

	Scientific Program of the 10th International Posture Symposium - Oral presentations
	Sunday - September 20, 2026
10:00 - 13:30	Refreshment point: Centre of Experimental Medicine, Institute of Normal and Pathological Physiology, Sienkiewiczova street 1, Bratislava
14:30	Shuttle bus to Smolenice - Meeting point: Fajnorovo nábrežie
15:30 - 16:30	Registration and accommodation in Smolenice Castle
17:00 - 17:15	Opening address: Director of the Centre of Experimental Medicine, Slovak Academy of Sciences
17:15 - 18:15	Keynote lecture: Prof. Mark G. Carpenter (Canada) - Balancing 'on edge': the effects of fear and anxiety on sensori-motor control of balance
19:00	Welcome reception
	Monday - September 21, 2026
7:30 - 8:30	Breakfast
	Session 1: Balance and Gait Control in Neurological Diseases - Stroke
	<i>Chairs: Menant, Weerdesteyn</i>
8:30 - 9:10	Menant J. (Australia): Interactive cognitive-motor step training to improve balance and mobility in clinical groups at risk of falls
9:10 - 9:25	Weerdesteyn V. (The Netherlands): Single-session perturbation-based training followed by home-based exergaming to enhance resistance to falls after stroke
9:25 - 9:40	Kolářová B. (Czech Republic): Gait recovery after first-ever ischemic stroke: a pilot observational study
9:40 - 9:55	Bzdúšková D. (Slovakia): Effects of visual biofeedback-based training on limits of stability and functional outcomes in subacute stroke patients
9:55 - 10:30	Coffee break
	Session 2: Balance and Gait Control in Neurological Diseases - Parkinson's disease
	<i>Chairs: Horak, Ehgoetz Martens</i>
10:30 - 11:10	Ehgoetz Martens K. (Canada): Combining digital outcomes of mobility with mobile brain imaging to predict future Parkinson's disease
11:10 - 11:25	Jeka J. (USA): Transcranial photobiomodulation for the treatment of Parkinson's disease
11:25 - 11:40	Papacek O. (Czech Republic): Preoperative freezing of gait predicts long-term gait outcomes after deep brain stimulation in Parkinson's disease
11:40 - 11:55	Touzé V. (France): How many steps to reach steady state of postural stability, progression velocity, and step length during gait initiation? Effects of ageing and PD
11:55 - 12:10	Santos P.C.R. (Brazil): Motor severity does not affect habituation to unpredictable postural perturbations in Parkinson's disease
12:10 - 12:30	Introduction of the Communication in Kinesiology (CiK) - S. Bruijn
12:30 - 13:30	Lunch
	Session 3: Sensory Integration
	<i>Chairs: Wright, Oates</i>
13:30 - 14:10	Wright W. G. (USA): Beyond the sensory organization test: A portable scalable virtual reality platform for precision assessment of postural control
14:10 - 14:25	Assländer L. (Germany): Validity of the rod and frame test and the Romberg ratio as methods to assess visual dependence in human standing balance
14:25 - 15:05	Oates A. (Canada): Sensorimotor integration for backward walking balance control
15:05 - 15:20	Fujii M. (USA): Postural control in response to simultaneous six-dimensional pseudorandom platform perturbations
15:20 - 16:20	Coffee break + POSTERS 1
	Session 4: Vestibular System
	<i>Chairs: Reynolds, Jeka</i>
16:20 - 16:35	Reynolds R. (UK): Ocular torsion responses to electrical vestibular stimulation in Ménière's disease and vestibular schwannoma
16:35 - 16:50	Gaskell P. (UK): Ocular torsional responses to electrical vestibular stimulation in children: a tolerability and feasibility study
16:50 - 17:05	Slováková M. (Czech Republic): Unrecognized benign paroxysmal positional vertigo in older adults
17:05 - 17:20	Zur O. (Israel): Beyond vestibular recovery: functional gait improvement through sensorimotor adaptation after COVID-19
19:00	Barbecue dinner + Folk music
	Tuesday - September 22, 2026
7:30 - 8:30	Breakfast
	Session 5: Ageing
	<i>Chairs: Baudry, Svoboda</i>
8:30 - 9:10	Baudry S. (Belgium): Ageing shifts postural control toward greater visual reliance

9:10 - 9:25	Menant J. (Australia): Cortical activity during a gait adaptability task in older adults
9:25 - 9:40	Giesbers I. (The Netherlands): Ageing affects the neural mechanisms of reflexive step initiation
9:40 - 9:55	Svoboda Z. (Czech Republic): Functional differences between lower limbs during gait in relation to fall risk
9:55 - 10:10	Slobodová L. (Slovakia): Physical fitness, body composition, and cognitive profiles in older adults: A sex-specific perspective
10:10 - 11:00	Coffee break + POSTERS 2
	Session 6: Muscles & EMG & Sport
	<i>Chairs: Ebenbichler, Di Giulio</i>
11:00 - 11:15	Ebenbichler G. (Austria): Impact of machine-based core muscle strengthening on back muscle function in chronic low back pain across age groups and sexes
11:15 - 11:30	Di Giulio I. (UK): Asymmetries in individuals with lower limb amputation are not explained by muscle co-contraction. A pilot study
11:30 - 11:45	Klein T. (Czech Republic): Motor-unit behavior of abductor hallucis and medial gastrocnemius during concentric, eccentric and isometric heel-rise conditions
11:45 - 12:00	Gonosová Z. (Czech Republic): Eccentric strength and postural perturbations following gymnastic landings
12:00 - 12:15	Křížanová J. (Czech Republic): Postural stability during skating-specific postural tasks in female figure skaters of different age
12:15 - 13:15	Lunch
from 13:30	Social activities - the exact time varies on the selected activity and will be confirmed at a later date
19:00	Farewell dinner
Wednesday - September 23, 2026	
7:30 - 8:30	Breakfast
8:30 - 9:00	Check-out and luggage collection at the reception desk
	Session 7: Models in Postural Control
	<i>Chairs: Bruijn, Hatzitaki</i>
9:00 - 9:15	Bruijn S. (The Netherlands): The limits of using angular momentum to control center of mass position
9:15 - 9:30	Geng Y. (The Netherlands): Position gains during standing remain slightly above critical values under different loading conditions
9:30 - 9:45	Hatzitaki V. (Greece): Effect of body lean on stopping a voluntary forward sway
9:45 - 10:00	Nigrelli E. (USA): Design recommendations for automated balance training systems
10:00 - 10:15	Closing of the symposium
10:15 - 10:45	Coffee break
10:45 - 11:30	<i>Guided tour of Smolenice Castle</i>
11:30 - 12:30	Lunch
12:30	Shuttle bus to Bratislava
14:00 - 14:30	Arrival in Bratislava