

10th Auditory Research Forum Japan 2005

Date: 14:00 on December 3, (Sat.) –12:00 on December 4, (Sun.), 2005

Place: Doshisha Biwako Retreat Center

Address: 179 Aza-Yamamichi Oaza-Kitakomatu Shigacho Shigagun, Shiga
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<http://www.doshisha.ac.jp/sotsugyo/shisetu/retreat/index.html>

Fee: 10,000 yen (7,000 yen for students)

(including proceedings, accommodation, dinner & party, breakfast, lunch)

Organizer: Hiroshi Riquimaroux (Doshisha University)

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List of past forum site:

Izu-nagaoka (1996), Izu-nagaoka (1997), Yugawara (1998), Shuzenji (1999), Tatsukuchi in Ishikawa (2000), Kamiyamada-onsen in Nagano (2001), Yugawara (2002), Biwako Retreat Center in Shiga (2003), Biwako Retreat Center in Shiga (2004)

Schedule

<December 3>

14:00 - 15:10 Oral Presentation(1)

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

(Chair: *Katuei Shibuki*)

14:00 - 14:10 **Opening remarks for the 10th Auditory Research Forum Japan**

Hiroshi Riquimaroux

14:10 - 14:40 *Kazuo Ueda, Yoshitaka Nakajima*

Is Speech Special?

14:40 - 15:10 *Yoshi Tamori*

Spatiotemporal coding of chromaticity

15:10 - 15:30 Break

15:30 - 18:00 Poster Session

(at Seminar Room1, 2, 1st Fl. KAKUTAI-KAN)

[P1] *Yamato Kubota, Kuniyuki Takahashi, Masaharu Kudoh, Katsuei Shibuki*

Transcranial fluorescence imaging of cortical activities elicited by AM sounds of various envelopes in mouse AAF and AI

[P2] *Masaya Tuji, Hiroshi Riquimaroux*

Neural responses in the Gerbil's Auditory Cortex depend upon the rate of rise of Tone Burst

[P3] *Takashi Doi, Hiroshi Riquimaroux*

Neural responses in AAF of the gerbil's auditory cortex depend upon the direction of FM sweeps

[P4] *K. Watanabe, D. Kamatani, R. Hishida, M. Kudoh, K. Shibuki*

Long-term depression induced by low frequency stimulation and tetanic stimulation in the rat auditory cortex

[P5] *Toshinari Kawasaki, Hiroshi Riquimaroux*

Neural responses in the auditory cortex of the Mongolian gerbil modified by irradiating the contralateral auditory cortex with near-infrared laser

[P6] *Akira Yamamoto, Hiroshi Riquimaroux*

Local area network in the gerbil's auditory cortex: Reversible focal inactivation with infrared laser irradiation

- [P7] *H. Kuba, R. Yamada, H. Ohmori*
Tonotopic variations in acuity of auditory coincidence detection in nucleus laminaris of the chick
- [P8] *Masataka Nishimura, Hiroshi Shirasawa, Wen-Jie Song*
Quantitative identification of subfields and their borders of the auditory cortex in guinea pigs
- [P9] *Kentaro Ono, Masaharu Kudoh, Katsuei Shibuki*
Auditory cortex lesion impaired flexible learning and audio-visual associative learning in rats
- [P10] *Tomofumi Taketani, Yasunari Sasaki, Hiroshi Riquimaroux*
Detection sensitivity of FM and CF sounds in temporal masking conditions in Mongolian gerbils
- [P11] *Ryota Nakazawa, Yasunari Sasaki, Hiroshi Riquimaroux*
Discrimination of temporal pattern of downward FM sweeps by Mongolian gerbils
- [P12] *Yuki Nagata, Yasunari Sasaki, Hiroshi Riquimaroux*
Discrimination of call sequence pattern by Mongolian gerbils
- [P13] *Tatsunori Shin, Hiroshi Riquimaroux*
Categorization of communication calls in Mongolian gerbils
- [P14] *Eri Honda-Sumi, Noyuri Suetsugu, Naoko Irie, Atsuko Saito, Toshikazu Hasegawa*
Field recordings of the infrasonic sounds of Asian elephants
- [P15] *Takuma Takanashi, Ryo Nakano, Yukio Ishikawa, Annemarie Surlykke, Niels Skals*
Ultrasonic singing and hearing in *Ostrinia* moth species
- [P16] *Yumi Nabetati, Hiroshi Riquimaroux*
Selective use of frequency bands for vocal communications in Mongolian gerbils (*Meriones unguiculatus*)
- [P17] *Yoshiki Osawa, Hisayoshi Motogoshi, Shizuko Hiryu, Yoshiaki Watanabe, Hiroshi Riquimaroux*
The jamming avoidance behavior in echolocating FM bats, *Pipistrellus abramus*, recorded with a telemetry microphone system during a flight

- [P18] *Yoko Kato, Kazuo Okanoya*
Response properties of the auditory neurons in a sensorimotor integration nucleus of Bengalese finches to self-produced songs.
- [P19] *Shizuka Tokin, Kohichi Tanaka, Kazuo Okanoya*
Neural responses to communicational sounds in the inferior colliculus of the naked mole-rat
- [P20] *Yu Shiori, Michihiro Fukuda, Tomotaka Hagino, Shizuko Hiryu, Hiroshi Riquimaroux, Yoshiaki Watanabe*
Echolocation behavior of Japanese FM bats (*Pipistrellus abramus*), recorded with a telemetry microphone system during flight
- [P21] *Shizuko Hiryu, Koji Katsura, Tsuyoshi Nagato, Liang-Kong Lin, Hiroshi Riquimaroux, Yoshiaki Watanabe*
Intra-individual shifts in the resting frequency of echolocation pulse in the Taiwanese leaf-nosed bat
- [P22] *Noriyuki Tomita, Yoshi Tamori*
MEG measurement on relative pitch perception
- [P23] *Hiroaki Tsukano, Yamato Kubota, Manavu Tohmi, Masaharu Kudoh, Katsuei Shibuki*
Flavoprotein fluorescence responses to missing fundamentals in the mouse primary auditory cortex
- [P24] *Satoru Tamagami, Hiroshi Riquimaroux*
Neural activities to tone sequences in the gerbil auditory cortex
- [P25] *Shinichi Kagami, Hiroshi Riquimaroux*
Characteristics of neurons in the auditory cortex of Mongolian gerbils responding to complex sounds
- [P26] *Kouichi Yamamoni, Ryosuke Tachibana, Hiroshi Riquimaroux*
Effective training of noise-vocoded speech sound by real-time processor
- [P27] *Megumi Saruta, Yuki Shinohara, Ryosuke Tachibana, Hiroshi Riquimaroux*
Possible factors influencing word intelligibility of noise-vocoded speech sound: degree of familiarity and way of instruction

[P28] *Yusuke Kumagai, Ryosuke Tachibana, Hiroshi Riquimaroux*
Relationships between articulatory structures measured by MRI and acoustic characteristics of vowels

[P29] *K.I. Kobayasi, J. Ma; M. Smotherman, W. Metzner*

The Control of Call Frequency and Temporal Call Parameters in the Brainstem of Echolocating Horseshoe Bats.

[P30] *Tsuyoshi Nagato, Yoshiaki Watanabe, Hiroshi Riquimaroux*

Functional organization of auditory cortex in the FM bats *Pipistrellus abramus*

[P31] *Kazuhiro Goto, Hiroshi Riquimaroux*

Examining influence of the substance which effects neural system by seeing ABR from gerbil

[P32] *Tatsuro Hosokawa, Yuichi Morinaka, Shizuko Hiryu, Liang-Kong Lin, Hiroshi Riquimaroux, Yoshiaki Watanabe*

Sound localization model based on the alternating pinna movements of CF-FM bat, *Hipposideros terasensis*

[P33] *Kensuke Ogawa, Hiroshi Riquimaroux*

Auditory system controls vision: Multimodal interaction in velocity perception

[P34] *Go Ashida, Kousuke Abe, Kazuo Funabiki*

Passive soma structure facilitates submillisecond coincidence detection in the owl's auditory neuron.

18:00 - 20:00 Dinner

21:00 - Poster session (con.)

<December 4>

7:30 - 9:30 Breakfast & Poster Session

9:30 - 11:15 Oral Presentation (2)

(Chair: *Kazuo Ueda*)

9:30 - 10:00 *Masaharu Kudoh, Ryuichi Hishida, Katsuei Shibuki*

Roles of the auditory association cortex in discrimination learning of complex spectrum sounds

10:00 - 10:30 *Motoi Kudo*

Origin, development and plasticity of the medial superior olive (MSO)

10:30 - 10:45 Break

10:45 - 11:15 *Hiroshi Riquimaroux*

To What Extent Do You Know the Auditory Periphery?

11:15 - 11:50 General Discussion

(Chair: *Motoi Kudo*)

11:50 - 12:00 Closing Remarks

Hiroshi Riquimaroux

12:00 - 13:00 Lunch

13:00 Adjourn