

## WiFi & Cell Phone Microwave Radiation Dangers - References

Agarwal A., Deepinder F., Sharma R. K., Ranga G. and Li J., 2008, Effect of cell phone usage on semen analysis in men attending infertility clinic: an observational study, *Fertil Steril* 89, 124-128.

Agarwal A., Desai N., Makker K., Varghese A., Mouradi R., Sabanegh E. and Sharma R., 2009, Effects of radiofrequency electromagnetic waves (RF-EMW) from cellular phones on human ejaculated semen: an in vitro pilot study, *Fertility and Sterility* 92, 1318-1325.

Aitken R. J., Bennetts L. E., Sawyer D., Wikiendt A. M. and King B. V., 2005, Impact of radio frequency electromagnetic radiation on DNA integrity in the male germline, *Int J Androl*, 28(3), 171-179.

Amann R. P., 2008, The cycle of seminiferous epithelium in humans: a need to revisit?, *Journal of Andrology*, 29(5), 469-487.

Arendash G. W., Sanchez-Ramos J., Mori T., Mamcarz M., Lin X., Rundfeldt M., Wang L., Zhang G., Sava V., Tan J and Cao C., 2010, Electromagnetic field treatment protects against and reverses cognitive impairment in Alzheimer's disease mice, *J Alzheimers disease* 19, 191-210.

Bas O., Odaci E., Kaplan S., Acer N., Ucok K. and Colakogul S., 2009, 900MHz electromagnetic field exposure affects qualitative and quantitative features of hippocampal pyramidal cells in the adult female rat, *Brain Research*, In Press.

Belyaev I. Y., Hillert L., Protopopova M., Tamm C., Malmgren L. O., Persson B. R., Selivanova G. and Harms-Ringdahl M., 2005, 915MHz microwaves and 50Hz magnetic field affect chromatin conformation and 53BP1 foci in human lymphocytes from hypersensitive and healthy persons, *Bioelectromagnetics* 26(3), 173-184.

Burch J. B., Reif J. S., Noonan C. W., Ichinose T., Bachand A. M., Koleber T. L. and Yost M. G., 2002, Melatonin metabolite excretion among cellular telephone users, *International Journal of Radiation Biology* 78, 1029-1036.

Cao Z., Liu J., Li S. and Zhao X., 2000, Effects of electromagnetic radiation from handsets of cellular telephone on neurobehavioral function, *Wei Sheng Yan Jiu*, 29(2), 102-103.

Celik O. and Hascalik S., 2004, Effect of electromagnetic field emitted by cellular phones on fetal heart rate patterns, *Eur J Obstet Gynecol Reprod Biol* 112(1), 55-56.

Christensen H. C., Schuz J., Kosteljanetz M., et al., 2004, Cellular telephone use and risk of acoustic neuroma, *Am J Epidemiol* 159, 277-283.

Christensen H. C., Schuz J., Kosteljanetz M., et al., 2005, Cellular telephones and risk for brain tumours. A population-based, incident case-control study, *Neurology* 64, 1189-1195.

Cinel C., Boldini A., Russo R., Fox E., 2007, Effects of mobile phone electromagnetic fields on an auditory order threshold task, *Bioelectromagnetics* 28(6), 493-496.

Curcio G., Ferrara M., De Gennaro L., Cristiani R., D'Inzeo G. and Bertini M., 2004, Time-course of electromagnetic field effects on human performance and tympanic temperature, *Neuroreport* 15(1), 161-164.

Davanipour Z. and Sobel E., 2007, Magnetic field exposure: Melatonin production; Alzheimer's disease; Breast cancer, *Bio-initiative Report section 12*, <http://www.bioinitiative.org/> (accessed Aug 2008).

De Iuliis G. N., Newey R. J., King B. V., Aitken R. J., 2009, Mobile phone radiation induces reactive oxygen species production and DNA damage in human spermatozoa in vitro, *PLoS One* 4(7), e6446.

Desai N. R., Kesari K. K. and Agarwal A. (2009) Pathophysiology of cell phone radiation: oxidative stress and carcinogenesis with focus on male reproductive system, *Reproductive Biology and Endocrinology* 7, 114.

de Seze R., Ayoub J., Peray P., Miro L., Touitou Y., 1999, Evaluation in humans of the effects of radiocellular telephones on the circadian patterns of melatonin secretion, a chronobiological rhythm marker, *Journal of Pineal Research* 27, 237-242.

Divan H. A., Kheifets L., Obel C. and Olsen J., 2008, Prenatal and postnatal exposure to cell phone use and behavioural problems in children, *Epidemiology* 19, 523-529.

Eberhardt J., Persson B. R. R., et al., Blood-brain barrier permeability and nerve cell damage in the rat brain 14 and 28 days after exposure to microwaves from GSM mobile phones, manuscript submitted, some data published in Nittby et al., 2008b.

Edelstyn N. and Oldershaw A., 2002, The acute effects of exposure to the electromagnetic field emitted by mobile phones on human attention, *Neuroreport* 13(1), 119-121.

Eliyahu I., Luria R., Hareuyeny R., Margalioth M., Meiran N. and Shani G., 2006, Effects of radiofrequency radiation emitted by cellular telephones on the cognitive functions of humans, *Bioelectromagnetics* 27(2), 119-126.

Erdinc O. O., Baykul M. C., Ozdemir O., Ozkan S., Sirmagul B., Oner S. D. and Ozdemir G., 2003, Electromagnetic waves of 900MHz in acute pentylene tetrazole model in ontogenesis in mice, *Neurol Sci* 24, 111-116.

Erogul O., Oztas E., Tildirim I., Kir T., Aydur E., Komesli G., Irkilata H. C., Irmak M. K. and Peker A. F., 2006, Effects of electromagnetic radiation from a cellular phone on human sperm motility: an in vitro study, *Archives of Medical Research* 37, 840-843.

Falzone N., Huyser C., Fourie F., Toivo T., Leszczynski D. and Franken D., 2008, In vitro effect of pulsed 900MHz radiation on mitochondrial membrane potential and motility of human spermatozoa, *Bioelectromagnetics* 29, 268-276.

Fejes I., Zaivaczki Z., Szallosi J., Koloszair S., Daru J., Kovaics L. and Pail A., 2005, Is there a relationship between cell phone use and semen quality?, *Arch Androl* 51, 385-393.

Fragopoulou A. F., Miltiadous P., Stamatakis A., Stylianopoulou F., Koussoulakos S. L. and Margaritis L. H., 2009, Whole body exposure with GSM 900MHz affects spatial memory in mice *Pathophysiology*, Epub ahead of print.

Garaj-Vrhovac V. and Orescanin V., 2008, Assessment of DNA sensitivity in peripheral blood leukocytes after occupational exposure to microwave radiation: the alkaline comet assay and chromatid breakage assay, *Cell Biol Toxicol*, Online first (53).

Gul A., Celebi H. and Ugras S. (2009) The effects of microwave emitted by cellular phones on ovarian follicles in rats, *Arch Gynecol Obstet* 280, 729-733.

Haarala C., Takio F., Rintee T., Laine M., Koivisto M., Revonsuo A. and Hamalainen H., 2007, Pulsed and continuous wave mobile phone exposure over left versus right hemisphere: effects on human cognitive function, *Bioelectromagnetics* 28(4), 289-295.

Hardell L., Hansson Mild K., Pahlson A. and Hallquist A., 2001, Ionizing radiation, cellular telephones and the risk for brain tumours, *Eur J Cancer Prev* 10, 523-529.

Hardell L., Carlberg M. and Mild K H., 2006a, Pooled analysis of two case-control studies on use of cellular and cordless telephones and the risk for malignant brain tumours diagnosed in 1997-2003, *Int Arch Occup Environ Health* 79, 630-639.

Hardell L., Carlberg M., Hansson Mild K., 2006b, Pooled analysis of two case-control studies on use of cellular and cordless telephones and the risk for benign brain tumours diagnosed in 1997-2003, *Int J Oncol* 28, 509-518.

Hardell L., Hansson Mild K. and Kundi M., 2007a, Evidence for brain tumors and acoustic neuromas, *Bio-Initiative report section 10*.

Hardell L., Carlberg M., Soderqvist F., Hansson Mild K. and Morgan L L., 2007b, Long-term use of cellular phones and brain tumours: increased risk associated with use for >10 years, *Occup Environ Med* 64, 626-632.

Hepworth S J., Schoemaker M. J., Muir K. R., et al., 2006, Mobile phone use and risk of glioma in adults: case-control study, *BMJ* 332, 883-887.

Hook G. J., Zhang P., Lagroye I., Li L., Higashikubo R., Moros E. G., Straube W. L., Pickard W. F., Baty J. D. and Roti Roti J. L., 2004, Measurement of DNA damage and apoptosis in Molt-4 cells after in vitro exposure to radiofrequency radiation, *Radiation Research* 161(2), 193-200.

ICNIRP, 1998, Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). *Health Physics* 74 (4), 494-522, <http://www.icnirp.de/PubEMF.htm> (accessed Aug 2008).

Jarupat S., Kawabata A., Tokura H. and Borkiewicz A., 2003, Effects of the 1900MHz electromagnetic field emitted from cellular phone on nocturnal melatonin secretion, *Journal of Physiol Anthropol* 22, 61-63.

Kesari K. K. and Behari J., 2009, Microwave exposure affecting reproductive system in male rats, *Appl Biochem Biotechnol*, In Press, DOI 10.1007/s12010-009-8722-9.

Koylu H., Mollaoglu H., Ozguner F., Nazyroolu M., and Delibap N., 2006, Melatonin modulates 900MHz microwave-induced lipid peroxidation changes in rat brain, *Toxicol Ind Health* 22(5), 211-216.

Krause C. M., Pesonen M., Haarala Bjarnberg C., and Hamalainen H., 2007, Effects of pulsed and continuous wave 902 MHz mobile phone exposure on brain oscillatory activity during cognitive processing, *Bioelectromagnetics* 28(4), 296-308.

Lahkola A., Auvinen A., Raitanen J., et al., 2007, Mobile phone use and risk of glioma in 5 North European countries, *Int J Cancer*, 120, 1769-1775.

Lai H., 1994, Evidence for effects on Neurology and Behavior, Prepared for the Bio-Initiative Working Group, <http://www.bioinitiative.org/> (accessed Aug 2008).

Lai H., 2007a, Evidence for effects on neurology and behaviour, Bio-Initiative Report, Section 9, [http://www.bioinitiative.org/report/docs/section\\_9.pdf](http://www.bioinitiative.org/report/docs/section_9.pdf) (accessed Aug 2008).

Lai H., 2007b, Evidence for Genotoxic effects (RFR and ELF genotoxicity), Bio-Initiative Report Section 6, [http://www.bioinitiative.org/report/docs/section\\_6.pdf](http://www.bioinitiative.org/report/docs/section_6.pdf) (accessed Aug 2008).

Lai H. and Singh N. P., 1997, Melatonin and a spin-trap compound block radiofrequency electromagnetic radiation-induced DNA strand breaks in rat brain cells, *Bioelectromagnetics* 18(6), 446-454.

Lee et T. M., Lam P. K., Yee L. T., Chan C. C., 2003, The effect of the duration of exposure to the electromagnetic field emitted by mobile phones on human attention, *Neuroreport* 14(10), 1361-1364.

Li M., Wang Y., Zhang Y., Zhou Z. and Yu Z., 2008, Elevation of plasma corticosterone levels and hippocampal glucocorticoid receptor translocation in rats: a potential mechanism for cognition impairment following chronic low-power-density microwave exposure, *J. Radiat Res* 49(2), 163-170.

Liu X. Y., Bian X. M., Han J. X., Cao Z. J., Fan G. S., Zhang C., Zhang W. L., Zhang S. Z. and Sun X. G., 2007, Risk factors for the living environment of early spontaneous abortion in pregnant women, *Zhongguo Yi Xue Ke Xue Yuan Xue Bao*, 29(5), 661-664.

Lonn S., Ahlbom A., Hall P., et al., 2004, Mobile phone use and the risk of acoustic neuroma, *Epidemiology* 15, 653-659.

Lonn S., Ahlbom A., Hall P., et al., 2005, Long-term mobile phone use and brain tumour risk, *Am J Epidemiol* 161, 526-535.

Lopez-Martin E., Relova-Quinteiro J. L., Gallego-Gomez R., Peleteiro-Fernandez M., Jorge-Barreiro F. J. and Ares-Pena F. J., 2006, GSM radiation triggers seizures and increases cerebral c-fos positivity in rats pretreated with subconvulsive doses of picrotoxin, *Neuroscience Letters* 398, 139-144.

Maby E., Le Bouquin R. and Faucon G., 2006, Short-term effects of GSM mobile phones on spectral components of the human electroencephalogram, *Proceedings of the 28th IEEE EMBS Annual International Conference* 1, 3751-3754.

Maier R., Greter S.-E., Maier N., 2004, Effects of pulsed electromagnetic fields on cognitive processes - a pilot study on pulsed field interference with cognitive regeneration, *Acta Neurol Scand* 110, 46-52.

Mann K., Wagner P., Brunn G., Hassan F., Heimke C. and Roschke J., 1998, Effects of pulsed high-frequency electromagnetic fields on the neuroendocrine system, *Clinical Neuroendocrinology* 67, 139-144.

Mashevich M., Folkman D., Kesar A., Barbul A., Korenstein R., Jerby E. and Avivi L., 2003, Exposure of human peripheral blood lymphocytes to electromagnetic fields associated with cellular phones leads to chromosomal instability, *Bioelectromagnetics* 24, 82-90.

Nakamura H., Nagasa H., Ogino K., Hatta K. and Matsuzaki I., 2000, Uteroplacental circulatory disturbance mediated by prostaglandin F2alpha in rats exposed to microwaves, *Reproductive Toxicol* 14, 235-240.

Nakamura H., Matsuzaki I., Hatta K., Nobukuni Y., Kambayashi Y. and Ogino K., 2003, Nonthermal effects of mobile-phone frequency microwaves on uteroplacental functions in pregnant rats, *Reproductive Toxicol* 17, 321-326.

Narayanan S. N., Kumar R. S., Potu B. K., Nayak S. and Mailankot M., 2009, Spatial memory performance of wistar rats exposed to mobile phone, *Clinics* 64(3), 231-234.

Nittby H., Grafstrom G., Tian D. P., Malmgren L., Brun A., Persson B. R. R., Salford L. G. and Eberhardt J., 2008a, Cognitive impairment in rats after long-term exposure to GSM-900 mobile phone radiation, *Bioelectromagnetics* 29, 219-232.

Nittby, H., Grafstrom G., Eberhardt J. L., Malmgren L., Brun A., Persson B. R. R. and Salford L. G. (2008b) Radiofrequency and extremely low-frequency electromagnetic field effects on the blood-brain barrier, *Electromagnetic Biology and Medicine*, 27, 103-126.

Odaci E., Bas O. and Kaplan S., 2008, Effects of exposure to a 900MHz electromagnetic field on the dentate gyrus: a stereological and histopathological study, *Brain Research* 1238, 224-229.

Otitolaju A. A., Obe I. A., Adewale O. A., Otubanjo O. A. and Osunkalu V. O., 2009, Preliminary study on the induction of sperm head abnormalities in mice, *Mus musculus*, exposed to radiofrequency radiations from Global System for Mobile Communication Base Stations, *Bull Environ Contam Toxicol*, In Press.

Ouellet-Hellstrom R. and Stewart W. F., 1993, Miscarriages among female physical therapists who report using radio- and microwave-frequency electromagnetic radiation, *Am J Epidemiol* 138(10), 775-786.

Ozguner F., Bardak Y. and Comlekci S., 2006, Protective effects of melatonin and caffeic acid phenyl ester against retinal oxidative stress in long-term use of mobile phone: a comparative study, *Mol Cell Biochem* 282(1-2), 83-88.

Pandi-Perumal S. R., Trakht I., Srinivasan V., Spence D. W., Maestroni G. J. M., Zisapel N. and Cardinali D. P., 2008, Physiological effects of melatonin: role of melatonin receptors and signal transduction pathways, *Progress in Neurobiology* 85, 335-353.

Persson B. R. R., Salford L. G. and Brun A., 1997, Blood-brain barrier permeability in rats exposed to electromagnetic fields used in wireless communication, *Wireless Networks* 3, 455-461.

Phillips J. L., Ivaschuk O., Ishida-Jones T., Jones R. A., Campbell-Beachler M. and Haggren W., 1998, DNA damage in Molt-4 T-lymphoblastoid cells exposed to cellular telephone radiofrequency fields in vitro, *Bioelectrochemistry and Bioenergetics* 45, 103-110.

Powerwatch, 2007, Philips, A., Public Exposure levels from WiFi systems 10/12/2007, [http://www.powerwatch.org.uk/pdfs/20071210\\_wifi\\_signals.pdf](http://www.powerwatch.org.uk/pdfs/20071210_wifi_signals.pdf) (accessed Aug 2008).

Pyrpasopoulou A., Kotoila V., Cheva A., Hytiroglou P., Nikolakaki E., Magras I., Xenos T. D., Tsiboukis T. D., Karkavelas G., 2004, Bone morphogenic protein expression in newborn kidneys after prenatal exposure to radiofrequency radiation, *Bioelectromagnetics* 25, 216-227.

Radon K., Parera D., Rose D.-M., Jung D. and Vollrath L., 2001, No effects of pulsed radio frequency electromagnetic fields on melatonin, cortisol, and selected markers of the immune system in man, *Bioelectromagnetics* 22, 280-287.

Rezk A. Y., Abdulqawi K., Mustafa R. M., Abo El-Azm T. M. and Al-Inany H., 2008, Fetal and neonatal responses following maternal exposure to mobile phones, *Saudi Med J* 29(2), 218-223.

Riddervold I. S., Pedersen G. F., Andersen N. T., Pedersen A. D., Andersen J. B., Zachariae R., Malhave L., Sigsgaard T. and Kjaergaard S. K., 2008, Cognitive function and symptoms in adults and adolescents in relation to rf radiation from UMTS base stations, *Bioelectromagnetics* 29(4), 257-267.

Sage C. L., 2007, Evidence for breast cancer promotion (melatonin studies in cells and animals), Bio-Initiative Report section 13, <http://www.bioinitiative.org> (accessed Aug 2008).

Salama N., Kishimoto T. and Kanayama H., 2008, Effects of exposure to a mobile phone on testicular function and structure in adult rabbit, *International Journal of Andrology*, Epub ahead of print.

Salama N., Kishimoto T., Kanayama H. and Kagawa S. (2009) Mobile phone decreases fructose but not citrate in rabbit semen: a longitudinal study, *Systems Biology in Reproductive Medicine* 55, 181-187.

Salford L. G., Brun A. E., Eberhardt J. L., Malmgren L. and Persson B. R. R., 2003, Nerve cell damage in mammalian brain after exposure to microwaves from GSM mobile phones, *Environ Health Perspect* 111, 881-883.

Schoemaker M. U., Swerdlow A. J., Ahlbom A., et al., 2005, Mobile phone use and risk of acoustic neuroma: results of the Interphone case-control study in five North European countries, *Br J Cancer* 93, 842-848.

Schuz J., Bohler E., Berg G., et al., 2006, Cellular phones, cordless phones, and the risks of glioma and meningioma (Interphone study group, Germany), *Am J Epidemiol* 163, 512-520.

Smythe J. W. and Costall B., 2003, Mobile phone use facilitates memory in male, but not female, subjects, *Neuroreport* 14(2), 243-246.

Sokolovic D., Djindjic B., Nikolic J., Bielakovic G., Pavlovic D., Kocic G., Krstic D., Cvetkovic T. and Pavlovic V., 2008, Melatonin reduces oxidative stress induced by chronic exposure to microwave radiation from mobile phones in rat brain, *Journal of Radiation Research* 49, In Press.

Terao Y., Okano T., Furubayashi T., Yugeta A., Inomata-Terada S. and Ugawa Y., 2007, Effects of thirty-minute mobile phone exposure on saccades, *Clin Neurophysiol* 118, 1545-1556.

Valbonesi P., Franzellitti S., Piano A., Contin A., Biondi C. and Fabbri E., 2008, Evaluation of HSP70 expression and DNA damage in cells of a human trophoblast cell line exposed to 1.8GHz amplitude-modulated radiofrequency fields, *Radiation Research* 169(3), 270-279.

Vijayalaxmi, Sasser L. B., Morris J. E., Wilson B. W. and Anderson L. E., 2003, Genotoxic potential of 1.6GHz wireless communication signal: in vivo two-year bioassay, *Radiation Research* 159(4), 558-564.

Wdowiak A., Wdowiak L. and Wiktor H., 2007, Evaluation of the effect of using mobile phones on male fertility, *Ann Agric Environ Med* 14, 169-172.

Wood A. W., Loughran S. P. and Stough C., 2006, Does evening exposure to mobile phone radiation affect subsequent melatonin production? *International Journal of Radiation Biology* 82(2), 69-76.

Yariktas M., Doner F., Ozguner F., Gokalp O., Dogru H. and Delibas N., 2005, Nitric oxide level in the nasal and sinus mucosa after exposure to electromagnetic field, *Otolaryngol Head Neck Surg* 132(5), 713-716.

Zeni O., Schiavoni A., Perrotta A., Forigo D., Deplano M. and Scarfi M. R., 2008, Evaluation of genotoxic effects in human leukocytes after in vitro exposure to 1950MHz UMTS radiofrequency field, *Bioelectromagnetics* 29(3), 177-184.

Zhu Y., Gao F., Yang X., Shen H. and Liu W., 2008, The effect of microwave emission from mobile phones on neuron survival in rat central nervous system, *Progress in Electromagnetics Research* 82, 287-298.