

Selected Publications by ICORD researchers, 2016-17

Jaimie Borisoff

J Mattie, Borisoff J, Miller WC, and B Nouredin. Characterizing the community use of an ultralight wheelchair with “on the fly” adjustable seating functions: A pilot study. *PLOSOne*. 2017. Mar 9;12(3):e0173662. doi: 10.1371/journal.pone.0173662

Best KL, Routhier F, Sweet SN, Arbour-Nicitopoulos KP, Borisoff JF, Noreau L, Martin Ginis KA. Feasibility of the Smartphone-delivered Peer Physical Activity Counselling (SPPAC) program for manual wheelchair users: study protocol of a randomized controlled trial. *Journal of Medical Internet Research: Research Protocols*. 2017

James L, Shing J, Mortenson B, Mattie J, Borisoff J. Experiences with and perceptions of an adaptive hiking program. *Disability and Rehabilitation*. 2017.

Routhier F, Lettre J, Miller WC, Borisoff JF, Keetch K, Mitchell IM, and the CanWheel Research Team. Clinicians’ and researchers’ perspectives on manual wheelchair data loggers. *Archives of Physical Medicine and Rehabilitation*. 2017

Ripat J, Borisoff JF, Grant LE, and FHN Chan. Patterns of community participation across the seasons: A year-long case study of three Canadian wheelchair users. *Disability and Rehabilitation*. 2017. DOI: 10.1080/09638288.2016.1271463

Routhier F, Lettre J, Borisoff JF, Miller WC, and I Mitchell. Data logger technologies for manual wheelchairs: A scoping review. *Assistive Technology*. 2016 Nov 15:1-8. doi:10.1080/10400435.2016.1242516; PMID: 27846371

Victoria Claydon

J.A. Inskip, H.J.C. Ravensbergen, I.S.S. Sahota, C. Zawadzki, L.T. McPhail, J.F. Borisoff, V.E. Claydon (2017) Dynamic wheelchair seating positions impact cardiovascular function after spinal cord injury. *PLOS One*, In press.

S. Franciosi, F.K.G. Perry, T.M. Roston, K.R. Armstrong, V.E. Claydon, S. Sanatani (2017) The role of the autonomic nervous system in arrhythmias and sudden cardiac death. *Autonomic Neuroscience: Basic and Clinical*, In press.

A. Laurin, M.G. Lloyd, T. Hachiya, M. Saito, V.E. Claydon, A.P. Blaber (2017) New indices from microneurography to investigate the arterial baroreflex. *Physiological Reports*, In press.

K.R. Armstrong, A.M. De Souza, P. Sneddon, J.E. Potts, V.E. Claydon, S. Sanatani (2016) Exercise and the multidisciplinary holistic approach to adolescent dysautonomia. *Acta Paediatrica*, 106: 612-618.

C. Chenliu, X. Sheng, P. Dan, Y. Qu, V.E. Claydon, E. Lin, L. Hove-Madsen, S. Sanatani, G.F. Tibbits (2016) Ischemia-reperfusion destabilizes rhythmicity in immature atrio-ventricular pacemakers: a predisposing factor for postoperative arrhythmias in neonate rabbits. *Heart Rhythm*, 13: 2348-2355. JIF: 4.4.

Peter Cripton

Namjoshi DR, Cheng WH, Bashir A, Wilkinson A, Stukas S, Martens KM, Whyte T, Abebe ZA, McInnes KA, Cripton PA, Wellington CL. Defining the biomechanical and biological threshold of murine mild traumatic brain injury using CHIMERA (Closed Head Impact Model of Engineered Rotational Acceleration). *Experimental Neurology* 2017;292:80-91.

Gustafson HM, Cripton PA, Ferguson SJ, Helgason B. Comparison of specimen-specific vertebral body finite element models with experimental digital image correlation measurements. *Journal of the Mechanical Behaviour of Biomedical Materials* 2017;65:801-807.

Gustafson HM, Melnyk AD, Siegmund GP, Cripton PA. Damage identification on vertebral bodies during compressive loading using digital image correlation. *Spine* 2017;(epub ahead of print)

Enns-Bray WS, Ariza O, Gilchrist S, Widmer Soyka RP, Vogt PJ, Pálsson H, Boyd SK, Guy P, Cripton PA, Ferguson SJ, Helgason B. Morphology based anisotropic finite element models of the proximal femur validated with experimental data. *Medical Engineering and Physics* 2016;38(11):1339-1347.

Helgason B, Gilchrist S, Ariza O, Vogt P, Enns-Bray W, Widmer RP, Fitze T, Pálsson H, Pauchard Y, Guy P, Ferguson SJ, Cripton PA. The influence of the modulus-density relationship and the material mapping method on the simulated mechanical response of the proximal femur in side-ways fall loading configuration. *Medical Engineering and Physics*. 2016;38(7):679-689.

Richards D, Ivarsson BJ, Scher I, Hoover R, Rodowicz K, Cripton P. Ice hockey shoulder pad design and the effect on head response during shoulder-to-head impacts. *Sports Biomechanics*. 2016;15(4):385-396.

Streijger F, Lee JHT, Manouchehri N, Melnyk AD, Chak J, Tigchelaar S, So K, Okon EB, Jiang S, Kinsler R, Barazanji K, Cripton

- PA, Kwon BK. Responses of the Acutely Injured Spinal Cord to Vibration that Simulates Transport in Helicopters or Mine-Resistant Ambush-Protected Vehicles. *Journal of Neurotrauma*. 2016;33(24):2217-2226.
- Gustafson H, Siegmund G, Cripton PA. Comparison of Strain Rosettes and Digital Image Correlation for Measuring Vertebral Body Strain. *Journal of Biomechanical Engineering*. 2016;138(5).
- Namjoshi DR, Cheng WH, Carr M, Martens KM, Zareyan S, Wilkinson A, McInnes KA, Cripton PA, Wellington CL. Chronic Exposure to Androgenic-Anabolic Steroids Exacerbates Axonal Injury and Microgliosis in the CHIMERA Mouse Model of Repetitive Concussion. *PLoS ONE*. 2016;11(1):e0146540.
- Stuart CA, Richards D, Cripton PA. Injuries at the Whistler Sliding Center: a 4-year retrospective study. *British Journal of Sports Medicine*. 2016;50(1):62-70.
- Bhatnagar T, Liu J, Yung A, Cripton P, Kozlowski P, Tetzlaff W, et al. Quantifying the internal deformation of the rodent spinal cord during acute spinal cord injury - the validation of a method. *Computer Methods in Biomechanics and Biomedical Engineering*. 2016;19(4):386-95.
- Bhatnagar T, Liu J, Yung A, Cripton PA, Kozlowski P, Tetzlaff W, Oxland TR. Relating Histopathology and Mechanical Strain in Experimental Contusion Spinal Cord Injury in a Rat Model. *Journal of neurotrauma*. 2016;(epub before print).
- Bhatnagar T, Liu J, Yung A, Cripton PA, Kozlowski P, Oxland T. In Vivo Measurement of Cervical Spinal Cord Deformation During Traumatic Spinal Cord Injury in a Rodent Model. *Annals of Biomedical Engineering* 2016;44(4):1285-1298.

Marcel Dvorak:

- Melnyk AD, Kelly A, Chak JD, Wen TL, Cripton PA, Dvorak MF, Oxland TR. Reply: The effect of disc degeneration on anterior shear translation in the lumbar spine. *J Orthop Res*. 2016 Apr;34(4):730-1. CA.
- Vaccaro AR, Schroeder GD, Kepler CK, Cumhuri Oner F, Vialle LR, Kandziora F, Koerner JD, Kurd MF, Reinhold M, Schnake KJ, Chapman J, Aarabi B, Fehlings MG, Dvorak MF. The surgical algorithm for the AOSpine thoracolumbar spine injury classification system. *Eur Spine J*. 2016 Apr; 25(4): 1087-94. SA.
- Evaniew N, Noonan VK, Fallah N, Rivers CS, Dvorak MF. Methylprednisolone for the Treatment of Patients with Acute Spinal Cord Injuries: Response. *J Neurotrauma*. 2016 May 15; 33(10):975-6. SA.
- Vaccaro AR, Koerner JD, Radcliff KE, Oner FC, Reinhold M, Schnake KJ, Kandziora F, Fehlings MG, Dvorak MF, Aarabi B, Rajasekaran S, Schroeder GD, Kepler CK, Vialle LR. AOSpine subaxial cervical spine injury classification system. *Eur Spine J*. 2016 Jul; 25(7):2173-84. Epub 2015 Feb 26. CA.
- Sadiqi S, Verlaan JJ, Mechteld Lehr A, Dvorak MF, Kandziora F, Rajasekaran S, Schnake KJ, Vaccaro AR, Oner FC. Universal disease-specific outcome instruments for spine trauma: a global perspective o relevant parameters to evaluate clinical and functional outcomes of thoracic and lumbar spine trauma patients. *Eur Spine J*. 2016 Jul 2. [Epub ahead of print]. CA.
- Sadiqi S, Lehr AM, Post MW, Jacobs WCH, Aarabi B, Chapman JR, Dunn RN, Dvorak MF, Fehlings MG, Rajasekaran S, Vialle LR, Vaccaro AR, Oner FC. The selection of core International Classification of Functioning, Disability and Health (ICF) categories for patient reported outcome measurement in spine trauma patients - results of an international consensus process. *Spine J*. 2016 Aug; 16(8): 962-70. Epub 2016 Apr 4. CA.
- Sadiqi S, Verlaan JJ, Lehr AM, Chapman JR, Dvorak MF, Kandziora F, Rajasekaran S, Schnake KJ, Vaccaro AR, Oner FC. Measurement of kyphosis and vertebral body height loss in traumatic spine fractures: an international study. *Eur Spine J*. 2016 Aug 6. [Epub ahead of print]. CA.
- Kwon BK, Streijger F, Fallah N, Noonan V, Belanger LM, Ritchie L, Paquette SJ, Ailon T, Boyd MC, Street J, Fisher CG, Dvorak MF. Cerebrospinal Fluid Biomarkers to Stratify Injury Severity and Predict Outcome in Human Traumatic Spinal Cord Injury. *J Neurotrauma*. 2016 Aug 15. [Epub ahead of print]. SA.
- Park SE, Elliott S, Noonan VK, Thorogood NP, Fallah N, Aludino A, Dvorak MF. Impact of bladder, bowel and sexual dysfunction on health status of people with thoracolumbar spinal cord injuries living in the community. *J Spinal Cord Med*. 2016 Aug 31:1-12. [Epub ahead of print]. PMID: 27576584
- Malakoutian M, Street J, Wilke H, Stavness I, Dvorak MF, Fels S, Oxland T. Role of Muscle Damage on Loading at the Level Adjacent to a Lumbar Spine Fusion - A Biomechanical Analysis. *Eur Spine J*. 2016 Sep; 25(9): 2929-37. Epub 2016 Jul 27. CA.
- Street JT, Glennie AR, Dea N, DiPaola C, Wang Z, Boyd M, Paquette SJ, Kwon BK, Dvorak MF, Fisher CG. A comparison of Wiltse versus Midline approaches in degenerative conditions of the lumbar spine. *J Neurosurg Spine*. 2016 Sep; 25(3): 332-8. Epub 2016 Apr 22. CA.
- Thibault-Halman G, Rivers CS, Bailey C, Tsai E, Drew B, Noonan V, Fehlings M, Dvorak MF, Kuerban D, Kwon BK, Christie S. Predicting recruitment feasibility for acute spinal cord injury clinical trials in Canada using national registry data. *J*

Neurotrauma. 2017 Feb;34(3):599-606. Epub 2016 Oct 24. CA..

Chen K, Liu J, Assinck P, Bhatnagar T, Streijger F, Zhu Q, Dvorak MF, Kwon BK, Tetzlaff W, Oxland TR. Differential Histopathology and Behavioral Outcomes Eight Weeks After Rat Spinal Cord Injury by Contusion, Dislocation, and Distraction Mechanisms. *J Neurotrauma*. 2016 Sep 15; 33(18):1667-84. Epub 2016 Apr 4. CA.

Whitehurst DG, Mittmann N, Noonan VK, Dvorak MF, Bryan S. Health state descriptions, valuations and individuals' capacity to walk: a comparative evaluation of preference-based instruments in the context of spinal cord injury. *Qual Life Res*. 2016 Oct; 25(10): 2481-96. Epub 2016 Apr 20. CA.

Tee JW, Altaf F, Belanger LM, Ailon T, Street J, Paquette SJ, Boyd MC, Fisher CG, Dvorak MF, Kwon BK. Mean arterial blood pressure management of acute spinal cord injured patients during the pre-hospital and early admission period. *J Neurotrauma*. 2017 Jan 13. [Epub ahead of print] CA.

Wu Y, Streijger F, Wang Y, Lin G, Christie S, Mac-Thiong JM, Parent S, Bailey CS, Paquette S, Boyd MC, Ailon T, Street J, Fisher CG, Dvorak MF, Kwon BK, Li L. Parallel Metabolomic Profiling of Cerebrospinal Fluid and Serum for Identifying Biomarkers of Injury Severity after Acute Human Spinal Cord Injury. *Sci Rep*. 2016 Dec 14;6:38718. CA.

Sadiqi S, Verlaan JJ, Lehr AM, Dvorak MF, Kandziora F, Rajasekaran S, Schnake KJ, Vaccaro AR, Oner FC. Surgeon Reported Outcome Measure for Spine Trauma an International Expert Survey Identifying Parameters Relevant for The Outcome of Subaxial Cervical Spine Injuries. *Spine (Phila Pa 1976)*. 2016 Dec 15;41(24):E1453-E1459. Epub 2016 May 11. CA.

Altaf F, Griesdale DE, Belanger L, Ritchie L, Markez J, Ailon T, Boyd MC, Paquette S, Fisher CG, Street J, Dvorak MF, Kwon BK. The differential effects of norepinephrine and dopamine on cerebrospinal fluid pressure and spinal cord perfusion pressure after acute human spinal cord injury. *Spinal Cord*. 2017 Jan; 55(1): 33-38. Epub ahead of print 2016 Jun 7.

Fehlings M, Noonan V, Atkins D, Burns AS, Cheng CL, Singh A, Dvorak MF. Optimizing Clinical Decision Making in Acute Traumatic Spinal Cord Injury. *J Neurotrauma*. 2017 Jan 5. [Epub ahead of print].

Kwon BK, Streijger F, Fallah N, Noonan V, Belanger LM, Ritchie L, Paquette SJ, Ailon T, Boyd MC, Street J, Fisher CG, Dvorak MF. Cerebrospinal fluid biomarkers to stratify injury severity and predict outcome in human traumatic spinal cord injury. *J Neurotrauma*. 2017 Feb;34(3):567-580. Epub 2016 Aug 15.

Sadiqi S, Lehr AM, Post MW, Dvorak MF, Kandziora F, Rajasekaran S, Schnake KJ, Vaccaro AR, Oner FC. Development of the AOSpine Patient Reported Outcome Spine Trauma (AOSpine PROST): a universal disease-specific outcome instrument for individuals with traumatic spinal column injury. *Eur Spine J*. 2017 Mar 17. [Epub ahead of print]. CA

Stacy Elliott

Jutzeler, CR., Cragg JJ, Warrner, FM, Archibald J, Thomas CPM, Elliott S, Kramer JK. Pregnancy outcome following maternal exposure to pregabalin may call for concern. *Neurology* 2017 Jan 3;88(1):e5- e7. PMID 28025404

Elliott, SL, Hocaloski S, Carlson M. Multidisciplinary Approach to Sexual and Fertility Rehabilitation: The Sexual Rehabilitation Framework *Top Spinal Cord Inj Rehabil* 2017;23(1):49-56.

Alexander M, Courtois F, Elliott S, Tepper M. Improving Sexual Satisfaction in Persons with Spinal Cord Injuries: Collective Wisdom *Top Spinal Cord Inj Rehabil* 2017;23(1):57-70.

Krassioukov A, Elliott, S. Neural Control and Physiology of Sexual Function: Effect of Spinal Cord Injury *Top Spinal Cord Inj Rehabil* 2017;23(1):1-10.

Davidson R, Elliott S, Krassioukov A. Response to Alexander and Courtois, "Blood Pressure during Sexual Activity after SCI Inaccurately Portrayed". *J Neurotrauma*. 2017 Feb 27. doi: 10.1089/neu.2016.4907.

Davidson RA, Carlson M, Fallah N, Noonan VK, Elliott SL, Joseph J, Smith KM, Krassioukov AV. Inter-Rater Reliability of the International Standards to Document Remaining Autonomic Function after Spinal Cord Injury. *J Neurotrauma*. Vol. 34, No. 3, February 2017: 552-558.

Davidson R, Elliott S, Krassioukov A. Cardiovascular Responses to Sexual Activity in Able-Bodied Individuals and Those Living with Spinal Cord Injury. *J Neurotrauma*. 2016 33;4: 2161- 2174

Park SE, Elliott S, Noonan VK, Thorogood NP, Fallah N, Aludino A, Dvorak MF. Impact of bladder, bowel and sexual dysfunction on health status of people with thoracolumbar spinal cord injuries living in the community. *J Spinal Cord Med*. 2016 Aug 31:1-12

Janice Eng

- Simpson LA, Eng JJ, Chan M. H-GRASP: the feasibility of an upper limb home exercise program monitored by phone for individuals post stroke. *Disabil Rehabil.* 2017;39:874-882.
- Sakakibara BM, Kim AJ, Eng JJ. A systematic review and meta-analysis on self-management for improving risk factor control in stroke patients. *Int J Behav Med.* 2017;24:42-53.
- Imam B, Miller WC, Finlayson H, Eng JJ, Jarus T. A randomized controlled trial to evaluate the feasibility of the Wii Fit for improving walking in older adults with lower limb amputation. *Clin Rehabil.* 2017;31:82-92.
- Zbogor D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Movement repetitions in physical and occupational therapy during spinal cord injury rehabilitation. *Spinal Cord.* 2017;55:172-179.
- Sakakibara BM, Kim AJ, Eng JJ. A systematic review and meta-analysis on self-management for improving risk factor control in stroke patients. *Int J Behav Med.* 2017;24:42-53.
- Liu-Ambrose T, Best JR, Davis JC, Eng JJ, Lee PE, Jacova C, Boyd LA, Brasher PM, Munkacsy M, Cheung W, Hsiung GR. Aerobic exercise and vascular cognitive impairment: A randomized controlled trial. *Neurology* 2016;87:2082-2090.
- Connell LA, McMahon NE, Tyson SF, Watkins CL, Eng JJ. Case series of a knowledge translation intervention to increase upper limb exercise in stroke rehabilitation *Phys Ther.* 2016;96:1930-1937.
- Connell LA, McMahon NE, Tyson SF, Watkins CL, Eng JJ. Mechanisms of action of an implementation intervention in stroke rehabilitation: A qualitative interview study. *BMC Health Services.* 2016;16:534 (10 pages)
- Zbogor D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Physical activity outside of structured therapy during inpatient spinal cord injury rehabilitation. *J NeuroEngineering Rehabilitation* 2016;13:99 (11 pages)
- Tang A, Eng JJ, Krassioukov AV, Tsang TS, Liu-Ambrose T. High- and low-intensity exercise do not improve cognitive function after stroke: A randomized controlled trial. *J Rehabil Med.* 2016;48:841-846.
- Zbogor D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Reliability and validity of daily physical activity measures during inpatient spinal cord injury rehabilitation. *SAGE Open Med.* 2016;4:1-9.
- Best KL, Miller WC, Eng JJ, Routhier F. Systematic review and meta-analysis of peer-led self-management programs for increasing physical activity. *International Journal of Behavioral Medicine* 2016;23:527-38.
- Totosy de Zepetnek JO, Au JS, Hol AL, Eng JJ, MacDonald MJ. Predicting peak oxygen uptake from submaximal exercise after spinal cord injury. *Applied Physiology, Nutrition and Metabolism.* 2016;41:775-81.
- Louie DR, Eng JJ. Powered robotic exoskeletons in post-stroke rehabilitation of gait: A scoping review. *J Neuroeng Rehabil.* 2016;13:53.
- Hayward KS, Eng JJ, Boyd LA, Lakhani B, Bernhardt J, Lang CE. Exploring the role of accelerometers in the measurement of real world upper limb use after stroke. *Brain Impairment* 2016;17:16-33.
- Torkia C, Best KL, Miller WC, Eng JJ. Balance confidence: A predictor of perceived physical function, perceived mobility, and perceived recovery one year following inpatient stroke rehabilitation. *Arch Phys Med Rehabil.* 2016;97:1064-71.
- Obembe AO, Eng JJ. Rehabilitation interventions for improving social participation after stroke: A systematic review and meta-analysis. *Neurorehabil Neural Repair.* 2016;30:384-92.
- Chan CW, Eng JJ, Tator CH, Krassioukov A; Spinal Cord Injury Research Evidence Team. Epidemiology of sport-related spinal cord injuries: A systematic review. *J Spinal Cord Med.* 2016;39:255-64.
- Winstein CJ, Stein J, Arena R, Bates B, Chorney LR, Cramer SC, Deruyter F, Eng JJ, Fisher B, Harvey RL, Lang CE, MacKay-Lyons M, Ottenbacher KJ, Pugh S, Reeves MJ, Richards LG, Stiers W, Zorowitz RD; American Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, Council on Clinical Cardiology, and Council on Quality of Care and Outcomes Research. Guidelines for Adult Stroke Rehabilitation and Recovery: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association. *Stroke.* 2016;47:e98-e169.
- Klassen TD, Eng JJ, Lim SB, Louie DR, Parappilly B, Sakakibara BM, Simpson LA, Zbogor D. "Stepping Up" activity post-stroke: ankle positioned accelerometer can accurately record steps during slow walking. *Phys Ther* 2016;96:355-360.
- Best KL, Miller WC, Huston G, Routhier F, Eng JJ. Pilot study of a peer-led wheelchair training program to improve self-efficacy using a manual wheelchair: A randomized controlled trial. *Arch Phys Med Rehabil.* 2016;97:37-44.

Susan Forwell

- Barclay, K., Rushton, P. & Forwell, SJ. Measurement properties of eating behavior self-assessment tools in adult bariatric surgery populations: A systematic review. *Obesity Surgery.* 2015; 25(4), 720-737. DOI: 10.1007/s11695-015-1593-y

- Mousavi, T., Forwell, S., Dharamsi, S., & Dean, E. (2015). Occupational therapists' views of Nussbaum's Practical Reason and Affiliation Capabilities, *Occupational Therapy in Mental Health*. 2015: 31(1), 1-18. DOI:10.1080/0164212X.2014.1003265
- McCloy, L., White, S., Lee-Bunting, K. & Forwell, S.J. Say cheese! Photo elicitation interviewing to capture children's perspectives on routines. *Journal of Occupational Science*. 2016: 23(1), 82-95. DOI:10.1080/14427591.2014.986666
- Mousavi, T., Forwell, S., Dharamsi, S. & Dean, E. (2015). Do Nussbaum's ten central human functional capabilities extend occupational therapy's construct of occupation? A narrative review. *New Zealand Journal of Occupational Therapy*. 2015: 62(1), 21-27. <http://search.informit.com.au/documentSummary;dn=306330177900539;res=IELHEA> ISSN: 1171-0462.
- Ghahari, S & Forwell, S.J. Social media representation of Chronic Cerebrospinal Venous Insufficiency intervention for multiple sclerosis. *International Journal of MS Care*, 2016:18(2), 49-57. DOI: 10.7224/1537-2073.2014-073
- Mousavi, T., Forwell, S.J., Dharamsi, S. & Dean, E. The Historical Shift toward Human Rights in Occupational Therapy with Special Reference to the Capabilities Approach and its Implications. *World Federation of Occupational Therapy Bulletin*. 2015. 71(2), 81-87. DOI:10.1179/2056607715
- Smith, E.M., Imam, B., Miller, WC, Silverberg, N., Anton, HA, Forwell, S.J. & Townson, AF. The relationship between fatigue and participation in spinal cord injury. *Spinal Cord*. 2016: 54(6), 457-462. DOI:10.1038/sc.2015.149
- Avrech Bar, M., Forwell, S.J. & Backman C. Ascribing Meaning to occupation: an example from healthy, working mothers. *Occupational Therapy Journal of Research*. Published online. June 2016. DOI:10.1177/1539449216652622
- Anton, HA, Miller, WC, Townson, AF, Imam, B, Silverberg, N & Forwell, S.J. The Course of Fatigue after Acute Spinal Cord Injury. *Spinal Cord*. Published online July 2016. DOI:10.1038/sc.2016.102
- Scalzo, K., Suto, M. & Forwell, S.J. An Integrative Review Exploring Transition Following an Unexpected Health-Related Trauma. *Journal of Occupational Science*. 2016: 23(4). 464-483. DOI:10.1080/14427591.2016.1223742
- Chapdelaine, S., Shields, H. & Forwell, S.J. How Mothers Experience Their Adolescents' First Year in High School. *Journal of Occupational Science*. Online. DOI:10.1080/14427591.2016.1254675
- Forwell, S.J., Silverberg, N., Anton, HA, Miller, WC, Imam, B, Townson, AF, Diab, K. Fatigue, Pain, depression: An Invisible triad among persons with spinal cord injury. *Physical Therapy Review*. Online. DOI:10.1080/10833196.2016.1266728

David Granville

- Hanson P, Ye X, Qiu Y, Zhang H, Hemida M, Wang F, Lim T, Gu A, Cho B, Kim H, Fung G, Granville DJ*, Yang D*. Cleavage of DAP5 by coxsackievirus B3 2A protease facilitates viral replication and enhances apoptosis by altering translation of IRES containing genes. *Cell Death Differ*. (2016)
- Shen Y, Cheng F, Sharma M, Merkulova Y, Raithatha SA, Parkinson LG, Zhao H, Westendorf K, Bohunek L, Bozin T, Hsu I, Ang LS, Williams SJ, Bleackley RC, Eriksson JE, Seidman MA, McManus BM, Granville DJ. Granzyme B Deficiency Protects against Angiotensin II-Induced Cardiac Fibrosis. *Am J Pathol*. 2016: 186(1):87-100. SA
- Sharma M, Merkulova Y, Raithatha S, Parkinson LG, Shen Y, Cooper D, Granville DJ. Extracellular Granzyme K Mediates Endothelial Activation Through the Cleavage of Protease Activated Receptor-1 (PAR-1). *FEBS J*. 2016; 283(9):1734-47. (In press). SA
- Merkulova Y, Shen Y, Parkinson LG, Raithatha SA, Zhao H, Westendorf K, Sharma M, Bleackley RC, Granville DJ. Granzyme B inhibits keratinocyte migration by disrupting epidermal growth factor receptor (EGFR)-mediated signalling. *Biol Chem*. 2016: 397(9):883-95. SA
- Turner CT, Russo V, Santacruz S, Oram C, Granville DJ. Granzyme B. *Encyclopedia of Signaling Molecules*, 2nd Edition. Springer. Sangdun Choi, ed. 2016.

Andy Hoffer

- Francis, C., Hoffer, J.A., Reynolds, S.C. Serial ultrasonographic evaluation of diaphragm thickness during mechanical ventilation in ICU patients. *Am J Critical Care* vol. 25, no. 1, e1-e8, 2016.
- Reynolds SC, Meyyappan R, Thakkar V, Tran BD, Nolette MA, Sadarangani G, Sandoval RA, Bruulsema L, Hannigan B, Li JW, Rohrs E, Zurba J, Hoffer JA. Mitigation of Ventilator-Induced Diaphragm Atrophy by Transvenous Phrenic Nerve Stimulation. *Am. J. Respir. Crit. Care Med*. 195(3):339-348, 2017.

Patents:

- Systems and Related Methods for Optimization of Multi-Electrode Nerve Pacing. Hoffer, Joaquín Andrés; Sadarangani, Gautam; Nolette, Marc-André; Thakkar, Viral; and Tran, Bao Dung. U.S. Patent 9,333,363 issued May 10, 2016.

Apparatus and Methods for Assisted Breathing by Transvascular Nerve Stimulation. Thakkar, Viral; Hoffer, Joaquín Andrés; Tran, Bao Dung; Evans, Douglas G.; Nash, John. U.S. Patent 9,474,897 issued October 25, 2016.

Apparatus and methods for assisted breathing by transvascular nerve stimulation. Viral Thakkar, Joaquin Andres Hoffer, Bao Dung Tran, Douglas G. Evans, John Nash. US patent 9,545,511 B2, issued 17 Jan 2017.

Transvascular nerve stimulation apparatus and methods. Hoffer, Joaquín Andrés. U.S. Patent 9,566,436 issued Feb 14, 2017.

Sandra Hundza

Hundza Sandra, Quartly Caroline, Kim Jasmine M., Dunnett James, Dobrinsky Jill, Loots Iris, Choy Kim, Chow Brayley, Hampshire Alexis, Temple Vivienne A. (2016) Similar barriers and facilitators to physical activity across different clinical groups experiencing lower limb spasticity. *Disabil Rehabil.* Jul;38(14):1370-81. doi: 10.3109/09638288.2015.1101789.

Stuart W. S. MacDonald, Sandra Hundza, Janet A. Love, Correne A. DeCarlo, Drew W. R. Halliday, Paul W. H. Brewster, Timothy V. Lukyn, Richard Camicioli, and Roger A. Dixon. Concurrent Indicators of Gait Velocity and Variability Are Associated with 25-Year Cognitive Change: A Retrospective Longitudinal Investigation *Front Aging Neurosci.* 2017; 9: 17.

Drew W. R. Halliday, Sandra R. Hundza, Mauricio A. Garcia-Barrera, Marc Klimstra, Drew Commandeur, Timothy V. Lukyn, Robert S. Stawski and Stuart W. S. MacDonald, (2017) Comparing executive function, evoked hemodynamic response, and gait as predictors of variations in mobility for older adults *Journal of Clinical and Experimental Neuropsychology* 2017

Reza Jalili

Kaviani R, Jalili RB (corresponding author). Application of adipose derived stem cells for treatment of chronic wounds. *Investigative Dermatology* 2016;2(2): 1- 8.

Li Y, Jalili RB, Ghahary A. Accelerating skin wound healing by M-CSF through generating SSEA-1 and -3 stem cells in the injured sites. *Scientific Reports* 6:28979 • July 2016 DOI: 10.1038/srep28979

Khosravi-Maharlooei M, Pakyari, MR, Kilani RT, Jalili RB, Ghahary A. (Co-senior author) Intraperitoneal injection of IDO-expressing dermal fibroblasts improves the allograft survival. *Clinical Immunology* 174 (2017) 1-9 .

Jalili RB, Zhang Y, Hosseini-Tabatabaei A, Kilani RT, Khosravi M, Li Y, Warnock GL, Ghahary A. Fibroblast Cell Therapy for Experimental Autoimmune Diabetes. *PLOS ONE.* 2016;11(1):e0146970.

Zhang Y, Jalili RB, Hosseini-Tabatabaei A, Kilani RT, Khosravi M, Marzban L, Warnock GL, Ghahary A. IDO-expressing fibroblasts protect islet beta cells from immunological attack and reverse hyperglycemia in non-obese diabetic mice. *J cell physiology* 2016 Sep;231(9):1964-73.

Khosravi-Maharlooei M, Pakyari M, B Jalili R, Salimi-Elizei S, Lai JC, Poormasjedi-Meibod M, Kilani RT, Dutz J, Ghahary A. Tolerogenic Effect of Mouse Fibroblasts on Dendritic Cells. *Immunology* 2016 May;148(1):22-33.

Li Y, Adomat H, Guns ET, Hojabrpour P, Duronio V, Curran TA, Jalili RB, Jia W, Delwar Z, Zhang Y, Elizei SS, Ghahary A. Identification of a hematopoietic cell dedifferentiation-inducing factor. *J Cell Physiol.* 2016 Jun;231(6):1350-63.

Sanaz Mahmoudi, Mahshid Ebtia, Ahmed Merzouk, Reza B. Jalili, Aziz Ghahary, (co-senior author). Evaluation of the Anti-Glucotoxic Effects of Leech Saliva Extract (LSE) on Mouse and Human Pancreatic Islets, *Canadian Journal of Diabetes* 40(5):S71 •October 2016

Yunyuan Li, Reza B Jalili, aziz Ghahary, (Co-senior author) fibroblast releasable m-csf promotes blood cell-derived SSEA positive stem cells, *Wound Repair and Regeneration* 24(2):A16-A16 • March 2016

Reza B Jalili, Ryan Hartwell, Frank Ko, Aziz Ghahary. Engineering an in situ forming nanofiber reinforced dermal substitute for treatment of pressure ulcers. *Wound Repair and Regeneration* 24(2):A2-A2 • April 2016

Aziz Ghahary, Ryan Hartnell, Ruhangiz Kilani, Reza B. Jalili (co-senior author). Application of powdered reconstituteable liquid skin substitute for cell therapy. *Frontiers in Bioengineering and Biotechnology* 4 • April 2016

Piotr Kozlowski

Laule C, Yung AC, Pavlova V, Bohnet B, Kozlowski P, Hashimoto SA, Yip S, Li DKB, Moore GRW, "High-resolution myelin water imaging in post-mortem multiple sclerosis spinal cord: A case report", *Multiple Sclerosis*, 22(11), 1485-1489 (2016).

Bhatnagar T, Liu J, Yung AC, Cripton P, Kozlowski P, Tetzlaff W, Oxland T, "Relating Histopathology and Mechanical Strain in Experimental Contusion Spinal Cord Injury in a Rat Model", *Journal of Neurotrauma*, 33(18), 1685-95 (2016).

Bhatnagar T, Liu J, Yung AC, Cripton P, Kozlowski P, Oxland T, "In Vivo Measurement of Cervical Spinal Cord Deformation

during Traumatic Spinal Cord Injury in a Rodent Model”, *Annals of Biomedical Engineering*, 44(4), 1285 – 1298 (2016).

Dragowska WH, Ginj M, Kozlowski P, Yung AC, Ruth TJ, Adam MJ, Sossi V, Bally MB, Yapp DTT, “Overexpression of HER-2 in MDA-MB-435/LCC6 tumors is associated with higher metabolic activity and lower energy stress”, *Scientific Reports (NPG)*, 6: 18537 (2016).

Bhatnagar T, Liu J, Yung AC, Crompton P, Kozlowski P, Tetzlaff W, Oxland T, “Quantifying the internal deformation of the rodent spinal cord during acute spinal cord injury - the validation of a method”, *Computer Methods in Biomechanics and Biomedical Engineering*, 19(4), 386–395 (2016).

Yapp DT, Wong MQ, Kyle AH, Valdez SM; Tso J, Yung A, Kozlowski P, Owen DA, Buczkowski AK, Chung SW, Scudamore CH, Minchinton AI, Ng SW, “Metronomic gemcitabine versus antiangiogenic treatment in patient derived xenografts of pancreatic cancer: effects on metabolism, vascular function, cell proliferation and tumor growth”, *Angiogenesis*, 19(2), 229-244 (2016).

Goertzen AL, Stortz G, Thiessen JD, Bishop D, Khan MS, Kozlowski P, Retière F, Schellenberg G, Shams E, Sossi V, Thompson CJ, “First Results from a High-Resolution Small Animal SiPM PET Insert for PET/MR Imaging at 7T”, *IEEE Transactions on Nuclear Science*, 63(5), 2424-2432 (2016).

Thiessen JD, Shams E, Stortz G, Schellenberg G, Bishop D, Khan MS, Kozlowski P, Retière F, Sossi V, Thompson CJ, Goertzen AL, “MR-compatibility of a high-resolution small animal PET insert operating inside a 7T MRI”, *Physics in Medicine and Biology*, 61, 7934-7956 (2016).

Sabouri S, Fazli L, Chang SD, Savdie R, Jones EC, Goldenberg SL, Black P, Kozlowski P, “MR measurement of Luminal Water in Prostate Gland: Quantitative correlation between MRI and histology”, *Journal of Magnetic Resonance Imaging*, in press, January, 2017.

Cain SM, Bohnet B, LeDue JM, Yung AC, Garcia E, Tyson JR, Han H, van den Maagdenberg AMJM, Kozlowski P, MacVicar BA, Snutch TP, “Pregabalin inhibits cortical spreading depression and propagation to subcortical brain structures”, *Proceedings of the National Academy of Sciences U S A*, 114(9), 2401-2406 (2017).

Sabouri S, Chang SD, Savdie R, Zhang J, Jones EC, Goldenberg SL, Black P, Kozlowski P, “Luminal water imaging: a new MRI T2 mapping technique for prostate cancer diagnosis”, *Radiology*, in press, February 3, 2017.

Chen HS, Holmes N, Liu J, Tetzlaff W, Kozlowski P, “Validating Myelin Water Imaging with Transmission Electron Microscopy in a Rat Spinal Cord Injury Model”, *NeuroImage*, 153, 122-130 (2017).

John Kramer

Warner, F, Cragg JJ, Jutzeler CR, Röhrich F, Weidner N, Saur M, Maier DD, Kalke YB, Schuld C, Curt A, Kramer JK. Early Administration of Gabapentinoids Improves Motor Recovery After Human Spinal Cord Injury. *Cell Rep.* Feb 14;18(7):1614-1618.

Jutzeler, CR, Warner, F, Wanek, J, Curt, A, Kramer, JLK. Unpleasant somatosensory conditioning: Effect on contact heat evoked potentials. *Sci Rep.* Jan 12;7:40007.

Jutzeler, CR, Cragg, JJ, Warner, F, Archibald, J, Thomas, C, Elliott, S, Kramer, J. Pregnancy outcome following maternal exposure to pregabalin may call for concern. *Neurology.* 2017;3;88(1):e5-e7.

Jutzeler CR, Rosner J, Rinert J, Kramer JL, Curt A. Normative data for the segmental acquisition of contact heat evoked potentials in cervical dermatomes. *Sci Rep.* 2016;6:34660.

Cragg JJ, Haefeli J, Jutzeler CR, Röhrich F, Weidner N, Saur M, Maier DD, Kalke YB, Schuld C, Curt A, Kramer JK. Effects of Pain and Pain Management on Motor Recovery of Spinal Cord-Injured Patients: A Longitudinal Study. *Neurorehabil Neural Repair.* 2016;30(8):753-61.

Kramer JL, Minhas NK, Jutzeler CR, Erskine EL, Liu LJ, Ramer MS. Neuropathic pain following traumatic spinal cord injury: Models, measurement, and mechanisms. *J Neurosci Res.* 2016.

Cragg JJ, Warner FM, Finnerup NB, Jensen MP, Mercier C, Richards JS, Wrigley P, Soler D, Kramer JL. Meta-analysis of placebo responses in central neuropathic pain: impact of subject, study, and pain characteristics. *Pain.* 2016;157(3):530-40.

Jutzeler CR, Huber E, Callaghan MF, Luechinger R, Curt A, Kramer JL, Freund P. Association of pain and CNS structural changes after spinal cord injury. *Sci Rep.* 2016;6:18534.

Andrei Krassioukov

Round AM, Park SE, Walden K, Noonan VK, Townson AF, Krassioukov AV. An evaluation of the International Standards to Document Remaining Autonomic Function after Spinal Cord Injury: input from the international community. *Spinal Cord.*

2017 Feb;55(2):198-203.

Zbogar D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Physical activity outside of structured therapy during inpatient spinal cord injury rehabilitation. *J Neuroeng Rehabil.* 2016 Nov 15;13(1):99.

Lee AH, Phillips AA, Krassioukov AV. Increased Central Arterial Stiffness after Spinal Cord Injury: Contributing Factors, Implications, and Possible Interventions. *J Neurotrauma.* 2016 Dec 20.

Tang A, Eng JJ, Krassioukov AV, Tsang TS, Liu-Ambrose T. High- and low-intensity exercise do not improve cognitive function after stroke: A randomized controlled trial. *J Rehabil Med.* 2016 Nov 11;48(10):841-846.

Zbogar D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Movement repetitions in physical and occupational therapy during spinal cord injury rehabilitation. *Spinal Cord.* 2017 Feb;55(2):172-179.

Squair JW, Phillips AA, Harmon M, Krassioukov AV. Emergency management of autonomic dysreflexia with neurologic complications. *CMAJ.* 2016 Oct 18;188(15):1100-1103.

West CR, Squair JW, McCracken L, Currie KD, Somvanshi R, Yuen V, Phillips AA, Kumar U, McNeill JH, Krassioukov AV. Cardiac Consequences of Autonomic Dysreflexia in Spinal Cord Injury. *Hypertension.* 2016 Nov;68(5):1281-1289.

Zbogar D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Reliability and validity of daily physical activity measures during inpatient spinal cord injury rehabilitation. *SAGE Open Med.* 2016 Sep 1;4:2050312116666941.

Martin Ginis KA, Tomasone JR, Welsford M, Ethans K, Sinden AR, Longeway M, Krassioukov A. Online training improves paramedics' knowledge of autonomic dysreflexia management guidelines. *Spinal Cord.* 2017 Feb;55(2):216-222.

Popok DW, West CR, Hubli M, Currie KD, Krassioukov AV. Characterizing the Severity of Autonomic Cardiovascular Dysfunction after Spinal Cord Injury Using a Novel 24 Hour Ambulatory Blood Pressure Analysis Software. *J Neurotrauma.* 2017 Feb;34(3):559-566.

Popok D, West C, Frias B, Krassioukov AV. Development of an Algorithm to Perform a Comprehensive Study of Autonomic Dysreflexia in Animals with High Spinal Cord Injury Using a Telemetry Device. *J Vis Exp.* 2016 Jul 29;(113).

Currie KD, West CR, Stöhr EJ, Krassioukov AV. Left Ventricular Mechanics in Untrained and Trained Males with Tetraplegia. *J Neurotrauma.* 2017 Feb;34(3):591-598.

Liu N, Zhou MW, Biering-Sørensen F, Krassioukov AV. Cardiovascular response during urodynamics in individuals with spinal cord injury. *Spinal Cord.* 2016 Aug 2.

Phillips AA, Hansen A, Krassioukov AV. In with the new and out with the old: enter multivariate wavelet decomposition, exit transfer function. *Am J Physiol Heart Circ Physiol.* 2016 Sep 1;311(3):H735-7.

Squair JW, West CR, Popok D, Assinck P, Liu J, Tetzlaff W, Krassioukov AV. High Thoracic Contusion Model for the Investigation of Cardiovascular Function after Spinal Cord Injury. *J Neurotrauma.* 2017 Feb;34(3):671-684.

Bauman WA, Krassioukov A, Biering-Sørensen F. Version 2.0 of the international spinal cord injury endocrinology and metabolic function basic data set. *Spinal Cord.* 2016 Jul 12.

Davidson RA, Carlson M, Fallah N, Noonan VK, Elliott SL, Joseph J, Smith KM, Krassioukov AV. Inter-Rater Reliability of the International Standards to Document Remaining Autonomic Function after Spinal Cord Injury. *J Neurotrauma.* 2017 Feb;34(3):552-558.

Davidson R, Elliott S, Krassioukov A. Cardiovascular Responses to Sexual Activity in Able-Bodied Individuals and Those Living with Spinal Cord Injury. *J Neurotrauma.* 2016 Dec 15;33(24):2161-2174.

Tate DG, Forchheimer M, Rodriguez G, Chiodo A, Cameron AP, Meade M, Krassioukov A. Risk Factors Associated With Neurogenic Bowel Complications and Dysfunction in Spinal Cord Injury. *Arch Phys Med Rehabil.* 2016 Oct;97(10):1679-86

Currie KD, West CR, Krassioukov AV. Differences in Left Ventricular Global Function and Mechanics in Paralympic Athletes with Cervical and Thoracic Spinal Cord Injuries. *Front Physiol.* 2016 Mar 29;7:110.

Squair JW, White BA, Bravo GI, Martin Ginis KA, Krassioukov AV. The Economic Burden of Autonomic Dysreflexia during Hospitalization for Individuals with Spinal Cord Injury. *J Neurotrauma.* 2016 Aug 1;33(15):1422-7.

Fougere RJ, Currie KD, Nigro MK, Stothers L, Rapoport D, Krassioukov AV. Reduction in Bladder-Related Autonomic Dysreflexia after OnabotulinumtoxinA Treatment in Spinal Cord Injury. *J Neurotrauma.* 2016 Sep 15;33(18):1651-7.

Chan CW, Eng JJ, Tator CH, Krassioukov A; Spinal Cord Injury Research Evidence Team. Epidemiology of sport-related spinal cord injuries: A systematic review. *J Spinal Cord Med.* 2016 May;39(3):255-64.

West CR, Krassioukov AV. Autonomic cardiovascular control and sports classification in Paralympic athletes with spinal cord injury. *Disabil Rehabil.* 2017 Jan;39(2):127-134.

Aslan SC, Randall DC, Krassioukov AV, Phillips A, Ovechkin AV. Respiratory Training Improves Blood Pressure Regulation in

Individuals With Chronic Spinal Cord Injury. *Arch Phys Med Rehabil*. 2016 Jun;97(6):964-73

Phillips AA, Chan FH, Zheng MM, Krassioukov AV, Ainslie PN. Neurovascular coupling in humans: Physiology, methodological advances and clinical implications. *J Cereb Blood Flow Metab*. 2016 Apr;36(4):647-64.

Phillips AA, Matin N, Frias B, Zheng MM, Jia M, West C, Dorrance AM, Laher I, Krassioukov AV. Rigid and remodelled: cerebrovascular structure and function after experimental high-thoracic spinal cord transection. *J Physiol*. 2016 Mar 15;594(6):1677-88.

Clark JF, Mealing SJ, Scott DA, Vogel LC, Krassioukov A, Spinelli M, Bagi P, Wyndaele JJ. A cost-effectiveness analysis of long-term intermittent catheterisation with hydrophilic and uncoated catheters. *Spinal Cord*. 2016 Jan;54(1):73-7.

West CR, Crawford MA, Laher I, Ramer MS, Krassioukov AV. Passive Hind-Limb Cycling Reduces the Severity of Autonomic Dysreflexia After Experimental Spinal Cord Injury. *Neurorehabil Neural Repair*. 2016 May;30(4):317-27.

Krassioukov A, Tomasone JR, Pak M, Craven BC, Ghotbi MH, Ethans K, Martin Ginis KA, Ford M, Krassioukov-Enns D. "The ABCs of AD": A prospective evaluation of the efficacy of an educational intervention to increase knowledge of autonomic dysreflexia management among emergency health care professionals. *J Spinal Cord Med*. 2016;39(2):190-6.

Phillips AA, Ainslie PN, Warburton DE, Krassioukov AV. Cerebral Blood Flow Responses to Autonomic Dysreflexia in Humans with Spinal Cord Injury. *J Neurotrauma*. 2016 Feb 1;33(3):315-8.

Brian Kwon

Cheng CL, Noonan VK, Shurgold J, Chen J, Rivers CS, Hamedani HK, Humphreys S, Bailey C, Attabib N, Mac-Thiong JM, Goytan M, Paquet J, Fox R, Ahn H, Kwon BK, Fourny DR. Geomapping of Traumatic Spinal Cord Injury in Canada and Factors Related to Triage Pattern. *J Neurotrauma*. 2017 Mar 22. doi: 10.1089/neu.2016.4929. [Epub ahead of print] PubMed PMID: 28325105.

Streijger F, Skinnider M, Rogalski JC, Balshaw R, Shannon CP, Prudova A, Belanger LM, Ritchie L, Tsang A, Christie S, Parent S, Mac-Thiong JM, Bailey C, Urquhart J, Ailon T, Paquette SJ, Boyd MC, Street J, Fisher CG, Dvorak MF, Borchers CH, Foster LJ, Kwon BK. A Targeted Proteomics Analysis of Cerebrospinal Fluid after Acute Human Spinal Cord Injury. *J Neurotrauma*. 2017 Mar 9. doi: 10.1089/neu.2016.4879. [Epub ahead of print] PubMed PMID: 28276985.

Burns AS, Santos A, Cheng CL, Chan E, Fallah N, Atkins D, Dvorak MF, Ho C, Ahn H, Paquet J, Kwon BK, Noonan V. Understanding Length of Stay following Spinal Cord Injury: Insights and Limitations from the Access to Care and Timing (ACT) Project. *J Neurotrauma*. 2017 Feb 28. doi: 10.1089/neu.2016.4935. [Epub ahead of print] PubMed PMID: 28245734.

Wu Y, Streijger F, Wang Y, Lin G, Christie S, Mac-Thiong JM, Parent S, Bailey CS, Paquette S, Boyd MC, Ailon T, Street J, Fisher CG, Dvorak MF, Kwon BK, Li L. Parallel Metabolomic Profiling of Cerebrospinal Fluid and Serum for Identifying Biomarkers of Injury Severity after Acute Human Spinal Cord Injury. *Sci Rep*. 2016 Dec 14;6:38718. doi: 10.1038/srep38718. PubMed PMID: 27966539.

Tee JW, Altaf F, Belanger LM, Ailon T, Street J, Paquette SJ, Boyd MC, Fisher CG, Dvorak MF, Kwon BK. Mean arterial blood pressure management of acute spinal cord injured patients during the pre-hospital and early admission period. *J Neurotrauma*. 2016 Dec 2. [Epub ahead of print] PubMed PMID: 27912248.

Khezri N, Ailon T, Kwon BK. Treatment of Facet Injuries in the Cervical Spine. *Neurosurg Clin N Am*. 2017 Jan;28(1):125-137. doi: 10.1016/j.nec.2016.07.005. Review. PubMed PMID: 27886874.

Holtz KA, Lipson R, Noonan VK, Kwon BK, Mills PB. The prevalence and effect of problematic spasticity following traumatic spinal cord injury. *Arch Phys Med Rehabil*. 2016 Oct 22. pii: S0003-9993(16)31162-5. doi:10.1016/j.apmr.2016.09.124. [Epub ahead of print] PubMed PMID: 27780743.

Chen K, Liu J, Assinck P, Bhatnagar T, Streijger F, Zhu Q, Dvorak MF, Kwon BK, Tetzlaff W, Oxland TR. Differential Histopathological and Behavioral Outcomes Eight Weeks after Rat Spinal Cord Injury by Contusion, Dislocation, and Distraction Mechanisms. *J Neurotrauma*. 2016 Sep 15;33(18):1667-1684. Epub 2016 Apr 4. PubMed PMID: 26671448.

Thibault-Halman G, Rivers CS, Bailey C, Tsai E, Drew B, Noonan V, Fehlings M, Dvorak MF, Kuerban D, Kwon BK, Christie S. Predicting recruitment feasibility for acute spinal cord injury clinical trials in Canada using national registry data. *J Neurotrauma*. 2016 Sep 14. [Epub ahead of print] PubMed PMID: 27627704.

Kwon BK, Streijger F, Fallah N, Noonan V, Belanger LM, Ritchie L, Paquette SJ, Ailon T, Boyd MC, Street J, Fisher CG, Dvorak MF. Cerebrospinal Fluid Biomarkers to Stratify Injury Severity and Predict Outcome in Human Traumatic Spinal Cord Injury. *J Neurotrauma*. 2016 Jun 27. [Epub ahead of print] PubMed PMID: 27349274.

Altaf F, Griesdale DE, Belanger L, Ritchie L, Markez J, Ailon T, Boyd MC, Paquette S, Fisher CG, Street J, Dvorak MF, Kwon BK. The differential effects of norepinephrine and dopamine on cerebrospinal fluid pressure and spinal cord perfusion pressure

after acute human spinal cord injury. *Spinal Cord*. 2016 Jun 7. doi: 10.1038/sc.2016.79. [Epub ahead of print] PubMed PMID: 27271117.

Streijger F, Lee JH, Manouchehri N, Melnyk AD, Chak J, Tigchelaar S, So K, Okon EB, Jiang S, Kinsler R, Barazanji K, Crompton PA, Kwon BK. Responses of the Acutely Injured Spinal Cord to Vibration that Simulates Transport in Helicopters or Mine-Resistant-Ambush-Protected Vehicles. *J Neurotrauma*. 2016 May 23. [Epub ahead of print] PubMed PMID: 27214588.

Streijger F, Lee JH, Manouchehri N, Okon EB, Tigchelaar S, Anderson L, Dekaban GA, Rudko D, Menon RS, Iaci JF, Button DC, Vecchione AM, Konovalov A, Sarmiere PD, Ung C, Caggiano AO, Kwon BK. The Evaluation of Magnesium Chloride within a Polyethylene Glycol Formulation in a Porcine Model of Acute Spinal Cord Injury. *J Neurotrauma*. 2016 Apr 28. [Epub ahead of print] PubMed PMID: 27125815.

Street JT, Andrew Glennie R, Dea N, DiPaola C, Wang Z, Boyd M, Paquette SJ, Kwon BK, Dvorak MF, Fisher CG. A comparison of the Wiltse versus midline approaches in degenerative conditions of the lumbar spine. *J Neurosurg Spine*. 2016 Sep;25(3):332-8. doi: 10.3171/2016.2.SPINE151018. Epub 2016 Apr 22. PubMed PMID: 27104286.

Tania Lam

Qaiser T, Chisholm A, Lam T. The relationship between lower limb proprioceptive sense and locomotor skill acquisition. *Experimental Brain Research*, 234: 3185-3192, 2016.

Squair JW, Bjerkefors A, Inglis JT, Lam T, Carpenter MG. Cortical and vestibular stimulation reveal preserved descending motor pathways in individuals with motor-complete spinal cord injury. *Journal of Rehabilitation Medicine*, 48: 589-596, 2016.

Corree Laule

Meyers SM, Kolind SH, Laule C, MacKay AL. Measuring Water Content using T2 Relaxation at 3T: Phantom Validations and Simulations. *Magnetic Resonance Imaging*. 2016 Apr;34(3):246-51.

Neva JL, Lakhani B, Brown KE, Wadden KP, Mang CS, Ledwell NH, Borich MR, Vavasour IM, Laule C, Traboulsee AL, MacKay AL, Boyd LA. Multiple measures of corticospinal excitability are associated with clinical features of multiple sclerosis. *Behavioural Brain Research*. 2016 Jan 15;297:187-95.

Laule C, Yung A, Pavolva V, Bohnet B, Kozlowski P, Hashimoto SA, Yip S, Li DK, Moore GRW. High-resolution myelin water imaging in post-mortem multiple sclerosis spinal cord: A case report. *Multiple Sclerosis*. 2016 Oct;22(11):1485-1489.

Meyers SM, Tam R, Lee JS, Kolind SH, Vavasour IM, Mackie E, Zhao Y, Laule C, Mädler B, Li DK, MacKay AL, Traboulsee AL. Does hydration status affect MRI measures of brain volume or water content? *Journal of Magnetic Resonance Imaging*. 2016 Aug;44(2):296-304.

Moore GRW, Laule C, Leung E, Pavlova V, Morgan BP, Esiri MM. Complement and humoral adaptive immunity in the human choroid plexus: roles for stromal concretions, basement membranes and epithelium. *Journal of Neuropathology and Experimental Neurology*. 2016 May;75(5):415-28. (CA)

Kathleen Martin Ginis

Perrier, M. J., Stork, M. J., Martin Ginis, K. A., & The SHAPE-SCI Research Group. (2017). Type, intensity, and duration of activities of daily living performed by adults with spinal cord injury. *Spinal Cord*, 64-70. doi:10.1038/sc.2016.86.

Jørgensen, S., Martin Ginis, K. A., & Lexell, J. (2017). Leisure time physical activity among older adults with long-term spinal cord injury. *Spinal Cord*. E-pub ahead of print doi:10.1038/sc.2017.26.

Williams, T., Ma, J., Martin Ginis, K. A. (2017). Participant experiences and perceptions of physical activity-enhancing interventions for people with physical impairments and mobility limitations: A meta-synthesis of qualitative research evidence. *Health Psychology Review*, 13, 1-18. doi: 10.1080/17437199.2017.1299027.

Martin Ginis, K. A., Heisz, J., Spence, J. C., Clark, I. B., Antflick, J., Arden, C. I., Costas-Bradstreet, C., Duggan, M., Hicks, A. L., Latimer-Cheung, A. E., Middleton, L., Nysten, K., Paterson, D. H., Pelletier, C., & Rotondi, M. A. (2017). Formulation of evidence-based messages to promote the use of physical activity to prevent and manage Alzheimer's disease. *BMC Public Health*, 17, 209, doi: 10.1186/s12889-017-4090-5.

Shirazipour, C. H., Evans, M. B., Caddick, N., Smith, B., Aiken, A. B., Martin Ginis, K. A., Latimer-Cheung, A. E. (2017). Quality participation experiences in the physical activity domain: Perspectives of veterans with a physical disability. *Psychology of Sport & Exercise*, 29, 40-50.

- Cradock, K. A., O'Laighin, G., Finucane, F. M., Gainforth, H. L., Quinlan, L. R., & Martin Ginis, K. A. (2017). Behaviour change techniques targeting both diet and physical activity in type 2 diabetes: A systematic review and meta-analysis. *International Journal of Behavioural Nutrition and Physical Activity*, 14, 18. Doi 10.1186/s12966-016-0436-0.
- Shaw, R., Mallory, K., Arkell, J., & Martin Ginis, K. A. (2017). The technical quality of online leisure time physical activity resource for people with physical disabilities. *Disability and Health Journal*, 10, 93-99. Doi: <http://dx.doi.org/10.1016/j.dhjo.2016.09.002>.
- Tomasone, J. R., Arbour-Nicitopoulos, K. P., Latimer-Cheung, A. E., & Martin Ginis, K. A. (2016). The relationship between implementation and effectiveness of a nationwide physical activity telephone counseling service for adults with spinal cord injury. *Disability and Rehabilitation*. doi: 10.1080/09638288.2016.1261415.
- Martin Ginis, K. A., Evans, M. B., Mortenson, W. B., & Noreau, L. M. (2016). Broadening the conceptualization of 'Participation' of persons with physical disabilities: A configurative review of recommendations. *Archives of Physical Medicine and Rehabilitation*. doi: 10.1016/j.apmr.2016.04.017
- Ma, J. K., Post W. M. W., Gorter, J. W., & Martin Ginis, K. A. (2016). Differences in health, participation, and life satisfaction following pediatric- versus adult-sustained spinal cord injury. *Spinal Cord*, 54, 1197-1202. doi: 10.1038/sc.2016.45.
- Salci, L., Perrier, M. J., Ginis, S., & Martin Ginis, K. A. Active Living Leaders Training Program for Adults with Spinal Cord Injury: A pilot study (2016). *Spinal Cord*, 54, 662-669. doi: 10.1038/sc.2015.168.
- Perrier, M. J., Martin Ginis, K. A., & The SHAPE-SCI Research Group (2016). A description and estimate of very low-intensity activity and inactive awake time in community-dwelling adults with chronic spinal cord injury. *Spinal Cord*, 54, 709-713. doi:10.1038/sc.2015.232.
- Stork, M. J., & Martin Ginis, K. A. (2016). Listening to music during sprint interval exercises: The impact on exercise attitudes and intentions. *Journal of Sport Sciences*. Doi: <http://dx.doi.org/10.1080/02640414.2016.1242764>.
- Squair, J. W., White, B. A. Bravo, G. I., Martin Ginis, K. A., & Krassioukov, A. V. (2016). The economic burden of autonomic dysreflexia during hospitalization for individuals with spinal cord injury. *Journal of Neurotrauma*, 33, 1422-1427. Doi: 10.1089/neu.2015.4370.
- Martin Ginis, K. A., Tomasone, J. R., Welsford, M., Ethans, K., Sinden, A. R., Longeway, M., & Krassioukov, A. (2016). Online training improves paramedics' knowledge of autonomic dysreflexia management guidelines. *Spinal Cord*. Advance online publication, doi:10.1038/sc.2016.116.
- Perrier, M. J., & Martin Ginis, K. A. (2016). Changing health-promoting behaviours through narrative interventions: A systematic review. *Journal of Health Psychology*. Doi: 10.1177/1359105316656243
- Martin Ginis, K. A. (2016). Letter to the Editor. *Journal of Science and Medicine in Sport*, 19(8), 604. doi:10.1016/j.jsams.2016.05.001
- Martin Ginis, K. A., Ma, J. K., Latimer-Cheung, A. E., & Rimmer J. H. (2016). A systematic review of review articles addressing factors related to physical activity participation among children and adults with physical disabilities. *Health Psychology Review*, 5, 1-31.
- Krassioukov, A., Tomasone, J. R., Pak, M., Martin Ginis, K. A., Craven, C., Ghotbi, M. H., Ethans, K.,...Krassioukov-Enns, D. (2016). "The ABCs of AD": A prospective evaluation of the efficacy of an educational intervention to increase knowledge of autonomic dysreflexia management among emergency health care professionals. *The Journal of Spinal Cord Medicine*, 39, 190-196. DOI: <http://dx.doi.org/10.1179/2045772315Y.0000000037>
- Stapleton, J. N., Perrier, M. J., Campbell, D. S., Tawse, H. L., & Martin Ginis, K. A. (2016). Social cognitive predictors of level of sport participation among athletes with physical disability. *Psychology of Sport and Exercise*, 22, 46-52.
- Stork, M. J., Graham, J. D., Bray, S. R., & Martin Ginis, K. A. (2016). Using self-reported and objective measures of self-control to predict exercise and academic behaviours among first-year university students. *Journal of Health Psychology*. Advance online publication: doi: 10.1177/1359105315623627.
- Jung, M., Stapleton, J., Stork, M. J., Bourne, J., Latimer, A., & Martin Ginis, K. A. (2016). A systematic review of calcium intake interventions in adults: where do we go from here? *International Journal of Food Safety, Nutrition and Public Health*, 6, 29-64.
- Best, K. L., Routhier, F., Sweet, S. N., Arbour-Nicitopoulos, K.P., Borisoff, J.F., Noreau, L., Martin Ginis, K. A. (in press). Feasibility of the Smartphone-delivered Peer Physical Activity Counselling (SPPAC) program for manual wheelchair users: Study protocol of a randomized controlled trial. *Journal of Medical Internet Research: Research Protocols*.

William Miller

- J Mattie, Borisoff JF, Miller WC, Nouredin B. Characterizing the community use of an ultralight wheelchair with dynamic seating functions. *PLoS One* [Epub] 2017 Mar 9. doi: <http://doi.org/10.1371/journal.pone.0173662>
- Smith EM, Low K, Miller WC. Interrater and intrarater reliability of the Wheelchair Skills Test Version 4.2 for Power Wheelchair Users. *Disability and Rehabilitation*. [Epub] 2017 Jan 23. doi: 10.1080/09638288.2016.1271464. Journal Impact Factor: 2.52.
- Giesbrecht EM, Smith EM, Mortenson WB, Miller WC. Met and unmet needs for mobility device, home modification, and personal assistance among wheeled mobility device users in Canada. Accepted to *Health Reports*, December 2016. Journal Impact Factor: 4.202.
- Rushton PW, Mortenson WB, Viswanathan P, Wang RH, Miller WC, Hurd Clarke L, CanWheel Research Team. Intelligent power wheelchair use in long-term care: Potential users' experiences and perceptions. *Disability and Rehabilitation: Assistive Technology*. [Epub] 2016 Dec 16. doi: 10.1080/17483107.2016.1260653. IJDT 1260653. Journal Impact Factor: 1.25.
- Chan C, Miller WC, Querée M, Noonan V, Wolfe D, SCIRE Research Team. The development of an outcome measures toolkit for spinal cord injury rehabilitation. Accepted to the *Canadian Journal of Occupational Therapy*, November 2016. Journal Impact Factor: 1.76.
- Forwell S, Silverberg N, Anton H, Imam B, Miller WC, Townson A, Diab K. Fatigue, pain and depression: An invisible triad among persons with spinal cord injury. Accepted to *Physical Therapy Reviews*, November 2016. Journal Impact Factor: 0.71.
- Routhier F, Lettre J, Miller WC, Borisoff J, Keetch K, Mitchell IM, Canwheel Research Team. Data logger technologies for manual wheelchairs: A scoping review. *Assistive Technology*. [Epub] 2016 Nov 15. doi: 10.1080/10400435.2016.1242516. Journal Impact Factor: 1.25.
- Smith EM, Roberts L, McColl MA, Martin Ginis K, Miller WC. National evaluation of policies governing funding for wheelchairs and scooters in Canada. Accepted to *Canadian Journal of Occupational Therapy*, October 2016. Journal Impact Factor: 1.76.
- Zbogor D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Movement repetitions in physical and occupational therapy during spinal cord injury rehabilitation. *Spinal Cord*. [Epub] 2016 Oct 18. doi: 10.1038/sc.2016.129. Journal Impact Factor: 2.94
- Archambault P, Emilie B, Denise R, Routhier F, Miller WC. Development and user validation of driving tasks for a power wheelchair simulator. *Disability and Rehabilitation*. [Epub] 2016 Sept 27. Journal Impact Factor: 2.52.
- Viswanathan P, Ambalde EP, Foley G, Bell JL, Wang RH, Adhikari B, Mackworth AK, Mihailidis A, Miller WC, Mitchell IM. Intelligent wheelchair control strategies for older adults with cognitive impairment: User attitudes, needs, and preferences. *Autonomous Robots*. [Epub] 2016 May 17. doi: 10.1007/s10514-016-9568-y. Journal Impact Factor: 4.84.
- Sakakibara BM, Routhier F, Miller WC. Wheeled-mobility correlates of life-space and social participation in adult manual wheelchair-users aged 50 and older. *Disability and Rehabilitation: Assistive Technology*. [Epub] 2016 Jul 4. doi:10.1080/17483107.2016.1198434. PMID: 27377171. Journal Impact Factor: 1.25.
- Mortenson WB, Demers L, Rushton PW, Auger C, Routhier F, Miller WC. Psychometric properties of the caregiver assistive technology outcome measure for caregivers of power mobility users. Accepted to the *Journal of Rehabilitation Research and Development*, May 2016. Journal Impact Factor: 2.78
- Best KL, Miller WC, Eng JJ, Routhier FR. Systematic review and meta-analysis of peer-led self-management programs for increasing physical activity. *International Journal of Behavioral Medicine*. [Epub] 2016 Feb 4: 1-2. doi: 10.1007/s12529-016-9540-4. PMID: 26846476. Journal Impact Factor: 2.68
- Smith EM, Boucher N, Miller WC. Caregiving services in spinal cord injury: A systematic review of the literature. *Spinal Cord*, 2016;54(8):562-9. doi: 10.1038/sc.2016.8. PMID: 26902459. Journal Impact Factor: 2.94.
- Zbogor D, Eng JJ, Miller WC, Krassioukov AV, Verrier MC. Physical activity outside of structured therapy during inpatient spinal cord injury rehabilitation. *Journal of NeuroEngineering and Rehabilitation*. 2016;13(1):99. doi: 10.1186/s12984-016-0208-8. Journal Impact Factor: 3.58.
- Zbogor D, Eng JJ, Miller WC, Krassioukov A, Verrier M. Reliability and validity of daily physical activity measures during inpatient spinal cord injury rehabilitation. *SAGE Open Medicine*. 2016;4:1-9. doi: 10.1177/2050312116666941 Journal Impact Factor: 0.57
- Torkia C, Best KL, WC Miller, Eng JJ. Balance confidence: A predictor of perceived physical function, perceived mobility, and perceived recovery 1 year after inpatient stroke rehabilitation. *Archives of Physical Medicine and Rehabilitation*. 2016;97(7):1064-71. doi: 10.1016/j.apmr.2016.03.004. PMID: 27060032. Journal Impact Factor: 3.58
- Anton H, Miller WC, Townson A, Imam B, Silverberg N, Forwell S. The course of fatigue after acute spinal cord injury. *Spinal Cord*. 2016;55:94-97. doi: 10.1038/sc.2016.102. PMID: 27349608. Journal Impact Factor: 2.94

Alimohammad S, Parvaneh S, Ghahari S, Saberi H, Yekaninejad MS, Miller WC. Translation and validation of the Farsi version of the Wheelchair Outcome Measure (WhOM-Farsi) in individuals with spinal cord injury. *Disability and Health Journal*, 2016;9(2):265-71. doi:10.1016/j.dhjo.2015.09.004. PMID: 26586171. Journal Impact Factor: 2.08

Smith EM, Giesbrecht EM, Mortenson WB, Miller WC. The prevalence of wheelchair and scooter use among community-dwelling Canadians. *Physical Therapy*. 2016;96(8):1135-42. doi: 10.2522/ptj.20150574. PMID: 26847009. PMC ID: PMC4992144. Journal Impact Factor: 3.78.

Best K, Miller WC, Huston G, Routhier F, Eng JJ. Pilot study of a peer-led wheelchair training program to improve self-efficacy using a manual wheelchair: A randomized controlled trial. *Archives of Physical Medicine and Rehabilitation*. 2016;97(1):37-44. doi: 10.1016/j.apmr.2015.08.425. PMID: 26343171. Journal Impact Factor: 3.58.

Smith EM, Sakakibara BM, Miller WC. A review of factors influencing participation in social and community activities for wheelchair users. *Disability and Rehabilitation: Assistive Technology*. 2016;11(5):361-74. doi: 10.3109/17483107.2014.989420. PMID: 25472004. Journal Impact Factor: 1.25

Field D, Miller WC, Jarus T, Ryan SE, Roxborough L. Exploring suitable participation tools for children who need or use power mobility: A modified Delphi survey. *Developmental Neurorehabilitation*. 2016;19(6):365-79. doi: 10.3109/175184pre se23.2015.1004763. PMID: 25825804. Journal Impact Factor: 1.75.

Mattie J, Borisoff J, Miller WC. User perceptions of existing home access solutions and a novel home access device. *Disability and Rehabilitation: Assistive Technology*. 2016;11(8):668-77. doi:10.3109/17483107.2015.1027302. doi:10.3109/17483107.2015.1027302. PMID: 25815678. Journal Impact Factor: 1.25.

Smith EM, Imam B, Miller WC, Forwell S, Silverberg N, Anton H, Townson A. The relationship between fatigue and participation in spinal cord injury. *Spinal Cord* 2016;54:457-62. doi:10.1038/sc.2015.149. PMID: 26369887. Journal Impact Factor: 2.94.

Field D, Miller WC, Ryan S, Jarus T. Measuring participation for children and youth with power mobility needs: A systematic review of potential health measurement tools. *Archives of Physical Medicine and Rehabilitation*. 2016;97(3):462-77.e40. doi: 10.1016/j.apmr.2015.08.428. PMID: 26365129. Journal Impact Factor: 3.58.

Patricia Mills

Holtz KA, Lipson R, Noonan VK, Kwon BK, Mills PB. The prevalence and effect of problematic spasticity following traumatic spinal cord injury. *Arch Phys Med Rehabil*. 2016 Oct 22. pii: S0003-9993(16)31162-5. doi: 10.1016/j.apmr.2016.09.124. PMID: 27780743.

PB Mills and F Dossa. Transcutaneous Electrical Nerve Stimulation for Management of Limb Spasticity: a Systematic Review. *Am J Phys Med Rehabil*. 2016 Apr;95(4):309-18.

Mills PB, Finlayson H, Sudol M, & O'Connor R. Systematic review of adjunct therapies to improve outcomes following botulinum toxin injection for treatment of limb spasticity. *Clin Rehabil*. 2016 June;30(6):537-548. PMID: 26198891

Wayne Moore

Walker G, Thiessen B, Graeb D, Moore GR, Mackenzie IR. An Unusual Case of Rabies Encephalitis. *Can J Neurol Sci* 43: 852-5, 2016.

Christensen PC, Samadi-Bahrami Z, Pavlov V, Stys PK, Moore GR. Ionotropic glutamate receptor expression in human white matter. *Neurosci Lett* 630: 1-8, 2016.

Laule C, Yung A, Pavolva V, Bohnet B, Kozlowski P, Hashimoto SA, Yip S, Li DK, Moore GW. High-resolution myelin water imaging in post-mortem multiple sclerosis spinal cord: A case report. *Mult Scler* 22: 1485-9, 2016.

Moore GR, Laule C, Leung E, Pavlova V, Morgan BP, Esiri MM. Complement and Humoral Adaptive Immunity in the Human Choroid Plexus: Roles for Stromal Concretions, Basement Membranes, and Epithelium. *J Neuropathol Exp Neurol* 75: 415-28, 2016.

Ben Mortenson

Mortenson, W. B., & Kim, J. (2016). A scoping review of mobility scooter-related research studies. *Journal of Rehabilitation Research & Development*. 53(5), 531-540. <http://dx.doi.org/10.1682/JRRD.2015.05.0084>

Smith, E. M., Giesbrecht, E. M., Mortenson, W. B., & Miller, W. C. (2016). Prevalence of wheelchair and scooter use among community dwelling Canadians. *Physical Therapy Journal*. 96(8), 1135-1142. <http://doi.org/10.2522/ptj.20150574>

Mortenson, W. B., Hoag, E., Higgins, R., Emery, R. & Joyce, L. (2016). Stakeholders' perspectives related to the development

- of a scooter training program. *Disability and Rehabilitation: Assistive Technology*, 11(4), 289-294.
- Mortenson, W. B., Sixsmith, A., & Beringer, R. (2016). No place like home? Surveillance technologies and the meaning of home in old age. *Canadian Journal on Aging*, 35(1), 103-114. doi:10.1017/S0714980815000549
- Kaufman, D., Sauvé, L., Renaud, L., Sixsmith, A., Mortenson, W. B. (2016). Older adults' digital gameplay: patterns, benefits, and challenges. *Simulation & Gaming*, 1-25. doi:10.1177/1046878116645736
- Bishop, A. M., & Mortenson, W. B. (2016). Discharge criteria and follow-up support for dementia care units. *Journal of Applied Gerontology*, 35(3), 321-30. doi:10.1177/0733464815577140
- Demers, L., Mortenson, W. B., Fuhrer, M. J., Jutai, J. W., Plante, M., Mah, J., & DeRuyter, F. (2016). Effect of a tailored assistive technology intervention on older adults and their family caregivers: A pragmatic study protocol. *BioMed Central Geriatrics*, 16(103), 2-11. doi:10.1186/s12877-016-0269-3
- Rushton, P. W., Mortenson, W. B., Viswanathan, P., Wang, R. H., Miller, W. C., Hurd Clarke, L., & CanWheel Research Team. (2016). Intelligent power wheelchair use in long-term care: Potential users' experiences and perceptions. *Disability and Rehabilitation: Assistive Technology*, 1-7. doi:10.1080/17483107.2016.1260653. PMID: 27982717
- Giesbrecht, E. M., Smith, E. M., Mortenson, W. B., & Miller, W. C. (2016). Met and unmet needs for mobility device, home modification, and personal assistance among wheeled mobility device users in Canada. *Health Reports*, TBD. [accepted]
- Mahmoud, H., Qannam, H., Zbogar, D., & Mortenson, W. B. (2017). Spinal cord injury rehabilitation in Riyadh, Saudi Arabia: Time to rehabilitation admission, length of stay, and functional independence. *Spinal Cord*, 1-6. PMID: 28139661
- Wada, M., Mortenson, W. B., & Hurd Clarke, L. (2017). Older adults' online dating profiles and successful ageing. *Canadian Journal on Ageing*, 35(4), 479-490. doi:10.1017/S071114980816000507. PMID: 27774918
- Mortenson, W. B., Hurd Clarke, L., Goldsmith, C. H., Jang, S., & Kirby, R. L. (2017). Measurement properties of the wheelchair skills test for scooters among experienced users. *Disability and Rehabilitation: Assistive Technology*, 0(0), 1-6. doi:http://dx.doi.org/10.1080/17483107.2017.1280546
- Martin Ginis, K. A., Evans, M. B., Mortenson, W. B., & Noreau, L. M. (2017). Broadening the conceptualization of 'participation' of persons with physical disabilities: A configurative review and recommendations. *Archives of Physical Medicine & Rehabilitation*, 98(2), 395-402. doi:http://dx.doi.org/10.1016/j.apmr.2016.04.017. PMID: 27216222
- Mahmoud, H., Qannam, H., & Mortenson, W. B. (2017). Traumatic brain injury rehabilitation in Riyadh, Saudi Arabia: Time to rehabilitation admission, length of stay, and functional outcome. *Brain Injury*, 0(0): 1-7.
- Shing, J., James, L., Mortenson, W. B., Mattie, J., & Borisoff, J. (2017). Experiences with and perceptions of an adaptive hiking program. *O(0): 1-7.*
- Rushton, P. W., Labbé, D., Demers, L., Miller, W. C., Mortenson, W. B., & Kirby, R. L. (2017). Understanding the burden experienced by caregivers of older adults who use a powered wheelchair: A cross-sectional study. *Gerontology and Geriatric Medicine*, 3(0): 1-8. doi:10.1177/2333721417703736
- Demers, L., & Mortenson, W. B. (2016). Measuring the impact of assistive technology on family caregivers. In S. Federici & M. J. Scherer (Eds.), *Submitted to Assistive Technology Assessment Handbook 2nd edition*. Boca Raton, FL: CRC Press.

Tom Oxland

- Malakoutian M, Street J, Wilke HJ, Stavness I, Dvorak M, Fels S, Oxland T. Role of muscle damage on loading at the level adjacent to a lumbar spine fusion: a biomechanical analysis. *Eur Spine J*. 2016 Sep;25(9):2929-37. doi: 10.1007/s00586-016-4686-y
- Malakoutian M, Street J, Wilke HJ, Stavness I, Fels S, Oxland T. A musculoskeletal model of the lumbar spine using ArtiSynth - development and validation. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, Published online: 13 Jul 2016, Pages 1-8, DOI: 10.1080/21681163.2016.1187087
- Bhatnagar T, Liu J, Yung A, Cripton PA, Kozlowski P, Tetzlaff W, Oxland TR. Relating Histopathology and Mechanical Strain in Experimental Contusion Spinal Cord Injury in a Rat Model. *J Neurotrauma*. 2016 Sep 15;33(18):1685-95. doi: 10.1089/neu.2015.4200.
- Oxland TR. Fundamental Biomechanics of the Spine - What we have learned in the past 25 years and future directions. *J Biomech*. 2016 Apr 11;49(6):817-32. doi: 10.1016/j.jbiomech.2015.10.035.Review.
- Chen K, Liu J, Assinck P, Bhatnagar T, Streijger F, Zhu Q, Dvorak MF, Kwon BK, Tetzlaff W, Oxland TR. Differential Histopathology and Behavioral Outcomes Eight Weeks After Rat Spinal Cord Injury by Contusion, Dislocation, and Distraction Mechanisms. *J Neurotrauma*. 2016 Sep 15;33(18):1667-84. doi: 10.1089/neu.2015.4218.

Melnyk AD, Chak JD, Cripton PA, Oxland TR, Kelly A, Dvorak MF, Wen TL. Reply: The effect of disc degeneration on anterior shear translation in the lumbar spine. *J Orthop Res.* 2016 Apr;34(4): 730-1. doi: 10.1002/jor.23093

Catherine Pallen

Rogers, C.A. and Pallen, C.J. (2016) The PRL PTPs: Regulating gene expression to re-program the cancer cell. In: *Protein Tyrosine Phosphatases in Cancer* (Eds. NK Tonks and BG Neel), Springer, NY, pp.261-282. [doi: 10.1007/978-1-4939-3649-6_10].

Matt Ramer

Kramer JL, Minhas NK, Jutzeler CR, Erskine EL, Liu LJ, Ramer MS. Neuropathic pain following traumatic spinal cord injury: Models, measurement, and mechanisms. *J Neurosci Res.* 2017 Jun;95(6):1295-1306. doi: 10.1002/jnr.23881. Epub 2016 Sep 12. Review.

Bartus K, Galino J, James ND, Hernandez-Miranda LR, Dawes JM, Fricker FR, Garratt AN, McMahon SB, Ramer MS, Birchmeier C, Bennett DL, Bradbury EJ. Neuregulin-1 controls an endogenous repair mechanism after spinal cord injury. *Brain.* 2016 May;139(Pt 5):1394-416. doi: 10.1093/brain/aww039. Epub 2016 Mar 17.

Bonita Sawatzky

Hers N, Sheel W, Sawatzky B. Age-Related Changes to Wheelchair Efficiency and Sprint Power Output in Novice Able-Bodied Males. *Ergonomics.*59(2) 291-297, 2016. Sadeghi M, Mclvor J, Finlayson H, Sawatzky B. Static standing, dynamic standing and spasticity in individuals with spinal cord injury. *Spinal Cord* 54: 376-38, 2016.

MacGillivray M, Manocha R, Sawatzky B. The influence of a polymer damper on swing-through crutch gait biomechanics. *Medical Engineering & Physics.* 38(3) 275-79, 2016.

Caroline Sparrey

Salegio EA, Bresnahan JC, Sparrey CJ et al. (2016). A Unilateral Cervical Spinal Cord Contusion Injury Model in Non-Human Primates (*Macaca mulatta*). *Journal of Neurotrauma.* 33: 439-459.

Jannesar S *, Nadler B , Sparrey CJ. (2016). The Transverse Isotropy of Spinal Cord White Matter Under Dynamic Load. *Journal of biomechanical engineering.* 138(9)

Sparrey CJ , Salegio EA , Camisa W , Tam H * , Beattie MS , Bresnahan JC. (2016). Mechanical Design and Analysis of a Unilateral Cervical Spinal Cord Contusion Injury Model in Non-Human Primates. *Journal of neurotrauma.* 33(12): 1136-49.

Katona DN*, Bennett CR*, McKoryk M, Brisson AL, Sparrey CJ. (2016). Effects of weld damage on the dynamics of energy absorbing lanyards. *International Journal of Occupational Safety and Ergonomics.*

Bailey JF , Sparrey CJ , Been E , Kramer PA. (2016). Morphological and postural sexual dimorphism of the lumbar spine facilitates greater lordosis in females.*Journal of anatomy.* 229(1): 82-91.

Erickson B * , Hosseini MA , Mudhar PS * , Soleimani M , Aboonabi A , Arzanpour S , Sparrey CJ. (2016). The dynamics of electric powered wheelchair sideways tips and falls: experimental and computational analysis of impact forces and injury. *Journal of neuroengineering and rehabilitation.* 13: 20.

Fortin M*, Dobrescu O , Courtemanche M*, Sparrey CJ , Santaguida C , Fehlings MG , Weber MH. (2016). Association Between Paraspinal Muscle Morphology, Clinical Symptoms and Functional Status in Patients With Degenerative Cervical Myelopathy. *Spine.*

Miriam Spering

Palidis D.J., Wyder-Hodge P., Fookan J. and Spering M. (2017). Distinct eye movement patterns enhance dynamic visual acuity. *PLoS ONE* 12(2):e0172061.

Edinger J., Pai D.K. and Spering M. (2017). Coordinated control of three-dimensional components of smooth pursuit eye movements to rotating and translating textures. *Investigative Ophthalmology & Visual Sciences* 58:698-707.

Fookan J., Yeo S.-H., Pai D.K. and Spering M. (2016). Eye movement accuracy determines natural interception strategies. *Journal of Vision* 16(14):1, 1-15

Ming W., Palidis D.J., Spering M. and McKeown M.J. (2016). Visual contrast sensitivity in early-stage Parkinson's disease. *Investigative Ophthalmology & Visual Sciences,* 57:5696-5704.

Lynn Stothers

Stothers L, Macnab A. Training of Field Personnel In Rural Uganda in Diagnostics for Male Bladder Outlet Obstruction. *Journal of Spectroscopy* Vol. 2016, Article ID 1241862, 7 pages, 2016. Doi:10.1155/2016/1241862. (IF 2.926)

Stothers L, Macnab AJ. Integration of spectroscopy and imaging to optimize evaluation of voiding dysfunction. *Biomedical Spectroscopy and Imaging*. 5, 283-294 (2016).

Stothers L, B Tsang, M Nigro, D Lazare, A Macnab. An Integrative Review of Standardized Clinical Evaluation Tool Utilization in Anticholinergic Drug Trials for Neurogenic Lower Urinary Tract Dysfunction. *Spinal Cord (Nature Publication)*. 2016. (IF 1.804)

L Stothers, A Macnab. Policy Implementation Research: A framework for Global strategies to advance urologic care. *Canadian Urologic Association Journal*. In Press 2017. (IF 1.02)

Stothers L, A Macnab. The burden of bladder outlet obstruction in men in rural Uganda. *International Journal of Epidemiology*. 2016 (IF 9.1)

Stothers L, Locke J, Macnab A, Nigro M. Long Term Urologic Evaluation Following Spinal Cord Injury. In "Current Bladder Dysfunction Reports." Springer 2016.

John Street

Lewkonja P, DiPaola C, Street J. Incidence and risk of delayed surgical site infection following instrumented lumbar spine fusion. *J Clin Neurosci*. 2016 Jan;23:76-80. doi: 10.1016/j.jocn.2015.05.039. Epub 2015 Sep 8. PubMed PMID: 26358200. SA.

Karstensen S, Bari T, Gehrchen M, Street J, Dahl B. Morbidity and mortality of complex spine surgery: a prospective cohort study in 679 patients validating the Spine AdVerse Event Severity (SAVES) system in a European population. *Spine J*. 2016 Feb;16(2):146-53. doi: 10.1016/j.spinee.2015.09.051. Epub 2015 Oct 8. PubMed PMID: 26456809. CA.

Dea N, Fisher CG, Batke J, Strelzow J, Mendelsohn D, Paquette SJ, Kwon BK, Boyd MD, Dvorak MF, Street JT. Economic evaluation comparing intraoperative cone beam CT-based navigation and conventional fluoroscopy for the placement of spinal pedicle screws: a patient-level data cost-effectiveness analysis. *Spine J*. 2016 Jan 1;16(1):23-31. doi: 10.1016/j.spinee.2015.09.062. Epub 2015 Oct 9. PubMed PMID: 26456854. SA.

Mendelsohn D, Strelzow J, Dea N, Ford NL, Batke J, Pennington A, Yang K, Ailon T, Boyd M, Dvorak M, Kwon B, Paquette S, Fisher C, Street J. Patient and surgeon radiation exposure during spinal instrumentation using intraoperative computed tomography-based navigation. *Spine J*. 2016 Mar;16(3):343-54. doi: 10.1016/j.spinee.2015.11.020. Epub 2015 Dec 10. PubMed PMID: 26686604. SA.

Street JT, Andrew Glennie R, Dea N, DiPaola C, Wang Z, Boyd M, Paquette SJ, Kwon BK, Dvorak MF, Fisher CG. A comparison of the Wiltse versus midline approaches in degenerative conditions of the lumbar spine. *J Neurosurg Spine*. 2016 Sep;25(3):332-8. doi: 10.3171/2016.2.SPINE151018. Epub 2016 Apr 22. PubMed PMID: 27104286. FA.

Altaf F, Griesdale DE, Belanger L, Ritchie L, Markez J, Ailon T, Boyd MC, Paquette S, Fisher CG, Street J, Dvorak MF, Kwon BK. The differential effects of norepinephrine and dopamine on cerebrospinal fluid pressure and spinal cord perfusion pressure after acute human spinal cord injury. *Spinal Cord*. 2016 Jun 7. doi: 10.1038/sc.2016.79. [Epub ahead of print] PubMed PMID: 27271117. CA.

Kwon BK, Streijger F, Fallah N, Noonan VK, Bélanger LM, Ritchie L, Paquette SJ, Ailon T, Boyd MC, Street J, Fisher CG, Dvorak MF. Cerebrospinal Fluid Biomarkers To Stratify Injury Severity and Predict Outcome in Human Traumatic Spinal Cord Injury. *J Neurotrauma*. 2016 Aug 15. [Epub ahead of print] PubMed PMID: 27349274. CA.

Flexman AM, Charest-Morin R, Stobart L, Street J, Ryerson CJ. Frailty and postoperative outcomes in patients undergoing surgery for degenerative spine disease. *Spine J*. 2016 Jun 30. pii: S1529-9430(16)30275-3. doi: 10.1016/j.spinee.2016.06.017. [Epub ahead of print] PubMed PMID: 27374110. CA.

Malakoutian M, Street J, Wilke HJ, Stavness I, Dvorak M, Fels S, Oxland T. Role of muscle damage on loading at the level adjacent to a lumbar spine fusion: a biomechanical analysis. *Eur Spine J*. 2016 Jul 27. [Epub ahead of print] PubMed PMID: 27465240. CA.

Darren Warburton

Kim DD, Lang DJ, Warburton DE, Barr AM, Smith GN, Thornton AE, White RF, Honer WG, Procyshyn RM. Effects of exercise on serum triglycerides and symptoms of Schizophrenia. *J Clin Psychopharmacol*. doi: 10.1097/JCP.0000000000000648. PMID: 28225749

Lai H and Warburton DER. Integrating upper- and lower-limb exercises in virtual reality video games: A novel approach in

- pediatric clinical exercise rehabilitation for Duchenne Muscular Dystrophy. *Health & Fitness Journal of Canada* 2016;9(4):23-29.
- Lai H and Warburton DER. Health benefits of physical activity across the adult lifespan: Knowledge translation of "More is better, but every little bit counts." *Health & Fitness Journal of Canada* 2016;9(4):19-22.
- Perrotta AS, Held NJ, Warburton DER. The effect of heat stress on health and performance. *Health & Fitness Journal of Canada* 2016;9(4):3-18.
- Lai H and Warburton DER. Alternating passive leg cycling and functional electrical stimulation: A novel approach in clinical exercise rehabilitation for spinal cord injury. *Health & Fitness Journal of Canada* 2016;9(3):59-65.
- de Faye A and Warburton DER. Physical activity should remain critical topic in health promotion. *Health & Fitness Journal of Canada* 2016;9(1):12-14.
- Kaufman KL and Warburton DER. The prevalence and effects of sedentary behaviour in older adults. *Health & Fitness Journal of Canada*. 2016;9(1):20-24.
- Giallonardo T and Warburton DER. Sit Less, Move More. *Health & Fitness Journal of Canada*. 2016;9(1):15-19.
- Perrotta AS, Jeklin A, Hives B, Meanwell L, and Warburton DER. Validity of the elite HRV smart phone application for examining heart rate variability in a field based setting. *Journal of Strength and Conditioning Research* 2017 Feb 8. doi: 10.1519/JSC.0000000000001841 [Epub ahead of print]
- Bonsignore A, Bredin SSD, Wollmann H, Robertson J, Morrison B, Buschmann L, Burrows J, McGuinty D, Rice M, and Warburton DER (2016). The influence of race length on arterial compliance following an ultra-endurance marathon. *European Journal of Sports Science - TEJS-2016-0438 (In Press)*. 2017
- Schwartz J, and Warburton DER. The current relationship between sedentary behaviour and obesity. *Health & Fitness Journal of Canada* 2016;9(1):25-27.
- Warburton DER, Jamnik VK, Bredin SSD, Shephard RJ, and Gledhill N. The 2016 Physical Activity Readiness Questionnaire for Everyone (PAR-Q+) and electronic Physical Activity Readiness Medical Examination (ePARmed-X+). *Health & Fitness Journal of Canada* 2016;9(1):28-31.
- Warburton DER, Jamnik VK, Bredin SSD, Shephard RJ, and Gledhill N. The 2016 Physical Activity Readiness Questionnaire for Everyone (PAR-Q+): French North America Version (Questionnaire sur l'aptitude à l'activité physique pour tous (2016 Q-AAP+)). *Health & Fitness Journal of Canada* 2016;9(1):32-35.
- Morrison BN, Nazzari H, Lithwick D, Taunton J, Isserow SH, Heilbron B, Warburton DER. Cardiovascular pre-participation screening and risk assessment in the masters athlete: International recommendations and a Canadian perspective. *BCM J* 2016;58(4):196-202.
- Warburton DER, Bredin SSD, Jamnik V, Shephard RJ, Gledhill N. Consensus on evidence-based preparticipation screening and risk stratification. *Annual Review of Gerontology and Geriatrics* 2016;36(1):53-102. <http://dx.doi.org/10.1891/0198-8794.36.53>
- Warburton DE, Bredin SS. Reflections on Physical Activity and Health: What Should We Recommend? *Can J Cardiol*. 2016 Apr;32(4):495-504. doi: 10.1016/j.cjca.2016.01.024. PMID: 26995692
- Phillips AA, Ainslie PN, Warburton DE, Krassioukov AV. Cerebral Blood Flow Responses to Autonomic Dysreflexia in Humans with Spinal Cord Injury. *J Neurotrauma*. 2016 Feb 1;33(3):315-8. doi: 10.1089/neu.2015.3871. PMID: 26077616
- Foulds HJ, Bredin SS, and Warburton DE. The vascular health status of a population of adult Canadian Indigenous peoples from British Columbia. *J Hum Hypertens*. 2016;30(4):278-84. doi:

David Whitehurst

- Engel L, Mortimer D, Bryan S, Lear SA, Whitehurst DGT. An investigation of the overlap between the ICECAP-A and five preference-based health-related quality of life instruments. *PharmacoEconomics* (ePub ahead of print; 24 March, 2017)
- Hannan LM, Whitehurst DGT, Bryan S, Road JD, McDonald CF, Berlowitz DJ, Howard ME. Framing of mobility items – a source of poor agreement between preference-based health-related quality of life instruments in a population of individuals receiving assisted ventilation. *Quality of Life Research* (ePub ahead of print; 2 March, 2017)
- Andronis L, Kinghorn P, Qiao S, Whitehurst DGT, Durrell S, McLeod H. Cost-effectiveness of non-invasive and non-pharmacological interventions for low back pain: a systematic literature review. *Applied Health Economics and Health Policy* 2017; 15(2): 173-201
- Engel L, Chudyk AM, Ashe MC, McKay HA, Whitehurst DGT, Bryan S. Older adults' quality of life – exploring the role of the built environment and social cohesion in community-dwelling seniors on low income. *Social Science & Medicine* 2016; 164: 1-11

Michel YA, Engel L, Augestad LA, Rand-Hendriksen K, Whitehurst DGT. "When I saw walking, I just took it as wheeling": Interpretations of mobility-related items in generic, preference-based health state instruments. *Health and Quality of Life Outcomes* 2016; 14; 164

Whitehurst DGT, Mittmann N, Noonan VK, Dvorak MF, Bryan S. Health state descriptions, valuations and individuals' capacity to walk: a comparative evaluation of preference-based instruments in the context of spinal cord injury. *Quality of Life Research* 2016; 25(10): 2481-96

Stephanie Willerth

Pedde, R.D., Mirani, B., Navaei, A., Styan, T., Wong, S., Mehrali, M., Thakur, A., Mohtaram, N.K., Bayati, A., Dolatshahi-Pirouz, A., Nikkhah, M., Willerth, S.M. and Akbari, M. Emerging biofabrication strategies for engineering of complex tissue constructs. Accepted at *Advanced Biomaterials*.

Edgar, J., Robinson, M., and Willerth, S.M. Fibrin hydrogels induce mixed dorsal/ventral spinal neuron identities during differentiation of human induced pluripotent stem cells. *Acta Biomaterialia*. 2017 March 51: 237-245.

Willerth, S.M. Biomimetic strategies for replicating the neural stem cell niche. *Current Opinion in Chemical Engineering*. 2017. Feb 15:8-14.

Willerth, S.M. Using functionalized transcription factors to engineer personalized neural tissue. *Neural Regeneration Research*. 2016 Oct 11(10):1570-1571.

Agbay, A., Edgar, J., Robinson, M., Styan, T., Wilson, K., Schroll, J., Ko, J., Mohtaram, N.K. Jun, M., and Willerth, S.M. Biomaterial strategies for delivering stem cells as a treatment for spinal cord injury. *Cells Tissues Organs*. 2015/2016 202 (1-2) 42-51. • Our work was featured on the cover of this issue.

Swayne, L-A., Sanchez-Arias, J., Agbay, A., and Willerth, S.M. What are neural stem cells and why are they important? *Frontiers for Young Minds*. September 2016. • *Frontiers for Young Minds* is an open access journal for youth aged 8-15. This article was the first one on stem cells in the Neuroscience section.

Robinson, M., Chapani, P., Styan, T., Vaidyanathan, R., Willerth, S.M. Functionalizing Ascl1 with novel intracellular protein delivery technology for promoting neuronal differentiation of human induced pluripotent stem cells. *Stem Cell Reviews and Reports*. 2016 12 (4) 476- 483.

David Wilson

Buchan LL, Zhang H, Konan S, Heaslip I, Ratzlaff CR, Wilson DR. Open-MRI measures of cam intrusion for hips in an anterior impingement position relate to acetabular contact force. *J Orthop Res*. 2016 Feb;34(2):205-16. doi: 10.1002/jor.22999.

Nazemi SM, Amini M, Kontulainen SA, Milner JS, Holdsworth DW, Masri BA, Wilson DR, Johnston JD. Optimizing finite element predictions of local subchondral bone structural stiffness using neural network-derived density-modulus relationships for proximal tibial subchondral cortical and trabecular bone. *Clin Biomech (Bristol, Avon)*. 2016 Oct 27;41:1-8. doi: 10.1016/j.clinbiomech.2016.10.012. [Epub ahead of print]

E. Paul Zehr

Zehr, E.P., Trevor S. Barss, Katie Dragert, Alain Frigon, Erin V. Vasudevan, Carlos Haridas, Sandra Hundza, Chelsea Kaupp, Taryn Klarner, Marc Klimstra, Tomoyoshi Komiyama, Pamela M. Loadman, Rinaldo Mezzarane, Tsuyoshi Nakajima, Gregory E.P. Pearcey, and Yao Sun (2017). Neuromechanical interactions between the limbs during human locomotion—an evolutionary perspective and translation to rehabilitation. *Exp Brain Res*. 234(11):3059-3081.

Zehr EP, Wright B. (2016). Can concussion constrain the Caped Crusader? *Br J Sports Med*. 2016 Oct 4. pii: bjsports-2016-096792. doi: 10.1136/bjsports-2016-096792.

Zehr, E.P. (2016). With Great Power Comes Great Responsibility—A Personal Philosophy for Communicating Science in Society. *eNeuro*. 2016 Sep 8;3(5). pii: ENEURO.0200-16.2016. doi: 10.1523/ENEURO.0200-16.2016.

Nakajima T, Suzuki S, Futatsubashi G, Ohtsuska H, Mezzarane RA, Barss TS, Klarner T, Zehr EP, Komiyama T. (2016). Regionally distinct cutaneous afferent populations contribute to reflex modulation evoked by stimulation of the tibial nerve during walking. *J Neurophysiol* 116(1):183-90. doi: 10.1152/jn.01011.2015

Klarner, T., Barss, T.S., Sun, Y. Kaupp, C., Loadman, P. and E.P. Zehr. (2016) Exploiting interlimb arm and leg connections for walking rehabilitation: a training intervention in stroke. *Neural Plasticity* 2016:1517968. doi: 10.1155/2016/1517968

Klarner, T., Barss, T.S., Sun, Y. Kaupp, C., Loadman, P. and E.P. Zehr. (2016) Long term plasticity in reflex excitability induced

by 5 weeks of arm and leg cycling training after stroke. *Brain Sciences* 2016 Nov 3;6(4). pii: E54

Shinya Suzuki, Tsuyoshi Nakajima, Genki Futatsubashi, Rinaldo A Mezzarane, Hiroyuki Ohtsuka, Yukari Ohki, E. Paul Zehr, Tomoyoshi Komiyama (2016). Soleus Hoffmann reflex amplitudes are specifically modulated by cutaneous inputs from the arms and opposite leg during walking but not standing. *Exp Brain Res* 234(8):2293-304

Syusaku Sasada, Toshiki Tazoe, Tsuyoshi Nakajima, Genki Futatsubashi, Hiroyuki Ohtsuka, Shinya Suzuki, E. Paul Zehr, and Tomoyoshi Komiyama (2016). A common neural element receiving rhythmic arm and leg activity as assessed by reflex modulation in arm muscles *J. Neurophysiol* 115(4):2065-75. doi: 10.1152/jn.00638.2015.

Barss, T.S., Pearcey, Gregory, E.P., Zehr, E.P. (2016). Cross-education of strength and skill: an old idea with applications in the aging nervous system. *Yale J Biol Med* 89:81-86.