

Publications

D. Straumann, M.D.

update: 2008-04-18

A. Peer reviewed papers

1. Haslwanter T, Straumann D, Hepp K, Hess BJM, Henn V (1991) Smooth pursuit eye movements obey Listing's law in the monkey. *Exp Brain Res* 87: 470-472
2. Straumann D (1991) Off-line computing of slow-phase velocity profiles evoked by velocity steps or caloric stimulation. *Int J Biomed Comput* 29: 61-65
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5. Böhmer A, Straumann D, Kawachi N, Arai Y, Henn V (1992) Three-dimensional analysis of caloric nystagmus in the rhesus monkey. *Acta Otolaryng (Stockh)* 112:916-926
6. Haslwanter T, Straumann D, Hess BJM, Henn V (1992) Static roll and pitch positions shift and rotate Listing's plane in the monkey. *Vision Res* 32: 1341-1348
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10. Hepp K, Van Opstal AJ, Straumann D, Hess BJM, Henn V (1993) Monkey superior colliculus represents rapid eye movements in a two-dimensional motor map. *J Neurophysiol* 69: 965-979

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14. Straumann D, Zee DS, Solomon D, Lasker AG, and Roberts D (1995) Transient torsion during and after saccades. Vision Res 35: 3321-3334
15. Suzuki Y, Büttner-Ennever JA, Straumann D, Hepp K, Hess BJM, Henn V (1995) Deficits in torsional and vertical rapid eye movements and shift of Listing's plane after uni- and bilateral lesions of the rostral interstitial nucleus of the medial longitudinal fasciculus. Exp Brain Res 106: 215-232
16. Böhmer A, Straumann D, Suzuki JI, Hess BJM, Henn V (1996) Contributions of single semicircular canals to caloric nystagmus as revealed by canal plugging in Rhesus monkeys. Acta Otolaryng (Stockh) 116: 513-520
17. Straumann D, Zee DS, Solomon D, Kramer PD (1996) Validity of Listing's law during fixations, saccades, smooth pursuit eye movements, and blinks. Exp Brain Res 112: 135-146
18. An DS, Straumann D, Wieser HG (1996) 'One-way asynchrony' of burst-suppression activity. Neurophysiol Clin 26: 329-334
19. Böhmer A, Straumann D, Fetter M (1997) Three-dimensional analysis of spontaneous nystagmus in peripheral vestibular lesions. Ann Oto Rhinol Laryn 106: 61-68
20. Böhmer A, Straumann D (1998) Pathomechanism of mammalian downbeat nystagmus due to cerebellar lesion - a simple hypothesis. Neurosci Lett 250: 127-130
21. Guyton DL, Cheeseman EW, Ellis FJ, Straumann D, Zee DS (1998) Dissociated vertical deviation: an exaggerated normal eye movement used to damp cyclovertical latent nystagmus. Tr Am Ophth Soc 96: 389-429
22. Suzuki Y, Straumann D, Simpson JI, Hepp K, Hess BJM, Henn V (1999) Three-dimensional extraocular motoneuron innervation in the Rhesus monkey - I. Muscle rotation axes and on-directions during fixation. Exp Brain Res 126: 187-199
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39. Bockisch CJ, Straumann D, Haslwanter T (2003) Eye movements during multi-axis whole-body rotations. *J Neurophysiol* 89: 355-366
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41. Solomon D, Zee DS, Straumann D (2003) Torsional and horizontal vestibular ocular reflex adaptation: three-dimensional eye movement analysis. *Exp Brain Res*, 152:150-155
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43. Frohman TC, Frohman EM, O'Suilleabhain P, Salter A, Dewey RB Jr, Hogan N, Galetta S, Lee AG, Straumann D, Noseworthy J, Zee DS, Corbett J, Corboy J, Rivera VM, Kramer PD (2003) Accuracy of clinical detection of INO in MS: Corroboration with quantitative infrared oculography. *Neurology* 61: 848-850
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48. Schmid-Priscoveanu A, Kori AA, Straumann D (2004) Torsional vestibulo-ocular reflex during whole-body oscillation in the upright and the supine position: II. Responses in patients after vestibular neuritis. *J Vest Res*, 14: 353-359
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58. Ishihara H, Bjeljac M, Straumann D, Kaku Y, Roth P, Yonekawa Y (2006) The role of intraoperative monitoring of oculomotor and trochlear nuclei -safe entry zone to tegmental lesions. *Minim Invasive Neurosurg* 49: 168-172
59. Sprenger A, Rambold H, Sander T, Marti S, Weber K, Straumann D, Helmchen C (2006) Treatment of the gravity-dependence of downbeat nystagmus with 3,4-diaminopyridine. *Neurology* 67: 905-907
60. Tarnutzer AA, Ramat S, Straumann D, Zee DS (2007) Pursuit responses to target steps during ongoing tracking. *J Neurophysiol* 97: 1266-79
61. Jorns-Häderli M, Straumann D, Palla A (2007) Accuracy of the bedside head-impulse test in detecting vestibular hypofunction. *J Neurol Neurosurg Psychiatry* 78: 1113-1118
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66. Marti S, Baloh RW, Jen JC, Straumann D, Jung HH (2008) Progressive cerebellar ataxia with variable episodic symptoms - phenotypic diversity of R1668W CACNA1A mutation. *Eur J Neurol*, accepted
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B. Reviews

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82. Frohman TC, Galetta SL, Fox R, Solomon D, Straumann D, Filippi M, Zee DS, Frohman EM (2007) The medial longitudinal fasciculus (MLF) in ocular motor physiology. *Neurology*, in press

C. Contributions to Books and Conference Proceedings

83. Arai Y, Straumann D, Hess BJM, Suzuki JI (1991) The influence of head position on the second phase of caloric nystagmus in rhesus monkeys. *Acta Otolaryngol Suppl (Stockh)* 481: 269-271
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102. Straumann D, Zee DS, Solomon D (1997) Three-dimensional analysis of upward drift in cerebellar downbeat nystagmus. In: Fetter M, Haslwanter T, Misslisch H, Tweed D (eds) *Three-Dimensional Kinematics of Eye, Head and Limb Movements*. Amsterdam: Harwood Academic Publishers, pp 243-250
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113. Straumann D, Schmid-Priscoveanu A, Palla A (2005) Klinische Relevanz des apparativen Kopfpulstests. In: Westhofen M (ed) *Vestibularisfunktion*. Thieme: Wien, pp 169-173

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120. Palla A, Tatalias M, Straumann D (2008) Hysteresis effects of the subjective visual vertical. *Prog Brain Res*, in press
121. Laurens J, Hess BJM, Straumann D (2008) Geometrical considerations on canal-otolith interactions during OVAR and Bayesian modelling. *Prog Brain Res* 2008, in press

D. Other publications

122. Straumann D (1989) Sogenannte Minussymptome bei chronischer Schizophrenie. Inauguraldissertation zur Erlangung der Doktorwürde der Medizinischen Fakultät der Universität Zürich (Dissertation)
123. Straumann D (1997) Physiological and pathophysiological properties of three-dimensional ocular kinematics. Habilitationsschrift zur Erlangung der Venia legendi an der Medizinischen Fakultät der Universität Zürich (Habilitation)
124. Straumann D (1999) In memoriam Volker Henn 1943-1997. *J Vest Res* 9: 155
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Selected reprints

<http://www.vertigocenter.ch/straumann/reprints.htm>