Schedule

<December 14>

13:00－13:10 Opening remarks for the 18th 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 ○*Shota Murai, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Relationships between performance for listening test of the noise-vocoded speech sounds and changes in neural activities

13:30－13:50 ○*Hidetaka Yashiro, Ichiro Nakahara, Kohta I. Kobayasi, Kazuo Funabiki and Hiroshi Riquimaroux*
Optical imaging of the auditory response in the mouse's inferior colliculus using a micro-endoscope

13:50－14:10 ○*Eri Takahashi, Kiri Hyomoto, Kazuma Hase, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*
Changes in acoustic characteristics of echolocation pulses emitted by FM bat under artificial jamming conditions

14:10－14:20 Break

14:20－15:20 Oral Presentation (2)
(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)
(Chair: *Hiroshi Riquimaroux*)

14:20－14:50 ○*James A. Simmons, Michaela Warnecke and Victoria Flores*
Target shape perception and clutter rejection use the same mechanism in bat sonar

14:50－15:20 ○*Walter Metzner*

Different forms of auditory-vocal feedback control in echolocating bats

15:20－15:30 Break

15:30－16:00 Oral Presentation (3)

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

(Chair: *Hiroshi Riquimaroux*)

15:30－16:00 ○*Motoi Kudo, Fuduki Inoguchi, Kousuke Taki, Tomoko Kimura, Junko Okano, Yoshinari Aimi and Jun Udagawa*

Parcellation of the inferior colliculus in cat, mole and rat: the rostral pole exists as a separate entity

16:00－18:00 Poster Session

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

[P1] ○*Satoko Ono, Kazuo Okanoya and Yoshimasa Seki*

Variability of auditory response to the birds' own song in neurons of the songbird auditory forebrain area

[P2] ○*Takafumi Furuyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*

The role of vocal-tract characteristics for identifying individuality in Japanese macaques

[P3] ○*Shinya Isaji, Kazuo Ueda and Yoshitaka Nakajima*

Effects of frequency-band elimination on identification of noise-vocoded Japanese syllables

[P4] ○*Takashi Noguchi, Takeshi Morimoto, Takafumi Furuyama, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Sound induced visual illusions in Japanese macaques

[P5] ○*Shota Murai, Marina Takabayashi, Yuki Nakayama, Kohta I. Kobayasi, Jan Auracher and Hiroshi Riquimaroux*

Perceived correspondence between acoustic characteristics of phonemes and abstract semantic concepts: An fMRI study

[P6] ○*Hiroki Terashima and Masato Okada*

Pitch cells as a computational analogue to complex cells of visual cortex

[P7] ○*Kazuo Ueda, Yoshitaka Nakajima and Takuya Fujioka*

Factor analyses of power fluctuations in spoken sentences: Applying cepstral analysis

[P8] ○*Kentaro Ono, Christian Altmann, Masao Matsuhashi, Tatsuya Mima and Hidenao Fukuyama*

Effects of the regularity in a tone sequence on the processing of sound omission in musicians and nonmusicians

[P9] ○*Hiroyuki Fujita, Shunji Sugimoto and Junsei Horikawa*

An ERP study of parsing mechanisms on the basis of Japanese theme-rheme frame

[P10] ○*Minori Iwata, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Comparative study on subjective differences in impression between sounds generated by Japanese and Western wind instruments

[P11] ○*Marina Takabayashi, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Are pitch accents in noise-vocoded vowels created by a change in amplitude?

[P12] ○*Genki Asaka, Shota Murai, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Synchronous rhythm sensation measured with synchronization tapping task

[P13] ○*Yuki Nakayama, Kyohei Nozawa, Shota Murai, Shohei Hisano, Kohta I. Kobayasi, Junsei Horikawa and Hiroshi Riquimaroux*

Comparison between inductive and deductive reasonings through vocalized sentences by mean of activities in cortical areas

[P14] ○*Masataka Nishimura and Wen-Jie Song*

Quantitative examination of frequency representation in the guinea pig primary auditory cortex

[P15] ○*Yuki Torigoe, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Brain activities related to communication sounds in Mongolian gerbils, *Meriones unguiculatus*

[P16] ○*Tomoko Uekita*

The effects of partner on vigilance behavior in *Octodon degus*

[P17] ○*Naoya Akiyama, Kohta I.Kobayasi, Tomoko Uekita and Hiroshi Riquimaroux*

Inactivation of the auditory cortex with muscimol disrupts discrimination of different temporal pattern of noise in the Mongolian gerbil

[P18] ○*Tetsu Watanabe, Shunji Sugimoto and Junsei Horikawa*

Spectral and temporal processing in the auditory cortex of guinea pigs: responses to species-specific vocalization

[P19] ○*Ayako Nakayama, Hidetaka Yashiro, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Hearing sensitivity for constant frequency sounds and frequency modulated sounds in Mongolian gerbils

[P20] ○*Yuta Shiromi, Masataka Nishimura, Yuta Oshima and Wen-Jie Song*

Identification and characterization of a new vocalization of male guinea pig

[P21] ○*Hisayuki Ojima, Eriko Tachi and Masato Taira*

Sound recognition by guinea pigs: spectral and temporal cues and interval changes

[P22] ○*Yuka Nakatani, Shokei Boku, Kohta I. Kobayasi, and Hiroshi Riquimaroux*

Responses corresponding to the auditory induction in the cochlear microphonics

[P23] ○*Hiroshi Onodera, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Intra-cranially recorded cochlear microphonics and compound action potentials responding to amplitude modulated tones and repetitive clicks in Mongolian gerbils

[P24] ○*Takeshi Morimoto, Shokei Boku, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Processing to create periodicity pitch in the cochlea: the cochlear microphonics in Mongolian gerbil

[P25] ○*Suguru Matsui, Takeshi Morimoto, Shokei Boku, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Optical stimulation of the round window generates the compound action potentials in the auditory neurons

[P26] ○*Shin Kawai, Shokei Boku, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Noise induced damage in hair cells of Mongolian gerbils evaluated by cochlear microphonics

[P27] ○*Takayuki Kato, Kazuhisa Fujita and Yoshiki Kashimori*

Neural mechanism of extracting target information in the inferior colliculus in echolocating bat

[P28] ○*Ryosuke O. Tachibana, Neal A. Hessler and Kazuo Okanoya*

Neural basis for adaptive adjustment of local temporal structure of birdsong

[P29] ○*Ikkyu Aihara, Emyo Fujioka, Yasufumi Yamada and Shizuko Hiryu*

Mathematical and experimental studies on prey pursuit by echolocating bats

[P30] ○*Ikuo Matsuo, Alyssa Wheeler, Laura Kloepper, Jason Gaudette and James A. Simmons*

3D acoustic tracking of bats in clutter environments from microphone arrays

[P31] ○*Daiki Goto, Hana Tsuji, Shizuko Hiryu, Kohta I. Kobayasi and Hiroshi Riquimaroux*

Echo extraction using purposely created beats by overlapping emitted pulses of multiple CF-FM bats during flight

[P32] ○*Shinichi tateiwa, Arie Oka, Yasufumi Yamada, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*

Real-time obstacle avoidance algorisms for autonomous vehicles based on bat's echolocation system

[P33] ○*Shotaro Ota, Daiki Ogata, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*

Investigations of pulse direction and directivity in CF-FM bats during artificial moth capture flight

[P34] ○*Naoya Makihara, Sizuko Hiryu, Kouta I. Kobayasi and Hiroshi Riquimaroux*

Behaviorally obtained audiogram of Japanese house bats, *Pipistrellus abramus*

[P35] *Lei Wang, Yanhong Xiao, Hongwei Wang, Guanjun Lu, Ying Liu,* ○*Tinglei Jiang and Jiang Feng*

Stereotypy and variability of social calls among huddling female Big-footed myotis: implications for individual recognition

[P36] ○*Aiqing Lin, Tinglei Jiang, Jagmeet S. Kanwal, Guanjun Lu, Jinhong*

Luo, Xuewen Wei, Bo Luo and Jiang Feng
The microevolution of echolocation and communication calls in the Himalayan leaf-nosed bat

[P37] ○*Shokei Boku, Suguru Matsui, Takeshi Morimoto, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Auditory sensitivity in Japanese house bat, *Pipistrellus abramus*

[P38] ○*Chun-Jen Hsiao, Ching-Lung Lin and Chung-Hsin Wu*
Comparative anatomy of cochlear structures between CF-FM and FM bats in Taiwan

[P39] ○*Koki Yoshimura, Hiroki Yoshioka, Shotaro Watanabe, Kiri Hyomoto, Yoshiaki Watanabe, Hiroshi Riquimaroux, Tetsuo Ohta and Shizuko Hiryu*
Direction and acoustic characteristics of pulses emitted by wild FM bats (*Pipistrellus abramus*) revealed by a super microphone array system

[P40] *Hongjun Lin,* ○*Ying Liu and Jiang Feng*
Vocal communication in adult greater tube-nosed bats (*Murina leucogaster*)

[P41] ○*Hana Tsuji, Shizuko Hiryu, Kohta I. Kobayasi and Hiroshi Riquimaroux*
Changes in pulse emissions of Japanese horseshoe bats according to relative position in acoustically jammed conditions

18:00－20:00 Dinner

20:00－21:00 Oral Presentation (4)
(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)
(Chair: *James A. Simmons*)

20:00－20:30 ○*Daniel Margoliash and Timothy P. Brawn*

A new model for sleep dependent auditory memory consolidation

20:30－21:00 ○*Peter Narins*

A novel middle ear adaptation in the Central African frog *Petropedetes parkeri* (Ranidae)

21:00－ Poster session (cont.)

<December 15>

7:30－8:30 Breakfast & Poster Session (cont.)

8:30－9:30 Oral Presentation (5)
(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)
(Chair: *Walter Metzer*)

8:30－9:00 ○*Rolf Müller, Mittu Pannala, Naren Ramakrishnan and Hongxiao Zhu*
Information-theoretic analysis of the pinna dynamics in horseshoe bats

9:00－9:30 ○*Andrea M. Simmons, Michaela Warnecke, Erika E. Alexander and Andrew Stephens-Smith*
Flow sensing behaviors in amphibian tadpoles

9:30－9:45 Break

9:45－10:45 Oral Presentation (6)
(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)
(Chair: *Dan Margoliash*)

9:45－10:15 ○*Kazuo Funabiki*
Development of micro-endoscope for in vivo Ca and FRET imaging in freely moving animal

10:15－10:45 ○*Go Ashida, Kazuo Funabiki, Jutta Kretzberg and Catherine E. Carr*
Phase-locked inputs and binaural information processing

10:45－11:00 Break

11:00－11:30 Oral Presentation (7)
(at Seminar Room 5, the 1st FL. KAKUTAI-KAN)
(Chair: *Kazuo Ueda*)

11:00－11:30　○*Tatsuhiko Harada*

Effects of contralateral sound to wide band reflectance of the ear -A novel detecting tool for olivocochlear bundle reflex separated from middle ear muscle reflex

11:30－11:55　General Discussion

(Chair: *Peter Narins*)

11:55－12:00　Closing Remarks

Hiroshi Riquimaroux

12:00－13:00　Lunch

13:00　Adjourn