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Presentation Title	Authors	Author affiliations
Episodic motor impairments of falls and freezing of gait differ in regional cerebral central cholinergic system changes in Parkinson's disease	Nicolaas Bohnen ¹ , Prabesh Kanel ² , Zhi Zhou ² , William Dauer ² , Roger Albin ¹ , Martijn Muller ²	¹ University of Michigan & VAMC, ² University of Michigan
Prevention of cautious strategy in obstacle-avoidance situations in older adults: The effect of spatial constraints on collision-avoidance behavior	Takahiro Higuchi ¹ , Risa Okada ¹ , Ryo Watanabe ¹ , Takuya Goto ¹ , Tomoki Hakamata ¹ , Ryota Hiyoshi ¹ , Ryuma Yonemoto ¹ , Akiko Imura ¹	¹ Tokyo Metropolitan University
The neural signature of impaired dual tasking in Idiopathic REM sleep behavior disorder patients: An fMRI study	Kaylena Ehgoetz Martens ¹ , Elie Matar ² , James Shine ¹ , Joseph Phillips ³ , Matthew Georgiades ¹ , Ronald Grunstein ⁴ , Glenda Halliday ¹ , Simon Lewis ¹	¹ University of Sydney, ² Brain and Mind Centre, ³ University of Western Sydney, ⁴ Woolcock Medical Institute
Walking adaptability for targeted fall-risk assessments	Daphne Geerse ¹ , Melvyn Roerdink ¹ , Johan Marinus ² , Jacobus van Hilten ²	¹ Vrije Universiteit Amsterdam, ² Leiden University Medical Center
Impaired sensorimotor transformations for balance in Parkinson disease are associated with future falls	J. Lucas McKay ¹ , Kimberly Lang ² , Sistania Bong ¹ , Madeleine Hackney ² , Stewart Factor ² , Lena Ting ¹	¹ Emory University and Georgia Tech, ² Emory University
The association of clinic-based mobility tasks and measures of community performance and risk	Michele Callisaya ¹ , Joe Verghese ²	¹ University of Tasmania, ² Albert Einstein College of Medicine
The effectiveness of the StandingTall home-based, unsupervised balance exercise program in preventing falls in community-dwelling older people	Kim Delbaere ¹ , Kim van Schooten ¹ , Stephen Lord ¹ , Lindy Clemson ² , GA Rixt Zijlstra ³ , Jacqueline Close ⁴	¹ University of New South Wales, ² University of Sydney, ³ University of Maastricht, ⁴ Prince of Wales Hospital
Inter-individual balance adaptations in response to perturbation treadmill training in Parkinson's disease	Sarah Klamroth ¹ , Heiko Gassner ¹ , Jürgen Winkler ¹ , Björn Eskofier ¹ , Jochen Klucken ¹ , Klaus Pfeifer ¹ , Simon Steib ¹	¹ Friedrich-Alexander-University Erlangen-Nürnberg
Postural regulation strategies in Ehlers-Danlos Syndrome Hypermobility type	Emma Dupuy ¹ , Leslie Decker ¹	¹ UMR-S 1075 COMETE UNICAEN/INSERM



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Look where you are thinking	yogev koren ¹ , Yisrael Parmet ¹ , Ilay Sofer ¹ , Simona Bar-Haim ¹	¹ Ben-Gurion University
The effects of dual tasking and aging on event related potential (ERP) components of gait cycle	Inbal Maidan ¹ , Shiran Shustak ¹ , Dmitry Patashov ² , Eran Gazit ¹ , Boris Shapiro ² , Aviran Levy ² , Nir Giladi ¹ , Jeffrey Hausdorff ¹ , Anat Mirelman ¹	¹ Tel aviv medical center, ² Holon Institute of technology
Humans use multi-objective control to regulate lateral foot placement when walking	Jonathan Dingwell ¹ , Joseph Cusumano ¹	¹ Pennsylvania State University
Noisy galvanic stimulation and vestibular perception: Otolith versus semicircular canal mediated mechanisms	Klaus Jahn ¹ , Aram Keywan ² , Max Wuehr ²	¹ Schoen Klinik Bad Aibling and University of Munich, ² University of Munich
Obstacle-induced trip perturbation training: Proactive and reactive adaptation to reduce falls in community-dwelling older adults	Yiru Wang ¹ , Shuaijie Wang ¹ , Tanjeev Kaur ¹ , Tanvi Bhatt ¹	¹ University of Illinois at Chicago
The inter-relationships between glycemic markers and gait patterns across age groups	Maayan Agmon ¹ , Ram Weiss ² , Hagit Hochner ³ , Iaroslav Youssim ⁴ , Yechiel Friedlander ⁴ , Tamar Shochat ¹ , Rachel Kizony ¹	¹ University of Haifa, ² Hebrew University, ³ the Hebrew University of Jerusalem, ⁴ Hebrew University
Immediate and long-term effects of intensive multimodal balance and gait training on gait and gait variability in Parkinson's disease	Linda Rennie ¹ , Niklas Löfgren ² , Erika Franzén ²	¹ Sunnaas Rehabilitation Hospital, ² Karolinska Institutet
Upward perturbation - novel methodology to study stumbling during walking	Desiderio Cano Porrás ¹ , Jesse Jacobs ² , Rivka Inzelberg ³ , Gabriel Zeilig ¹ , Meir Plotnik ¹	¹ Sheba Medical Center, ² University of Vermont, ³ Tel Aviv University
Balance perturbation training for rehabilitation of dynamic balance in acquired brain injury victims: an exploratory interventional prospective trial and a neuroimaging investigation	Katherin Joubran ¹ , Lior Shmuelof ¹ , Simona Bar Haim ¹	¹ Ben-Gurion University of the Negev, Israel



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The spine in gait - a differentiated analysis of spinal rotary motion	Ulrich Betz ¹ , Janine Huthwelker ¹ , Jürgen Konradi ¹ , Claudia Wolf ¹ , Ruben Westphal ¹ , Kjell Heitmann ² , Helmut Diers ¹ , Philipp Drees ¹	¹ University Medical Center of the Johannes Gutenberg University Mainz, Germany, ² DIERS International GmbH
Cortical midfrontal theta activity scales with acceleration of whole-body mechanical perturbations and reactive stepping behavior	Teodoro Solis-Escalante ¹ , Mitchel Stokkermans ² , Michael Cohen ² , Vivian Weerdesteijn ¹	¹ Radboud University Medical Center, ² Donders Institute for Brain, Cognition, and Behavior
Spatial updating of remembered goal position during barrier avoidance	Brittany Baxter ¹ , William Warren ¹	¹ Brown University
Effects of a single bout of cardiovascular exercise on balance learning: a comparison of different exercise intensities	Philipp Wanner ¹ , Theresa Müller ¹ , Klaus Pfeifer ¹ , Simon Steib ¹	¹ Friedrich-Alexander University Erlangen-Nürnberg
Type of prosthesis influences functional performance and quality of life in patients with transtibial amputations	Ophelie PUISSEGUR ¹ , Gordon Stevens ² , Elizabeth Ginzel ² , Rita Patterson ¹ , Nicoleta Bugnariu ¹	¹ University of North Texas Health Science Center, ² Baker O&P
Effect of gait imagination on lower limb muscle activity	Barbora Kolarova ¹ , Petr Kolar ¹ , Marek Tomsa ¹ , Jim Riachards ² , Hana Ondrackova ¹ , Klara Lippertova ¹ , Jiri Stacho ¹ , Petr Konecny ¹ , Alois Krobot ¹	¹ Faculty of Health Sciences Palacky University Olomouc, ² Allied Health Research Unit, University of Central Lancashire
Neuromodulation of lumbosacral spinal networks enables independent standing after complete paraplegia	Dimitry Sayenko ¹ , V. Reggie Edgerton ² , Yury Gerasimenko ²	¹ Houston Methodist Research Institute, ² University of California, Los Angeles
Postural threat effects on perceptions of lower leg somatosensory stimuli during standing	Taylor Cleworth ¹ , Ryan Peters ² , Romeo Chua ³ , J. Timothy Inglis ³ , Mark Carpenter ³	¹ University of Waterloo, ² University of Calgary, ³ University of British Columbia
Comprehensive measures of balance and gait in GBA mutation carriers and non-carriers in Parkinson's disease	Rosie Morris ¹ , Douglas Martini ¹ , Katrijn Smulders ² , Valerie Kelly ³ , Amie Hiller ¹ , Kathy Chung ¹ , Shu-Ching Hu ⁴ , Cyrus Zabetian ⁴ , Kathleen Poston ⁵ , Ignacio	¹ Oregon Health & Science University, ² Sint Maartenskliniek, ³ University of Washington School of Medicine, ⁴ University of Washington, ⁵ Stanford School of Medicine,



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	Mata ⁴ , Karen Edwards ⁶ , Thomas Montine ⁷ , Joseph Quinn ¹ , Fay Horak ¹	⁶ University of California, ⁷ Stanford University School of Medicine
Haptic touch feedback that is sway-referenced and graded can improve center of mass stability in post-concussion syndrome	Andrew Meszaros ¹ , Alyssa Carey ¹ , Tyler Cuddeford ¹	¹ George Fox University
Effects of a 6-week cognitively challenging agility exercise program in people with Parkinson's disease	Martina Mancini ¹ , Fay Horak ¹ , Naoya Hasegawa ¹ , Se Hee Jung ¹ , Vrutangkumar Shah ¹ , Anjanibhargavi Ragothaman ¹ , Daniel Peterson ² , Katrijn Smulders ³ , Patricia Carlson-Kuhta ¹ , John Nutt ¹ , Laurie King ¹ , Jodi Lapidus ¹ , Martina Mancini ¹	¹ Oregon Health & Science University, ² Arizona State University, ³ Sint Maartenskliniek
Textured insoles improve gait in people with Parkinson's disease who have impaired peripheral sensation	Graham Kerr ¹ , Feng Qiu ¹ , Keith Davids ² , Ewld Hennig ¹ , Michael Cole ³ , Sandy Brauer ⁴ , Anna Hatton ⁴	¹ Queensland University of Technology, ² Sheffield Hallam University, ³ Australian Catholic University, ⁴ University of Queensland
Deficient tibialis anterior activity following inward perturbation during walking predisposes elderly to use stepping rather than ankle strategies to control balance	Maarten Afschrift ¹ , Friedl De Groot ¹ , Ilse Jonkers ¹	¹ KU Leuven
Shift in attentional allocation during cognitive-motor dual-tasking following cognitive or physical training in healthy older adults	Karen Li ¹ , Rachel Downey ¹ , Louis Bherer ² , Thien Tuong Minh Vu ³ , Kristell Pothier ⁴ , Brittany Intzandt ¹ , Tudor Vrinceanu ² , Thomas Vincent ⁵ , Anil Nigam ⁵ , Antony Karelis ⁶ , Laurent Bosquet ⁷ , Nicolas Berryman ⁸	¹ Concordia University, ² Université de Montréal, ³ Centre hospitalier Université de Montréal, ⁴ University of Tours, ⁵ Centre de recherche de l'Institut de cardiologie de Montréal, ⁶ Université du Québec à Montréal, ⁷ Université de Poitiers, ⁸ Bishop's University



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A startle response is not evoked during falls following large postural perturbations in young adults	Andrew Sawers ¹ , Stephen Robinovitch ¹ , Vivian Weerdesteijn ²	¹ University of Illinois at Chicago, ² Radboud University Medical Center
Muscle synergy complexity in children with cerebral palsy during the development of walking	Annikke Bekius ¹ , Coen Zandvoort ² , Jennifer Kerkman ² , Andreas Daffertshofer ² , Annemieke Buizer ³ , Jaap Harlaar ⁴ , Nadia Dominici ²	¹ Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, Amsterdam Movement Sciences, Institute of Brain and Behaviour, ² Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, Amsterdam Movement Sciences, ³ Amsterdam UMC, Vrije Universiteit Amsterdam, Amsterdam Movement Sciences, ⁴ Faculty of Mechanical, Maritime and Materials Engineering, Delft University of Technology
Perception of gait movements using gait-like vibrations in individuals with and without sensorimotor deficits	Tapin Alexandre ¹	¹ Université de Montréal
Embodiment of painful situations and its postural correlates	Thierry Lelard ¹ , Olivier Godefroy ¹ , Said Ahmaidi ¹ , Pierre Krystkowiak ¹ , Harold Mouras ¹	¹ Université de Picardie
Test-retest reliability and minimal detectable change of the new freezing of gait questionnaire	Pieter Ginis ¹ , Carolien Strouwen ² , Bauke Dijkstra ¹ , Bastiaan Bloem ³ , Alice Nieuwboer ¹	¹ KU Leuven, ² Hasselt University, ³ Radboud University Medical Center
Signal from noise: Stochastic somatosensory stimulation for probing human motor control	Ryan Peters ¹	¹ University of Calgary
Influence of required coefficient of friction on rate of shoe wear	Sarah Hemler ¹ , Jessica Sider ¹ , Kurt Beschorner ¹	¹ University of Pittsburgh



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Interaction between lower limb cutaneous and muscle afferent pathways during standing	Robyn Mildren ¹ , Gregg Eschelmuller ¹ , Ryan Peters ² , Jean-Sebastien Blouin ¹ , Mark Carpenter ¹ , J. Timothy Inglis ¹	¹ University of British Columbia, ² University of Calgary
An invisible hand: Automatic preparation for arresting a fall when viewing a handrail	David Cole ¹ , Butler Blake ¹ , Mahmoud Mansour ¹ , Sarah Schwartz ¹ , David Bolton ¹	¹ Utah State University
Subthreshold electrical noise enhances mechanically-evoked cutaneous reflexes	Tushar Sharma ¹ , Ryan Peters ² , Leah Bent ¹	¹ University of Guelph, ² University of Calgary
Effect of external base-of-support perturbation parameters on measures of forward reactive stepping	Taylor Winberg ¹ , Andrew Laing ¹	¹ University of Waterloo
The plantar surface of the foot: the bigger picture	Leah Bent ¹ , Erika Howe ¹ , Simone Smith ¹ , Nicholas Strzalkowski ² , Ryan Peters ³ , Timothy Inglis ⁴	¹ University of Guelph, ² Mount Royal University, ³ University of Calgary, ⁴ University of British Columbia
Standing steadiness and variability of older adults on a step ladder	Erika Pliner ¹ , Daina Sturnieks ² , Kurt Beschorner ¹ , Mark Redfern ¹ , Stephen Lord ²	¹ University of Pittsburgh, ² Neuroscience Research Australia
Gait deficits in early stage Parkinson's disease are related to the expression of REM sleep without atonia	Sommer Amundsen Huffmaster ¹ , Matthew Petrucci ¹ , Devin O'Connell ¹ , Maria Linn-Evans ¹ , Jae Woo Chung ¹ , Paul Tuite ¹ , Colum MacKinnon ¹	¹ University of Minnesota
Walking with narrow steps: are we more stable through increased sensory contributions? A galvanic vestibular stimulation study	Sjoerd Bruijn ¹ , Jaap Van Dieën ² , Rina Magnani ³ , Patrick Forbes ⁴	¹ VU Amsterdam, ² VU University Amsterdam, ³ Goiás State University, ⁴ Erasmus MC
Can split-belt treadmill training improve dual-task turning performance in patients with Parkinson's disease with Freezing of gait	Nicholas D'Cruz ¹ , Pieter Ginis ¹ , Jana Seuthe ² , Christian Schlenstedt ² , Alice Nieuwboer ¹	¹ KU Leuven, ² Christian-Albrechts-University (CAU) of Kiel