

Organizer:

Federal Office for Radiation Protection
 P.O. Box 10 01 49
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 Germany
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Venue:

Hotel am Schlosspark
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How to get thereFrom the airport:

Take the suburban railway **S-Bahn** (line **S8**) direction Geltendorf until **Ismaning**. From Ismaning station the hotel is within walking distance (approximately 10 min, see below).

From Central Station:

Take the suburban railway **S-Bahn** (line **S8**) direction Munich Airport until **Ismaning**. From Ismaning station the hotel is within walking distance (approximately 10 min, see below).

Location:

The Hotel am Schlosspark is located in Ismaning, a small community in the north of Munich.
Distance from city centre approximately 15 km.
Distance from airport approximately 18 km.



German Mobile Telecommunication Research Programme

International Workshop on Action Mechanisms

Munich, May 9 – 10 2007



German Mobile Telecommunication Research Programme

International Workshop on Action Mechanisms

Background

The Federal Office for Radiation Protection (BfS) is currently running the **German Mobile Telecommunication Research Programme**. A total of about 50 research projects are carried out in the areas of

- dosimetry
- biology
- epidemiology and
- risk communication.

Most of the projects are expected to be finalized in 2007. The results will be presented and discussed in the context of the current scientific knowledge at international workshops hosted by the BfS in Munich. Detailed information on the Research Programme and on the single projects can be found at the programme website www.emf-forschungsprogramm.de

Objective

The aim of this workshop is to discuss the results of the **projects on biological action mechanisms** conducted within the research programme. For further information on the projects see:

<http://www.emf-forschungsprogramm.de/forschung>

Programme

Wednesday, 9th May

Rapporteur: Dr. Vijjalaxmi

10:30 Welcome by BfS and BMU

Session 1 Function

11.00 Genotoxic effects of HF-signals on human cells *in vitro*
(P. Waldmann, D. Pollet)

11.45 Influence of GSM-signals on cell specific functions of immune relevant cells
(M. Simkó)

12:30 Panel discussion to session 1

13:00 Lunch break 13:00 – 14:00

Session 2 Gene expression

14.00 Effects of HF-signals on the melatonin synthesis in isolated pineal organs of Djungarian Hamsters (A. Lerchl)

14:45 Influence of GSM-signals on differential gene expression in isolated human blood cells – first results (R. Halter)

15.30 Coffee break

16.00 Effects of mobile phone signals (GSM and UMTS) on the blood-brain barrier *in vitro*
(H. Franke)

16:45 Panel discussion to session 2

17:15 End of Day 1

Programme

Thursday, 10th May

Rapporteur: Dr. Vijjalaxmi

Session 3 Sensory systems

9:30 Effects of HF-signals on retinal ganglion cell activity. (J. Ammermüller)

10.15 Effects of HF signals on Ca²⁺ channel currents in mature mouse inner hair cells (J. Engel)

11.00 Panel discussion to session 3

11.30 Lunch break

Session 4 Action mechanisms

12.45 Dielectric properties of tissues and cells. (A. Loidl)

13.30 Demodulation of HF-signals in tissue and cells. (J. Gimsa)

14:15 Panel discussion to session 4

14:45 Final Discussion

15.15 Close of Workshop