

## **7    Schrifttum**

Ahrens W (1950) **Über die Brauchbarkeit der Aufhellungsmethoden bei morphologischen und physiologischen Methoden über das Felsenbeinlabyrinth** Zeitschrift f. vergl. Physiologie 32, 49–59

Anken RH, Ibisch M, Bremen D, Hilbig R, Rahmann H (1995) **Mass analytical and morphological investigations on teleost otoliths and their relevance for the internalisation of graviception.** In: Bräucker R, ed Proceedings of the C.E.B.A.S. Workshops, Annual Issue 1995. Ruhr University Bochum: 73–82

Anken RH, Kappel T, Rahmann H (1998) **Morphometry of Fish Inner Ear Otoliths after Development at 3g Hypergravity** Acta Otolaryngol (Stockh) 118: 534-539

Balsamo G, Avallano B, Del Genio F, Trapani S, Marmo F (2000) **Calcification processes in the chick otokonia and calcium binding proteins: Patterns of tetracycline incorporation and calbindin D28K distribution** Hearing Research 148: 1-8

Baumgarten R v, Baldrigi G, Schillinger GL (1972) **Vestibular behavior of fish during diminished G-force and weightlessness.** Aerospace Med. 43: 626

Baumgarten R v, Simmonds RL, Boyd JF, Garriot OK (1975) **Effect of prolonged weightlessness on the swimming pattern of fish aboard Skylab3.** Aviat Space Environ Med 46: 902-906

Baumgarten R v, Thumler R (1979) **A model for vestibular function in altered gravitational states** Life Science and Space Research 7: 161–170

Baumgarten R v (1985) **Possible Physiological Mechanisms of Space Motion Sickness** Sensory-motor Functions Under Weightlessness And Space Motion Sickness, University of Nagoya Press 65-72

Bennet JH (1874) **On the cause and prevention of seasickness in short passages** Lancet II, 51

Blacker RW (1975) **Steroscan observation of a plaice otolith** J. Cons. perm. int. Explor. Mer 36: 184-187

Breuer J (1874) **Ueber die Funktion der Bogengänge des Ohrlabyrinthes** Med Jahrbuch (Wien), 4: 72

Brooks M (1939) **The etology of seasickness** Med Rec. (N. Y.) 150: 23

Campana SE, Jones CM (1992) **Analysis of otolith microstructure data** In: Stevenson DK and Campana SE (ed) Otolith examination and analysis Can. spec. Publ. Fish Aquat. Sci. 117: 73-100

Carlström D, Engström H (1955) **The ultrastructure of statoconia.** Acta Otolaryngol 45: 14-18

Claremont CA (1931) **The psychology of seasickness.** Psyche 11: 86

Clarke AH, Engelhorn A (1998) **Unilateral testing of utricular function** Exp. Brain Res 121: 457-464

Clarke AH (1995) **Neuere Aspekte des vestibulookulären Reflexes.** Europ. Arch Oto-Rhino-Laryng. Supp 118–153

Colehour JK (1965) **Stress measurements in normal and labyrinthine defective subjects in unusual force environments.** In role of the vestibular organ in the exploration of space Washington, NASA SP-77, 347–355

Cum-Brown A (1874) **On the sense of rotation and the anatomy and physiology of the semicircular canal of the internal ear.** The journal of anatomy and physiology 8: 327-331

Curthoys IS, Halmagyi GM (1995) **Vestibular compensation: A review of the oculomotor, neural and clinical consequences of unilateral vestibular loss** J Vestib. Res. 5: 67-107

De Vries HL (1950) **The mechanics of the labyrinth otoliths** Acta Otolaryngol. 38: 262-273

Diamond SG, Markham CH (1991) **Prediction of space motion sickness susceptibility by disconjugate eye torsion in parabolic flight.** Aviat. Space Environ. Med. 62: 201–205

Diamond SG, Markham CH (1992) **Validating the hypothesis of otolith asymmetry as a cause of space motion sickness.** Ann N Y Acad Sci 656: 725-731

Engstrom H (1974) **Vestibular sensory epithelia** Arch. Otolaryngol. 100(6), 411

Fernandez C, Goldberg JM (1976) **Physiology of peripheral neurons innervating otolith organs of the squirrel monkey** Response dynamics. J. Neurophysiol. 39: 996

Fischer AJEM, Oosterwald WJ (1979) **Bewegungskrankheiten,** HNO 27: 285-291

Gary O (1955) **A brief Survey of the phylogenesis of the labyrinth.** Laryngol Otol 69: 151–179

Goltz F (1870) **Ueber die physiologische Bedeutung der Bogengänge des Ohrlabyrinths.** Arch. Phys. 3: 172-192

Graf W, Baker R (1985) **The Vestibuloocular Reflex of the Adult Flatfish I. Oculomotor Organisation** J. Neurophysiol 54: 887–899

Graybiel S, Miller EF, Homick JL (1974) **Experiment M131. Human vestibular function.** The proceedings of the Skylab Life Science Symposium, NASA Technical Memorandum NASA TM X – 58154

Groen JJ (1957) **Adaptation** Pract. Oto-Rhino-Laryng. 19, 524

Groot SJ (1967) **A review paper on the behaviour of flatfishes** FAO Fisheries Report 2: 139-166

Gudrey FE (1965) **Orientation of the rotation axis relative to gravity: Its influence on nystagmus and the sensation of rotation** Acta Otolaryngol. (Stockh.) 60, 30

Hardy M (1934) **Observation of the Innervation of the macula sacculi in man.** Anat Rec 59: 403–478

Helling K, Westhofen M (1994) **Experimentaluntersuchungen zur Kinetose an Bord eines Forschungsschiffes** HNO 42: 214–219

Helling K, Hausmann S, Flöttmann T, Scherer H (1997) **Untersuchungen zur interindividuell unterschiedlichen Kinetoseempfindlichkeit** HNO 45: 210–215

Holst E v (1935) **Über den Lichtrückenreflex bei Fischen** Publ. Zool. Stat. Napoli, 15: 143–158

Holst E v (1950) **Die Arbeitsweise des Statolithenapparates bei Fischen** Zeitschrift f. vergl. Physiologie 32, 60–120

Holtmann S, Seifert J, Scherer H (1987) **Ursachen und Behandlung der Seekrankheit.** Laryngol Rhinol Otol 66: 99-103

Horii A, Takeda N, Morita M, Kubo T, Matsunaga T (1993) **Motion sickness induced by sinusoidal linear acceleration in rats** Acta Otolaryngol. 501: 31-33

Howard IP (1982) **Human visual orientation.** J. Wiley & Sohns, Chichester

Igarashi M, Saito R, Mizukoshi K, Alford BR (1993) **Otokonia in Young and Elderly Persons: A Temporal Bone Study** Acta Otolaryngol 504: 26-29

Ijiri K (1995) **How the four fish astronauts were selected.** In Ijiri K The first vertebrate mating in space - A fish story. Ricut, Tokio 39-50

Irwin JA (1881) **The pathology of sea-sickness.** Lancet II 907

Kennedy RS, Graybiel A, McDonough RC (1968) **Symptomatology under storm conditions in the North Atlantic in control subjects and persons with bilateral labyrinth defects** Acta Oto-Laryng. (Stockh.) 66, 533–540

Kingsmill S (1993) **Ear stones speak volumes to fish researchers.** Science 260: 1233–1234

Kubo T, Matsunaga T, Matano S (1974) **Correlation between vestibular nuclei and the hypothalamus in the rat** Equilibrium Res. 4, 28

Lindemann HH (1969) **Studies on the morphology of the sensory regions of the vestibular apparatus** *Ergebn. Anat. Entwicklungsgesch.* 42: 1–113

Löwenstein D (1971) **The Labyrinth**: In *Fish Physiology* by W.S. Hoar, D.J. Randall Vol. V. Academic Press New York – London

Löwenstein O (1932) **Experimentelle Untersuchungen über den Gleichgewichtssinn der Elritze** (*Phoxinus laevis* L.) *Z. vergl. Physiol.* 17: 806–854

Lychakov DV, Lavrova EA (1985) **Structure of the vestibular apparatus and ionic composition of the body of *Xenopus laevis* larvae as effected by weightlessness.** *Kosm Biol Aviakosm* 19: 48-52

Mach E (1873) **Physikalische Versuche über den Gleichgewichtssinn des Menschen** *Sb. Abt. 3* 68: 124-140

Mach E (1874) **Versuche über den Gleichgewichtssinn (Zweite Mitteilung)** *Sb. Abt. 2* 69: 121-135

Mach E (1874) **Über den Gleichgewichtssinn (Dritte Mitteilung)** *Sb. Abt. 3*: 44-51

Mach E (1875) **Grundlinie von der Lehre von den Bewegungsempfindungen** Wilhelm Engelmann Leipzig

Makoto I, Saito R, Mizokoshi K, Alford BR (1993) **Otokonia in young and elderly persons: A temporal bone study.** *Acta Otolaryngol (Stockh) Suppl* 504: 26–29

Mann S, Parker SB, Ross MD, Skarnulis AJ, Williams RJP (1983) **The ultrastructure of the calcium carbonate balance organs of the inner ear: An ultra-high resolution electron microscopy study.** *Proc R Soc Lond* 218: 415–424

Markus JT, Kuipers A, Smoorenburg GF (1993) **Otolith response in man during parabolic flight** Exp Brain Res 96: 328–334

Mevill Jones G (1974) **The functional significance of semicircular canal size** In: Kornhuber HH (ed) Hdbk of Sensory Physiology, Vol VI/1 Springer, Berlin Heidelberg New York

Meyer D, Von Sedlitz-Kurzbach S, Fiebig E (1991) **Bilateral asymmetrical uptake of (14C)2-Desoxyglucose by the octavo-lateralis complexes in flatfish** Cell Tissue Res. 214: 659-662

Mittelstaedt H, Fricke E (1988) **The relative effect of saccular and somatosensory information on spatial perception and control** Adv. ORL 42: 24-30

Money KE (1970) **Motion sickness** Physiol.Rev. 50, 1

Moormann SJ, Burrell C, Cordova R, Slater J (1999) **Stimulus Dependence of the Development of the Zebrafish (Danio rerio) Vestibular System** J Neurobiol 38(2): 247-258

Nunn, PWG (1881) **Seasickness, its causes and treatment** Lancet II, 1037

Parker DE, Gullledge WL, Tubbs RL, Littelfield VM (1978) **A temporary threshold shift for self motion detecting following sustained oscillating acceleration.** Percept. Psychophys.23: 461

Popper AN, Fay RR (1993) **Sound detection and processing by fish: A critical review and mayor research questions** Brain Behav Evol 41: 14-38

Quix FH (1922) **Le mal de mer, le mal de aviateur** Monogr. Oto-Rhino-Laryngol. Internat. 8, 828

Rahmann H, Hilbig R, Flemming J, Slenzka K (1995) **Influence of long term altered gravity on the swimming performance of developing cichlid fish: Including results from the 2<sup>nd</sup> German Spacelab Mission D2** Adv. Space Res. 112: 63-72

Reason JT (1978) **Motion sickness adaptation: A neural mismatch model** J R Soc Med 71: 819-829

Riley BB, Moormann SJ (2000) **Development of the Utricular Otoliths, but not Saccular Otoliths, is necessary for vestibular function and survival in Zebrafish** J Neurobiol 43(4): 329-337

Rosenhall U (1972) **Vestibular macula mapping in man** Ann. Otol 81: 339–351

Schadewald H (1967) **Zur Geschichte der Seekrankheit** Med. Welt 38 2258

Scherer H (1975) **Reisekrankheit**. Dtsch Ärztebl 29: 2111-2114

Scherer H (1996) **Das Gleichgewicht** Springer Verlag Berlin

Scherer H, Helling K, Hausmann S, Clarke AH (1997) **On the origin of interindividual susceptibility to motion sickness** Acta Otolaryngol (Stockh.) 117: 149–153

Schön L (1950) **Quantitative Untersuchungen über die zentrale Kompensation nach einseitiger Utriculusausschaltung bei Fischen** Zeitsch. f. vergl. Physiologie 32, 121–150

Schöne H, Udo de Haes H (1968) **Perseption of gravity vertical as a function of head and trunk position** Zeitsch. f. vergl. Physiologie 60: 440-444

Shillinger GL, v Baumgarten RJ, Baldrighi G (1973) **The gravity reference response, the rotation sensation and other illusory sensations experienced in**



**aircraft and space flight** Space Life Sciences Vol 4, D Reidel Publ. Co., Dordrecht/Holland 368-390

Shupak A, Kerem D, Gordon C, Spitzer O, Mendelowitz N, Melamed Y (1990) **Vestibuloocular reflex as a parameter of seasickness susceptibility.** Ann Otol Rhinol Laryngol 99: 131-136

Sjöberg A (1968) **Experimental studies of the eliciting mechanism of motion sickness** In: 4<sup>th</sup> Symposium on the role of the vestibular organs in space exploration NASA SP-187, Washington DC: National Aeronautics and Space Administration 7-27

Sjöberg AA (1929) **Experimental studies of the eliciting mechanism of seasickness.** Acta Otolaryngol 13: 343-347

Sjöberg AA (1931) **Experimentelle Studien über den Auslösemechanismus der Seekrankheit.** Acta Otolaryngol [Supp] 14: 1-136

Taylor DB, Brad P (1949) **Motion sickness** Physiol. Rev. 29, 311

Vinnikov YA, Gazenko OG, Titova LK, Bronstein AA et al. (1976) **Formation of the vestibular apparatus in the weightless condition** Minerva Otorhinolaryngol 26 (2): 69–75

Vinnikov YA, Gazenko OG, Titova LK, Bronstein AA et al. (1979) **The structural and functional organisation of the vestibular apparatus of rats exposed to weightlessness for 20 days on board the sputnik „Kosmos-782“** Acta Otorhinolaryngol 87: 90–97

Watanabe S, Takabayashi A, Tanaka M, Yanagihara D (1991) **Neurovestibular physiology in fish** In: Bonting S (ed) Adv. Space Biol. Med., vol 1. Jai Press, Greenwich, Connecticut, pp 99-128

Wetzig J (1983) **Untersuchungen über das Schwimmverhalten einseitig entstateter Fische unter kurzzeitiger Einwirkung von Schwerelosigkeit**. Ph.D. Dissertation, University of Mainz, Germany

Whitfield TT, Granato M, van Eeden FJ, Schach U, Brand M, Nusslein-Volhard C et al (1996) **Mutations affecting development of the zebrafish inner ear and lateral line** Development 123: 241–54

Whitham RM (1887) **Seasickness. Letter to the editor** Lancet II, 997

Whiting D (1838) **Proceedings of London Medical Society**. Lancet I: 64

Wit G de (1953) **Seasickness**. Acta Otolaryngol Supp 108: 1-56