



Recent scientific publications relevant to mobile telephony

## January 2010

### Details

**China:** STAT3 signalling pathway is involved in the activation of microglia induced by 2.45 GHz electromagnetic fields, [Hao et al., International Journal of Radiation Biology](#), 86(1):27-36, January 2010.

*'...These results provide evidence that EMF exposure can initiate the activation of microglia cells and STAT3 signalling involves in EMF-induced microglial activation.'*

**Germany:** Biological monitoring of non-thermal effects of mobile phone radiation: recent approaches and challenges, [Gaestel, Biological Reviews](#), Published Online: 15 Dec 2009.

*'...positive results must be confirmed by independent quantitative methods and should also be evaluated in vivo to prove possible non-thermal effects of RF-EMFs on living beings...'*

**Germany:** German wide cross sectional survey on health impacts of electromagnetic fields in the view of general practitioners, [Kowall et al., International Journal of Public Health](#), Published Online: December 18, 2009.

*'...About a third of German GPs associate EMF with health complaints and thus deviate considerably from current scientific knowledge...'*

**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<sup>-1</sup> when the incident power density is at the reference level of ICNIRP guideline for general public environment.'*

**Norway:** Cytogenetic Effects of Exposure to 2.3 GHz Radiofrequency Radiation on Human Lymphocytes In Vitro, [Hansteen et al., Anticancer Research](#), 29(11):4323-4330, November 2009.

*'...Exposure during the whole cell cycle in inhibited cultures did not result in significant differences in chromosomal aberrations as compared to controls.'*

**Spain:** The incidence of electromagnetic pollution on wild mammals: A new "poison" with a slow effect on nature?, [Balmori, The Environmentalist](#), Published Online: November 28, 2009.

*'...Physical and technological characteristics of mobile telephone and phone masts, the scientific discoveries that are of interest in the study of their effects'*

*on the wildlife, action mechanisms on biological systems and experimental difficulties are described...'*

**USA:** Mobile-phone pulse triggers evoked potentials, [Carrubba et al., Neuroscience Letters](#), 469(1): 164-168, 18 January 2010.

*'...Evoked potentials having the expected latency were found in 90% of the volunteers, as assessed using a nonlinear method of EEG analysis. Evoked potentials were not detected when the EEG was analyzed using time averaging...'*

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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](http://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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