

Schedule

<December 6>

13:30 - 13:40 Opening remarks for the 13th Auditory Research Forum

Hiroshi Riquimaroux

13:40 - 14:40 Oral Presentation (1)

(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)

(Chair: *Kazuo Ueda*)

13:40 - 14:00 *Azusa Kamikouchi*

The neural basis of *Drosophila* gravity sensing and hearing

14:00 - 14:20 *Kohei Nishiyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Is ultrasonic emission of Mongolian gerbils (*Meriones unguiculatus*) the acoustic by-product of locomotor respiratory coupling?

14:20 - 14:40 *Emyo Fujioka, Toshiya Takenaga, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*

Strategy to attack a target prey of Japanese house bat (*Pipistrellus abramus*) in the field revealed by a microphone-array system

14:40 - 15:00 Break

15:00 - 15:30 Oral Presentation (2)

(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)

(Chair: *Walter Metzner*)

15:00 - 15:30 *James A. Simmons and Mary E. Bates*

Consequences of harmonic disparities in FM echoes for perception of delay by echolocationg bats

15:30 - 18:00 Poster Session

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

- [P1] *Ikuo Matsuo*
Range discrimination of multiple closely spaced objects from the measured echo spectrogram
- [P2] *Shizuko Hiryu, James A. Simmons and Hiroshi Riquimaroux*
Reactions to echo ambiguity caused by chain obstacle for three different FM bat species, *Eptesicus fuscus*, *Pipistrellus abramus* and *Miniopterus fuliginosus*
- [P3] *Kohta I. Kobayasi, Steffen R. Hage, Sean Berqist, Jie Ma and Walter Metzner*
An *in vitro* model of vocalizations for the Doppler-shift compensating bat, *Rhinolophus ferrunequinum*
- [P4] *Naotaro Hirade, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*
Attentive control of flight and pulse directions emitted by echolocating bats during obstacle avoidance
- [P5] *Shigeki Mantani, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*
Acoustic characteristics of echolocation pulse emitted by CF-FM bats during approaching to fluttering insect prey in the laboratory
- [P6] *Yuya Kanehana, Yu Watanabe, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*
Relationship between wingbeat cycle and pulse emission timings shown by a wireless telemetry sound system in three species of echolocating bats
- [P7] *Toshiya Takenaga, Emyo Fujioka, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*
Characteristics of echolocation pulse in wild FM bats (*Pipistrellus abramus*) during group foraging flight, measured by microphone array system

- [P8] *Yuto Furusawa, Shizuko Hiryu and Hiroshi Riquimaroux*
The reference frequency of Japanese horseshoe bat during paired flight recorded by an onboard microphone
- [P9] *Yukinari Nakata and Hiroshi Riquimaroux*
Delay-sensitive structure in FM echolocating bat, *Pipistrellus abramus*, created by self-organizing map technique
- [P10] *Rika Shiraki, Kotaro Ichikawa, Tomio Shinke, Nobuaki Arai, Tomonari Akamatsu and Kanjana Adulyanukosol*
Development of detection algorithms for dugong calls
- [P11] *Ryota Numata, Tomonori Matsubayashi, Shunji Sugimoto and Junsei Horikawa*
Differential effects of AI activity on the activity of the belt fields of the guinea pig auditory cortex
- [P12] *Kazuo Ueda and Yoshitaka Nakajima*
A computational approach to speech perception: A consistent clustering of power fluctuations in English, French, German, and Japanese
- [P13] *Takashi Doi and Hiroshi Riquimaroux*
Are there any differences between the primary and the anterior auditory fields?
- [P14] *Akihiro Usami and Hiroshi Riquimaroux*
Responses of inferior collicular neurons to FM sounds: Which FM part of sweeps contributes to selective response?
- [P15] *Yoichi Suwa and Hiroshi Riquimaroux*
Responses of auditory cortical neurons to FM tones in the awake Mongolian gerbils
- [P16] *Ikkyu Aihara, Takeshi Mizumoto, Toru Takahashi, Ryu Takeda and Hiroshi G. Okuno*
Complex synchronization in calling behavior of three Japanese tree frogs

- [P17] *Yoichi Inoue, Shigeto Yoshida and Kazuo Okanoya*
Does a male gibbon change the note order according to the behavioral situations?
- [P18] *Ryoko Nakagawa, Yoshibumi Matushima and Kazuo Okanoya*
Audible vocalization of Japanese wild-derived inbred mouse strain KOR1
- [P19] *Chisato Suzuki and Hiroshi Riquimaroux*
Behavioral responses to frequency modulated sounds in Mongolian gerbils
- [P20] *Shinji Ishino and Hiroshi Riquimaroux*
Behavioral response of Mongolian gerbils to ultrasonic greeting calls
- [P21] *Naoki Ikeda, Shunji Sugimoto and Junsei Horikawa*
EEG analysis of auditory induction of spoken words
- [P22] *Ryosuke Tachibana, Masuzo Yanagida and Hiroshi Riquimaroux*
Corrective responses to feedback perturbation during manual pitch regulation
- [P23] *Takahiro Yorino and Hiroshi Riquimaroux*
Relationships between temporal stability of repetitive tapping and performance of tempo discrimination

18:00 - 20:00 Dinner

21:00 - Poster session (cont.)

<December 7>

7:30 - 9:30 Breakfast & Poster Session (cont.)

9:30 - 10:30 Oral Presentation (3)

(Chair: *Motoi Kudo*)

9:30 - 10:00 *Hisayuki Ojima*

Layer-specific connections of the primary auditory field with extrinsic and intrinsic targets

10:00 - 10:30 *Junsei Horikawa*

A review of optical imaging of auditory cortex of guinea pigs using voltage-sensitive dyes

10:30 - 10:45 Break

10:45 - 11:15 Oral Presentation (4)

(Chair: *Hiroshi Riquimaroux*)

10:45 - 11:15 *Walter Metzner, Jiangxia Yin, Jie Ma, Kailiang Hu and Shuyi Zhang*

FoxP2 expression in the brain of echolocating and non-echolocating bats and its possible role in vocalization

11:15 - 11:50 General Discussion

(Chair: *James A. Simmons*)

11:50 - 12:00 Closing Remarks

Hiroshi Riquimaroux

12:00 - 13:00 Lunch

13:00 Adjourn