

## Sessions-At-A-Glance: XXII Bárány Society Meeting

- B1.1** Impulse testing and irregular afferents. J.M.Goldberg
- B1.2** Impulsive testing of semicircular function: from bench to bedside, from bedside to bench. G M Halmagyi
- B1.3** Complementary Interactions Between Basic and Clinical Research in the Vestibular System. L.B.Minor
- B2.1** Audio-Vestibular Findings in Patients with Superior Canal Dehiscence Syndrome. K. Brantberg
- B2.2** Superior Canal Dehiscence: Etiology, Imaging, and Mechanisms of Pressure- and Sound-Induced Vertigo. J. P. Carey, T. P. Hirvonen, L. B. Minor
- B2.3** Superior Canal Dehiscence Syndrome: Clinical Manifestations, Pathophysiology, and Treatment. L. B. Minor, J. P. Carey, P. D. Cremer, S. Streubel
- B3.1** Do the same rules govern arm trajectory formation and the steering of locomotion? H. Hicheur, S. Y. Vieilledent, M. E. Richardson, A. Berthoz
- B3.2** The Broken Escalator Phenomenon: After Effect of a Gait Adaptation. A. M. Bronstein, R. F. Reynolds
- B3.3** Posture and gaze during circular locomotion. T. Imai, S. Moore, T. Raphan, T. Kubo, B. Cohen
- B3.4** Evaluation of Human Locomotion by Trajectories of the Center of Force in Patients with Vertigo. K. Ishikawa, Y. Wang, W. Wong
- B3.5** Both actual and imagined locomotion suppress spontaneous vestibular nystagmus. K. Jahn, M. Strupp, T. Brandt
- B3.6** Multimodal signal integration in the primate fastigial nucleus. J. F. Kleine, M. Hoshi, Y. F. Guan, U. Büttner
- B3.7** Does Vestibular Stimulation Contribute to the Lack of Perception of Podokinetic After-Rotation? G. Melvill Jones, W. A. Fletcher, K. D. Weber, E. W. Block
- B3.8** Orienting Linear Vestibulo-Ocular And Vestibulo-Collic Reflexes During Turning And Centrifugation. S. T. Moore, T. Imai, J. Schneiderman, T. Raphan, B. Cohen
- B3.9** Anticipatory and reactive control of bipedal walking in the Japanese monkey, *M. fuscata*. F. Mori, K. Nakajima, A. Tachibana, C. Takasu, S. Mori
- B3.10** Pivot turns as whole-body gaze shifts. D. Solomon, A. Jenkins, J. Jewell, V. Kumar
- B3.11** Normal and Vestibulopathic Recovery from Perturbations during Locomotion. C. Wall, L. Oddsson
- B3.12** Kinematics Of Quadrupedal Locomotion After Semicircular Canal Plugging. P. John, S. Yakushin, B. Cohen, T. Raphan
- B4.1** The Effect of Acute Vertigo on Objective and Subjective Autonomic Measures in Dizzy Patients. B. M. Seemungal, P. Rudge, M. A. Gresty, A. M. Bronstein
- B4.2** Vestibular influence on the respiratory rhythm during active change of posture in human beings. K. Jauregui-Renaud, L. A. Villanueva, S. del Castillo
- B4.3** Cerebrovascular Response to Tilts in the Pitch and Roll Planes. J. M. Serrador, S. J. Wood, F. Owen. Black, T. T. Schlegel
- B4.4** Vestibular Influences on Cardiovascular Regulation: An Overview. B. J. Yates
- B5.1** Results of vestibular rehabilitation after four weeks of a home program. H. S. Cohen, K. T. Kimball
- B5.2** Posturographic Effects of Nicotine-Ethanol Interaction: Amplitude and Frequency Measurements. J. A. Goebel, J. W. Rohrbaugh, E. J. Sirevaag, A. B. Vedeniapin

- B5.3 Protection of inner ear against acute environmental noise with antioxidants.** E. Toppila, I. Pyykkö, J. Starck, T. Tossavainen, P. Nyman, M. Juhola, P. Oksa
- B5.4 Contribution of vestibular apparatus to postural control during chair rise.** T. Tsutsumi, A. Ishida, Y. Fukuoka, S. Inaoka, K. Kitamura
- B5.5 Three Dimensional Analysis of Dysequilibrium in Cases with Unilateral Vestibular Disorders.** Y. Watanabe, M. Asai, H. Shojaku
- B5.6 Dimensional analysis of the vestibular labyrinth of the *Brachiosaurus brancai*.** A. H. Clarke
- B6.1 Changes In Angular VOR After A Single Dose Of Intratympanic Gentamicin For Ménière's Disease.** J. P. Carey, T. P. Hirvonen, G. C. Y. Peng, C. C. Della Santina, T. Haslwanter, L. B. Minor
- B6.2 Mechanisms of low pressure pulse technology in Meniere's disease - How does it work?** B. Densert, O. Densert
- B6.3 Vertigo Response Patterns to the Meniett™ Device.** G. A. Gates
- B6.4 The Preliminary Results of Endoscopic Removal of the Endolymphatic Sac in Ears Affected by Meniere's Disease.** W. P. R. Gibson
- B6.5 Vestibular Rehabilitation After Transtympanic Gentamicin Administration.** K. R. Gottshall, M. E. Hoffer, R. J. Moore, R. D. Kopke, D. Wester
- B6.6 Intratympanic Gentamicin in Ménière's disease.** N. Perez, E. Martin
- B7.1 Hair Cell Regeneration: A 21st Century Approach.** E. W. Rubel
- B7.2 Engineering and Biomedical Aspects of Vestibular Prostheses.** C. Wall
- B8.1 Vestibular System as a Vertical Orientation Reference for Trunk Stability in Postural Control.** F. Horak
- B8.2 Homeostatic plasticity of central vestibular neurons after unilateral labyrinthectomy.** P. Vidal, N. Vibert, L. Moore
- B9.1 Signal transmission between first and second order vestibular neurons.** N. Dieringer, H. Straka
- B9.2 Regulation of firing in vestibular nucleus neurons.** S. du Lac, A. Nelson, M. Smith
- B9.3 Integration and non linear properties of the vestibular and prepositus hypoglossi neurons.** P. Vidal, L. Moore, N. Vibert, M. Serafin, M. Muhlethaler
- B9.4 Cerebellar Control of the Vestibular System : A Pharmacological Study.** T. Kitahara, A. Horii, N. Takeda, T. Kubo
- B9.5 Improvement of downbeat nystagmus and postural imbalance by 3,4-diaminopyridine, a prospective, placebo-controlled study.** M. Strupp, O. Schüller, S. Krafczyk, K. Jahn, U. Boettner, T. Brandt
- B9.6 Acetazolamide and the Familial Vertigo and Ataxia Syndromes: Clinical Response and Mechanism of Action.** J. C. Jen, J. Wan, R. W. Baloh
- B9.7 Symptomatic drug treatment of vertigo.** G. M. Halmagyi
- B10.1 The Coordination and Planning of Eye, Head, and Hand Movements in Natural Tasks.** M. M. Hayhoe
- B10.2 Planning and Control of Eye-head Movements: The Way to Move.** J. Van der Steen
- B10.3 Mutual Interactions Between Eye and Hand Movements.** P. van Donkelaar
- B10.4 Role of Sensory Information in Updating Internal Models of the Effector During Eye-Hand Co-ordination.** J. Vercher
- B10.5 Predictive control of head, hand and eye movements: similarities and dissimilarities.** G. R. Barnes
- B10.6 Evidence of predictive activity for smooth gaze control in the caudal frontal eye fields of trained monkeys.** K. Fukushima
- B11.1 Steroid-responsive bilateral vestibulo-cochlear syndrome: Is there evidence for autoimmune disease?** R. M. Schmid, D. Straumann, K. Landau, A. Schmid-Priscoveanu, T. Spillmann, K. Hess

- B11.2** **New Strategies in the Diagnosis and Treatment of Motion Sickness.** M. E. Hoffer, K. R. Gottshall, R. J. Moore, R. D. Kopke, P. Weisskopf, D. Wester, C. Balaban
- B11.3** **Threshold of semicircular canal and otolith in galvanic stimulation.** T. Komiya, T. Tsuzuku
- B11.4** **An Experimental Study of Vestibular Decruitment.** A. Kumar, P. Valli, J. Bouzoukis, A. Patni
- B11.5** **The Video-impulse test enhances the possibility of detecting vestibular lesions.** M. Magnusson, M. Karlberg, M. Halmagyi, A. Hafström
- B11.6** **A new system for legitimizing balance complaints.** A. Mallinson, N. Longridge
- B11.7** **On the site of the lesion in acute unilateral peripheral vestibular dysfunction.** T. Murofushi, H. Ozeki, A. Ochiai, H. Monobe, S. Iwasaki
- B11.8** **Study of VEMP in young adult dizzy patients of unknown origin.** T. Seo, M. Node, A. Yukimasa, A. Miyamoto, M. Sakagami
- B11.9** **Dynamic Changes and Analysis of Electronystagmography for Unilateral Vestibular Peripheral Lesion.** C. Sheng, C. Junping
- B11.10** **Development of a new generation force platform for the measurements of postural stability.** J. Starck, E. Toppila, I. Pyykkö, T. Tossavainen, M. Juhola
- B12.1** **Decision Making In Visual Vestibular Conflict During Navigation: Role of the Hippocampus in High Level Integration of Spatial and Action Cues.** S. Lambrey, A. Berthoz
- B12.2** **Visual reference frame in postural control after unilateral vestibular loss.** L. Borel, J. Magmam, M. Lacour
- B12.3** **The use of optic flow for the rehabilitation of visuo-vestibular symptoms.** M. Pavlou, A. M. Bronstein
- B12.4** **Why Do Extraocular Muscles Have A Dual Innervation?** J. Büttner-Ennever, A. K. E. Horn, W. Graf, G. Ugolini
- B12.5** **Ocular torsional position and the use of a moving visual line to show vestibular perception.** I. S. Curthoys, G. M. Halmagyi
- B12.6** **Non-visual ocular motor modulation of postural sway.** S. Glasauer, K. Jahn, M. Strupp, E. Schneider, O. Schüller, S. Krafczyk, T. Brandt
- B12.7** **Visual vestibular mismatch in work related vestibular injury.** N. S. Longridge, A. Mallinson
- B12.8** **Spatial Orientation of OKN on Earth and in Microgravity.** S. T. Moore, G. Clement, T. Raphan, A. Berthoz, B. Cohen
- B12.9** **Encoding of Space, Calibrated and Uncalibrated, and Kinetic Parameters During Vestibular Navigation.** B. M. Seemungal, M. A. Gresty, A. M. Bronstein
- B12.10** **The study of visually-induced postural responses using virtual environments.** P. J. Sparto, J. M. Furman, J. L. Jacobson, S. L. Whitney, L. F. Hodges, M. S. Redfern
- B13.1** **Visual-Vestibular and Visuo-visual Interaction: From Brainstem to Cortex.** T. Brandt, S. Glasauer, T. Stephan, S. Bense, T. Yousry, A. Deutschländer, M. Dieterich
- B13.2** **High Order Vestibular Processing: Vestibulo-Spinal and Perceptual Mechanisms.** B. M. Seemungal, A. Munchau, M. A. Gresty, A. M. Bronstein
- B13.3** **Vestibular signals in the caudal frontal eye fields (FEF) and their role in smooth gaze movements in 3-dimensional (3-D) space.** K. Fukushima
- B14.1** **Deficits and adaptation of the translational VOR after peripheral vestibular lesions.** D. E. Angelaki, J. D. Dickman, S. D. Newlands
- B14.2** **Injury-related vestibular reorganization - playground for rehabilitation.** N. Dieringer
- B14.3** **Neuronal and synaptic adaptations in vestibular nucleus neurons after labyrinthectomy - the foundation for compensation?** M. B. Dutia
- B14.4** **Trophic Factor-Induced Recovery of Mammalian VOR.** R. D. Kopke, G. E. Jones, J. Liu, R. L. Jackson, X. Ge, C. Balaban

- B14.5** **Changes in Angular Vestibuloocular Reflexes Following Unilateral Lesions of the Labyrinth.** L. B. Minor, D. M. Lasker, J. P. Carey, T. Hirvonen
- B14.6** **The vestibular system is necessary for hippocampal function.** P. F. Smith A. Horii,, P. Liu, Y. Zheng, S. Kerr, J. King, D. K. Bilkey, C. L. Darlington.
- B15.1** **High Concentration Intratympanic Gentamicin Injection Technique in Intractable Meniere's Disease.** G. C. Han, H. G. Jeon, K. S. Kim, H. Lee
- B15.2** **Daily Brandt-Daroff Exercises Reduce Recurrence of Benign Paroxysmal Positional Vertigo.** J. O. Helminski, I. Janssen, T. C. Hain
- B15.3** **Proteomic Analysis of the Inner Ear : Identification of the Cochlin Isoforms and Their Importance in the Pathophysiology DFNA9-Induced Meniere's Disease.** T. Ikezono, S. Shindo, L. Lishu, A. Omori, S. Ichinose, A. Watanabe, T. Kobayashi, H. Rask-Andersen, M. Takumida, T. Yagi
- B15.4** **A model experiment of BPPV mechanism using the whole membranous labyrinth.** K. Otsuka, M. Suzuki, M. Furuya, A. Hagiwara, Y. Ogawa, T. Takenouchi
- B15.5** **Possible role of TNF- $\alpha$  and p55 and p75 receptors in inner ear diseases, especially in Meniere's disease.** I. Pyykkö, H. Levo, J. Zou, H. Ishizaki
- B15.6** **Static direction-changing horizontal positional nystagmus of the peripheral origin.** K. Shigeno, R. Oku, H. Takahashi, H. Kumagami, S. Nakashima
- B15.7** **Glycerol VEMP.** H. Shojaku, M. Tsubota, H. Abe, M. Fujisaka, Y. Watanabe
- B15.8** **3D Vector Analysis Of Benign Paroxysmal Positional Vertigo And Variants.** M. J. Todd, S. T. Aw, L. A. McGarvie, G. M. Halmagyi
- B16.1** **Two New Tools and Tests to Measure Ocular and Vestibular Anomalies of Craniofacial Asymmetries.** D. Rousie, J. Deroubaix, A. Berthoz
- B16.2** **Experimental study on hydrodynamics of caloric response.** T. Takenouchi, Y. Ogawa, M. Furuya, K. Otsuka, M. Suzuki
- B16.3** **Contribution of torsional eye movement measurement in daily practice.** E. Ulmer, E. Vitte, A. Rech Rigon, A. Semont, F. Tankere, J. Soudant
- B16.4** **Ocularcounterrolling in a population of patients suffering from acoustic neuromas.** E. Vitte, E. Ulmer, A. Semont, F. Tankere, G. Lamas, J. Soudant.
- B16.5** **Delayed vestibular evoked myogenic potentials in radiation-induced otitis media.** T. Yang, Y. Young
- B16.6** **Neurotoxic effects of hair curling solution on vestibulo-ocular reflex system of guinea pigs.** Y. Young, J. Chuu, S. Lin-Shiau
- B17.1** **Ototoxicity and the horizontal VOR.** R. W. Baloh, MD, J. L. Denver
- B17.2** **Vestibular Evoked Potentials to Acceleration Impulses.** J. Elidan, V. Rodionov
- B17.3** **The Horizontal VOR With Active and Passive Head Impulses After Unilateral Vestibular Deafferentation.** R. A. Black, M. J. Thurtell, G. M. Halmagyi, M. J. Todd, I. S. Curthoys
- B17.4** **Parametric analysis of high frequency active head rotation testing of the vestibulo-ocular reflex.** D. P. O'Leary, L. L. Davis-O'Leary
- B17.5** **High Frequency VOR in Healthy and Labyrinth Defective Subjects.** J. Van der Steen, L. Bouman, H. Collewijn, S. Tabak
- B17.6** **High acceleration testing of human semicircular canal function.** G M Halmagyi
- B18.1** **Long-term plasticity in hippocampal NMDA receptor subunits following unilateral vestibular damage in the rat.** C. L. Darlington P. Liu, Y. Zheng, J. King, P. F. Smith
- B18.2** **Galvanic vestibular stimulation: fMRI and eye movement analyses.** M. Dieterich, E. Schneider, T. Stephan, S. Bense, S. Glasauer, T. Yousry, T. Brandt
- B18.3** **Idiosyncrasy of the subjective visual horizontal after unilateral vestibular deafferentation.** A. Hafström, P.

- Fransson, M. Karlberg, M. Magnusson
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- B18.8 Anxiety and vertigo : A Pharmacological approach.** T. Tsuzuku, T. Komiya
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- B19.1 Effects Of Unilateral Vestibular Deafferentation On The Linear VOR Evoked By Eccentric Roll Rotation.** S. T. Aw, M. J. Todd, L. A. McGarvie, A. A. Migliaccio, G. M. Halmagyi
- B19.2 Human Surge Linear Vestibulo-Ocular Reflex (LVOR) with Vertically Eccentric Targets.** J. L. Demer, J. Tian
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- B19.4 Vestibular Evoked Myogenic Potentials in the neck extensor muscles of Rat.** N. Furuya, M. Miyasita, K. Sakakura
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- B19.7 Do Ribbon Synapse Size Differences in Macular Hair Cells Indicate Synaptic Efficacy?** M. D. Ross
- B19.8 Modulation of vestibular head-shaking nystagmus by gravity.** A. Palla, S. Marti, D. Straumann
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- P1.1 The Intertricular Distance Measured on MRI in 50 subjects.** V. Nowe, P. Parizel, M. Hoppenbrouwers, G. Pauwels, A. De Schepper, F. L. Wuyts
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- P1.3 The effect of age on type I and type II vestibular hair cell counts in the human crista ampullaris.** I. A. Lopez, A. Ishiyama, G. Ishiyama, Q. Gopen, R. W. Baloh
- P1.4 Vestibular Morphology in the mutant Mix-mice.** H. Sato, D. Bagger-Sjöbäck, M. Hulterantz
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- P1.9 Afferent responses to mechanical stimulation and drug application in mouse in vitro labyrinth.** A. J. Camp, H. Lee, R. J. Callister, A. M. Brichta
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- P1.11 Galvanic vestibular stimulation in the alert guinea pig: oculomotor, postural, and neural responses.** J. Kim, D. P. D. Gilchrist, H. G. MacDougall, A. M. Burgess, K. Narushima, S. L. Hicks, I. S. Curthoys
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- P1.14 Anterior canal failure causes ocular torsion without perceptual tilt due to intact otolith function.** M. Strupp, S. Glasauer, T. Eggert, A. Straube, M. Glaser, T. Brandt
- P1.15 Potassium channel blocker 3,4-diaminopyridine improves severe head-shaking nystagmus.** M. Strupp, V. Querner, T. Eggert, A. Straube, T. Brandt
- P1.16 Effective immunosuppressive therapy in a patient with bilateral vestibulopathy and antibodies against inner ear structures.** M. Strupp, O. Schüler, V. Arbusow, T. Brandt
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- P1.18 Acute Otolithic and Semi-circular Canals Deficits After Whiplash Injuries.** D. Vibert, R. Hausler
- P1.19 Vestibular evoked myogenic potentials in neurofibromatosis type 2.** C. Wang, Y. Young
- P1.20 Aural pressure treatment for Menière's disease.** L. Ödkvist
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- P2.3 The Use of Transtympanic Electrocochleography in the Diagnosis of Meniere's Disease.** W. P. R. Gibson
- P2.4 Saliva melatonin in patients with Meniere's disease.** M. Aoki, Y. Yokota, K. Mizuta, Y. Ito
- P2.5 The Semicircular Canal Implants.** A. G. Shaikh, G. W. Auner
- P2.6 Oculomotor Findings Mimicking Central Disorders in Severe Meniere's Disease.** E. Isotalo, I. Pyykkö
- P2.7 A Novel Treatment Modality with Reference to Eustachian Tube Function in Meniere's Disease Patients.** M. Morita, T. Imai, T. Kitahara, S. Nishiike, A. Horii, A. Uno, K. Sekine, K. Doi, N. Takeda, T. Kubo
- P2.8 Otolith Dysfunction During Vertiginous Attacks of Meniere's Disease.** R. Oku, K. Shigeno, H. Takahashi, H. Kumagami, S. Nakashima
- P2.9 Prism Spectacles as a Brace for Vestibular Asymmetry. (Study of the effect of weak prismatic spectacles on unilateral Ménière's disease patients).** P. Eric Vente, J. E. Bos, A. H. Wertheim, G. de Wit
- P3.1 Vertical canal function in normal subjects and patients with benign paroxysmal positional vertigo.** K. Sekine, T. Imai, M. Morita, I. Koizuka, K. Naoe, K. Nakamae, K. Miura, H. Fujioka, T. Kubo, N. Takeda
- P3.2 Utricular dysfunction in patients with benign paroxysmal positional vertigo.** M. von Brevern, T. Schmidt, U. Schoenfeld, T. Lempert, A. Clarke
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- P3.6 Analysis of factors that affect the result of vestibular rehabilitation in the treatment of BPPV.** G. C. Han, H. G. Jeon, J. M. Huh
- P3.7 Electronystagmographic analysis of horizontal canal type benign paroxysmal positional vertigo.** G. C. Han, H. G. Jeon, J. M. Huh
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- H. G. Jeon, J. M. Huh
- P3.9 Four cases of pseudo Benign Paroxysmal Positional Nystagmus.** G. C. Han, H. G. Jeon, J. M. Huh
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- P5.2 Evaluation of outliers in a vertigo data set.** J. Laurikkala, M. Juhola, I. Pyykkö
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- P5.5 Video-oculography (VOG) in normal subjects.** H. Levo, H. Aalto, T. Hirvonen
- P5.6 Vestibular evoked potentials during active horizontal head rotations in patients with vertigo.** W. H. Zangemeister, B. G. H. Schoser
- P5.7 Clinical balance assessment in 151 healthy subjects: age and gender effects.** L. Vereeck, G. Pauwels, P. Van de Heyning, F. L. Wuyts
- P5.8 Vestibular neuritis visualized by 3.0 Tesla MRI with triple-dose gadolinium - consecutive cases.** M. Karlberg, M. Annertz, M. Magnusson
- P5.9 Galvanic stimulation in patients with unilateral vestibular deafferentation: comparison of test results.** H. Monobe, A. Ochiai, H. Ozeki, T. Murofushi
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