

	Scientific Program of the 9th International Posture Symposium - Oral presentations
	Sunday - September 10, 2023
10:00 - 13:30	Refreshment point: Centre of Experimental Medicine, Institute of Normal and Pathological Physiology, Sienkiewiczova street no. 1, Bratislava
14:30	Shuttle bus to Smolenice (Parking lot Osobný prístav, Fajnorovo nábrežie 2, 811 02 Bratislava)
15:30 - 16:30	Registration and accommodation in Smolenice Castle
17:00 - 17:30	Opening address: Soňa Čáčányiová, Director of the Institute of Normal and Pathological Physiology, Centre of Experimental Medicine, Slovak Academy of Sciences
17:30 - 18:30	Keynote lecture: Lena H. Ting (USA) - Cortical activity during reactive balance reflects perceptual-motor and cognitive-motor interactions in health, aging, and disease
19:00	Welcome reception
	Monday - September 11, 2023
7:30- 8:30	Breakfast
	Session 1 Sensory Feedback, Anxiety and Virtual reality
	<i>Chairmen: Hatzitaki, Jeka</i>
8:30 - 9:10	Jeka J. (USA) : Reinforcement and error feedback differentially impact motor exploration during gait
9:10 - 9:50	Hatzitaki V. (Greece) : Age-dependent modulation of multisensory reweighting for controlling balance in a dynamic virtual environment
9:50 - 10:05	Raffegaue T. (USA): The effects of cognitive demand on distributions of mediolateral plantar pressures while walking in anxiety-inducing virtual settings
10:05 - 10:20	Assländer L. (Germany): Sensory reweighting on foam and tilting surfaces
10:20 - 10:35	Bzdúšková D. (Slovakia): Individual height intolerance affects postural control during the virtual height exposure
10:35 - 11:00	Coffee break
	Session 2 Sensory Integration, Gait and Parkinson's Disease
	<i>Chairmen: Košutzká, Růžička</i>
11:00 - 11:15	Růžička E. (Czech Republic): Gait and speech rhythm abnormalities in early Parkinson's disease
11:15 - 11:30	Walz I. (Germany): "PNP slows down" – polyneuropathy as a model for gait disturbances leading to reduced gait speed
11:30 - 11:45	Seuthe J. (Germany): How relevant are anticipatory postural adjustments for gait initiation, gait and freezing of gait in Parkinson's disease?
11:45 - 12:00	Simonet A. (France): Vertical center-of-mass braking and motor performance during gait initiation in young healthy adults, elderly and patients with Parkinson's disease
12:00 - 12:45	Guided walking tour of Smolenice Castle
12:45 - 13:40	Lunch
	Session 3 Balance and Gait Control in Neurological Diseases
	<i>Chairmen: Maurer, Peterka</i>
13:40 - 14:20	Peterka R. (USA) : Human balance control – beyond sensory integration
14:20 - 15:00	Maurer C. (Germany) : Parameter identification of stance control in multiple neurological diseases
15:00 - 15:15	Kolářová B. (Czech Republic): Gait and motor recovery in acute ischemic stroke patients after early intensive rehabilitation
15:15 - 15:30	Nardone A. (Italy): Gait and balance abnormalities of patients with heart failure are not only related to heart function
15:30 - 16:30	Coffee break + POSTERS 1
	Session 4 Vestibular and Balance
	<i>Chairmen: Čákrť, Allum</i>
16:30 - 17:10	Allum J. (Switzerland) : Pitch, yaw and roll plane instability during balance tests: Axis differences following acute unilateral vestibular loss
17:10 - 17:25	Čákrť O. (Czech Republic): Subjective visual vertical and postural control in patients following cochlear implantation
17:25 - 17:40	Wühr M. (Germany): Mechanisms underlying treatment effects of vestibular noise stimulation on postural instability in patients with bilateral vestibulopathy
19:00	Barbecue dinner + Folk music

	Tuesday - September 12, 2023
7:30 - 8:30	Breakfast
	Session 5 Balance Assessment Tools & Methods I.
	<i>Chairmen: Chiari, Horak</i>
8:30 - 9:10	Horak F. (USA): How to decide the best balance and gait outcome measure for clinical trials
9:10 - 9:50	Chiari L. (Italy): Long-term posturography by wearable accelerometers: 15 years later
9:50 - 10:05	Palmerini L. (Italy): Real world balance assessment: Insights into association with clinical outcomes
10:05 - 10:20	Jabri S. (USA): Development of an automatic balance intensity evaluation system using wearable IMUs
10:20- 11:15	Coffee break + POSTERS 2
	Session 6 Balance Assessment Tools & Methods II.
	<i>Chairmen: Di Giulio, Ebenbichler</i>
11:15 - 11:30	Ebenbichler G. (Austria): A back muscle surface electromyography-based fatigue index as a biomarker of human neuromuscular aging
11:30 - 11:45	Di Giulio I. (UK): Human muscle and spinal activation in response to loading
11:45 - 12:00	Lippi V. (Germany): Random field theory for testing differences between frequency response functions in posturography
12:00 - 12:15	Ivanenko Y. (Italy): Body size and the control of posture and movement
12:15- 12:30	Oates A. (Canada): The current state of sex- and gender-based analyses in standing balance research: A scoping review
12:30 - 13:30	Lunch
14:00	Social activities
19:00	Farewell dinner
	Wednesday - September 13, 2023
7:30 - 8:30	Breakfast
	Session 7 Exercise, Falls & Fall prevention
	<i>Chairmen: Kolářová, Ukropcová</i>
8:30 - 9:10	Ukropcová B. (Slovakia): Can we maintain functional capacity and reduce the risk of chronic diseases in the elderly by regular exercise?
9:10 - 9:25	Zur O. (Israel): Evaluation of a new app-based, android mobile intervention for improving balance disorders among elderly in residential home care
9:25 - 9:40	Košutzká Z. (Slovakia): Fall prevention in Slovakia: What can be done?
9:40 - 9:55	Allum J. (Switzerland): The effects of vibro-tactile biofeedback balance training on balance control and dizziness in patients with PPPD
9:55 - 10:10	Borrelli J. (USA): Towards clinical assessment of fall-injury risk: push-off and handgrip strength are associated with the energy absorption capacity of the arms in elders
10:10 - 10:45	Coffee break
	Session 8 Postural Control in Children
	<i>Chairmen: Oates, Svoboda</i>
10:45 - 11:00	Svoboda Z. (Czech Republic): Postural control after obstacle crossing during dual task conditions in children with developmental coordination disorder
11:00 - 11:15	Kučerová K. (Czech Republic): Subjective visual vertical and head position in patients with idiopathic scoliosis
11:15 - 11:30	Kirilova K. (Bulgaria): Influence of backpack loading on the static postural equilibrium of primary school children of different ages
	End of symposium
12:00 - 13:00	Lunch
13:30	Shuttle bus to Bratislava