

Schedule

<December 13>

13:00—13:10 **Opening remarks for the 1st Annual Meeting for the Society for Bioacoustics & the 19th Auditory Research Forum**

Hiroshi Riquimaroux

13:10—14:10 **Oral Presentation (1)**

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

(Chair: Junsei Horikawa)

13:10—13:30

○ *Suguru Matsui, Kohta I. Kobayasi, Hiroshi Riquimaroux*

Does pulsed infrared laser irradiation generate temporal pitch perception?

13:30—13:50

○ *Yasufumi Yamada, Arie Oka, Shinichi Tateiwa, Takumi Tsuji, Kanae Kawamura, Tetsuo Ohta, Shizuko Hiryu, Hiroshi Riquimaroux and Yoshiaki Watanabe*

Real-time obstacle avoidance for autonomous vehicles inspired by bat's echolocation system

13:50—14:10

○ *Hideki Takago*

Otoferlin alters mode of exocytosis at the mouse inner hair cell ribbon synapse

14:10—14:25

Break

14:25—15:25

Oral Presentation (2)

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

(Chair: Andrea Simmons)

14:25—14:55

○ *Tomonari Akamatsu*

Acoustic remote sensing of marine organisms

14:55—15:25 ○ *Rolf Müller*
Biosonar Research at the Shandong University – Virginia Tech International Laboratory

15:25—17:30 Poster Session
(at Seminar Rooms 1, 2, 3, 4, the 1st FL. KAKUTAI-KAN)

- [P1] ○ *Tomoyo Isoguchi Shiramatsu, Hirokazu Takahashi*
Oscillation in rat auditory cortex representing texture of chord
- [P2] ○ *Satoko Ono, Kazuo Okanoya, Yoshimasa Seki*
An oddball response to the deviant sequence in songbird auditory forebrain
- [P3] ○ *Yuki Aoyama, Nodoka Wakabayashi, Masaomi Mito, Shunji Sugimoto and Junsei Horikawa*
Activity to auditory, visual and somatosensory multimodal stimuli in the core fields of guinea-pig auditory cortex
- [P4] ○ *Takeshi Matsubara, Kohei Asahara, Shunji Sugimoto, Tsuneo Nitta and Junsei Horikawa*
Spatiotemporal analysis of EEG activity patterns evoked by Japanese vowels
- [P5] ○ *Ichiro Nakahara, Norio Wada, Thomas Knöpfel, Shigetada Nakanishi and Kazuo Funabiki*
Axonal Ca²⁺ accumulation of the cerebellar granule cells underlies motor enhancement
- [P6] ○ *Shinya Fujii, Akihiro Goto, Ichiro Nakahara, Dai Watanabe and Kazuo Funabiki*
An attempt to record circadian oscillation of hippocampal ERK activity using micro-endoscope

- [P7] ○ *Hidetaka Yashiro, Ichiro Nakahara, Kota I. Kobayasi, Kazuo Funabiki and Hiroshi Riquimaroux*
Spatio-temporal imaging of auditory responses from deep brain area using a micro-endoscope
- [P8] ○ *Shota Murai, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Cortical substrates for the perception of the noise-vocoded speech sounds: Evaluation with listening test and fMRI
- [P9] ○ *Yuta Tamai, Suguru Matsui, Kohta I Kobayasi and Hiroshi Riquimaroux*
Action potentials generated by optical stimulation to the round window in Mongolian gerbil with peripheral hearing loss
- [P10] ○ *Ayako Nakayama, Kohta I. Kobayasi and Hiroshi Riquimaroux*
How does cochlear nonlinearity contribute to detect high frequency communication sounds in Mongolian gerbils?
- [P11] ○ *Takeshi Morimoto, Kohta Kobayasi, Hiroshi Riquimaroux*
Representation of temporal pitch by cochlear microphonics
- [P12] ○ *Hiroshi Onodera, Ikuo Matsuo, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Measurement of Cochlear microphonics in Japanese house bat (*Pipistrellus abramus*)
- [P13] ○ *Hideaki Nakaoka, Kohota I. Kobayasi and Hiroshi Riquimaroux*
Noise induced hearing loss in Mongolian gerbils evaluated by the cochlear microphonics recorded at lower brainstem
- [P14] ○ *Darlene R. Ketten, Jezekial Shoshani, Julie Arruda, Scott Cramer, Aleks Zosuls, David Mountain, Andrea M. Simmons, James A. Simmons, and Hiroshi Riquimaroux*
Extreme Hearing: Functional analyses of land and marine micro to mega ears

- [P15] ○*Hiromi Mukai, Hiroshi Nishino and Takuma Takanashi*
Sensing vibration in land bugs: the unusual morphologies of leg chordotonal organs
- [P16] ○*Kazuko Tsuchihara, Kazuo Yamazaki, Shinji Sugiura, Takenari Inoue and Takuma Takanashi*
Mechanosensilla responding to airflow: distribution among various butterfly caterpillars
- [P17] ○*Maia Okayasu and Takuji Koike*
Effects of characteristic cochlear configuration in bats on vibration of basilar membrane
- [P18] ○*Tatsuhiko Harada*
The effect of intra-canal pressure to acoustic characteristic in wide frequency range
- [P19] *Shinya Isaji, Kazuo Ueda, Yoshitaka Nakajima and Gerard B. Remijn*
Tiled speech: Psychophysics of speech intelligibility
- [P20] ○*Kazuo Ueda and Yoshitaka Nakajima*
Three factors or four? Factor analyses of spoken sentences revisited
- [P21] ○*Haruna Inoue, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Does sleep facilitate perceptual learning of noise-vocoded speech sounds?
- [P22] ○*Mako Kitagawa, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Does manipulating characteristics of simultaneously presented auditory stimulus alter the tactile perception?
- [P23] ○*Daiki Goto, Shizuko Hiryu, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Modification in pulse characteristics in flying Japanese horseshoe bats during acoustically interfered conditions produced by multiple conspecifics

- [P24] ○ *Yuta Shiromi, Masataka Nishimura and Wen-Jie Song*
Chirp-related transitions between synchronous and asynchronous male-female vocalizations during guinea pig courtship behavior
- [P25] ○ *Masaru Kondo, Kiri Hyomoto, Emyo Fujioka, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*
Behavioral dynamics of jamming avoidance by FM bats (*Pipistrellus abramus*) during group flight in the field
- [P26] ○ *Takara Miyamoto, Kazuma Hase, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*
Changes in acoustic characteristics of pulse by FM bats, *Pipistrellus abramus* and *Miniopterus fuliginosus*, under FM jamming condition
- [P27] ○ *Ryosuke O. Tachibana and Kazuo Okanoya*
Acoustical analysis of temporal variability in Bengalese finch songs
- [P28] ○ *Shintaro Shiba, Kazuo Okanoya and Ryosuke O. Tachibana*
Lombard effect in Bengalese finches: re-investigation of song acoustic features
- [P29] ○ *Takafumi Furuyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Classification of vocalizations in Japanese house bats
- [P30] *Kaiichiro Ota, ○Ikkyu Aihara and Toshio Aoyagi*
Bayesian Estimation of Deterministic Chorus Dynamics in Japanese Tree Frogs (*Hyla japonica*)
- [P31] ○ *Yuka Mishima, Tadamichi Morisaka, Miho Itoh, Aiko Sakaguchi and Yoshinori Miyamoto*
Individuality in the contact calls of captive beluga whales (*Delphinapterus leucas*)

[P32] ○*Ryoichi Iwase*
Vocalizations of sperm whale and fin whale detected at underwater cabled observatories in eastern Japan

[P33] ○*Atsushi Kinjo, Masanori Ito, Ikuo Matsuo, Tomohito Imaizumi and Tomonari Akamatsu*
Species classification of individual free-swimming fish using the support vector machine

[P34] ○*Takumi Tsuji, Yasufumi Yamada, Shinichi Tateiwa, Arie Oka, Tetsuo Ohta and Shizuko Hiryu*
Real-time obstacle avoidance of autonomous vehicle embedded with multi-active detectable system using ultrasound

18:00—20:00 Dinner

20:00—20:30 Night Seminar sponsored by TOYO Corporation
(at Seminar Rooms 6,7, the 1st FL. KAKUTAI-KAN)
○*Chie Kuze*

21:00— Poster session (cont.)

<December 14>

7:30—8:30 Breakfast

8:30—10:00 Poster session (cont.)

10:00—10:20 photo session

10:20—12:00 Oral Presentation (3)

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

(Chair: Hiroshi Riquimaroux)

10:20—10:50 ○ *Cynthia F. Moss, Melville Wohlgemuth and Ninad Kothari*

Representing space through sound

10:50—11:20 ○ *James A. Simmons and Laura Kloepper*

Swarming or Streaming: FM Bats Switch Off their Clutter Control

11:20—11:30 Break

11:30—12:00 *Arij Daou and ○ Daniel Margoliash*

The role of homogeneous intrinsic neuronal excitability in representing an auditory feedback-induced error signal to the basal ganglia in birdsong learning

12:00—13:00 Lunch

13:10—14:10 General Meeting (Award ceremony)

(at Seminar Room 6,7, the 1st FL. KAKUTAI-KAN)

14:20—16:00 Oral Presentation (4)

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

(Chair: Walter Metzner)

- 14:20—14:50 ○*Andrea M. Simmons, Shokei Boku, Suguru Matsui, Hiroshi Riquimaroux and James A. Simmons*
**Noise-induced threshold shifts in auditory brainstem responses:
Are bats special?**
- 14:50—15:20 ○*Peter M. Narins, Sebastiaan W.F. Meenderink, Marcel van der Heijden
and Christopher Bergevin*
Slow Dynamics of the Amphibian Tympanic Membrane
- 15:20—15:30 Break**
- 15:30—16:00 *Akihiro Goto, Ichiro Nakahara, Michiyuki Matsuda, Shigetada Nakanishi,
and ○Kazuo Funabiki*
**Dynamic regulation of PKA and ERK in the dorsal striatum under-
lying in action**
- 16:00—16:30 General Discussion**
(Chair: James Simmons)
- 16:30—16:40 Closing Remarks**
Hiroshi Riquimaroux
- 16:40 Adjourn**