

## 7 Literaturverzeichnis

- Abercrombie E.D., Keefe K.A., DiFrischia D.S., Zigmond M.J.** (1989) Differential Effect of stress on in vivo dopamine release in striatum, nucleus accumbens, and medial frontal cortex. *Journal of Neurochemistry* 52: 1655-1658
- Adey W.R.** (1990) Joint actions of environmental nonionizing electromagnetic fields and chemical pollution in cancer promotion. *Environmental Health Perspectives* 86: 297-305
- Adey W.R., Bawin S.M., Lawrence A.F.** (1982) Effects of weak amplitude-modulated microwave fields on calcium efflux from awake cat cerebral cortex. *Bioelectromagnetics* 3: 295-307
- Adey W.R., Byus C.V., Cain C.D., Higgins R.J., Jones R.A., Kean C.J., Kuster N., Mac Murray A., Stagg R.B., Zimmerman G.** (2000) Spontaneous and nitrosourea-induced primary tumors of the central nervous system in fischer 344 rats exposed to frequency-modulated microwave fields. *Cancer Research* 60/7: 1857-63
- Andersen P., Bliss T.V.; SkredeK.K.** (1971) Unit analysis of hippocampal population spikes. *Experimental Brain Research* 13: 208-221
- Agren G., Zhou Q., Zhong W.** (1989) Ecology and social behaviour of Mongolian gerbils *Meriones unguiculatus*, at Xilinhhot, Inner Mongolia, China. *Animal Behaviour* 37: 11-27
- Akert K.** (1999) Limbisches System In: Drenckhahn D., Zenker W., Anatomie, 15. Auflage, Urban und Schwarzenberg, München, Wien, Baltimore, 603-627
- Alfredsson L., Hammar N., Karlehagen S.** (1996) Cancer incidence among male railway engine-drivers and conductors in Sweden, 1976-90. *Cancer Causes Control* 7/3: 377-381
- Alonso A., Garcia-Austt E.** (1987) Neuronal sources of theta rhythm in the entorhinal cortex of the rat. II. Phase relations between unit discharges and theta field potentials. *Experim. Brain Research* 67/3: 502-509
- Altman J., Bayer S.A.** (1990) Migration and distribution of two populations of hippocampal granule cell precursors during the perinatal and postnatal periods. *Journal of Comparative Neurology* 301: 365-381
- Altman J., Das G.D.** (1965) Autoradiographic and histological evidence of postnatal hippocampal neurogenesis in rats. *Journal of Comparative Neurology* 124: 319-335

- Altman J., Das G.D.** (1967) Postnatal neurogenesis in the guinea pig. *Nature* 214: 1098-1102
- Amaral D.G., Witter M.P.** (1995) Hippocampal formation. In: *The rat nervous system*. Academic Press: 443-493
- Bärlocher F.** (1999) Wahrscheinlichkeitsverteilung. In: *Biostatistik*, Thieme Verlag, Stuttgart, New York, 30-47
- Bawin S.M., Satmary W.M., Jones R.A., Adey W.R., Zimmerman G.** (1996) Extremly-low-frequency magnetic fields disrupt rhythmic slow activity in rat hippocampal slices. *Bioelectromagnetics* 17: 388-395
- Bayer S.A.** (1982) Changes in total number of dentate granule cells in juvenil and adult rats: A corralated volumetric and [<sup>3</sup>H]-thymidine autoradiography study. *Experimental Brain Research* 46: 315-323
- Bell G.B., Marino A.A., Chesson A.L.** (1992) Alterations in brain electrical activity caused by magnetic fields: detecting the detection process. *Electroencephalography and Clinical Neurophysiology* 83: 389-397
- Bernier P.J., Parent, A** (1998) The anti-apoptosis bcl-2 protooncogene is preferentially expressed in limbic structures of the primate brain. *Neuroscience* 82/3: 635-640
- Blackman C.F., Benane S.G., House D.E., Joines W.T.** (1985) Effects of ELF (1-120 Hz) and modulated (50 Hz) RF fields on the efflux of calcium ions from brain tissue. *Bioelectromagnetics* 6: 1-11
- Blumenthal N.C., Ricci J., Breger L., Zychlinsky A., Saloman H., Chen G.G., Kuznetsov D., Dorfman R.** (1997) Effects of low-intensity AC and/or DC electromagnetic fields on cell attachment and induction of apoptosis. *Bioelectromagnetics* 18/3: 264-272
- Brezun J.M., Daszuta A.** (1999) Depletion in serotonin decreasesneurogenesisin the dentate gyrus and the subventricular zone of adult rats. *Neuroscience* 89/4: 999-1002
- Busche A., Neddens J., Dinter C., Teuchert-Noodt G.** (in prep.): Differential influence of rearing conditions and methamphetamine on serotonin fibre maturation in the dentate gyrus of gerbils (*Meriones unguiculatus*).
- Cabib S., Puglisi-Allegra S., D'Amato F.R.** (1993) Effects of postnatal stress on dopamine mesolimbic system responses to aversive experiences in adult life. *Brain Research* 604/1-2: 232-239
- Cabib S., Puglisi-Allegra S.** (1996) Stress, depression and the mesolimbic dopamine system. *Psychopharmacology* 128/4: 331-342

- Cain C.D., Adey W.R., Luben R.A.** (1987) Evidence that pulsed electromagnetic fields inhibit coupling of adenylyl cyclase by parathyreoid hormone in bone cells. *Journal of Bone and Mineral Research* 2/5: 437-441
- Cameron H.A., Wolly C.S., McEwen B.S., Gould E.** (1993) Differentiation of newly born neurons and glia in the dentate gyrus of the adult rat. *Neuroscience* 56: 337-344
- Cameron H.A., Gould E.** (1994) Adult neurogenesis is regulated by adrenal steroids in the dentate gyrus. *Neuroscience* 61/2: 203-209
- Cameron H.A., Mc Ewen B.S., Gould E.** (1995) Regulation of adult neurogenesis by excitatory input and NMDA receptor activation in the dentate gyrus. *Journal of Neuroscience* 15/6: 4687-4692
- Cameron H.A., Gould E.** (1996) Distinct populations of cells in the adult dentate gyrus undergo mitosis or apoptosis in response to adrenalectomy. *Journal of Comparative Neurology* 369: 56-63
- Cameron HA, Hazel T.G., McKay R.D.G.** (1998) Regulation of neurogenesis by growth factors and neurotransmitters. *Journal of Neurobiology* 36: 287-306
- Carson J.J.L., Prato F.S., Drost D.J., Diesbourg L.D., Dixon S.J.** (1990) Time-varying magnetic fields increase cytosolic free  $\text{Ca}^{2+}$  in HL-60 cells. *American Journal of Physiology* 259 (Cell Physiol. 28): 687-692
- Castro N.G., de Mello M.C., de Mello F.G., Aracava Y.** (1999) Direct inhibition of the N-methyl-D-aspartate receptor channel by dopamine and (+)-SKF38393. *British Journal of Pharmacology* 126/8: 1847-1855
- Chronister R.B., White L.E.** (1975) Fiberarchitecture of the hippocampal formation: anatomy projection and structural significance. In: Isaacson, R.L., Pribam K.H. (Hrsg.) *The Hippocampus*. Vol.I. Plenum Press, New York-London: 9-39
- Coogan P.F., Clapp R.W., Newcomb P.A., Wenzel T.B., Bogdan G., Mittendorf R., Baron J.A., Longnecker M.P.** (1996) Occupational exposure to 60-hertz magnetic fields and risk of breast cancer in woman. *Epidemiology* 7/5: 459-464
- Dawirs R.R., Teuchert-Noodt G., Kacza J.** (1992) Naturally occurring degrading events in axon terminals of the dentate gyrus and stratum lucidum in spiny mouse (*Acomys cahirinus*) during maturation, adulthood and aging. *Developmental Neuroscience* 14: 210-220
- Dawirs R.R., Hildebrandt K., Teuchert-Noodt G.** (1998) Adult treatment with haloperidol increases dentate granule cell proliferation in the gerbil hippocampus. *Journal of Neural Transmission* 105: 317-327

- Dawirs R.R., Teuchert-Noodt G., Hildebrandt K., Fei F.** (2000) Granule cell proliferation and axon terminal degradation in the dentate gyrus of gerbils (*Meriones unguiculatus*) during maturation, adulthood and aging. Journal of Neural Transmission 107: 639-647
- Deryugina O.N., Pisachenko T.M., Zhadin M.N.** (1996) Combined action of alternating and constant magnetic fields on the behavior in rats in „open field“. Biophysics 41/3: 769-771
- Descarries L., Lemay B., Doucet G., Berger B.** (1987) Regional and laminar density of the dopamine innervation in adult rat cerebral cortex. Neuroscience. 21/3: 807-824
- Deutch A.Y., Clark W.A., Roth R.H.** (1990) Prefrontal cortical dopamine depletion enhances the responsiveness of mesolimbic dopamine neurons to stress. Brain Research 521/1-2: 311-315
- Dickson C.T. Magistretti J., Shalinsky M., Haman B., Alonso A.** (2000) Oscillatory activity in entorhinal neurons and circuits. Mechanisms and function. Annals of the New York Academy of Sciences 911: 127-150
- Dixey R., Rein G.** (1982) H-noradrenaline release potentiated in a clonal nerve cell line by low-intensity pulsed magnetic fields. Nature 296: 253-256
- Dunn J.R., Fuller M., Zoeger J., Dobson J., Heller F., Hammann J., Caine E., Moskowitz B.M.** (1995) Magnetic Material in the human hippocampus. Brain Research Bulletin 36/2:149-153
- Dutar P., Bassant M.-H., Senut M-C., Lamour Y.** (1995) The septohippocampal pathway: Structure and function of a central cholinergic system. Physiological Reviews 75/2: 393-426
- Dutta S.K., Ghosh B., Blackman C.F.** (1989) Radiofrequency radiation-induced calcium ion efflux enhancement from human and other neuroblastoma cells in culture. Bioelectromagnetics 10: 197-202
- Eriksson Ps, Perfilieva E., Björk- Eriksson T., Alborn A.-M., Nordborg C., Peterson D.A., Gage F.H.** (1998) Neurogenesis in the adult human brain. Nature Medicine 4/11: 1313-1317
- Exposito I., Mora F., Oaknin S.** (1995) Dopamine-glutamic acid interaction in the anterior hypothalamus: modulatory effect of melatonin. Neuroreport 6/4: 661-665
- Fei F.** (1995) Qualitative und quantitative Untersuchung zur postnatalen Proliferation von Körnerzellen im hippocampalen Gyrus dentatus der Wüstenrennmaus (*Meriones*

- unguiculatus*) und der Stachelmaus (*Acomys cahirinus*). Universität Bielefeld, Biologie, Dissertation.
- Forsling M.L.** (1993) Neurohypophysial hormones and circadian rhythm. Annals of the New York Academy of Sciences 689: 382-395
- Frotscher M, Deller T, Heimrich B, Foerster E, Haas C, Naumann T** (1996) Survival, regeneration and sprouting of neurons: The rat septohippocampal projection as a model. Anatomischer Anzeiger 178: 311-315
- Gasbarri A., Verney C., Innocento R., Campana E., Pacitti C.** (1994) Mesolimbic dopaminergic neurons innervating the hippocampal formation in the rat; a combined retrograde tracing and immunohistochemical study. Brain Res. 668: 71-79
- Gasbarri A., Sulli A., Packard M.G.** (1997) The dopaminergic mesencephalic projections to the hippocampal formation in the rat. Progress in Neuropsychopharmacology and Biological Psychiatry 21: 1-22
- Goldman-Rakic P.S., Selemon L.D., Schwartz M.L.** (1984) Dual pathways connecting the prefrontal cortex with the hippocampal formation and parahippocampal cortex in the rhesus monkey. Neuroscience 12: 719-743
- Gonchoroff N.J., Katzmann J.A., Currie R.M., Eavens E.L., Houk D.W., Kline B.C., Greipp P.R., Loken M. R** (1986) S-Phase detection with an antibody to bromodeoxyuridine. Journal of immunological methods. 27: 97-101
- Goodman EM, Greenebaum B & Marron MT** (1995) Effects of electromagnetic fields on molecules and cells. Intern. Review of Cytology 158: 279-338
- Gorzalka B.B., Brotto L.A., Hong J.J.** (1999) Corticosterone regulation of 5-HT<sub>2A</sub> Receptor-mediated behaviors: attenuation by melatonin. Physiology and Behavior 67/3: 439-442
- Gould E., Wooley C.S., Mc Ewan B.S.** (1991) Naturally occurring cell death in the developing dentate gyrus of the rat. Journal of Comparative Neurology 304: 408-418
- Gould E., Cameron H.A., Daniels D. C., Wooley C.S., Mc Ewan B.S.** (1992a) Adrenal hormones suppress cell division in the adult rat dentate gyrus. Neuroscience. 12/9: 3624-3650
- Gould E., Daniels D.C., Cameron H-A., McEwan B.S.** (1992b) Expression of adrenal steroid receptors by newly born cells and pyknotic cells in the dentate gyrus of the postnatal rat. Molecular and Cellular Neurosciences 3/1: 44-48

- Gould E., Cameron H.A., Mc Ewan B.S.** (1994) Blockade of NMDA receptors increase cell death and birth in the developing rat dentate gyrus. *Journal of Comparative Neurology* 340: 551-556
- Gould E., Mc Ewen B.S., Tanapat P., Galea L.A.M., Fuchs E.** (1997) Neurogenesis in the dentate gyrus of the adult tree shrew is regulated by psychological stress and NMDA receptor activation. *Neuroscience* 17/7: 2493-2498
- Gould E., Tanapat P., Reeves A., Shores T.J.** (1999) Learning enhances adult neurogenesis in the hippocampal formation. *Neuroscience* 2/3: 260-265
- Gould E.** (1999) Serotonin and hippocampal neurogenesis. *Neuropharmacology* 21: 46-51
- Gratzner H.G.** (1982) Monoclonal antibody to 5-bromo- and 5-iododeoxyuridine: a new reagent for detection of DNA replication. *Science* 218: 474-475
- Gurden H., Tassin J.-P., JayT.M.** (1999) Integrity of the mesocortical dopaminergic system is necessary for complete expression of in vivo hippocampal-prefrontal cortex long-term potentiation. *Neuroscience* 94/4: 1019-1027
- Haber S.N., Kowall N.W., Vonsattel J.P., Bied E.D., Richardson E.P.** (1986) Gilles de la Tourette's syndrome: A postmortem neuropathological and immunohistochemical study. *Journal of Neurological Sciences* 75: 225-241
- Hildebrandt K., Teuchert-Noodt G., Dawirs R.R.** (1999) A single neonatal dose of metamphetamine suppress the dentate granule cell proliferation in adult gerbils which is restored to control values by acute dose of haloperidol. *Journal of Neural Transmission* 106: 549-558
- Hildebrandt, K.** (1999) Zur Modulation neuroplastischer Prozesse im Hippocampus durch Umweltparameter und neuroaktive Substanzen: Quantitative Analyse zur Körnerzellproliferation im Gehirn der adulten Maus. Universität Bielefeld, Biologie, Dissertation.
- Hirsch E.C.** (1994) Biochemistry of Parkinson's disease with special reference to the dopaminergic systems. *Molecular Neurobiology* 9/(1-3): 135-142
- Hoffmann K., Bagorda F., Stevenson A.F.G., Teuchert-Noodt G.** (2001) Electromagnetic exposure effects the hippocampal dentate cell proliferation in gerbils (*Meriones unguiculatus*). *Indian Journal of Experimental Biology* 39: 1220-1226
- Huang L., DeVries G.J., Bittman E.L.** (1998) Photoperiod regulates neuronal Bromodeoxyuridine labeling in the brain of seasonally breeding mammal. *Journal of Neurobiology* 36: 410-420

- Jay T.M., Glowinski J., Thierry A.M.** (1995) Inhibition of hippocampo-prefrontal cortex excitatory responses by the mesocortical DA system. *Neuroreport* 6: 1845-1848
- Jenrow K.A., Zhang X., Renehan W.E., Liboff A.R.** (1998) Weak ELF magnetic field effects on hippocampal rhythmic slow activity. *Experimental Neurobiology* 153: 328-334
- Juutilainen J., Laara E., Pukkala E.** (1990) Incidence of leukaemia and brain tumors in finnish workers exposed to ELF magnetic fields. *Intern. Archives of Occupational and Environmental Health* 64/4: 289-293
- Kacza J.** (1992) Natürliche Synapsenplastizität im Hippocampus der Stachelmaus (*Acomys cahirinus*). Universität Bielefeld, Biologie, Dissertation.
- Kaczmarek L., Kaminska B.** (1989) Molecular biology of cell activation. *Experimental Cell Research* 183:24-35
- Kandel E.R., Kupfermann I.** (1996) Lernen und Gedächtnis. In: Kandel E., Schwartz J.H., Jessel T.M., *Neurowissenschaften: Eine Einführung*, Spektrum Akademischer Verlag, Heidelberg, Berlin, Oxford, 668-684
- Kaplan M.S., Bell D.H.** (1983) Neuronal proliferation in the 9-day-old and 11-month-old rodent hippocampus. *Experimental Brain Research* 52: 1-5
- Kaplan M.S., Hinds J.W.** (1977) Neurogenesis in the adult rat: electron microscopic analysis of light radiographies. *Science* 1997: 1092-1094
- Karabakhtsian R., Broude N., Shalts N., Kochlatyi S., Goodman R., Hemderson A.S.** (1994) Calcium is necessary in the cell response to EM fields. *FEBS Letters* 349: 1-6
- Kato M., Homma K., Shigemitsu T., Shiga Y.** (1994) Circularly polarised 50 Hz magnetic field exposure reduces pineal melatonin and blood concentrations of Long-Evans rats. *Neuroscience Letters* 166/1: 59-62
- Katsir G., Stavanit C.B., Abraham H.P.** (1998) Effect of sinusoidally varying magnetic fields on cell proliferation and adenosine deaminase specific activity. *Bioelectromagnetics* 19:46-52
- Kavaliers M., Ossenkopp K.-P.** (1986) Magnetic field inhibition of morphin-induced analgesia and behavioral activity in mice: evidence for involvement of calcium ions. *Brain Research* 379:30-38
- Kavaliers M., Ossenkopp K.P., Prato F.S., Innes D.G., Galea L.A., Kinsella D.M., Perrot-Sinal S.** (1996) Spatial learning in deer mice: sex differences and the effects of endogenous opioids and 60 Hz magnetic fields. *Journal of Comparative Physiology* 179/5: 715-724

- Keller A., Bagorda F., Hildebrandt K., Teuchert-Noodt G.** (2000) Effects of enriched and of restricted rearing on both neurogenesis and synaptogenesis in the hippocampal dentate gyrus of adult gerbils (*Meriones unguiculatus*). *Neurology Psychiatry Brain Research* 8: 101-108.
- Keller A.** (2000) Apoptose im hippocampalen Dentatus der Maus. Eine quantitative Analyse zum Einfluss von Haltungsbedingungen und einer neuroaktiven Substanz. Universität Bielefeld, Biologie, Diplomarbeit
- King K.L., Cidlowski J.A.** (1998) Cell Cycle regulation and Apoptosis. *Annual Review of Physiology* 60: 601-617
- Kirschvink J.L., Gould J.L.** (1981) Biogenic magnetite as a basis for magnetic field detection in animals. *Bio Systems* 13: 181-201
- Kirschvink J.L., Kobayashi-Kirschvink A., Woodfoed B.J.** (1992) Magnetite biominerallization in the human brain. *Proceedings of the National Academy of Sciences of the United States of America* 89: 7683-7687
- Kliukiene J., Tynes T., Martinsen J.I., Blaasaas K.G., Andersen A.** (1999) Incidence of breast cancer in a norwegian cohort of women with potential workplace exposure to 50 Hz magnetic fields. *American journal of Industrial Medicine* 36/1: 147-154
- Knowles W.D.** (1992) Normal anatomy and neurophysiology of the hippocampal formation. *Journal of Clinical Neurophysiology* 9/2: 252-263
- Köhler C., Ericson H., Radesäter A.-C.** (1991) Different laminar distributions of dopamine D1 and D2 receptors in the rat hippocampal region. *Neuroscience Letters* 126: 107-109
- Kolodynski A.A., Kolodynska V.V.** (1996) Motor and psychological functions of school children living in the area of the skrunda radio location station in latvia. *Science of total environment* 180: 87-93
- Korf H.W., Schomerus C., Stehle J.H.** (1998) The pineal organ, its hormone melatonin, and the photoneuroendocrine system. *Advances in Anatomy, Embryology and Cell Biology* 146:1-100
- Kuhn H.G., Dickinson-Anson H., Gage F.M.** (1996) Neurogenesis in the dentate gyrus of the adult rat: age-related decrease of neuronal progenitor proliferation. *Neuroscience*. 16/6: 2027-2033
- Kullnick U., Luethe L.C., Wolff H.G.** (1995) Do weak, low pulsed frequency, high-frequency electromagnetic or magnetic fields alter the basic bioelectrical parameters of

- nerve cells in vineyard snails (*Helix pomatia L.*) II. Magnetic fields. Bioelectrochemistry and Bioenergetics 37: 47-50.
- Kusuki T., Imahori Y., Ueda S., Inokuchi K.** (1997) Dopaminergic modulation of LTP induction in the dentate gyrus of intact brain. Neuroreport 27;8/8: 2037-2040
- Kwee S., Raskmark P.** (1995) Changes in cell proliferation due to environmental non-ionizing radiation 1. ELF electromagnetic fields. Bioelectrochemistry and Bioenergetics 36: 109-114
- Lai H., Carino M., Horita A., Guy A.W.** (1993) Effects of 60 Hz magnetic field on central cholinergic systems of the rat. Bioelectromagnetics 14/1: 5-15
- Lai H.** (1996) Spatial learning deficit in the rat after exposure to a 60 Hz magnetic field. Bioelectromagnetics 17/6: 494-496
- Lai H., Carino M.** (1999) 60 Hz magnetic fields and central cholinergic activity: effects of exposure, intensity and duration. Bioelectromagnetics 20/5: 284-289
- Larson J., Wong D., Lynch G.** (1986) Patterned stimulation at the theta frequency is optimal for the induction of hippocampal long-term potentiation. Brain Research 368: 347-350
- Lin H., Blank M., Jin M., Goodman R.** (1996) Electromagnetic field stimulation of biosynthesis: changes in c-myc transcript levels during continuous and intermittent exposures. Bioelectrochemistry and Bioenergetics 39: 215-220
- Litovitz T.A.; Montrose C.J.; Wang W.** (1992) Dose-response implications of the transient nature of electromagnetic-field-induced bioeffects: theoretical hypothesis and predictions. Bioelectromagnetics 1: 237-246
- Lohmann J., Johnsen S.** (2000) The neurobiology of magnetoreception in vertebrate animals. Trends in Neurosciences 23: 153-159
- Löscher W., Wahnschaffe V., Mevissen M., Lerchel A., Stamm A.** (1994) Effects of weak alternating magnetic fields on nocturnal melatonin production and mammary carcinogenesis in rats. Oncology 51/3: 288-295
- Löscher W., Liburdy R.P.** (1998) Animal and cellular studies on carcinogenic effects of low frequency (50/60-Hz) magnetic fields. Mutation Research 410: 185-220
- Löschinger M., Thumm S., Hammerle H., Rodemann H.P.** (1999) Induction of intracellular calcium oscillations in human skin fibroblast populations by sinusoidal extremely low-frequenc magnetic fields (20 Hz, 8 mT) is dependent on the differantiation state of the single cell. Radiation Research 151/2: 195-200

- Lyskov E.B., Juutilainen J., Jousmäki V., Partanen J., Medvedev S., Hänninen O.** (1993) Effects of 45-Hz magnetic fields on the functional state of the human brain. Bioelectromagnetics 14/2: 87-95
- Mangiacasale R., Tritarelli A., Sciamanna I., Cannone M., Lavia P., Barberis M.C., Lorenzini R., Cundari E.** (2001) Normal and cancer-prone human cells respond differently to extremely low frequency magnetic fields. FEBS Letters 487/3: 397-403
- Marron M.T., Goodman E.M., Sharpe P.T., Greenbaum B.** (1988) Low frequency electric and magnetic fields have different effects on the cell surface. FEBS Letters 230/1-2:13-16
- McConkey D.J., Orrenius S.** (1996) The role of calcium in the regulation of apoptosis. Journal of Leukocyte Biology 59: 775-783
- Messiha F.S.** (1988) Biochemical pharmacology of gilles de la Tourtte's syndrome. Neurosciene and Biobehavioral Reviews 12: 295-305
- Mevissen M., Kietzmann M., Löscher W.** (1995) In vivo exposure of rats to a weak alternating magnetic field increases ornithine decarboxylase activity in the mammary gland by a similar extent as the carcinogen DMBA. Cancer Letters 90: 207-214
- Miller M.W., Nowakowski R.S.** (1988) Use of bromodeoxyuridine-immunohistochemistry to examine the proliferation, migration and time of origion of cells in the central nervous system. Brain Research 457: 44-52
- Moghaddam B., Bolinao M., Stein-Behrens B.A., Sapolsky R.** (1994) Glucocorticoid mediate the stress-induced extracellular accumulation of glutamate. Brain Research 655: 251-254
- Mongeau R., Blier P., de Montigny C.** (1997) The serotonergic and noradrenergic systems of the hippocampus: their interactions and the effects of antidepressant treatments. Brain Research Reviews 23/3: 145-195
- Mullins J.M., Penafiel L.M., Juutilainen J., Litovitz T.A.** (1999) Dose-response of electromagnetic field-enhanced ornithine decarboxylase activity. Bioelectrochemistry and Bioenergetics 48: 193-199
- Nottebohm F.** (1981) A brain for all seasons: cyclical anatomical changes in song control nuclei of the canary brain. Science 214: 1368-1370
- Nottebohm F.** (1984) Birdsong as a model in which to study brain processes related to learning. Condor 86: 227-236

- Nottebohm F., Nottebohm M.E., Crane L.** (1986) Developmental and seasonal changes in the canary song and their relation to changes in the anatomy of song control nuclei. *Behavioral and Neural Biology* 46: 445-472
- Opler M., Rukenstein A., Coté L., Goddman R.** (1997) Reduced dopamine levels in PC12 cells exposed to low frequency electromagnetic fields. *Bioelectrochemistry and Bioenergetics* 42: 235-239
- Orlova T.V., Sidyakin V.G., Kulichenko A.M., Pavlenko V.B.** (1995) Activity of the neurons of the parietal associative cortex and the region of the substantia nigra of the cat on exposure to magnetic fields of the frequency of 8 Hz. *Biophysics* 40/5: 977-981
- Ottani V., Monti M.G., Morocutti M., Ferri M., Strocchi R., Ruggeri A., Babirolli B.** (1984) Influence of pulsed electromagnetic fields on regenerating rat liver partial hepatectomy. *Journal of Anatomy* 139/2: 253-263
- Persengiev P.P., Kanchev L.N.** (1991) Melatonin and adrenal cortex steroid production: in vivo and in vitro studies. *Folia Histochemica et Cytobiologica* 9/1: 15-18
- Pirot S., Godbout R., Mantz J., Tassin J.P., Glowinski J., Thierry A.M.** (1992) Inhibitory effects of ventral tegmental area stimulation on the activity of prefrontal cortical neurons: evidence for the involvement of both dopaminergic and GABAergic components. *Neuroscience* 49/4: 857-865
- Remane A., Storch V., Welsch M.** (1980) Systematische Zoologie. 2. Auflage. Gustav Fischer Verlag, Stuttgart-New York.
- Richardson K.C., Jarret L., Finke E.H.** (1960) Embedding in epoxy resins for ultrathin sectioning in electron microscopy. *Stain Technology* 35: 313-325
- Rickman M., Amaral D.G., Cowan W.M.** (1987) Organisation of radial glia cells during the development of the rat dentate gyrus. *Journal of Comparative Neurology* 264: 449-479
- Rose G.M., Dunwiddie T.V.** (1986) Induction of hippocampal long-term potentiation using physiologically patterned stimulation. *Neuroscience Letters* 69: 244-248
- Ross S.M.** (1990) Combined DC and ELF magnetic fields can alter cell proliferation. *Bioelectromagnetics*. 11/1: 27-36
- Rubin C.T., McLeod K.J.; Lanyon L.E.** (1989) Prevention of osteoporosis by pulsed electromagnetic fields. *Journal of bone and joint surgery. American Vol.* 71/3: 411-417
- Salzberg C.A., Cooper-Vastola S.A., Viehbeck M.G., Byrne D.W.** (1995) The effects of non-thermal pulsed electromagnetic energy on wound healing of pressure ulcers in

- spinal cord-injured patients: a randomized, double-blind study. *Ostomy Wound Management* 41/3: 42-44
- Sandyk R.** (1994) A drug naive parkinsonian patient successfully treated with weak electromagnetic fields. *International Journal of Neuroscience* 79: 99-110
- Sandyk R.** (1996) Effects of picotesla flux electromagnetic fields on dopaminergic transmission in tourette's syndrome. *International Journal of Neuroscience* 84: 187-194
- Santella L.** (1998) The role of calcium in the cell cycle: facts and hypotheses. *Biochemical and Biophysical Research Communications* 244/2: 317-324
- Savitz D.A., John F.M., Kleckner R.C.** (1990) Magnetic field exposure appliances and childhood cancer. *American Journal of Epidemiology* 131: 763-773
- Scarfì M.R., Lioi M.B., Della Noce M., Zeni O., Franceschi C., Monti D., Castellani G., Bersani F.** (1997) Exposure to 100 Hz magnetic fields increases micronucleus frequency and cell proliferation in human lymphocytes. *Bioelectrochemistry and Bioenergetics* 43: 77-81
- Schimmelpfeng J., Dertinger H.** (1997) Action of 50 Hz magnetic field on the proliferation of cells in culture. *Bioelectromagnetics* 18/2: 177-183
- Schlessinger A.R., Cowan W.M., Gottlieb D.I.** (1975) An autoradiographic study of the time of origin and the pattern of granule cell migration in dentate gyrus of the rat. *Journal of Comparative Neurology* 159: 149-176
- Seegal R.F., Wolpaw J. R., Dowman R.** (1989) Chronic exposure of primates to 60-Hz electric and magnetic fields: II. Neurochemical effects. *Bioelectromagnetics* 10: 289-301
- Seki T., Arai Y.** (1993) Highly polysialylated neuronal cell adhesion molecule (NCAM-H) is expressed by newly generated granule cells in the dentate gyrus of the adult rat. *Neuroscience* 13 /6: 2351-2358
- Seki T., Arai Y.** (1995) Age-related production of new granule cells in the adult dentate gyrus. *Neuroreport* 6/18: 2479-2482
- Selmaoui B., Lambrozo J., Touitou Y.** (1997) Endocrine functions in young men exposed for a night to a 50-Hz magnetic field. A circadian study of pituitary, thyroid and adrenocortical hormones. *Life Sciences* 61/5: 473-486
- Selmaoui B., Touitou Y.** (1995) Sinusoidal 50-Hz magnetic fields depress rat pineal NAT activity and serum melatonin. Role of duration and intensity of exposure. *Life Science* 57/14: 1351-1358
- Sharrad W.J.** (1990) A double-blind trial of pulsed electromagnetic fields for delayed union of tibial fractures. *Journal of Bone and Joint Surgery – British* 72/3: 347-355

- Shieh K.R., Chu Y.S., Pan J.T.** (1997) Circadian change of dopaminergic neuron activity: effects of constant light and melatonin. *Neuroreport* 8/9-10: 2283-2287
- Sienkiewics Z.J., Haylock R.G., Bartrum R., Saunders R.D.** (1998) 50 Hz magnetic field effects on the performance of a spatial learning task by mice. *Bioelectromagnetics* 19/8: 486-493
- Singer H.S., Butler I.J., Tune L.E., Seifert W.E. Jr, Coyle J.T.** (1982) Dopaminergic dysfunction in Tourette syndrome. *Annals of Neurology* 12/4: 361-366
- Sinz R.** (1979) *Neurobiologie und Gedächtnis: Neuronennetzwerke und Informationsspeicherung im menschlichen Gehirn*. Gustav Fischer Verlag, Stuttgart, New York.
- Sloviter R.S., Sollas E.D., Neubert S.** (1993a) Adrenalectomy-induced granule cell degeneration in the rat hippocampal dentate gyrus: Characterization of an in vivo model of controlled neuronal death. *Journal of Comparative Neurology* 330: 324-336
- Sloviter R.S., Sollas E.D., Neubert S.** (1993b) Electron microscopic analysis of adrenalectomy-induced hippocampal granule cell degeneration in the rat: Apoptosis in the adult central nervous system. *Journal of Comparative Neurology* 330: 337-351
- Stanfield B.B., Trice J.E.** (1988) Evidence that granule cells generated in the dentate gyrus of adult rats extend axonal projections. *Experimental Brain Research* 72: 399-406
- Stark H., Bischof A., Wagner T., Scheich H.** (2000) Stages of avoidance strategy formation in gerbils are correlated with dopaminergic transmission activity. *European Journal of Pharmacology* 405: 263-275
- Staubli U., Lynch G.** (1987) Stable hippocampal long-term potentiation elicited by theta pattern stimulation. *Brain Research* 435/1-2: 227-234
- Stein-Behrens B.A., Lin W.J., Sapolsky R.M.** (1994) Physiological elevation of glucocorticoids potentiate glutamate accumulation in the hippocampus. *Journal of Neurochemistry* 63: 596-602.
- Stevenson A.F.G.** (1993) Gesundheitsbezogene biologische Effekte elektrischer, magnetischer und elektromagnetischer Felder mit besonderer Berücksichtigung nicht-thermischer Effekte. In Ergänzung zum Gutachten v. Klitzing, L. (1992) Wirkung elektrischer, magnetischer und elektromagnetischer Felder auf den Menschen unter besonderer Berücksichtigung athermischer Effekte. Gutachten im Auftrag der Untersuchungsstelle für Umwelttoxikologie des Landes Schleswig-Holstein.
- Swanson L.W.** (1983) The hippocampus and the concept of the limbic system. In: Seifert, W., *Neurobiology and the hippocampus*, Academic Press, New York, 3-19

- Takuwa N., Zhou W., Takuwa Y.** (1995) Calcium, calmodulin and cell cycle progression. *Cellular Signaling* 7/2: 93-104
- Teuchert-Noodt G, Dawirs RR** (1999) Zur neuronalen Repräsentation und Dynamik räumlicher und zeitlicher Informationsbildung im limbo-präfrontalen System. In: . Rickheit G., Richtungen im Raum, Deutscher Universitäts-Verlag, Wiesbaden, 37-51
- Teuchert-Noodt G.** (2000) Neuronal degeneration and reorganization: a mutual principle in pathological and in healthy interactions of limbic and prefrontal circuits. *Journal of Neural Transmission (Suppl.)* 60: 315-333
- Theriault G., Goldberg M., Miller A.B., Armstrong B., Guenel P., Deadman J., Imbernon E., To T., Chevalier A., Cyr D.** (1994) Cancer risk associated with occupational exposure to magnetic fields among electric utility workers in Ontario and Quebec, Canada, and France: 1970-1989. *American Journal of Epidemiology* 39/6: 550-572
- Thumm S., Löschinger M., Glock S., Häammerle H., Rodemann H.P.** (1999) Induction of cAMP-dependent protein kinase A activity in human skin fibroblasts and rat osteoblasts by extremely low-frequency electromagnetic fields. *Radiation and Environmental Biophysics* 38:195-199
- Trepel M.** (1995) Großhirn. In: *Neuroanatomie* 2. Auflage. Urban und Schwarzenberg Verlag, München, Wien, Baltimore, 173-219
- Trock D.H.** (2000) Electromagnetic fields and magnets. Investigational treatment for musculoskeletal disorders. *Rheumatic Diseases Clinics of North America* 26/1: 51-62
- Truong H., Yellon S.M.** (1997) Effect of various acute 60 Hz magnetic field exposure on the nocturnal melatonin rise in the adult Djungarian hamster. *Journal of Pineal Research* 22: 177-183
- Tynes T., Andersen A., Langmark F.** (1992) Incidence of cancer in Norwegian workers potentially exposed to electromagnetic fields. *American Journal of Epidemiology* 136/1: 81-88
- Verreault R., Weiss N.S., Hollenbach K.A., Strader C.H., Daling J.R.** (1990) Use of electric blankets and risk of testicular cancer. *American Journal of Epidemiology* 131/5: 759-762
- von Klitzing L.** (1992) Wirkung elektrischer, magnetischer und elektromagnetischer Felder auf den Menschen unter besonderer Berücksichtigung athermischer Effekte. Gutachten im Auftrag der Untersuchungsstelle für Umwelttoxikologie des Landes Schleswig-Holstein.

- Vertes R.P., Kocsis B.** (1997) Brainstem-diencephalo-septohippocampal systems controlling the theta rhythm of the hippocampus. *Neuroscience* 81/4: 893-926
- Walleczek J., Budinger T.F.** (1992) Pulsed magnetic field effects on calcium signaling in lymphocytes: dependence on cell status and field intensity. *FEBS* 314/3: 351-355
- Warnke U.** (1994) Der Mensch und die dritte Kraft. Popular Academic Verlags-Gesellschaft Saarbrücken
- Wehr T.A.** (1997) Melatonin and the seasonal rhythmus. *Journal of Biological Rhythmus* 12/6: 518-527
- Weidenfeld Y., Schmidt U., Nir I.** (1993) The effect of exogenous melatonin on the hypothalamic-pituitary-adrenal axis in intact and pinealectomized rats under basal and stressed conditions. *Journal of Pineal Research* 14/2: 60-66
- Wertheimer N.W., Leeper E.** (1979) Electrical wiring configuration and childhood cancer. *American Journal of Epidemiology* 109: 273-284
- Wertheimer N.W., Leeper E.** (1982) Adult cancer related to electrical wires near the home. *International Journal of Epidemiology* 11/4: 345-355
- Wertheimer N.W., Savits D.A., Leeper E.** (1995) Childhood cancer in relation to indicators of magnetic fields from ground current sources. *Bioelectromagnetics* 16/2: 86-96
- Whitaker M.** (1997) Calcium and mitosis. *Progress in Cell Cycle Research* 3: 261-269
- Wilson B.W., Matt K.S., Morris J.E., Sasser L.B., Miller D.L., Anderson L.E.** (1999) Effects of 60 Hz magnetic field exposure on the pineal and hypothalamic-pituitary-gonadal axis in the siberian hamster (*Phodopus sungorus*). *Bioelectromagnetics* 20/4: 224-232
- Winterfeld K.T.** (1998) Zum Einfluss von Haltungsbedingungen auf die strukturelle und funktionale Reifung des präfrontalen Kortex bei der Wüstenrennmaus (*Meriones unguiculatus*). Universität Bielefeld, Biologie, Dissertation.
- Winterfeld K.T., Teuchert-Noodt G., Dawirs R.R.** (1998) Social environment alters both ontogeny of dopamine innervation of the medial prefrontal cortex and maturation of working memory in gerbils (*Meriones unguiculatus*). *Journal of Neuroscience Research* 52: 201-209