



Recent scientific publications relevant to mobile telephony

December 2009

Details

Denmark: Time Trends in Brain Tumor Incidence Rates in Denmark, Finland, Norway, and Sweden, 1974-2003, [Deltour et al., Journal of the National Cancer Institute](#), Published Online: December 3, 2009.

'...No change in incidence trends were observed from 1998 to 2003, the time when possible associations between mobile phone use and cancer risk would be informative about an induction period of 5-10 years.'

France: Occupational and environmental risk factors for brain cancer: a pilot case-control study in France, [Spinelli et al., La Presse Médicale](#), Available online 4 December 2009.

'...Risk was... significantly lower among those residing near cellular telephone towers...Several new hypotheses about the effects of cellular telephone towers and chemical exposure merit further analytic studies.'

Germany: Exposure to radio-frequency electromagnetic fields and behavioural problems in Bavarian children and adolescents, [Thomas et al., European Journal of Epidemiology](#), Published Online: December 03, 2009.

'...measured exposure to RF fields in the highest quartile was associated to overall behavioural problems for adolescents...more studies using personal dosimetry are warranted to confirm these findings.'

Germany: Heavy metal exposure in patients suffering from electromagnetic hypersensitivity, [Ghezal-Ahmadi et al., Science of The Total Environment](#), Available online 22 November 2009.

'...Our results show that heavy metal load is of no concern in most cases of EHS but might play a role in exceptional cases...'

Greece: Whole body exposure with GSM 900 MHz affects spatial memory in mice, [Fragopoulou et al., Pathophysiology](#), Available online 1 December 2009.

'...exposed mice had deficits in consolidation and/or retrieval of the learned spatial information. Our results provide a basis for more thorough investigations...'

Italy: Absence of Short-Term Effects of UMTS Exposure on the Human Auditory System, [Parazzini et al., Radiation Research](#), preprint(2009):0000-0000, Published on line: November 19, 2009.

'...It is concluded that short-term UMTS exposure at this relatively high SAR does not cause measurable immediate effects on the human auditory system.'

Japan: Effects of exposure to a mobile phone on sexual behavior in adult male rabbit: an observational study, [Salama et al., International Journal of Impotence Research](#), Online publication: 26 November 2009.

'...the pulsed radiofrequency emitted by a conventional MP, which was kept on a standby position, could affect the sexual behavior in the rabbit.'

Japan: The Mobile Phone Decreases Fructose But Not Citrate in Rabbit Semen: A Longitudinal Study, [Salama et al., Systems Biology in Reproductive Medicine](#), 55(5-6):181-187, December 2009.

'...the pulsed radio frequency emitted by the mobile phone kept in the standby position longitudinally affected sperm motility and fructose but not citrate levels in rabbit semen.'

Japan: Computational dosimetry in embryos exposed to electromagnetic plane waves over the frequency range of 10 MHz–1.5 GHz, [Kawai et al., Physics in Medicine and Biology](#), 55(1):N1-N11, 7 January 2010.

'...The results indicate that the maximum average SAR in the embryos exposed to plane waves is lower than 0.08 W kg⁻¹ when the incident power density is at the reference level of ICNIRP guideline for general public environment.'

Turkey: Effect of Mobile Phone Exposure on Apoptotic Glial Cells and Status of Oxidative Stress in Rat Brain, [Dasdag et al., Electromagnetic Biology and Medicine](#), 28(4):342 - 354, December 2009.

'...the final score for apoptosis, total antioxidant capacity and catalase in rat brain might be altered by 900 MHz radiation produced by a generator to represent exposure of global systems for mobile communication (GSM) cellular phones.'

USA: Qualitative Effect on mRNAs of Injury-Associated Proteins by Cell Phone Like Radiation in Rat Facial Nerves, [Yan et al., Electromagnetic Biology and Medicine](#), 28(4):383 - 390, December 2009.

'...All four mRNA up regulations for the mandibular nerve and two for the buccal nerve were also statistically significant. These specific injury-related findings were mild...'

The MMF is an international association of wireless communications manufacturers established to support scientific research in relation to mobile telephony and health www.mmfai.info

The GSM Association (GSMA) is the global trade association that exists to promote, protect and enhance the interests of GSM mobile operators throughout the world. <http://www.gsmworld.com/health>

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