

Announcement for the International Scientific Workshop

„Open Questions in the Research on Biological and Health Effects of Low-Intensity RF-EMF.“

Organized by the Forschungsgemeinschaft Funk e.V. (FGF, Research Association for Radio Applications), and the Umweltministerium (Ministry of Environment) Baden/Württemberg

Stuttgart, Tagungshotel der Telekom, **November 17th, 10:00h – November 19th, 16:00h**, 2008

A lot of research has been done in the last years on the possible and real effects of radiofrequency electromagnetic fields (RF-EMF) on biological matter – in most cases due to considerations of potential health impacts of cell phones and other mobile communication devices. Many national and international projects have been finished in the meantime. The results are rather an “all-clear”, however, some controversial results remain and also some open questions.

This workshop aims to pick up several of these open questions, to discuss their relevance and the progress in research, and to try to give a guideline how to proceed in this field of research. For this reason only two to four invited presentations per topic will be given, most time is reserved for discussion.

First day:

1. Are children (and other “specific groups”) at higher risk?

Since our last workshop on this topic in 2006 some new results came up: What has been achieved, and what is still to be done?

2. Can animal studies of one or more generations be considered as "long-term" studies? Is thermal regulation a mechanism that has to be taken into account at exposures below the guidelines?

Second day:

3. Are there indications of RF-effects in *in vitro* experiments?

4. Microdosimetry: Are microthermal effects possible and effective in heterogeneous subcellular media, e.g. in double layers?

Third day:

5. Final Discussion: “What is necessary to solve the open questions, and what in fact needs to be solved?”

Registration:

If you are interested to participate, please send an email to:
Lutz Haberland, Forschungsgemeinschaft Funk e.V., haberland@fgf.de.

There is **no** registration fee, however, the number of participants is limited to 55 people.

Deadline for Registration: Tuesday, **September 30th**, 2008

Accommodation:

The organizers have blocked rooms in the Tagungshotel Stuttgart from Sunday, Nov. 16th to Wednesday, Nov. 19th. **Please indicate in your registration whether you want to use this offer.** Room rates per night, including breakfast, for a single room are 73 €, and 52 € for Sunday night, respectively. Additionally, a conference package for 24.30 € per day including coffee and tea, beverages, biscuits, and lunch has to be paid at departure.

Some references:

Boheim et al. EM Field Sensor in Cell Membranes (Influence of EMF on artificial membranes). http://www.fgf.de/english/research_projects/in-vitro_studies.html, Presentation in Rostock 2006: <http://www.cost281.org/download.php?fid=986>

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Friedman J, Kraus S, Hauptman Y, Schiff Y, Seger R. Mechanism of short-term ERK activation by electromagnetic fields at mobile phone frequencies. *Biochem J.* 2007 Aug 1;405(3):559-68

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Kumlin T, Iivonen H, Miettinen P, Juvonen A, van Groen T, Puranen L, Pitkäaho R, Juutilainen J, Tanila H. Mobile phone radiation and the developing brain: behavioral and morphological effects in juvenile rats. *Radiat Res.* 2007 Oct;168(4):471-9

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Simeonova M, Gimsa J. The influence of the molecular structure of lipid membranes on the electric field distribution and energy absorption. *Bioelectromagnetics.* 2006 Dec;27(8):652-66

Sommer AM, Bitz AK, Streckert J, Hansen VW, Lerchl A. Lymphoma development in mice chronically exposed to UMTS-modulated radiofrequency electromagnetic fields. *Radiat Res.* 2007 Jul;168(1):72-80

Wart J, Hadjem A, Wong MF, Bloch I. Analysis of RF exposure in the head tissues of children and adults. *Phys Med Biol.* 2008 Jul 7;53(13):3681-95.