

Schedule

<December 3>

13:30—13:40 **Opening remarks for the 16th Auditory Research Forum**

Hiroshi Riquimaroux

13:40—14:40 **Oral Presentation (1)**

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

(Chair: *Walter Metzner*)

13:40—14:10 ○*Andrea M. Simmons, Seth S. Horowitz, Alyssa R. Wheeler, Jeffrey M. Knowles, Jonathan R. Barchi and James A. Simmons*

Specializations in the cochlear nucleus for biosonar processing in the big brown bat

14:10—14:40 ○*Motoi Kudo and Satoru Honma*

The middle suprarenal artery arising from the superior mesenteric artery

14:40—14:55 **Break**

14:55—18:00 **Poster Session**

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

[P1] *Ying Liu, Jiang Feng and* ○*Walter Metzner*

Range discrimination of objects from the measured echo spectrogram

[P2] ○*Takuma Sano and Takuji Koike*

Effects of the shape of the basilar membrane on mechanical frequency discrimination in the cochlea

[P3] ○*Eri Takahashi, Yukako Kagami, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*

Jamming avoidance behavior by *Pipistrellus abramus* during paired fight: Parameter comparison of time-frequency structure of FM pulse using discriminant analysis

- [P4] ○Shotaro Watanabe, Emyo Fujioka, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu
Sonar strategy by FM echolocating bats (*Pipistrellus abramus*) during target search in the field: Analysis of 3-D flight trajectory and pulse direction measured by a microphone array system
- [P5] ○Yuki Kinoshita, Naohiro Matsuta, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu
Prey selection strategy by Japanese horseshoe bats during approaching multiple fluttering moths, measured by microphone array system
- [P6] ○Shunsuke Uchibori, Tetuo Ohta and Shizuko Hiryu
Measurement of human echolocation ability: Preliminary test report for target perception by using ultrasound
- [P7] ○Keiichi Morikawa and Hiroshi Riquimaroux
Characteristics of echolocateing sounds in CF-FM bats during group flight
- [P8] ○Hirotohi Uejima, Kohta I. Kobayasi and Hiroshi Riquimaroux
Atlas of the Bat Brain: *Pipistrellus abramus* and *Rhinolophus ferrumequinum*
- [P9] ○Ryo Kondo and Hiroshi Riquimaroux
Construction of audiograms of *Pipistrellus abramus*
- [P10] ○Tatsuhiko Harada
Visualization of time-course of olivo-cochlear bundle reflex using Stimulus frequency OAE
- [P11] ○Daichi Fukui, Shunji Sugimoto and Junsei Horikawa
Changes in ERP components during phonemic restoration of speech sounds
- [P12] ○Ryosuke O. Tachibana and Hiroshi Riquimaroux
Response selectivity to temporal modulation frequency in human auditory cortex

- [P13] ○*Akihiro Tsuda and Hiroshi Riquimaroux*
Differential contribution of visual and auditory stimuli to the precision of rhythm tapping
- [P14] ○*Hiroshi Takaoka and Hiroshi Riquimaroux*
Auditory selective attention alters intelligibility of dichotically presented speech sound
- [P15] ○*Saori Yamaoka and Hiroshi Riquimaroux*
Spatial association of tone pitch height: Behavioral and fMRI studies
- [P16] ○*Koji Mino and Hiroshi Riquimaroux*
The areas for semantic process of Japanese words estimated by fMRI
- [P17] ○*Hiroki Furutani and Hiroshi Riquimaroux*
Which type of sound produces the best time resolution, tone burst, noise burst or FM burst?
- [P18] ○*Takahiro Shinohara and Hiroshi Riquimaroux*
Recognition of lags between lip movement and vocalization
- [P19] ○*Takeshi Yamamoto and Hiroshi Riquimaroux*
Effects of learning time-lag between visual and auditory stimuli on perceptual synchronization
- [P20] ○*Sho Matumiya and Hiroshi Riquimaroux*
Relationship between amplitude envelope and pitch-accent of noise-vocoded speech sound
- [P21] ○*Tomoya Nakamura and Hiroshi Riquimaroux*
Creation of pitch information in noise-vocoded speech sound
- [P22] ○*Haruhiko Tano and Hiroshi Riquimaroux*
How the factor of the noise and tone affect an amount of the auditory induction of tone?

- [P23] ○*Kenji Ofuji and Hiroshi Riquimaroux*
Gap defection in humans
- [P24] ○*Kazuo Funabiki, Go Ashida and Masakazu Konishi*
How the owl's coincidence detectors work?
- [P25] ○*Reiji Suzuki, Charles E. Taylor and Martin L. Cody*
Emergence of driver species in the coevolution of overlap avoidance behaviors in temporal resource partitioning
- [P26] ○*Ryota Numata, Kensuke Hatamura, Shunji Sugimoto and Junsei Horikawa*
Activity propagation in the auditory cortex of guinea pigs after cortical electrical stimulation of AI using optical imaging
- [P27] ○*Teppei Jono*
Species recognition by acoustic signal structure in several nocturnal *Gekko* species
- [P28] *Sawatari H, Takemoto M, Nishimura M and* ○*Song W-J*
Characterization of the Mouse Insular Auditory Field
- [P29] ○*Hironori Baba, Hiroaki Tsukano, Yuusuke Honma, Shinsuke Ohshima, Yamato Kubota, Ryuichi Hishida, Kuniyuki Takahashi, Sugata Takahashi and Katsuei Shibuki*
ON and OFF responses in the mouse auditory cortex disclosed after sound exposure
- [P30] ○*Keizo Fukushima, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Wireless measurement of the cochlear microphonics in Mongolian gerbils
- [P31] ○*Akihito Kashiwagi, Takafumi Furuyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Different type of communication calls are elicited by electric stimulation in Mongolian gerbil

- [P32] ○ *Yuki Torigoe, Kohta I. Kobayasi and Hiroshi Riquimaroux*
How do Mongolian gerbils perceive differences in slope of FM sounds?
- [P33] ○ *Naoya Akiyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Responsible areas for the perception of FM sound in Mongolian gerbils: Near-infrared laser study
- [P34] ○ *Takafumi Furuyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Factors to identify individuality in coo calls of Japanese macaque
- [P35] ○ *Eriko Takeo, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Analysis of change in isolation calls during growth process in Mongolian gerbil
- [P36] ○ *Yuka Nakamura, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Recording cochlear microphonics by an implanted electrode in Mongolian gerbils

18:00—20:00 Dinner

21:00— Poster session (cont.)

<December 4>

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

9:30—10:30 Oral Presentation (2)

(Chair: *Junsei Horikawa*)

9:30—10:00 *Xi Chen, Yiping Guo, Zhengli Liao, Xinjian Li, Haitao Wang, Xiao Li, and*
○*Jufang He*

Formation and Retrieval of Visuoauditory Associative Memory in Auditory Cortex

10:00—10:30 ○*Hisayuki Ojima, Rina Komazaki and Yasuhiro Kumei*

Behavioral Evaluation of Sound Discrimination by Guinea Pigs

10:30—10:45 Break

10:45—11:15 Oral Presentation (3)

(Chair: *Hiroshi Riquimaroux*)

10:45—11:15 ○*Peter M. Narins*

Anthropogenic noise and its influence on the evolution of communication systems

11:15—11:45 General Discussion

(Chair: *James S. Simmons*)

11:45—12:00 Closing Remarks

Hiroshi Riquimaroux

12:00—13:00 Lunch

13:00 Adjourn