

## **Poster Sessions**

Poster sessions will take place in the main lecture hall ("Conference Room"). All posters should be mounted prior to the first poster session on Monday, March 31, 2008, 11:40 am. The presentations will be organized according to the even and odd numbers of the posters (see overview) and each poster will be presented twice in the course of the conference.

## **Poster Size**

Poster size: 1.10 m (width) x 1.4 m (height)

## **Schedule**

### **Poster presentation I:**

*Monday, March 31, 2008, 11:40 am - 1:00 pm*

Demonstration of posters with even numbers

### **Poster presentation II:**

*Monday, March 31, 2008, 5:00 pm - 6:20 pm*

Demonstration of posters with odd numbers

### **Poster presentation III:**

*Tuesday, April 1, 2008, 11:30 am - 12:15 pm*

Demonstration of posters with even numbers

### **Poster presentation IV:**

*Tuesday, April 1, 2008, 12:15 pm - 1:00 pm*

Demonstration of posters with odd numbers

## **Overview**

**Poster numbers (sorted by first authors; presenting author):**

1. Matthias Deliano, Jennifer Kindler, Max F.K. Happel, Marcus Jeschke, and Frank W. Ohl: Cortical physiology underlying perceptual effects elicited by intracortical microstimulation through a cortical neuroprosthesis.
2. Achim Engelhorn, Matthias Deliano, Jana Theuring, and Frank W. Ohl: Intracortical microstimulation in the primary auditory cortex of the Mongolian gerbil (*Meriones unguiculatus*) affects performance in cortex-dependent auditory task.
3. Felix Felmy, Ida Siveke, and Benedikt Grothe: *In vitro* analysis of synaptic inputs to MSO neurons of adult Mongolian gerbils.

4. Antje Fillbrandt, Matthias Deliano, and Frank W. Ohl: Audiovisual category transfer - an electrophysiological study in the Mongolian gerbil.
5. Hergen Friedrich, Pauline Jirkof, Jürgen Goldschmidt, and Ingo W. Stuermer: Application of thallium autometallography in wild Mongolian gerbils (*Meriones unguiculatus*) in their natural habitat, the Mongolian steppe zone.
6. Hergen Friedrich, Jürgen Goldschmidt, and Ingo W. Stuermer: Thallium autometallography in developing juvenile Mongolian gerbils (*Meriones unguiculatus*) applied around the onset of hearing.
7. Max F.K. Happel, Marcus Jeschke, Matthias Deliano, and Frank W. Ohl: Fine-grained layer-specific analysis of thalamocortical and intracortical activations in the primary auditory cortex after acoustical or direct electrical stimulation – implications for cortical neuroprostheses.
8. Astrid Klinge, Stefan Strahl, and Georg M. Klump: Frequency discrimination thresholds in Mongolian gerbils indicate different mechanisms for discriminating pure tones and detecting a mistuned component in a complex stimulus.
9. Simone Kurt, Christoph Moeller, Marcus Jeschke, and Holger Schulze: Differential effects of iontophoretic application of the GABA<sub>A</sub>-antagonists bicuculline and gabazine on tone-evoked local field potentials in primary auditory cortex: Interaction with ketamine anesthesia.
10. Anna Laszcz, Jürgen Goldschmidt, Frank W. Ohl, Henning Scheich, Michael Schildt, Holger Schulze, Wolfram Wetzel, Werner Zuschratter, and Eike Budinger: Neuroanatomical correlates of hemispheric lateralizations in gerbil auditory cortex.
11. Andrea Lingner, Teresa Kindermann, Lutz Wiegrebe, and Benedikt Grothe: Azimuthal sound localization and spatial unmasking in the Mongolian gerbil.
12. Holger Lison, Eike Budinger, Henning Scheich, and Jürgen Goldschmidt: Baseline metabolism in the Mongolian gerbil brain with a focus on the auditory system - a combined <sup>14</sup>C-2-deoxyglucose and thallium-autometallography study.
13. Sebastiaan W.F. Meenderink and Marcel van der Heijden: Distortion product otoacoustic emissions: comparison between the “traditional” (two-tone) and a novel (multi-tone) stimulus paradigm.
14. Judith Mylius, Michael Brosch, Henning Scheich, and Eike Budinger: The auditory corticofugal system of the gerbil - frequency-specific connections of field AI with anatomically defined structures of the auditory pathway.
15. Maria I. Noblejas, Wolfram Wetzel, and Frank W. Ohl: Lesions of the anterior cingulate cortex prevent spontaneous recovery of a previously extinguished conditioned response.
16. Susanne Radtke-Schuller, Frank Angenstein, Jürgen Goldschmidt, and Eike Budinger: A CT/MRT aided stereotaxic atlas of the Mongolian gerbil brain (*Meriones unguiculatus*).

17. Horst Schicknick, Eike Budinger, Anett Riedel, Björn H. Schott, Karl-Heinz Smalla, and Wolfgang Tischmeyer: Dopaminergic modulation of auditory cortex-dependent memory retention and retrieval.
18. Ida Siveke, Stefan D. Ewert, Benedikt Grothe, and Lutz Wiegerebe: Psychophysical and physiological evidence for fast binaural processing.
19. Holger Stark, Thomas Rothe, and Henning Scheich: Auditory shuttle-box conditioning of gerbils – a tool for fundamental investigation of cognitive principles.
20. Ingo W. Stuermer: Eighteen specifics of Laboratory gerbils (*Meriones unguiculatus* forma domestica) auditory scientist should kept in mind – a summary of morphological, behavioural and neurophysiological differences between domesticated and wild Mongolian gerbils (*Meriones unguiculatus*).
21. Marei Typlt, Susanne Dehmel, Bernhard Englitz, Conny Kopp-Scheinflug, and Rudolf Rübsamen: Clustering of AVCN neurons recorded extracellular in vivo.
22. Wolfram Wetzel, Frank W. Ohl, and Henning Scheich: Lateralized cortical processing of frequency-modulated tones: evidence from auditory cortex lesion studies in Mongolian gerbils.
23. Miriam Wolf and Lutz Wiegerebe: Localization dominance in the Mongolian gerbil (*Meriones unguiculatus*) and the effect of stimulus frequency.
24. Abdelhafid Zeghibib, Antje Fillbrandt, Matthias Deliano, Frank W. Ohl: Audio-visually evoked neural oscillations in primary auditory cortex of Mongolian gerbils.