Recent scientific publications relevant to mobile telephony

August 2008

Details


‘...The obtained electric field values correspond very well for the different settings and are compared with the reference levels for the general public and those for occupational exposure...’


‘...The positive findings may be due to chance, but they may also reflect effects that occur only in cells sensitized by chemical stress. Further studies are required to investigate the reproducibility and dose response of the possible effects.'

France: Exposure to GSM 900 MHz electromagnetic fields affects cerebral cytochrome c oxidase activity, Ammari et al., Toxicology, 250(1):70-74, 19 August 2008.

‘...the exposure to GSM at 1.5 W/Kg did not affect brain activity. Our results indicate that 6 W/Kg GSM 900 MHz microwaves may affect brain metabolism and neuronal activity in rats.'

Germany: Applicability Of An Exposure Model For The Determination Of Emissions From Mobile Phone Base Stations, Breckenkamp et al., Radiation Protection Dosimetry, Published Online: 2 August 2008.

‘...The present results show only a weak agreement of calculations and measurements...Thus, the model can only be applied in epidemiological studies, when the uncertainty of the input data is considerably reduced...’


‘... The report ends with an estimate of the exposure of workers to electromagnetic fields and also some recommendations for reducing risk'

...The usefulness of the approach has been demonstrated at the 800-MHz band and the 1.5-GHz band, and the results have shown that by using a fast sampling rate, 1-min APD measurements could give a good estimate of the 6-min time average with an accuracy of within 10%.

**South Korea:** Local exposure of 849 MHz and 1763 MHz radiofrequency radiation to mouse heads does not induce cell death or cell proliferation in brain, Kim et al., Experimental and Molecular Medicine, 40(3):294-303, 30 June 2008.

...'we conclude that the chronic exposure to 849 MHz and 1763 MHz RF radiation at a 7.8 W/kg specific absorption rate (SAR) could not induce cellular alterations such as proliferation, death, and reactive gliosis.'

**UK:** Modelling the interaction of electromagnetic fields (10 MHz–10 GHz) with the human body: methods and applications, Hand, Physics in Medicine & Biology, 53(16):R243-R286, 24 July 2008.

...'applications in the areas of mobile communications, magnetic resonance imaging, hyperthermal therapy and microwave radiometry are highlighted. Finally, examples of modelling the potentially new medical applications of recent technologies such as ultra-wideband microwaves are discussed.'

**USA:** Upregulation of Specific mRNA Levels in Rat Brain After Cell Phone Exposure, Yan et al., Electromagnetic Biology and Medicine, 27(2):147 - 154, June 2008.

...'These results indicate that relative chronic exposure to cell phone microwave radiation may result in cumulative injuries that could eventually lead to clinically significant neurological damage.'

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. www.gsmworld.com

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