

- 13.Burchard, J.F., D.H. Nguyen, and H.G. Monardes, *Exposure of pregnant dairy heifer to magnetic fields at 60 Hz and 30 microT*. Bioelectromagnetics, 2007. **28**(6): p. 471-6.
- 14.Canseven, A.G., et al., *Pentylenetetrazol-induced seizures are not altered by pre- or post-drug exposure to a 50 Hz magnetic field*. Int J Radiat Biol, 2007. **83**(4): p. 231-5.
- 15.Cakir, D.U., et al., *Alterations of hematological variations in rats exposed to extremely low frequency magnetic fields (50 Hz)*. Arch Med Res, 2009. **40**(5): p. 352-6.
- 16.Budak, G.G., et al., *Effects of intrauterine and extrauterine exposure to GSM-like radiofrequency on distortion product otoacoustic emissions in infant male rabbits*. Int J Pediatr Otorhinolaryngol, 2009. **73**(3): p. 391-9.
- 17.Gulturk, S., et al., *Effect of exposure to 50 Hz magnetic field with or without insulin on blood-brain barrier permeability in streptozotocin-induced diabetic rats*. Bioelectromagnetics, 2009.
- 18.Akpolat, V., et al., *Treatment of osteoporosis by long-term magnetic field with extremely low frequency in rats*. Gynecol Endocrinol, 2009. **25**(8): p. 524-9.
- 19.Kim, Y.W., et al., *Effects of 60 Hz 14 microT magnetic field on the apoptosis of testicular germ cell in mice*. Bioelectromagnetics, 2009. **30**(1): p. 66-72.
- 20.Gonet, B., D.I. Kosik-Bogacka, and W. Kuzna-Grygiel, *Effects of extremely low-frequency magnetic fields on the oviposition of Drosophila melanogaster over three generations*. Bioelectromagnetics, 2009. **30**(8): p. 687-9.
- 21.Frilot, C., 2nd, S. Carrubba, and A.A. Marino, *Magnetosensory function in rats: localization using positron emission tomography*. Synapse, 2009. **63**(5): p. 421-8.
- 22.Guler, G., et al., *Antioxidants alleviate electric field-induced effects on lung tissue based on assays of heme oxygenase-1, protein carbonyl content, malondialdehyde, nitric oxide, and hydroxyproline*. Sci Total Environ, 2009. **407**(4): p. 1326-32.
- 23.Wahab, M.A., et al., *Elevated sister chromatid exchange frequencies in dividing human peripheral blood lymphocytes exposed to 50 Hz magnetic fields*. Bioelectromagnetics, 2007. **28**(4): p. 281-8.
- 24.Mairs, R.J., et al., *Microsatellite analysis for determination of the mutagenicity of*

- extremely low-frequency electromagnetic fields and ionising radiation in vitro.* Mutat Res, 2007. **626**(1-2): p. 34-41.
- 25.Koh, E.K., et al., *A 60-Hz sinusoidal magnetic field induces apoptosis of prostate cancer cells through reactive oxygen species.* Int J Radiat Biol, 2008. **84**(11): p. 945-55.
- 26.Cho, Y.H., H.K. Jeon, and H.W. Chung, *Effects of extremely low-frequency electromagnetic fields on delayed chromosomal instability induced by bleomycin in normal human fibroblast cells.* J Toxicol Environ Health A, 2007. **70**(15-16): p. 1252-8.
- 27.Koyama, S., et al., *Extremely low frequency (ELF) magnetic fields enhance chemically induced formation of apurinic/apyrimidinic (AP) sites in A172 cells.* Int J Radiat Biol, 2008. **84**(1): p. 53-9.
- 28.Cellini, L., et al., *Bacterial response to the exposure of 50 Hz electromagnetic fields.* Bioelectromagnetics, 2008. **29**(4): p. 302-11.
- 29.Bernardini, C., et al., *Effects of 50 Hz sinusoidal magnetic fields on Hsp27, Hsp70, Hsp90 expression in porcine aortic endothelial cells (PAEC).* Bioelectromagnetics, 2007. **28**(3): p. 231-7.
- 30.Gottwald, E., et al., *Expression of HSP72 after ELF-EMF exposure in three cell lines.* Bioelectromagnetics, 2007. **28**(7): p. 509-18.
- 31.Del Giudice, E., et al., *Fifty Hertz electromagnetic field exposure stimulates secretion of beta-amyloid peptide in cultured human neuroglioma.* Neurosci Lett, 2007. **418**(1): p. 9-12.
- 32.Masiuk, M., et al., *The expression and intranuclear distribution of nucleolin in HL-60 and K-562 cells after repeated, short-term exposition to rotating magnetic fields.* Int J Radiat Biol, 2008. **84**(9): p. 752-60.
- 33.Kanitz, M.H., et al., *Investigation of protein expression in magnetic field-treated human glioma cells.* Bioelectromagnetics, 2007. **28**(7): p. 546-52.
- 34.Girgert, R., et al., *Electromagnetic fields alter the expression of estrogen receptor cofactors in breast cancer cells.* Bioelectromagnetics, 2008. **29**(3): p. 169-76.
- 35.Girgert, R., et al., *Exposure of mcf-7 breast cancer cells to electromagnetic fields up-regulates the plasminogen activator system.* Int J Gynecol Cancer, 2009. **19**(3): p. 334-8.

- 36.Rodriguez de la Fuente, A.O., et al., *Effect of 60 Hz electromagnetic fields on the activity of hsp70 promoter: an in vitro study*. Cell Biol Int, 2009. **33**(3): p. 419-23.
- 37.Sakurai, T., et al., *Exposure to extremely low frequency magnetic fields affects insulin-secreting cells*. Bioelectromagnetics, 2008. **29**(2): p. 118-24.
- 38.Iorio, R., et al., *A preliminary study of oscillating electromagnetic field effects on human spermatozoon motility*. Bioelectromagnetics, 2007. **28**(1): p. 72-5.
- 39.Jia, C., et al., *EGF receptor clustering is induced by a 0.4 mT power frequency magnetic field and blocked by the EGF receptor tyrosine kinase inhibitor PD153035*. Bioelectromagnetics, 2007. **28**(3): p. 197-207.
- 40.Kroupova, J., et al., *Low-frequency magnetic field effect on cytoskeleton and chromatin*. Bioelectrochemistry, 2007. **70**(1): p. 96-100.
- 41.Aldinucci, C., et al., *Synaptosome behaviour is unaffected by weak pulsed electromagnetic fields*. Bioelectromagnetics, 2007. **28**(6): p. 477-83.
- 42.Ravera, S., et al., *Sinusoidal ELF magnetic fields affect acetylcholinesterase activity in cerebellum synaptosomal membranes*. Bioelectromagnetics, 2009.
- 43.Pan, W., et al., *Effects of pulsed magnetic field on the formation of magnetosomes in the Magnetospirillum sp. strain AMB-1*. Bioelectromagnetics, 2009.
- 44.Eleuteri, A.M., et al., *50 Hz extremely low frequency electromagnetic fields enhance protein carbonyl groups content in cancer cells: effects on proteasomal systems*. J Biomed Biotechnol, 2009. **2009**: p. 834239.
- 45.Fojt, L., et al., *50 Hz magnetic field effect on the morphology of bacteria*. Micron, 2009. **40**(8): p. 918-22.
- 46.Chen, C., et al., *Enhancement of the hydrolysis activity of F0F1-ATPases using 60 Hz magnetic fields*. Bioelectromagnetics, 2009. **30**(8): p. 663-8.
- 47.Tillmann, T., et al., *Carcinogenicity study of GSM and DCS wireless communication signals in B6C3F1 mice*. Bioelectromagnetics, 2007. **28**(3): p. 173-87.
- 48.Shirai, T., et al., *Lack of promoting effects of chronic exposure to 1.95-GHz W-CDMA signals for IMT-2000 cellular system on development of N-ethylnitrosourea-induced central nervous system tumors in F344 rats*. Bioelectromagnetics, 2007. **28**(7): p.

- 562-72.
- 49.Sommer, A.M., et al., *Lymphoma development in mice chronically exposed to UMTS-modulated radiofrequency electromagnetic fields*. Radiat Res, 2007. **168**(1): p. 72-80.
- 50.Oberto, G., et al., *Carcinogenicity study of 217 Hz pulsed 900 MHz electromagnetic fields in Pim1 transgenic mice*. Radiat Res, 2007. **168**(3): p. 316-26.
- 51.Smith, P., et al., *GSM and DCS wireless communication signals: combined chronic toxicity/carcinogenicity study in the Wistar rat*. Radiat Res, 2007. **168**(4): p. 480-92.
- 52.Saran, A., et al., *Effects of exposure of newborn patched1 heterozygous mice to GSM, 900 MHz*. Radiat Res, 2007. **168**(6): p. 733-40.
- 53.Hruby, R., et al., *Study on potential effects of "902-MHz GSM-type Wireless Communication Signals" on DMBA-induced mammary tumours in Sprague-Dawley rats*. Mutat Res, 2008. **649**(1-2): p. 34-44.
- 54.Juutilainen, J., et al., *Micronucleus frequency in erythrocytes of mice after long-term exposure to radiofrequency radiation*. Int J Radiat Biol, 2007. **83**(4): p. 213-20.
- 55.Ogawa, K., et al., *Effects of gestational exposure to 1.95-GHz W-CDMA signals for IMT-2000 cellular phones: Lack of embryotoxicity and teratogenicity in rats*. Bioelectromagnetics, 2009. **30**(3): p. 205-12.
- 56.Lee, H.J., et al., *Lack of teratogenicity after combined exposure of pregnant mice to CDMA and WCDMA radiofrequency electromagnetic fields*. Radiat Res, 2009. **172**(5): p. 648-52.
- 57.Ziemann, C., et al., *Absence of genotoxic potential of 902 MHz (GSM) and 1747 MHz (DCS) wireless communication signals: In vivo two-year bioassay in B6C3F1 mice*. Int J Radiat Biol, 2009. **85**(5): p. 454-64.
- 58.Odaci, E., O. Bas, and S. Kaplan, *Effects of prenatal exposure to a 900 MHz electromagnetic field on the dentate gyrus of rats: a stereological and histopathological study*. Brain Res, 2008. **1238**: p. 224-9.
- 59.Sanchez, S., et al., *Effect of GSM-900 and -1800 signals on the skin of hairless rats. III: Expression of heat shock proteins*. Int J Radiat Biol, 2008. **84**(1): p. 61-8.
- 60.Paparini, A., et al., *No evidence of major transcriptional changes in the brain of mice exposed to 1800 MHz GSM signal*.

- Bioelectromagnetics, 2008. **29**(4): p. 312-23.
- 61.Finnie, J.W., et al., *Stress response in mouse brain after long-term (2 year) exposure to mobile telephone radiofrequency fields using the immediate early gene, c-fos*. Pathology, 2007. **39**(2): p. 271-3.
- 62.Lerchl, A., et al., *Effects of mobile phone electromagnetic fields at nonthermal SAR values on melatonin and body weight of Djungarian hamsters (Phodopus sungorus)*. J Pineal Res, 2008. **44**(3): p. 267-72.
- 63.Dawe, A.S., et al., *Continuous wave and simulated GSM exposure at 1.8 W/kg and 1.8 GHz do not induce hsp16-1 heat-shock gene expression in Caenorhabditis elegans*. Bioelectromagnetics, 2008. **29**(2): p. 92-9.
- 64.Dawe, A.S., et al., *Low-intensity microwave irradiation does not substantially alter gene expression in late larval and adult Caenorhabditis elegans*. Bioelectromagnetics, 2009. **30**(8): p. 602-12.
- 65.Finnie, J.W., et al., *Expression of the water channel protein, aquaporin-4, in mouse brains exposed to mobile telephone radiofrequency fields*. Pathology, 2009. **41**(5): p. 473-5.
- 66.Finnie, J.W., et al., *Heat shock protein induction in fetal mouse brain as a measure of stress after whole of gestation exposure to mobile telephony radiofrequency fields*. Pathology, 2009. **41**(3): p. 276-9.
- 67.Garaj-Vrhovac, V., et al., *Evaluation of basal DNA damage and oxidative stress in Wistar rat leukocytes after exposure to microwave radiation*. Toxicology, 2009. **259**(3): p. 107-12.
- 68.Lopez-Martin, E., et al., *The action of pulse-modulated GSM radiation increases regional changes in brain activity and c-Fos expression in cortical and subcortical areas in a rat model of picrotoxin-induced seizure proneness*. J Neurosci Res, 2009. **87**(6): p. 1484-99.
- 69.Kim, T.H., et al., *Local exposure of 849 MHz and 1763 MHz radiofrequency radiation to mouse heads does not induce cell death or cell proliferation in brain*. Exp Mol Med, 2008. **40**(3): p. 294-303.
- 70.Ammari, M., et al., *Effect of a chronic GSM 900 MHz exposure on glia in the rat brain*. Biomed Pharmacother, 2008. **62**(4): p. 273-81.
- 71.Brillaud, E., A. Piotrowski, and R. de Seze, *Effect of an acute 900MHz GSM exposure on glia in the rat brain: a time-dependent*

- study.* Toxicology, 2007. **238**(1): p. 23-33.
- 72.Ammari, M., et al., *Exposure to GSM 900 MHz electromagnetic fields affects cerebral cytochrome c oxidase activity.* Toxicology, 2008. **250**(1): p. 70-4.
- 73.Masuda, H., et al., *Effects of 915 MHz electromagnetic field radiation in TEM cell on the blood-brain barrier and neurons in the rat brain.* Radiat Res, 2009. **172**(1): p. 66-73.
- 74.Salford, L.G., et al., *Nerve cell damage in mammalian brain after exposure to microwaves from GSM mobile phones.* Environ Health Perspect, 2003. **111**(7): p. 881-3; discussion A408.
- 75.McQuade, J.M., et al., *Radiofrequency-radiation exposure does not induce detectable leakage of albumin across the blood-brain barrier.* Radiat Res, 2009. **171**(5): p. 615-21.
- 76.Bas, O., et al., *900 MHz electromagnetic field exposure affects qualitative and quantitative features of hippocampal pyramidal cells in the adult female rat.* Brain Res, 2009. **1265**: p. 178-85.
- 77.Acar, G.O., et al., *Thermal effects of mobile phones on facial nerves and surrounding soft tissue.* Laryngoscope, 2009. **119**(3): p. 559-62.
- 78.Ammari, M., et al., *Effect of head-only sub-chronic and chronic exposure to 900-MHz GSM electromagnetic fields on spatial memory in rats.* Brain Inj, 2008. **22**(13-14): p. 1021-9.
- 79.Nittby, H., et al., *Cognitive impairment in rats after long-term exposure to GSM-900 mobile phone radiation.* Bioelectromagnetics, 2008. **29**(3): p. 219-32.
- 80.Kumlin, T., et al., *Mobile phone radiation and the developing brain: behavioral and morphological effects in juvenile rats.* Radiat Res, 2007. **168**(4): p. 471-9.
- 81.Daniels, W.M., et al., *The effect of electromagnetic radiation in the mobile phone range on the behaviour of the rat.* Metab Brain Dis, 2009. **24**(4): p. 629-41.
- 82.Prisco, M.G., et al., *Effects of GSM-modulated radiofrequency electromagnetic fields on mouse bone marrow cells.* Radiat Res, 2008. **170**(6): p. 803-10.
- 83.Masuda, H., et al., *Effects of acute exposure to a 1439 MHz electromagnetic field on the microcirculatory parameters in rat brain.* In Vivo, 2007. **21**(4): p. 555-62.
- 84.Masuda, H., et al., *Effects of subchronic exposure to a 1439 MHz electromagnetic field on the microcirculatory parameters*

- in rat brain.* In Vivo, 2007. **21**(4): p. 563-70.
85. Yan, J.G., et al., *Effects of cellular phone emissions on sperm motility in rats.* Fertil Steril, 2007. **88**(4): p. 957-64.
86. Parazzini, M., et al., *Possible combined effects of 900 MHz continuous-wave electromagnetic fields and gentamicin on the auditory system of rats.* Radiat Res, 2007. **167**(5): p. 600-5.
87. Galloni, P., et al., *No effects of UMTS exposure on the function of rat outer hair cells.* Bioelectromagnetics, 2009. **30**(5): p. 385-92.
88. Diem, E., et al., *Non-thermal DNA breakage by mobile-phone radiation (1800 MHz) in human fibroblasts and in transformed GFSH-R17 rat granulosa cells in vitro.* Mutat Res, 2005. **583**(2): p. 178-83.
89. Schwarz, C., et al., *Radiofrequency electromagnetic fields (UMTS, 1,950 MHz) induce genotoxic effects in vitro in human fibroblasts but not in lymphocytes.* Int Arch Occup Environ Health, 2008. **81**(6): p. 755-67.
90. News\_from\_Medical\_University\_of\_Vienna\_Website. *Suspicion of an erroneous study by the former Division of Occupational Medicine.* 2008 [cited 2008 23 May, 2008]; Available from: [http://www.meduniwien.ac.at/homepage/news-and-topstories/en/?tx\\_ttnews%5Btt\\_news%5D=204&cHash=5adeae2d7c](http://www.meduniwien.ac.at/homepage/news-and-topstories/en/?tx_ttnews%5Btt_news%5D=204&cHash=5adeae2d7c).
91. Speit, G., P. Schutz, and H. Hoffmann, *Genotoxic effects of exposure to radiofrequency electromagnetic fields (RF-EMF) in cultured mammalian cells are not independently reproducible.* Mutat Res, 2007. **626**(1-2): p. 42-7.
92. Koyama, S., et al., *Effects of 2.45 GHz electromagnetic fields with a wide range of SARs on bacterial and HPRT gene mutations.* J Radiat Res (Tokyo), 2007. **48**(1): p. 69-75.
93. Valbonesi, P., et al., *Evaluation of HSP70 expression and DNA damage in cells of a human trophoblast cell line exposed to 1.8 GHz amplitude-modulated radiofrequency fields.* Radiat Res, 2008. **169**(3): p. 270-9.
94. Zeni, O., et al., *Evaluation of genotoxic effects in human leukocytes after in vitro exposure to 1950 MHz UMTS radiofrequency field.* Bioelectromagnetics, 2008. **29**(3): p. 177-84.
95. Baohong, W., et al., *Evaluating the combinative effects on human lymphocyte DNA damage induced by ultraviolet ray C plus 1.8 GHz microwaves using comet assay in vitro.* Toxicology, 2007. **232**(3): p. 63

- 311-6.
96. Belyaev, I.Y., et al., *Microwaves from UMTS/GSM mobile phones induce long-lasting inhibition of 53BP1/gamma-H2AX DNA repair foci in human lymphocytes*. Bioelectromagnetics, 2009. **30**(2): p. 129-41.
97. Manti, L., et al., *Effects of modulated microwave radiation at cellular telephone frequency (1.95 GHz) on X-ray-induced chromosome aberrations in human lymphocytes in vitro*. Radiat Res, 2008. **169**(5): p. 575-83.
98. Hansteen, I.L., et al., *Cytogenetic effects of exposure to 2.3 GHz radiofrequency radiation on human lymphocytes in vitro*. Anticancer Res, 2009. **29**(11): p. 4323-30.
99. Zhijian, C., et al., *Influence of 1.8-GHz (GSM) radiofrequency radiation (RFR) on DNA damage and repair induced by X-rays in human leukocytes in vitro*. Mutat Res, 2009. **677**(1-2): p. 100-4.
100. Sannino, A., et al., *Human fibroblasts and 900 MHz radiofrequency radiation: evaluation of DNA damage after exposure and co-exposure to 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX)*. Radiat Res, 2009. **171**(6): p. 743-51.
101. Sannino, A., et al., *Induction of adaptive response in human blood lymphocytes exposed to radiofrequency radiation*. Radiat Res, 2009. **171**(6): p. 735-42.
102. Sanchez, S., et al., *In vitro study of the stress response of human skin cells to GSM-1800 mobile phone signals compared to UVB radiation and heat shock*. Radiat Res, 2007. **167**(5): p. 572-80.
103. Hirose, H., et al., *Mobile phone base station-emitted radiation does not induce phosphorylation of Hsp27*. Bioelectromagnetics, 2007. **28**(2): p. 99-108.
104. Chauhan, V., et al., *Analysis of gene expression in two human-derived cell lines exposed in vitro to a 1.9 GHz pulse-modulated radiofrequency field*. Proteomics, 2007. **7**(21): p. 3896-905.
105. Franzellitti, S., et al., *HSP70 expression in human trophoblast cells exposed to different 1.8 Ghz mobile phone signals*. Radiat Res, 2008. **170**(4): p. 488-97.
106. Huang, T.Q., et al., *Molecular responses of Jurkat T cells to 1763 MHz radiofrequency radiation*. Int J Radiat Biol, 2008. **84**(9): p. 734-41.
107. Zhao, R., et al., *Studying gene expression profile of rat neuron exposed to*

- 1800MHz radiofrequency electromagnetic fields with cDNA microassay.* Toxicology, 2007. **235**(3): p. 167-75.
108. Cervellati, F., et al., *Effect of high-frequency electromagnetic fields on trophoblastic connexins.* Reprod Toxicol, 2009. **28**(1): p. 59-65.
109. Chauhan, V., et al., *Evaluating the biological effects of intermittent 1.9 GHz pulse-modulated radiofrequency fields in a series of human-derived cell lines.* Radiat Res, 2007. **167**(1): p. 87-93.
110. Moquet, J., et al., *Exposure to low level GSM 935 MHz radiofrequency fields does not induce apoptosis in proliferating or differentiated murine neuroblastoma cells.* Radiat Prot Dosimetry, 2008. **131**(3): p. 287-96.
111. Hirose, H., et al., *Mobile phone base station radiation does not affect neoplastic transformation in BALB/3T3 cells.* Bioelectromagnetics, 2008. **29**(1): p. 55-64.
112. Buttiglione, M., et al., *Radiofrequency radiation (900 MHz) induces Egr-1 gene expression and affects cell-cycle control in human neuroblastoma cells.* J Cell Physiol, 2007. **213**(3): p. 759-67.
113. Joubert, V., et al., *No apoptosis is induced in rat cortical neurons exposed to GSM phone fields.* Bioelectromagnetics, 2007. **28**(2): p. 115-21.
114. Joubert, V., et al., *Apoptosis is induced by radiofrequency fields through the caspase-independent mitochondrial pathway in cortical neurons.* Radiat Res, 2008. **169**(1): p. 38-45.
115. Palumbo, R., et al., *Exposure to 900 MHz radiofrequency radiation induces caspase 3 activation in proliferating human lymphocytes.* Radiat Res, 2008. **170**(3): p. 327-34.
116. Platano, D., et al., *Acute exposure to low-level CW and GSM-modulated 900 MHz radiofrequency does not affect Ba 2+ currents through voltage-gated calcium channels in rat cortical neurons.* Bioelectromagnetics, 2007. **28**(8): p. 599-607.
117. Zeni, O., et al., *Formation of reactive oxygen species in L929 cells after exposure to 900 MHz RF radiation with and without co-exposure to 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone.* Radiat Res, 2007. **167**(3): p. 306-11.
118. Moisescu, M.G., et al., *900 MHz modulated electromagnetic fields accelerate the clathrin-mediated*

- endocytosis pathway.* Bioelectromagnetics, 2009. **30**(3): p. 222-30.
119. Falzone, N., et al., *In vitro effect of pulsed 900 MHz GSM radiation on mitochondrial membrane potential and motility of human spermatozoa.* Bioelectromagnetics, 2008. **29**(4): p. 268-76.
120. Del Vecchio, G., et al., *Effect of radiofrequency electromagnetic field exposure on in vitro models of neurodegenerative disease.* Bioelectromagnetics, 2009. **30**(7): p. 564-72.
121. Brescia, F., et al., *Reactive oxygen species formation is not enhanced by exposure to UMTS 1950 MHz radiation and co-exposure to ferrous ions in Jurkat cells.* Bioelectromagnetics, 2009. **30**(7): p. 525-35.
122. Billaudel, B., et al., *Effects of exposure to DAMPS and GSM signals on ornithine decarboxylase (ODC) activity: II. SH-SY5Y human neuroblastoma cells.* Int J Radiat Biol, 2009. **85**(6): p. 519-22.
123. Billaudel, B., et al., *Effects of exposure to DAMPS and GSM signals on ornithine decarboxylase (ODC) activity: I. L-929 mouse fibroblasts.* Int J Radiat Biol, 2009. **85**(6): p. 510-8.
124. Luukkonen, J., et al., *Enhancement of chemically induced reactive oxygen species production and DNA damage in human SH-SY5Y neuroblastoma cells by 872 MHz radiofrequency radiation.* Mutat Res, 2009. **662**(1-2): p. 54-8.

## 文献調査 2 の参考文献

1. Pouletier de Gannes F, Ruffié G, Taxile M, Ladevèze E, Hurtier A, Haro E, Duleu S, Charlet de Sauvage R, Billaudel B, Geffard M, Veyret B, Lagroye I. Amyotrophic Lateral Sclerosis (ALS) and extremely-low frequency (ELF) magnetic fields: a study in the SOD-1 transgenic mouse model. *Amyotroph Lateral Scler.* 2009 Oct-Dec;10(5-6):370-3.
2. Roychoudhury S, Jedlicka J, Parkanyi V, Rafay J, Ondruska L, Massanyi P, Bulla J. Influence of a 50 hz extra low frequency electromagnetic field on spermatozoa motility and fertilization rates in rabbits. *J Environ Sci Health A Tox Hazard Subst Environ Eng.* 2009 Aug;44(10):1041-7.
3. Ruiz-Gómez MJ, Martínez-Morill M. Electromagnetic fields and the induction of DNA strand breaks. *Electromagn Biol Med.* 2009;28(2):201-14.
4. Patruno A, Amerio P, Pesce M, Vianale G, Di Luzio S, Tulli A, Franceschelli S, Grilli A, Muraro R, Reale M. Extremely low frequency electromagnetic fields modulate expression of inducible nitric oxide synthase, endothelial nitric oxide synthase and cyclooxygenase-2 in the human keratinocyte cell line HaCat: potential therapeutic effects in wound healing. *Br J Dermatol.* 2009 Oct 3.
5. Tomitsch J, Dechant E, Frank W. Survey of electromagnetic field exposure in bedrooms of residences in lower Austria. *Bioelectromagnetics.* 2009 Sep 24.
6. Jahandideh S, Abdolmaleki P, Movahedi MM. Comparing performances of logistic regression and neural networks for predicting melatonin excretion patterns in the rat exposed to ELF magnetic fields. *Bioelectromagnetics.* 2009 Sep 21.
7. Cakir DU, Yokus B, Akdag MZ, Sert C, Mete N. Alterations of hematological variations in rats exposed to extremely low frequency magnetic fields (50 Hz). *Arch Med Res.* 2000 Jul;40(5): 352-6.
8. Albanese A, Battisti E, Vannoni , Aceto E, Galassi G, Giglioni S,

- Tommassini V, Giordano N. Alterations in adenylate kinase activity in human PBMCs after in vitro exposure to electromagnetic field: comparison between extremely low frequency electromagnetic field (ELF) and therapeutic application of a musically modulated electromagnetic field (TAMMEF). *J Biomed Biotechnol.* 2009; 717941
9. Goodman R, Lin-Ye A, Geddis MS, Wickramaratne PJ, Hodge SE, Pantazatos S, Blank M, Ambron RT. Extremely low frequency electromagnetic fields activate the ERK cascade, increase hsp70 protein levels and promote regeneration in Planaria. *Int J Radiat Biol.* 2009 Jul; 95(1):1-9.
10. Varró P, Szemerszky R, Bárdos G, Világi I. Changes in synaptic efficacy and seizure susceptibility in rat brain slices following extremely low-frequency electromagnetic field exposure. *Bioelectromagnetics.* 2009 Dec; 30(8): 631-40.
11. Aydin M, Cevik A, Kandemir FM, Yuksel M, Apaydin AM. Evaluation of hormonal change, biochemical parameters, and histopathological status of uterus in rats exposed to 50-Hz electromagnetic field. *Toxicol Ind Health.* 2009 Apr; 25(3):153-8.
12. Valic B, Gajsek P, Miklavcic D. Current density in a model of a human body with a conductive implant exposed to ELF electric and magnetic fields. *Bioelectromagnetics.* 2009 Oct; 30(7):591-9.
13. Johansson O. Disturbance of the immune system by electromagnetic fields-A potentially underlying cause for cellular damage and tissue repair reduction which could lead to disease and impairment. *Pathophysiology.* 2009 Aug; 16(2-3):157-77.
14. Mee T, Whatmough P, Broad L, Dunn C, Maslanyj M, Allen S, Muir K. Occupational exposure of UK adults to extremely low frequency magnetic fields. *McKinney PA, van Tongeren M. Occup Environ Med.* 2009 Sep; 66(9): 619-27.
15. Strasák L, Bártová E, Krejci J, Fojt L, Vetterl V. Effects of ELF-EMF on brain proteins in mice.

- Electromagn Biol Med. 2009; 28(1): 96–104.
16. Vijayalaxmi, Prihoda TJ. Genetic damage in mammalian somatic cells exposed to extremely low frequency electro-magnetic fields: a meta-analysis of data from 87 publications (1990–2007). Int J Radiat Biol. 2009 Mar;85(3):196–213.
17. Gaetani R, Ledda M, Barile L, Chimenti I, De Carlo F, Forte E, Ionta V, Giuliani L, D'Emilia E, Frati G, Miraldi F, Pozzi D, Messina E, Grimaldi S, Giacomello A, Lisi A. Differentiation of human adult cardiac stem cells exposed to extremely low-frequency electromagnetic fields. Cardiovasc Res. 2009 Jun 1; 82(3):411–20.
18. Cancer Causes Control. 2009 Aug;20(6):945–55. Maternal occupational exposure to extremely low frequency magnetic fields and the risk of brain cancer in the offspring.
19. Li P, McLaughlin J, Infante-Rivard C. A literature review: the cardiovascular effects of exposure to extremely low frequency electromagnetic fields. McNamee DA, Legros AG, Krewski DR, Wisenberg G, Prato FS, Thomas AW. Int Arch Occup Environ Health. 2009 Aug;82(8):919–33.
20. Hopper RA, VerHalen JP, Tepper O, Mehrara BJ, Detch R, Chang EI, Baharestani S, Simon BJ, Gurtner GC. Osteoblasts stimulated with pulsed electromagnetic fields increase HUVEC proliferation via a VEGF-A independent mechanism. Bioelectromagnetics. 2009 Apr;30(3):189–97.
21. Capone F, Dileone M, Profice P, Pilato F, Musumeci G, Minicuci G, Ranieri F, Cadossi R, Setti S, Tonali PA, Di Lazzaro V. Does exposure to extremely low frequency magnetic fields produce functional changes in human brain? J Neural Transm. 2009 Mar; 116(3):257–65.
22. Zhao YL, Yang JC, Zhang YH. Effects of magnetic fields on intracellular calcium oscillations. Conf Proc IEEE Eng Med Biol Soc. 2008:2124–7.

23. Budak GG, Budak B, Oztürk GG, Muluk NB, Apan A, Seyhan N. Effects of extremely low frequency electromagnetic fields on transient evoked otoacoustic emissions in rabbits. *Int J Pediatr Otorhinolaryngol.* 2009 Mar;73(3):429–36.
24. Di Loreto S, Falone S, Caracciolo V, Sebastiani P, D’Alessandro A, Mirabilio A, Zimmitti V, Amicarelli F. Low-frequency magnetic field exposure elicits redox and trophic response in rat-cortical neurons. *J Cell Physiol.* 2009 May; 219(2): 334–43.
25. Nishimura I, Imai S, Negishi T. Lack of chick embryotoxicity after 20 kHz, 1.1 mT magnetic field exposure. *Bioelectromagnetics.* 2009 Oct; 30(7): 573–82.
26. Lee HJ, Pack JK, Gim Y, Choi HD, Kim N, Kim SH, Lee YS. Teratological evaluation of mouse fetuses exposed to a 20 kHz EMF. *Bioelectromagnetics.* 2009 May; 30(4):330–3
27. Shigemitsu T, Negishi T, Yamazaki K, Kawahara Y, Haga A, Kobayashi K, Muramatsu K.
- A newly designed and constructed 20 kHz magnetic field exposure facility for in vivo study. *Bioelectromagnetics.* 2009 Jan;30(1):36–44.
28. Nagatomo T, Abe H, Kohno R, Toyoshima T, Fujimoto H, Kondo S, Kabashima N, Takeuchi M, Tamura M, Okazaki M, Otsuji Y. Electromagnetic interference with a bipolar pacemaker by an induction heating (IH) rice cooker. *Int Heart J.* 2009 Jan; 50(1): 133–7.
29. Yamamoto T, Koshiji K, Homma A, Tatsumi E, Taenaka Y. Improvement in magnetic field immunity of externally-coupled transcutaneous energy transmission system for a totally implantable artificial heart. *J Artif Organs.* 2008; 11(4): 238–40.
30. Gaestel M. Biological monitoring of non-thermal effects of mobile phone radiation: recent approaches and challenges. *Biol Rev Camb Philos Soc.* 2009 Dec 15
31. Maskey D, Kim M, Aryal B, Pradhan J, Choi IY, Park KS, Son T, Hong

- SY, Kim SB, Kim HG, Kim MJ. Effect of 835 MHz radiofrequency radiation exposure on calcium binding proteins in the hippocampus of the mouse brain. *Brain Res.* [Epub ahead of print]
32. Thomas S, Heinrich S, von Kries R, Radon K. Exposure to radio-frequency electromagnetic fields and behavioural problems in Bavarian children and adolescents. *Eur J Epidemiol.* 2009 Dec 4.
33. Lee HJ, Lee JS, Pack JK, Choi HD, Kim N, Kim SH, Lee YS. Lack of teratogenicity after combined exposure of pregnant mice to CDMA and WCDMA radiofrequency electromagnetic fields. *Radiat Res.* 2009 Nov; 172(5):648-52.
34. Brain Res.. [Epub ahead of print] Exposure to 1800 MHz radiofrequency radiation induces oxidative damage to mitochondrial DNA in primary cultured neurons.
35. Xu S, Zhou Z, Zhang L, Yu Z, Zhang W, Wang Y, Wang X, Li M, Chen Y, Chen C, He M, Zhang G, Zhong M, Desai NR, Kesari KK, Agarwal A. Pathophysiology of cell phone radiation: oxidative stress and carcinogenesis with focus on male reproductive system. *Reprod Biol Endocrinol.* 2009 Oct 22;7:114.
36. Collaborators (45) Adair ER, Bansal R, Bassen H, Black D, Bodenmann R, Brecher A, Bushberg JT, Chadwick P, Cohen J, D'Andrea J, Doyle RL, Elder J, Erdreich LS, Foster KR, Habash R, Hatfield J, Hoolihan DD, Ivans V, Jauchem J, Johnston S, Kavet R, Klauenberg BJ, Lambert JH, Lapin GD, Meltz ML, Morrissey J, Moulder J, Murphy MR, Osepchuk JM, Petersen RC, Polson P, Proctor KR, Riu PJ, Swicord M, Thansandote PA, Tofighi MR, van Rongen E, Royston DD, Sarjeant WJ, Tell RA, Varanelli A, Weller RD, Ziriax J, Zipse DW, Ziskin MC. COMAR technical information statement: expert reviews on potential health effects of radiofrequency electromagnetic fields and comments on the bioinitiative report. Committee on Man and Radiation (COMAR). *Health Phys.* 2009 Oct; 97(4): 348-56.
37. De Iuliis GN, Newey RJ, King BV, Aitken RJ

- Mobile phone radiation induces reactive oxygen species production and DNA damage in human spermatozoa *in vitro*. PLoS One. 2009 Jul 31; 4(7): e6446.
38. Parazzini M, Sibella F, Lutman ME, Mishra S, Moulin A, Sliwinska-Kowalska M, Woznicka E, Politanski P, Zmyslony M, Thuroczy G, Molnár F, Kubinyi G, Tavartkiladze G, Bronyakin S, Uloziene I, Uloza V, Gradauskiene E, Ravazzani P. Effects of UMTS cellular phones on human hearing: results of the European project EMFnEAR. Radiat Res. 2009 Aug; 172(2): 244–51.
39. Lipping T, Rorarius M, Jäntti V, Annala K, Mennander A, Ferenets R, Toivonen T, Toivo T, Värri A, Korpinen L. Nonlinear Biomed Phys. 2009 Jul 18;3(1):5. Using the nonlinear control of anaesthesia-induced hypersensitivity of EEG at burst suppression level to test the effects of radiofrequency radiation on brain function. Nonlinear Biomed Phys. 2009 Jul 18;3(1):5.
40. Sannino A, Di Costanzo G, Brescia F, Sarti M, Zeni O, Juutilainen J, Scarfi MR. Human fibroblasts and 900 MHz radiofrequency radiation: evaluation of DNA damage after exposure and co-exposure to 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5h)-furanone (MX). Radiat Res. 2009 Jun; 171(6): 743–51.
41. Sannino A, Sarti M, Reddy SB, Prihoda TJ, Vijayalaxmi, Scarfi MR. Induction of adaptive response in human blood lymphocytes exposed to radiofrequency radiation. Radiat Res. 2009 Jun; 171(6): 735–42.
42. Mailankot M, Kunnath AP, Jayalekshmi H, Koduru B, Valsalan R. Radio frequency electromagnetic radiation (RF-EMR) from GSM (0.9/1.8GHz) mobile phones induces oxidative stress and reduces sperm motility in rats. Clinics (Sao Paulo). 2009; 64(6): 561–5.
43. Del Vecchio G, Giuliani A, Fernandez M, Mesirca P, Bersani F, Pinto R, Ardoino L, Lovisolo GA, Giardino L, Calzà L. Effect of radiofrequency

- electromagnetic field exposure on in vitro models of neurodegenerative disease. *Bioelectromagnetics*. 2009 Oct; 30(7):564-72.
- from ELF and RF studies supporting more inclusive risk identification and assessment. *Pathophysiology*. 2009 Aug; 16(2-3): 205-16.
44. Brescia F, Sarti M, Massa R, Calabrese ML, Sannino A, Scarfì MR. Reactive oxygen species formation is not enhanced by exposure to UMTS 1950 MHz radiation and co-exposure to ferrous ions in Jurkat cells. *Bioelectromagnetics*. 2009 Oct; 30(7): 525-35.
45. Del Vecchio G, Giuliani A, Fernandez M, Mesirca P, Bersani F, Pinto R, Ardoino L, Lovisolo GA, Giardino L, Calzà L. Continuous exposure to 900MHz GSM-modulated EMF alters morphological maturation of neural cells. *Neurosci Lett*. 2009 May 22; 455(3): 173-7.
46. Ruediger HW. Genotoxic effects of radiofrequency electromagnetic fields. *Pathophysiology*. 2009 Aug; 16(2-3): 89-102.
47. Blackman C. Cell phone radiation: Evidence
48. Mousavy SJ, Riazi GH, Kamarei M, Aliakbarian H, Sattarahmady N, Sharifizadeh A, Safarian S, Ahmad F, Moosavi-Movahedi AA. Effects of mobile phone radiofrequency on the structure and function of the normal human hemoglobin. *Int J Biol Macromol*. 2009 Apr 1; 44(3): 278-85
49. Budak GG, Muluk NB, Budak B, Oztürk GG, Apan A, Seyhan N. Effects of intrauterine and extrauterine exposure to GSM-like radiofrequency on distortion product otoacoustic emissions in infant male rabbits. *Int J Pediatr Otorhinolaryngol*. 2009 Mar; 73(3):391-9.
50. Peyman A, Gabriel C, Grant EH, Vermeeren G, Martens L. Variation of the dielectric properties of tissues with age: the effect on the values of SAR in children when exposed to walkie-talkie devices. *Phys Med Biol*. 2009 Jan 21; 54(2): 227-41.

51. Agarwal A, Desai NR, Makker K,  
Varghese A, Mouradi R, Sabanegh E,  
Sharma R.

Effects of radiofrequency  
electromagnetic waves (RF-EMW) from  
cellular phones on human ejaculated  
semen: an in vitro pilot study.  
*Fertil Steril.* 2009 Oct; 92(4):  
1318–25.

## 細胞レベルの実験 参考文献

1. Kheifets L, Repacholi M, Saunders R, van Deventer E. The sensitivity of children to electromagnetic fields. *Pediatrics*. 2005 Aug;116(2): 303-13.
2. Schmiedel S, Brüggemeyer H, Philipp J, Wendler J, Merzenich H, Schüz J. An evaluation of exposure metrics in an epidemiologic study on radio and television broadcast transmitters and the risk of childhood leukemia. *Bioelectromagnetics*. 2009;30(2):81-91.
3. Merzenich H, Schmiedel S, Bennack S, Brüggemeyer H, Philipp J, Blettner M, Schüz J. Childhood leukemia in relation to radio frequency electromagnetic fields in the vicinity of TV and radio broadcast transmitters. *Am J Epidemiol*. 2008 Nov 15;168(10):1169-78.
4. Juutilainen J. Developmental effects of electromagnetic fields. *Bioelectromagnetics*. 2005; Suppl 7: S107-15.
5. WHO. Extremely Low Frequency Fields. Geneva, Switzerland: World Health Organization 2007.
6. Desai NR, Kesari KK, Agarwal A. Pathophysiology of cell phone radiation: oxidative stress and carcinogenesis with focus on male reproductive system. *Reprod Biol Endocrinol*. 2009 Oct 22;7:114.
7. Minelli A, Bellezza I, Conte C, Culig Z. Oxidative stress-related aging: A role for prostate cancer? *Biochim Biophys Acta*. 2009 Apr;1795(2):83-91.
8. Mena S, Ortega A, Estrela JM. Oxidative stress in environmental-induced carcinogenesis. *Mutat Res*. 2009 Mar 31;674(1-2):36-44.
9. Haque S.F., Izumi S., Aikawa H., Suzuki T, Matsubayashi H., Murano T., Kika G., Ikeda M., Goya K., Makino T. Anesthesia and acoustic stress-induced intra-uterine growth retardation in mice *J. Reprod. Dev.* 50, 185-190 (2004)

## 電気生理学的実験の参考文献

1. Bush G, Valera EM, Seidman LJ (2005), Functional neuroimaging of Attention-Deficit/Hyperactivity Disorder: a review and suggested future directions. *Biol Psychiatry* 57:1273-1284.
2. Hamner MB, Lorberbaum JP, George MS (1999), Potential role of the anterior cingulate cortex in PTSD: review and hypothesis. *Depress Anxiety* 9:1-14.
3. Paré, D. (2003) Role of the basolateral amygdala in memory consolidation. *Prog. Neurobiol.*, 70, 409-420.
4. Pliszka SR (2007), Pharmacologic treatment of Attention-Deficit/Hyperactivity Disorder: efficacy, safety and mechanisms of action. *Neuropsychol Rev* 17:61-72.
5. Schlosser RG, Wagner G, Koch K, Dahnke R, Reichenbach JR, Sauer H (2008) Fronto-cingulate effective connectivity in major depression: A study with fMRI and dynamic causal modeling. *Neuroimage*, 15:645-655.
6. Woodward SH, Kaloupek DG, Streeter CC, Martinez C, Schaer M, Eliez S (2006), Decreased anterior cingulate volume in combat-related PTSD. *Biol Psychiatry* 59:582-587.
7. Yucel K, McKinnon MC, Chahal R, Taylor VH, Macdonald K, Joffe R, Macqueen GM (2008), Anterior

cingulate volumes in never-treated patients with major depressive disorder. *Neuropsychopharmacology* 33:3157-3163

## 生殖系への影響の参考文献

### 妊娠マウスへの影響

1. Kheifets L, Repacholi M, Saunders R, van Deventer E. The sensitivity of children to electromagnetic fields. *Pediatrics*. 2005 Aug;116(2): 303-13.
2. Schmiedel S, Brüggemeyer H, Philipp J, Wendler J, Merzenich H, Schüz J. An evaluation of exposure metrics in an epidemiologic study on radio and television broadcast transmitters and the risk of childhood leukemia. *Bioelectromagnetics*. 2009;30(2):81-91.
3. Merzenich H, Schmiedel S, Bennack S, Brüggemeyer H, Philipp J, Blettner M, Schüz J. Childhood leukemia in relation to radio frequency electromagnetic fields in the vicinity of TV and radio broadcast transmitters. *Am J Epidemiol*. 2008 Nov 15;168(10):1169-78.
4. Juutilainen J. Developmental effects of electromagnetic fields. *Bioelectromagnetics*. 2005; Suppl 7: S107-15.
5. WHO. Extremely Low Frequency Fields. Geneva, Switzerland: World Health Organization 2007.
6. Desai NR, Kesari KK, Agarwal A. Pathophysiology of cell phone radiation: oxidative stress and carcinogenesis with focus on male reproductive system. *Reprod Biol Endocrinol*. 2009 Oct 22;7:114.
7. Minelli A, Bellezza I, Conte C, Culig Z. Oxidative stress-related aging: A role for