 Sep 17;11(1):18565. doi: 10.1038/s41598-021-97895-z.

Yamamoto S, Malakoutian M, Theret M, Street J, Rossi F, Brown SHM, Saito M, **Oxland TR**. The Effect of Posterior Lumbar Spinal Surgery on Biomechanical Properties of Rat Paraspinal Muscles 13 Weeks After Surgery. *Spine (Phila Pa 1976)*. 2021 Nov 1;46(21):E1125-E1135. doi: 10.1097/BRS.0000000000004036.

Pai S A, Zhang H, Ashjaee N, Wilson DR, Brown SH, Fels S, Street J, **Oxland TR**. Estimation and assessment of sagittal spinal curvature and thoracic muscle morphometry in different postures. *Proc Inst Mech Eng H*. 2021 May 12;9544119211014668. doi: 10.1177/09544119211014668.

Mattucci S, Speidel J, Liu J, Tetzlaff W, **Oxland TR**. Temporal Progression of Acute Spinal Cord Injury Mechanisms in a Rat Model: Contusion, Dislocation, and Distraction. *J Neurotrauma*. 2021 Jun 9. doi: 10.1089/neu.2020.7255.

Malakoutian M, Yamamoto S, Sadaram S, Speidel J, Liu J, Street J, Brown SHM, **Oxland TR**. The effect of vertebral level on biomechanical properties of the lumbar paraspinal muscles in a rat model. *J Mech Behav Biomed Mater*. 2021 Jun;118:104446. doi: 10.1016/j.jmbbm.2021.104446. Epub 2021 Mar 15.

Matt Ramer

Kramer JLK, Linde LD, **Ramer M** in *Spinal Cord Injury Pain* (eds Sang CN & Hulsebosch CE) 113-123 (Academic Press, 2022).

Fossey, MPM *et al*. Spinal cord injury impairs cardiac function due to impaired bulbospinal sympathetic control. *Nat Commun* 13, 1382, doi:10.1038/s41467-022-29066-1 (2022).

Bonnie Sawatzky

Webber J, Wuschke J, **Sawatzky B**, Mortenson WB. Evaluating common approaches to improve visibility of wheelchair users. *Disability and Rehabilitation: Assistive Technology*. 2021. 33(4): 201-205.

Eshraghi M, **Sawatzky B**, Mortenson WB. Feasibility of a Peer-led, Manual Wheelchair Maintenance Skills Training Program to Improve Wheelchair Efficiency and Knowledge and Confidence about Wheelchair Maintenance: A Pre-post Study. *Disability and Rehabilitation: Assistive technology*. 2021; 16 (8): 918-926

Manocha R, MacGillivray M, Eshraghi M, **Sawatzky B**. Injuries associated with crutch use: a narrative review. *Physical Medicine and Rehabilitation*. 2021; 13(10): 1176-1192.

Sawatzky B, Walters- Schumka A, Edwards C, Shenkier T, Harris S. A Perspective on Breast Cancer in Women with Spinal Cord Injuries. *Spinal Cord*. (2021) Jun;59(6):700-704.

Simpson E, **Sawatzky B**, Forwell S, Backman CL, Symington D, Vu M, Mortenson WB. Sustaining a Spinal Cord Injury Earlier Versus Later in Life: Comparing Experiences and Outcomes. *Archives of Physical Medicine and Rehabilitation*. 2021;102(10) E29

Gagnon M, Merlo G, Yap R, Collins J, Elfassy C, **Sawatzky B**, Marsh J, Hamdy R, Veilleux L, Dahan-Oliel N. Using telerehabilitation to deliver a home exercise program to youths with arthrogryposis: A pilot study. *Journal of Medical Informatics Research*. (2021) doi: 10.2196/27064.

Singh G, **Sawatzky B**, Nimmon L, Mortenson B. Experiences of individuals with spinal cord injury with internet-based health resources. *Archives of Physical Medicine and Rehabilitation*. (2021) 102 (10)

Sawatzky B, Herrington, B, Choi K, Mortenson WB, Borisoff J, Sparrey C, Mattie J, Laskin JJ. Physiology of exercise on an adapted rowing machine in people with spinal cord injury or disease. *Spinal Cord* (2022) DOI: 10.1038/s41393-022-00757-2

Prescott M, Routhier F, Labbé D, Mortenson WB, Mahmood A, Morales E, Best KL, Mostafavi MA, Borisoff J, Gamache S, **Sawatzky B**, Miller WC, Bulk LY, Robillard JM, Ford HT, Seetharaman KR. Providing Accessible ReCreation Outdoors - User-driven Research on Standards (PARCOURS): A study protocol. *JMIR Protocol*. (2022) 2022 Mar doi: 10.2196/33611.

De Goot S, Cowan, RE, MacGillivray M, Leving M, **Sawatzky B**. The effect of external power output and its reliability on propulsion technique variables in wheelchair users with spinal cord injury. *IEEE Transactions on Neural Systems & Rehabilitation Engineering*. (2022) 30: 296-304

Babak Shadgan

Afshar K, **Shadgan B**, Tolouei B. "Optical monitoring in kidney transplant," *Proc. SPIE 11958, Optical Interactions with Tissue and Cells XXXIII; and Advanced Photonics in Urology*, 119580A (16 March 2022). DOI: <https://doi.org/10.1117/12.2604261>

Mah A, Ghazi Zadeh L, Khoshnam Tehrani M, Askari S, **Shadgan B**. Studying the accuracy of infrared thermography for measuring core body temperature. *Proc. SPIE 11956, Biophotonics in Exercise Science, Sports Medicine, Health Monitoring Technologies, and Wearables III*, 119560E (2 March 2022). DOI: <https://doi.org/10.1117/12.2608929>

Cheung A, Askari S, Sahragard F, Raschdorf K, Webster M, Warner A, Ethridge J, So K, Frank G, Hill J, Streijger F, Kwon B, **Shadgan B**. A method for the fixation of an implantable spinal cord NIRS sensor. *Proc. SPIE 11956, Biophotonics in Exercise Science, Sports Medicine, Health Monitoring Technologies, and Wearables III*, 1195606 (2 March 2022). DOI: <https://doi.org/10.1117/12.2609065>

Askari S, Bastany Z, Askari B, **Shadgan B**, Dumont G. Combined near-infrared spectroscopy (NIRS) and electroencephalography (EEG) in gamma-band during pain perception. *Proc. SPIE 11956, Biophotonics in Exercise Science, Sports Medicine, Health Monitoring Technologies, and Wearables III*, 1195604 (2 March 2022). DOI: <https://doi.org/10.1117/12.2622420>

Sahragard F, Cheung A, Streijger F, Askari S, Kwon B, **Shadgan B**. "Histological assessment of an implantable optical sensor and spinal cord tissue interface," *Proc. SPIE 11956, Biophotonics in Exercise Science, Sports Medicine, Health Monitoring Technologies, and Wearables III*, 1195607 (2 March 2022). DOI: <https://doi.org/10.1117/12.2614081>

Wyss JKM, Ghazi Zadeh L, Madden JDW, **Shadgan B**. Studying the effects of externally applied pressure on soft tissue oxygenation. *Proc. SPIE*, 11956, *Biophotonics in Exercise Science, Sports Medicine, Health Monitoring Technologies, and Wearables III*, 119560A (2 March 2022). DOI: <https://doi.org/10.1117/12.2620725>

Molnára S, Hunyad Z, Gáspáre K, Szerbf I, Szabóh N, Menschi K, Körösij É, Bacskai K, Kálmán Sánthab Á, I, Jankae EA, **Shadgan B**. Moderate and severe injuries at five international olympic-style wrestling tournaments during 2016-2019. *Journal of Sports Science and Medicine* 2022; 21:74 – 81. DOI: <https://doi.org/10.52082/jssm.2022.74>.

Mah AJ, Ghazi Zadeh L, Khoshnam Tehrani M, Askari S, Gandjbakhche AH, **Shadgan B**. Studying the Accuracy and Function of Different Thermometry Techniques for Measuring Body Temperature. *Biology*. 2021; 10(12):1327. DOI: <https://doi.org/10.3390/biology10121327>

Ramella-Roman JC, Gandjbakhche AH, Kanick SC, **Shadgan B**, Tromberg BJ. Special Section Guest Editorial: Wearable, Implantable, Mobile, and Remote Biomedical Optics and Photonics. *J. Biomed. Opt.* 2021;26(6):062701.

Lynn Stothers

Keung M, Strejger F, Herrity A, Ethridge J, Dougherty S, Aslan S, Webster M, Fisk S, Deegan E, Tessier-Cloutier B, Chen K, Morrison C, Okon E, Tichelaar S, Manouchehri N, Kim K, Short K, So K, Damaser M, Sherwood L, Howland D, Boakye M, Hubscher C, **Stothers L**, Kavanagh A, Kwon B. Characterization of Lower Urinary Tract Dysfunction after Thoracic Spinal Cord Injury in Yucatan Mini-Pigs. *Journal of Neurotrauma* May 2021, p 1306-1326

Stothers L, Locke J, Abdulaziz M, Lazare D, Cavanagh A, Macnab AJ. Standing Open Magnetic Resonance Imaging for Improved Detection and Staging of Pelvic Organ Prolapse. *Can Urol Assoc J* 2021 August 26; Epub ahead of print.

Locke JA, Macnab A, Garg S, McKeown M, **Stothers L**. Characterizing the cortical pathways underlying visual trigger induced urinary urgency incontinence by functional MRI. *Neurourology & urodynamics*, 2020; 41: 48-53

Williams AMM, Deegan E, Walter M, **Stothers L**, Lam T. Exoskeleton gait training to improve lower urinary tract function in people with motor-complete spinal cord injury: A randomized pilot trial. *Journal of Rehabilitation Medicine*, 2021; 53(8)

Stothers L, Locke JA, Abdulaziz M, Lazare D, Kavanagh A, Macnab A. Standing open magnetic resonance imaging improves detection and staging of pelvic organ prolapse. *Canadian Urologic Association Journal*, 2022; 16(1), E20

Macnam AJ, **Stothers L**. Technological advances in NIRS devices and parameters measured: examples from clinical studies of the urologic system. *SPIE 11956*,84-93, 2022/3/2

Stothers L, Macnam AJ. Home-based monitoring of lower urinary tract health: simultaneous measures using wearable near infrared spectroscopy and linked wireless scale. *SPIE 11956*, 55-60, 2022/3/2

Wolfram Tetzlaff

Moulson AJ, Squair JW, Franklin RJM, **Tetzlaff W**, Assinck P. Diversity of Reactive Astrogliosis in CNS Pathology: Heterogeneity or Plasticity? *Front Cell Neurosci*. 2021 Jul 26;15:703810. doi: 10.3389/fncel.2021.703810. eCollection 2021.PMID: 34381334

Seira O, Kolehmainen K, Liu J, Streijger F, Haegert A, Lebihan S, Boushel R, **Tetzlaff W**. Ketogenesis controls mitochondrial gene expression and rescues mitochondrial bioenergetics after cervical spinal cord injury in rats. *Sci Rep*. 2021 Aug 11;11(1):16359. doi: 10.1038/s41598-021-96003-5.PMID: 34381166

Torres-Espín A, Almeida CA, Chou A, Huie JR, Chiu M, Vavrek R, Sacramento J, Orr MB, Gensel JC, Grethe JS, Martone ME, Fouad K, Ferguson AR; **STREET-FAIR Workshop Participants (incl Tetzlaff W.)**. Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). *Neuroinformatics*. 2021 Aug 4. doi: 10.1007/s12021-021-09533-8. Online ahead of print.PMID: 34347243

Mattucci S, Speidel J, Liu J, **Tetzlaff W**, Oxland TR. Temporal Progression of Acute Spinal Cord Injury Mechanisms in a Rat Model: Contusion, Dislocation, and Distraction. *J Neurotrauma*. 2021 Aug 1;38(15):2103-2121. doi: 10.1089/neu.2020.7255. Epub 2021 Jun 9. PMID: 33820470

Yarar-Fisher C, Li J, Womack ED, Alharbi A, Seira O, Kolehmainen KL, Plunet WT, Alaeiikhchi N, **Tetzlaff W**. Ketogenic regimens for acute neurotraumatic events. *Curr Opin Biotechnol*. 2021 Aug;70:68-74. doi: 10.1016/j.copbio.2020.12.009. Epub 2021 Jan 11. PMID: 33445134

Darren Warburton

Bredin SS, Kaufman KL, Chow MI, Lang D, Wu N, Kim DD, **Warburton DER**. Effects of aerobic, resistance, and combined exercise training on psychiatric symptom severity and related health measures in adults living with Schizophrenia: A systematic review and meta-analysis. *Frontiers in Cardiovascular Medicine*. 2022;8 <https://doi.org/10.3389/fcvm.2021.753117>

Guan Y, Bredin SSD, Taunton T, Jiang Q, Wu N, **Warburton DER**. Association between inter-limb asymmetries in lower-limb functional performance and sport injury: a systematic review of prospective cohort studies. *Journal of Clinical Medicine*. 2022;11(2):360 <https://doi.org/10.3390/jcm11020360>

Guan Y, Bredin S, Jiang Q, Taunton J, Li Y, Wu N, Wu L, **Warburton DER**. The effect of fatigue on asymmetry between lower limbs in functional performances in elite child taekwondo athletes. *Journal of Orthopaedic Surgery and Research*. 2021;16 (33):1-11. <https://doi.org/10.1186/s13018-020-02175-7>

Morrison BN, Zwaiman I, Isserow S, Taunton J, MacDonald M, Cater C, Velghe J, Hirsch A, **Warburton DER**, McKinney J. Masters athlete screening study (MASS): Insights into the psychological impact of cardiovascular preparticipation screening. *Clin J Sport Med*. 2021 Nov 1;31(6):494-500. doi: 10.1097/JSM.0000000000000802. PMID: 32058450. <https://doi.org/10.1097/JSM.0000000000000802>

Do P, Guo F, **Warburton DER**. Effect of aerobic fitness on cortisol response and HPA-axis reactivity at different aerobic exercise intensities. *Health & Fitness Journal of Canada*. 2021;14(2):42-53. <https://doi.org/10.14288/hfjc.v14i2.305>

Ranahan AD, Reiter E, Menard S, Cortese S, To K, Sinik B, **Warburton DER**. Exercise as a supplementary treatment for Parkinson's disease. *Health & Fitness Journal of Canada*. 2021;14(1):31-37. <https://doi.org/10.14288/hfjc.v14i1.289>

Schwartz J, Oh P, Perotto MB, Rhodes RE, Firth W, Bredin SSD, Gaytán-González A, **Warburton DER**. A critical review on new approaches for chronic disease prevention in Brazil and Canada: From wholistic dietary guidelines to physical activity security. *Frontiers in Cardiovascular Medicine*. 2021;30;8:730373. doi: 10.3389/fcvm.2021.730373. PMID: 34527714; PMCID: PMC8435680. <https://www.frontiersin.org/articles/10.3389/fcvm.2021.730373/full>

Guan Y, Bredin SSD, Taunton J, Jiang Q, Wu N, Li Y, **Warburton DER**. Risk factors for non-contact lower-limb injury: a retrospective survey in pediatric-age athletes. *Journal of Clinical Medicine*. 2021; 10(14):3171. <https://doi.org/10.3390/jcm10143171>

Rhodes RE, Blanchard CM, Quinlan A, Symons Downs D, **Warburton DER**, Beauchamp MR. Couple-based physical activity planning for new parents: a randomized trial. *American Journal of Preventive Medicine*. 2021;61(4):518-528. <https://doi.org/10.1016/j.amepre.2021.04.020>

Rhodes RE, Beauchamp MR, Quinlan A, Symons Downs D, **Warburton DER**, Blanchard CM. Predicting the physical activity of new parents who participated in a physical activity intervention. *Social Science & Medicine*. 2021;284:114221. <https://doi.org/10.1016/j.socscimed.2021.114221>

Kim DD, Lang DJ, **Warburton DER**, Barr AM, White RF, Honer WG, Procyshyn RM. Exercise and Worsening of Extrapryamidal Symptoms during Treatment with Long-Acting Injectable Antipsychotics. *Pharmacy*. 2021;9(3):123. <https://doi.org/10.3390/pharmacy9030123>

Trecarten N, Kirkland S, Rainham Daniel, Giacomantonio N, McGowan E, Murnaghan D, Reid R, King-Shier K, Spence JC, **Warburton DER**, Rhodes R, Blanchard CM. Location-based sedentary time and physical activity in people living with coronary artery disease, *Journal of Cardiopulmonary Rehabilitation and Prevention*. 2021;41(4):337-342. doi: 10.1097/HCR.0000000000000533 PMID: 32947325 <https://pubmed.ncbi.nlm.nih.gov/32947325/>

Jeklin AT, Davies HW, Bredin SSD, Perrotta AS, Hives BA, **Warburton DER**. Using a biomathematical model to assess fatigue risk and scheduling characteristics in Canadian Wildland Firefighters. *International Journal of Wildland Fire*. 2021;30(6):467-473. <https://doi.org/10.1071/WF20094>

Jeklin AT, Perrotta AS, Davies HW, Bredin SSD, Paul DA, **Warburton DER**. The association between heart rate variability, reaction time, and indicators of workplace fatigue in wildland firefighters. *Int Arch Occup Environ Health*. 2021;94(5):823-831. doi: 10.1007/s00420-020-01641-3. PMID: 33426591. <https://doi.org/10.1007/s00420-020-01641-3>

Guan Y, S Bredin S, Jiang Q, Taunton T, Li Y, Wu N, Wu L, **Warburton DER**. The effect of fatigue on asymmetry between lower limbs in functional performances in elite child taekwondo athletes. *Journal of Orthopaedic Surgery and Research*. 2021;16(1):1-11. <https://doi.org/10.1186/s13018-020-02175-7>

Rhodes R, Quinlan A, Naylor PJ, **Warburton DER**, Blanchard CM. Predicting family and child physical activity across six-months of a family-based intervention: an application of Theory of Planned Behaviour, planning and habit. *Journal of Sports Sciences*. 2021;39(18):1461-1471. <https://doi.org/10.1080/02640414.2021.1877460>

Cheryl Wellington

Strain MM, Joh Yik JT, Becquart P, Gill J, Petkau J, Traboulee A, Carruthers R, Kolind SH, Devonshire V, Sayao AL, Schabas A, Tam R, Moore GRW, Li DKB, Stukas S, **Wellington C**, Quandt JA, Vavasour IM, Laule C. Serum neurofilament light chain correlates with myelin and axonal magnetic resonance imaging markers in multiple sclerosis. *Mult Scler Relat Disord*. 2022 Jan;57:103366. doi: 10.1016/j.msard.2021.103366. Epub 2021 Nov 3. PMID: 35158472.

Chris West

Wainman L, Erskine EL, Ahmadian M, Hanna TM, **West CR***. (2021) Development of a Spinal Cord Injury Model Permissive to Study the Cardiovascular Effects of Rehabilitation Approaches Designed to Induce Neuroplasticity. *Biology (Basel)*. 10(10):1006. Published 2021 Oct 7.

Fauss GNK, Strain MM, Huang YJ, Reynolds JA, Davis JA, Henwood MK, **West CR**, Grau JW. (2021) Contribution of Brain Processes to Tissue Loss After Spinal Cord Injury: Does a Pain-Induced Rise in Blood Pressure Fuel Hemorrhage? *Front Syst Neurosci*. Dec 15;15:733056.

Martin Ginis KA, **West CR**. (2021) From guidelines to practice: development and implementation of disability-specific physical activity guidelines. *Disabil Rehabil*. Dec;43(24):3432-3439 ***Invited manuscript**

Strain MM, Johnston DT, Baine RE, Reynolds JA, Huang YJ, Henwood MK, Fauss GN, Davis JA, Miranda RC, **West CR**, Grau JW. (2021) Hemorrhage and Locomotor Deficits Induced by Pain Input after Spinal Cord Injury Are Partially Mediated by Changes in Hemodynamics. *J Neurotrauma*. Dec;38(24):3406-3430.

Hayes BD, Fossey MPM, Poornasjedi-Meibod MS, Erskine E, Soriano JE, Scott B, Rosentreter R, Granville DJ, Phillips AA, **West CR***. (2021) Experimental high thoracic spinal cord injury impairs the cardiac and cerebrovascular response to orthostatic challenge in rats. *Am J Physiol Heart Circ Physiol*. Oct 1;321(4):H716-H727. ***work stemmed from a seed grant; this article was featured as an Editor's Choice and I was invited to give a podcast for AJP Heart on the significance of this model development for the cardiovascular field.**

Lucci VM, Harrison EL, DeVeau KM, Harman KA, Squair JW, Krassioukov A, Magnuson DSK, **West CR**, Claydon VE. (2021) Markers of susceptibility to cardiac arrhythmia in experimental spinal cord injury and the impact of sympathetic stimulation and exercise training. *Auton Neurosci*. 2021 Nov;235:102867.

Harman KA, DeVeau KM, Squair JW, **West CR**, Krassioukov AV, Magnuson DSK. Effects of early exercise training on the severity of autonomic dysreflexia following incomplete spinal cord injury in rodents. *Physiol Rep*. 2021;9(15):e14969. doi:10.14814/phy2.14969 ***work stemmed from a seed grant**

Gee CM, Eves ND, Sheel AW, **West CR***. (2021) How does cervical spinal cord injury impact the cardiopulmonary response to exercise? *Respir Physiol Neurobiol*. 2021;293:103714. doi:10.1016/j.resp.2021.103714

Williams AM, Ma JK, Martin Ginis KA, **West CR***. (2021) Effects of a Tailored Physical Activity Intervention on Cardiovascular Structure and Function in Individuals With Spinal Cord Injury. *Neurorehabil Neural Repair*. 35(8):692-703. doi:10.1177/15459683211017504

Gee CM, Lacroix MA, Pethick WA, Cote P, Stellingwerff T, **West CR*** (2021). Cardiovascular responses to heat acclimatisation in athletes with spinal cord injury. *Journal of Science and Medicine in Sport*. Aug;24(8):756-762

Gee CM, Nightingale TE, **West CR**, Krassioukov AV. Infographic. Doping without drugs: how para-athletes may self-harm to boost performance. *Br J Sports Med*. 2021 Aug;55(16):937-938. doi: 10.1136/bjsports-2020-101980. Epub 2020 May 7.

Martin Ginis KA, Latimer-Cheung AE, **West CR**. Commentary on "The First Global Physical Activity and Sedentary Behavior Guidelines for People Living With Disability". *J Phys Act Health*. 2021 Mar 19;18(4):348-349 ***Invited commentary**

Gee CM, Lacroix MA, Stellingwerff T, Gavel EH, Logan-Sprenger HM, and **West CR***. Physiological Considerations to Support Podium Performance in Para-Athletes. *Frontiers in Rehabilitation Sciences*, 2021: <https://doi.org/10.3389/fresc.2021.732342>

Stephanie Willerth

Chernek J, Kirsch R, Scheck K, and **Willerth SM**. Protocol for printing 3D neural tissues using the BIO X equipped with a pneumatic printhead. Accepted at STAR Protocols.

Robinson M, Bedford E, Witherspoon L, **Willerth SM**, and Flannigan, R. Using clinically derived human tissue to 3D bioprint personalized testicular tubules for in-vitro culturing. First report. Accepted at F & S Science.

Bhullar S.K, Lekesiz H, Karaca A.A, Cho Y, **Willerth SM**, and Jun M.B.G. Characterizing the mechanical performance of a bare-metal stent with an auxetic cell geometry. *Applied Science*. 2022. 12 (2). 1-14.

Sharma R, Benwood C, and **Willerth SM**. Drug-releasing microspheres for stem cell differentiation. *Current Protocols*. 2021. 1(12). 1-14.

Restan Perez M, Sharma R, Masri N, and **Willerth SM**. 3D bioprinting mesenchymal stem cell-derived neural tissues using a fibrin-based bioink. *Biomolecules*. 2021. 11 (8). 1- 15.

Studders C, Giles JW, Fraser I, and **Willerth SM**. Evaluation of 3D Printer Settings for Producing Personal Protective Equipment. *3D Printing in Medicine*. 2021. 5 (2). 133-144.

Sharma R, Kirsch R, Valente KP, Restan M, and **Willerth SM**. Physical and mechanical characterization of fibrin-based bioprinted constructs containing drug-releasing microspheres for neural tissue engineering applications. *Processes*. 2021. 9 (1025). 1-21. * this paper was selected out of 177 to be featured on the journal cover. This paper details the physical properties of our bioink.

De la Vega L, Abelseth L, Sharma R, Triviño-Paredes, J, Restan M, and **Willerth SM**. 3D bioprinting human pluripotent stem cells and drug releasing microspheres to produce responsive neural tissue. *Advanced NanoBioMed Research*. 2021. 2000077. 1-16.

Benwood C, Chrenek J, Kirsch R, Masri N, Richards H, Teetzen K, and **Willerth SM**. Natural biomaterials and their use as bioinks for printing tissues. *Bioengineering*. 2021. 8 (2). 1-19.

Marina CP, Santanaa GL, Robinson M, **Willerth SM**, Crovacea MC, and Zantotta ED. Effect of bioactive Biosilicate®/F18 glass scaffolds on osteogenic differentiation of human adipose stem cells. *Journal of Biomedical Materials Research: Part A*. 2021. 109 (8). 1293-1308.

Giles JW, and **Willerth SM**. Strategies for delivering online Biomedical Engineering electives during the COVID19 pandemic. *Biomedical Engineering Education*. 2021. 1. 115-120.

David Wilson

Zakani S, Chapman C, Saule A, Cooper A, Mulpuri K, **Wilson D**. Computer-assisted subcapital correction osteotomy in slipped capital femoral epiphysis using individualized drill templates. *3D Printing in Medicine* 2021:7 (1), 1-11

Jones C, Mulpuri K, Teo T, **Wilson D**, d'Entremont A. T1p and T2 MRI show hip cartilage damage in adolescents with healed Legg-Calvé-Perthes disease. *Journal of Pediatric Orthopedics Part B* 2021: epub.

Raphaële CM, Zhang H, Shewchuk J, **Wilson D**, Phillips A, Bond M, Street J. Dynamic morphometric changes in degenerative lumbar spondylolisthesis: A pilot study of upright magnetic resonance imaging. *Journal of Clinical Neuroscience* 2021;91, 152-158.

Jones C, Cibere J, Qian H, Zhang H, Guo Y, Russell D, Forster B, Wong H, Esdaile J, **Wilson D**. Delayed Gadolinium Enhanced Magnetic Resonance Imaging of Cartilage (dGEMRIC) Values are Lower in Hips with Bone Marrow Lesions. *Arthritis Care & Research* 2021: epub.

Pai SA, Zhang H, Ashjaee N, **Wilson D**, Brown S, Fels S, Street J, Oxland T, Estimation and assessment of sagittal spinal curvature and thoracic muscle morphometry in different postures. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine* 2021: 09544119211014668.

Pai SA, Zhang H, Street J, **Wilson D**, Brown S, Oxland T. Preliminary investigation of spinal level and postural effects on thoracic muscle morphology with upright open MRI. *Journal of Orthopaedic Research Spine* 2021: 4 (1), e1139.

Stockton D, Schmidt A, Yung A, Desrochers J, Zhang H, Masri B, **Wilson D**. Tibiofemoral contact and alignment in patients with anterior cruciate ligament rupture treated nonoperatively versus reconstruction. *Bone and Joint Journal* 2021: 103 (9), 1505-1513.

Dourthe B, Shaikh N, Pai SA, Fels S, Brown S, **Wilson D**, Street J, and Oxland T. "Automated Segmentation of spinal Muscles from Upright Open MRI Using a Multi-Scale Pyramid 2D Convolutional Neural Network." *Spine* 2021: epub.

Mohtajeb M, Cibere J, Graffos A, Mony M, Zhang H, Hunt M, and **Wilson D**. "Open MRI validation of a hip model driven with subject-specific motion capture data in predicting anterior femoroacetabular clearance." *BMC Musculoskeletal Disorders* 2021: 22 (1): 1-13.

Hunter D, Eyles J, Murphy N, Spiers L, Burns A, Davidson E, Dickenson E, Fary C, Foster N, Fripp J, Griffin D, Hall M, Kim YJ, Linklater JM, Molnar R, Neubert A, O'Connell RL, O'Donnell J, O'Sullivan M, Randhawa S, Reichenbach S, Schmaranzer F, Singh P, Tran P, **Wilson D**, Zhang H, Bennell K L. Multi-centre randomised controlled trial comparing arthroscopic hip surgery to physiotherapist-led care for femoroacetabular impingement (FAI) syndrome on hip cartilage metabolism: the Australian FASHIoN trial. *BMC Musculoskelet Disord.* 2021 Aug 16;22(1):697.

Mohtajeb M, Cibere J, Mony M, Zhang H, Sullivan E, Hunt M, and **Wilson D**. "Open MRI assessment of anterior femoroacetabular clearance in active and passive impingement-provoking postures." *Bone & Joint Open* 2021: 2(11) 988-996.

Sullivan E S, Jones C, Miller S D, **Wilson D**, Mulpuri K, and d'Entremont A G. "Effect of positioning error on the Hilgenreiner epiphyseal angle and the head-shaft angle compared to the femoral neck-shaft angle in children with cerebral palsy." *Journal of Pediatric Orthopedics. Part B* (2021).

Shaikh N, Zhang H, Brown S, Lari H, Lasry O, Street J, **Wilson D**, and Oxland T. "Synchronous imaging of pelvic geometry and muscle morphometry: a pilot study of pelvic retroversion using upright MRI." *Scientific Reports* 2021: 11(1) 1-13.

Squier K, Scott A, Hunt M, Brunham L, **Wilson D**, Screen H, and Waugh C. "The effects of cholesterol accumulation on Achilles tendon biomechanics: A cross-sectional study." *Plos One* 2021: 16(9) e0257269.

Lyndia Wu

Kenny R, Elez M, Clansey A, Virji-Babul N, and **Wu LC**. Head Impact Exposure and Biomechanics in University Varsity Women's Soccer. *Annals of biomedical engineering. Online.* (2022).

Wang, T., Kenny, R. and **Wu LC**. Head impact sensor triggering bias introduced by linear acceleration thresholding. *Annals of biomedical engineering.* 49(12), 3189-3199. (2021).

Qiao C. Z, Chen A, Blouin J. S, and **Wu LC**. Potential mechanisms of acute standing balance deficits after concussions and subconcussive head impacts: a review. *Annals of biomedical engineering. Online.* 1-23. (2021).

Ghazi K, Zhang C, Wu S, Tierney G, Clansy A, **Wu LC**, Ji, S. Identify critical head impact time window using a pre-trained neural network: an initial study. Proceedings of the International Research Council on Biomechanics of Injury (IRCOBI). 218-219. (2021).

Laksari, K, Kurt, M, **Wu LC**. Concussion mechanism: biomechanical perspectives, book chapter edited by Schweizer T. and Baker A., *Tackling the Concussion Epidemic*, Springer Nature. 1-24. (2022).

Paul Zehr

Pearcey GEP, Smith LA, Sun Y, **Zehr EP**. 1894 revisited: Cross-education of skilled muscular control in women and the importance of representation. PLoS One. 2022 Mar 17;17(3):e0264686. doi: 10.1371/journal.pone.0264686. eCollection 2022. PMID: 35298508

Follmer B, **Zehr EP**. It's a no brainer: combat sports should be ground zero for research on concussion. Br J Sports Med. 2021 Dec;55(24):1434-1435. doi: 10.1136/bjsports-2021-104519. Epub 2021 Aug 30. PMID: 34462273

Sun Y, Munro B, **Zehr EP**. Compression socks enhance sensory feedback to improve standing balance reactions and reflex control of walking. BMC Sports Sci Med Rehabil. 2021 Jun 2;13(1):61. doi: 10.1186/s13102-021-00284-2. PMID: 34078449

Nakajima T, Suzuki S, **Zehr EP**, Komiyama T. Long-lasting changes in muscle activation and step cycle variables induced by repetitive sensory stimulation to discrete areas of the foot sole during walking. J Neurophysiol. 2021 Feb 1;125(2):331-343. doi: 10.1152/jn.00376.2020. Epub 2020 Dec 16. PMID: 33326346

