

# Schedule

<December 4>

**13:00 - 13:10** **Opening remarks for the 15<sup>th</sup> Auditory Research Forum**

*Hiroshi Riquimaroux*

**13:10 - 14:20** **Oral Presentation (1)**

(at Seminar Room 5, the 1<sup>st</sup> FL. KAKUTAI-KAN)

(Chair: *Motoi Kudo*)

13:10 - 13:30

*Masashi Tanimoto, Yukiko Ota, Maya Inoue and Yoichi Oda*

**Origin of Inner Ear Hair Cells: Morphological and Functional Differentiation from Ciliary Cells into Hair Cells in Zebrafish Inner Ear**

13:30 - 13:50

*Yukinari Nakata, Kohta I. Kobayasi and Hiroshi Riquimaroux*

**Chronological changes in communication call of Mongolian gerbil between pairs of a male and a female revealed by long term recordings.**

13:50 - 14:20

*Ichiro Nakahara and Kazuo Funabiki*

**Development of micro-endoscope for functional imaging of neurons located deep in the brain.**

**14:20 - 14:30** **Break**

**14:30 - 15:30** **Oral Presentation (2)**

(at Seminar Room 5, the 1<sup>st</sup> FL. KAKUTAI-KAN)

(Chair: *Kazuo Ueda*)

14:30 - 15:00

*Rolf Mueller, Zhen Yan and Jianguo Ma*

**An Agenda for Analyzing Biodiversity in Bat Earshapes & Beampatterns**

15:00 - 15:30

*Peter M. Narins and Sebastiaan W. F. Meenderink*

**Matching of call frequency to inner ear sensitivity in the coqui frog**

**15:30 - 18:00 Poster Session**

(at Seminar Rooms 1, 2, 3, 4 , the 1<sup>st</sup> FL. KAKUTAI-KAN)

- [P1] *Kazuo Ueda and Yoshitaka Nakajima*  
**Perceptual significance of frequency bands derived from factor analyses of speech power fluctuations**
- [P2] *Naoya Taniguchi, Emi Igari, Satoshi Horihata, Shunji Sugimoto and Junsei Horikawa*  
**Mechanisms of auditory spatial selective attention studied by fMRI**
- [P3] *Hiroshi Takaoka and Hiroshi Riquimaroux*  
**Vocal sound perception influenced by auditory selective attention to right/left ear**
- [P4] *Saori Yamaoka and Hiroshi Riquimaroux*  
**Spatial association of tone pitch height: the SMARC effect**
- [P5] *Ryosuke O. Tachibana, Kohta I. Kobayasi, Hiroshi Riquimaroux*  
**Neural correlates of behavioral performance in a simple audiomotor task**
- [P6] *Tatsuhiko Harada*  
**Nonlinear version of SFOAE does not show overshoot to noise composed of multiple random-phase tone**
- [P7] *Tasuku Sakashita, Chiaki Sakamoto, Takuji Koike and Ken Hayashi*  
**Effects of a cochlear fistula on the vibration of the basilar membrane: Theoretical analysis**
- [P8] *Shizuko Hiryu and Hiroshi Riquimaroux*  
**Developmental changes in the ultrasonic vocalizations of infant FM echolocating bats, *Pipistrellus***
- [P9] *Yasuko Funabiki and Kazuo Funabiki*  
**Sensitive period on sensory learning**
- [P10] *Ikkyu Aihara, Takeshi Mizumoto, Takuma Ohtsuka, Ryu Takeda and Hiroshi G. Okuno*  
**Spatio-Temporal Dynamics on Synchronized Calling Behavior of Japanese Tree Frogs**

- [P11] *Sean Berquist, Jennifer Ho and Walter Metzner*  
**Sound production in the isolated mouse larynx**
- [P12] *Yi Sun, Jiangxia Yin, Shuyi Zhang and Walter Metzner*  
**A novel role of the “language gene” FoxP2 in olfaction?**
- [P13] *Li Gao, Lin Feng, Sreenath Balakrishnan and Rolf Mueller*  
**Dynamic Ear Shapes in Horseshoe Bats**
- [P14] *Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*  
**An experimental and theoretical investigation of pulse production rate for effective target search of echolocating bats**
- [P15] *Akihito Kashiwagi, Shizuko Hiryu and Hiroshi Riquimaroux*  
**Recordings of cochlear microphonics in FM bat (*Pipistrellus abramus*)**
- [P16] *Yuya Kanehana, Yasufumi Yamada, Kohta I. Kobayasi, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*  
**Measurement of neural responses in the inferior colliculus of Japanese FM echolocating bats**
- [P17] *Kagami Yukako, Takenaga Toshiya, Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*  
**Acoustic characteristics of echolocation pulse and flight trajectory in *Miniopterus fuliginosus* during paired flight in chamber.**
- [P18] *Ryosuke Kasai, Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*  
**Temporal relationships between sonar beam and flight direction of echolocating FM bats during obstacle avoidance**
- [P19] *Yasufumi Yamada, Naohiro Matsuta, Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*  
**Measurement of 3-D direction of echolocation pulse in *Rhinolophus ferrumequinum* during flight by using microphone array system**
- [P20] *Ikuo Matsuo and Takuma Takanashi*  
**Temporal changes of echoes dependent on the wing beats of insects**
- [P21] *Keigo Hobara, Takafumi Monden, Ryota Numata, Shunji Sugimoto and Junsei Horikawa*  
**Optical imaging of auditory-visual multimodal cortical areas in guinea pigs**

[P22] *Hiroshi Sawatari, Yoshihide Tanaka, Masataka Nishimura and Wen-Jie Song*  
**Area map of auditory and somatosensory cortex in mice**

[P23] *Kotaro Naritomi, Kohta I. Kobayasi, Hiroshi Riquimaroux, Kousuke Taki and Motoi Kudo*  
**Comparative neuroanatomy of the Mongolian gerbil brain : a stereotaxic atlas**

[P24] *Kohta I. Kobayasi, Akihiro Usami and Hiroshi Riquimaroux*  
**Is amodal completion of acoustic signals unique in primates?**

**18:00 - 20:00 Dinner**

**21:00 - Poster session (cont.)**

<December 5>

**07:30 - 09:20 Breakfast & Poster Session (cont.)**

**09:20 - 10:20 Oral Presentation (3)**

(Chair: *Junsei Horikawa*)

09:20 - 09:40 *Sayoko Takano and Shinobu Masaki*

**Recent MRI database at ATR BAIC for speech organ imaging**

09:40 - 10:00 *Naohiro Matsuta, Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*

**Directional shift between initial and terminal FM portions of echolocation pulse in Japanese horseshoe bats during flight**

10:00 - 10:20 *Toshiya Takenaga, Yukako Kagami, Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*

**Frequency shifts in echolocation pulse in a cluttered environment created by dense chain obstacles: Comparison between FM echolocating bats, *Pipistrellus abramus* and *Miniopterus fuliginosus***

**10:20 - 10:30 Break**

**10:30 - 11:30 Oral Presentation (4)**

(Chair: *Hiroshi Riquimaroux*)

10:30 - 11:00 *James A. Simmons, Mary E. Bates and Tengiz V. Zorikov*

**Harmonic misalignment in echoes causes image defocusing to create resistance to clutter interference in the FM bat, *Eptesicus fuscus***

11:00 - 11:30 *Cynthia F. Moss, Wei Xian, Chen Chiu and Annemarie Surlykke*

**Echolocating bats control the direction and timing of sonar signals to inspect complex environments**

**11:30 - 11:50 General Discussion**

(Chair: *James A. Simmons*)

**11:50 - 12:00 Closing Remarks**

*Hiroshi Riquimaroux*

**12:00 - 13:00 Lunch**

**13:00 Adjourn**

