



*Recent scientific publications relevant to mobile telephony*

## **April 2008**

### **Details**

**Austria:** A meta-analysis for neurobehavioural effects due to electromagnetic field exposure emitted by GSM mobile phones, [Barth et al.](#), *Occupational and Environmental Medicine*, 65(5):342-346, May 1, 2008.

*'...Results of the meta-analysis suggest that EMFs may have a small impact on human attention and working memory.'*

**France:** Variability analysis of SAR from 20 MHz to 2.4 GHz for different adult and child models using finite-difference time-domain, [Conil et al.](#), *Physics in Medicine & Biology*, 53(6):1511-1525, 22 February 2008.

*'...Results show that for adults, compliance with reference levels ensures compliance with basic restrictions, but concerning children models involved in this study, the whole-body-averaged SAR goes over the fundamental safety limits up to 40%.'*

**Germany:** Personal exposure to mobile phone frequencies and well-being in adults: A cross-sectional study based on dosimetry, [Thomas et al.](#), *Bioelectromagnetics*, Published Online: 4 April 2008.

*'... We did not find any statistically significant association between the exposure and chronic symptoms or between the exposure and acute symptoms. Larger studies using mobile phone dosimetry are warranted to confirm these findings.'*

**Germany:** Cognitive and neurobiological alterations in electromagnetic hypersensitive patients: results of a case-control study, [Landgrebe et al.](#), *Psychological Medicine*, Published online: 26 March 2008.

*'... These results demonstrate significant cognitive and neurobiological alterations pointing to a higher genuine individual vulnerability of electromagnetic hypersensitive patients.'*

**Japan:** Microwave irradiation induces neurite outgrowth in PC12m3 cells via the p38 mitogen-activated protein kinase pathway, [Inoue et al.](#), *Neuroscience Letters*, 432(1):35-39, February 2008.

*'...These findings indicate that p38 MAPK is responsible for the survival of PC12m3 cells and might induce neurite outgrowth via a CREB signaling pathway when subjected to microwave irradiation.'*

**South Korea:** Methods of evaluating human exposure to electromagnetic fields radiated from operating base stations in Korea, [Kim et al.](#), *Bioelectromagnetics*, Published Online: 15 Apr 2008.

*'...When performing an in situ measurement, compliance with human exposure limits is determined by the spatially averaged field value obtained within the space occupied by humans at one arbitrary position, but when performing an electromagnetic environment measurement, it is determined by the maximum value at the highest field position selected from several places.'*

**Sweden:** Biological effects from electromagnetic field exposure and public exposure standards, [Hardell et al., Biomedicine & Pharmacotherapy](#), 62(2):104-109, February 2008.

*'...A precautionary limit should be adopted for outdoor, cumulative RF exposure and for cumulative indoor RF fields with considerably lower limits than existing guidelines, see the BioInitiative Report...'*

**Sweden:** Meta-analysis of long-term mobile phone use and the association with brain tumours, [Hardell et al., International Journal of Oncology](#), 32(5):1097-1103, May 2008.

*'...We conclude that this meta-analysis gave a consistent pattern of an association between mobile phone use and ipsilateral glioma and acoustic neuroma using  $\geq 10$ -years latency period.'*

**Switzerland:** Radiofrequency electromagnetic field exposure and non-specific symptoms of ill health: A systematic review, [Röösli, Environmental Research](#), Available online 21 March 2008.

*'...This review showed that the large majority of individuals who claims to be able to detect low level RF-EMF are not able to do so under double-blind conditions. If such individuals exist, they represent a small minority and have not been identified yet...'*

**UK:** Calculated SAR distributions in a human voxel phantom due to the reflection of electromagnetic fields from a ground plane between 65 MHz and 2 GHz, [Findlay et al., Physics in Medicine & Biology](#), 53(9):2277-2289, 7 May 2008.

*'... It was found that in all configurations studied, the ICNIRP reference levels and IEEE MPEs provided a conservative estimate of these restrictions.'*

**UK:** Exposure to Mobile Phone Electromagnetic Fields and Subjective Symptoms: A Double-Blind Study, [Cinel et al., Psychosomatic Medicine](#), 70(3):345-348, April 1, 2008.

*'...We did not find consistent evidence suggesting that exposure to mobile phone REFs affect subjective symptoms...'*

---

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. [www.gsmworld.com](http://www.gsmworld.com)

*Disclaimer: The views expressed in the abstracts mentioned in this document are those of the authors and do not necessarily reflect the views of either the MMF or GSMA.*

*If you are aware of an article published this month that isn't mentioned here please email [articles@mmfai.info](mailto:articles@mmfai.info)*