

The 5th Annual Meeting of the Society for Bioacoustics will be held in the Honjo Campus, Kumamoto University on Saturday and Sunday, 8-9 December 2018.

## 1 The Organizing Committee Members

Chair	Wen-Jie SONG	Kumamoto University (Japan)
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Member	Takuji KOIKE	The University of Electro-Communications (Japan)
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Member	Makoto TAKEMOTO	Kumamoto University (Japan)
Member	Masataka NISHIMURA	Kumamoto University (Japan)

## 2 Sponsor

The Meeting is sponsored by the Organizing Committee of the 5th Annual Meeting of the Society for Bioacoustics.

## 3 Cosponsor

We express our gratitude for the valuable cooperation and assistance given by our cosponsor.

- Kumamoto University

## 4 Financial Supports

We express our gratitude for the financial supports given by the following company.

- Bio Research Center Co. Ltd.
- Toei Kaisha, Ltd.
- Yao Muto Co. Ltd.

## 5 Meeting Announcement

**Dates and time:** Saturday through Sunday, 8-9 December 2018.

**Venue:** Yamasaki Memorial Hall, Honjo Campus, Kumamoto University, 1-1-1 Honjo, Kumamoto 860-8556, Japan.

**Language:** All presentations and discussions are delivered in English.

**Presentations:** Most of the contributed papers will be presented as posters. Oral presentations are given by invited senior researchers and selected junior researchers.

**Banquet:** The banquet will be held in the Saturday evening, 8 December 2018, at the hall.

**Awards:** Presentation awards are granted to excellent presentations. The award ceremony will be held at noon of the 2nd day, 9 December 2018.

### 5.1 Registration

Registration starts in the morning of 8 December 2018 at the meeting site. Attendees who have pre-registered may pick up their badges and registration materials including Conference Proceedings at the registration desk.

The registration fee for those who have not pre-registered is 24,000 yen for members and 32,000 yen for non-members, and 13,000 yen for student members and 17,000 yen for non-member students.

### 5.2 Presentations

Please bring your own computer and an appropriate connecting adaptor/cable if necessary, when you are allotted to oral presentations. Only a video projector with VGA connections, a screen, and loudspeakers will be prepared by the organizer. Poster boards and fastening materials will be provided. The space for each poster is 120 cm wide and 180 cm tall.

### 5.3 Banquet

The banquet will be held in the Saturday evening, 8 December 2018, on campus. The banquet fee is 5,000 yen for an employed person and 3,000 yen for a student. Pre-registration is required for reserving a seat for the banquet.

### 5.4 Awards

Presentation awards are granted to excellent presentations. The award winners will be

selected from both oral and poster presenters. You have to be a student member or a regular member who obtained a PhD degree within the last three years in order to apply for Awards. You have to indicate that you would like to apply for the Awards when you submit your abstract. The award ceremony will be held on Sunday, 9 December 2018.

## **6 Transportation**

The meeting site is located at the center of Kumamoto city. It takes about 40 minutes from Kumamoto airport, and about 10 minutes from Kumamoto station, by bus.

## **7 Accommodations**

Please arrange accommodation yourself. There are many hotels within walking distance from the meeting site. Recently, Kumamoto is seeing more and more tourists, so please make your reservation as early as possible. If you have difficulty in booking a hotel, please contact the secretariat by e-mail <bainfo@bacoust.org>.

## **8 Wireless Internet Connections**

Kumamoto University provides eduroam service. Eduroam is an international wireless LAN roaming infrastructure that realizes mutual use of campus wireless LAN between universities and other educational and research organizations.

Details of eduroam and its participating institutions can be confirmed below.

<https://www.eduroam.org/> (English)

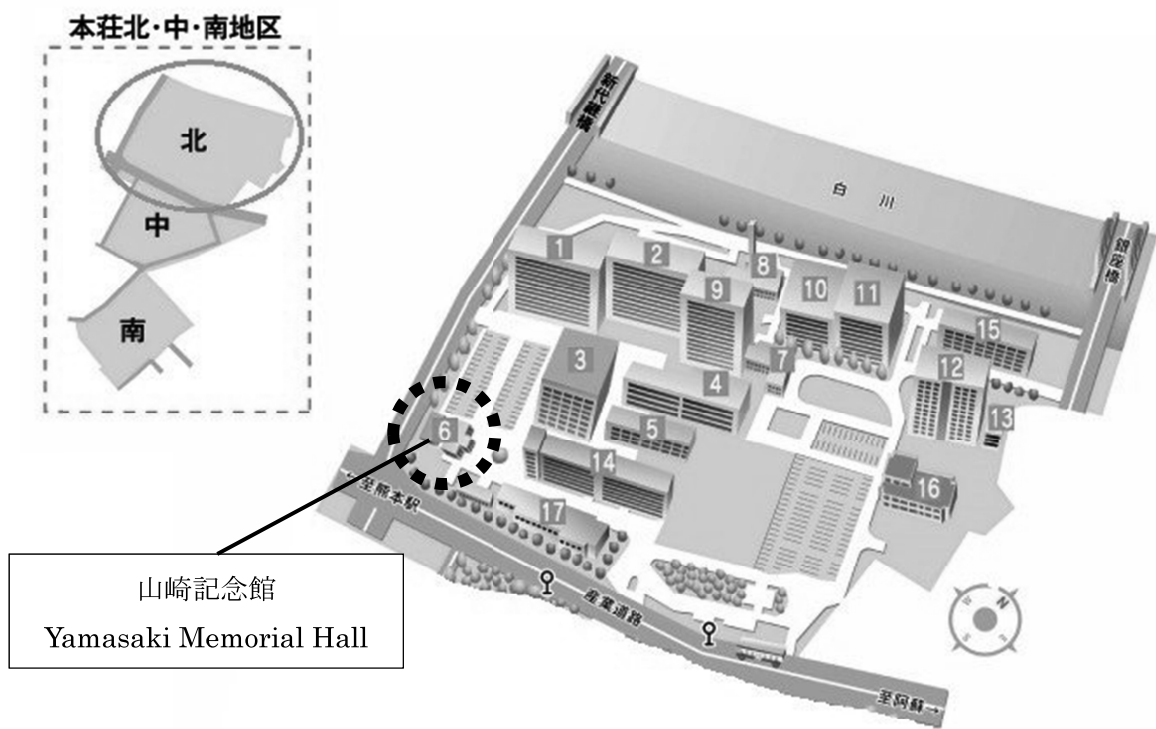
<https://www.eduroam.jp/-Information-for-users/> (English)

[https://www.eduroam.jp/for\\_users/](https://www.eduroam.jp/for_users/) (Japanese)

## **9 Weather**

The average temperature in Kumamoto in December varies between 2 to 12 degrees Celsius. It rains on five days on average during the whole month.

## 10 Map of the Campus





## 11 Program

### 11.1 Saturday, 8 December 2018

(10:00 - 12:00)    **Executive Meeting**

12:00                **Starting Registrations (at Yamasaki Memorial Hall)**

13:00 - 13:10      **Opening Remarks (Wen-Jie Song) at the meeting room**

13:10 - 14:10      **Oral Session 1: Mouse Auditory System (Chair: Makoto Takemoto)**

13:10 - 13:40      ***Invited Talk***

Hiroaki Tsukano: Characterization of secondary auditory cortical fields in mice (8)

13:40 - 14:10      ***Invited Talk***

Kouta Kanno: Individual differences of courtship ultrasonic vocalizations in male mice (10)

14:10 - 14:40      **General Assembly**

14:40 - 15:00      **Taking Group Pictures and Break**

15:00 - 17:00      **Poster Session**

- P1    Takuma Takanashi\*, Kazuo Yamazaki, Shinji Sugiura, Takenari Inoue, Kazuko Tsuchihara: Caterpillar mechanoreceptors: morphology, distribution and mechanical response of sensilla in various lepidopteran larvae (12)
- P2    Kengo Shibata\*, Takuma Takanashi, Takuji Koike, Tsuyoki Tayama, Ryuichi Onodera, Toshifumi Ono, Shouta Abe, Takahiro Sekine, Yasuyuki Komagata: Development of an efficient method for behavioral disruption using vibration against pest insects in greenhouses (14)
- P3    Ryusei Tanaka\*, Natsumi Kanzaki, Takuma Takanashi: Behavioral responses to vibrations in two *Caenorhabditis* nematodes (16)
- P4    Tetsutaro Hiraguchi\*: The efficacy of vibration in the behavioral selection of cricket nymph (18)
- P4    Akari Furutani\*, Chihiro Mori, Natsune Shikano, Kazuo Okanoya: Comparisons of the trill rates among aggressive, affiliative and isolated situations in Java sparrows (*Lonchura oryzivora*) (20)
- P5    Takafumi Iizuka\*, Chihiro Mori, Kazuo Okanoya: Song related auditory-motor neurons in Bengalese finches: analyses using temporal difference of gene expression (22)

- P6 Natsune Shikano\*, Akari Furutani, Ryosuke O. Tachibana, Kazuo Okanoya: Measuring Java sparrow's (*Loncura oryzivora*) attention to biological sounds using head motion (24)
- P7 Sotaro Kondoh\*, Ryosuke O. Tachibana, Kazuo Okanoya: EEG correlates of multistate meter perception (26)
- P8 Sinyoung Lee\*, Takuji Koike: Relationship between active area on the basilar membrane and hearing level: Simulation using human cochlear finite-element model (28)
- P9 Mika Kuroda\*, Motoki Sasaki, Kazutaka Yamada, Nobuhiro Miki, Takashi Matsuishi: Sound production and frequency-determining mechanism in the head of toothed whales (30)
- P10 Makoto M. Itoh\*: Female calls reduce intraspecific or interspecific sexual coercion in two Japanese pond frogs (32)
- P11 Meng Sun\*, Makoto Takemoto, Wen-Jie Song: Patchy organization of thalamocortical axons in superficial layers of the mouse auditory cortex (34)
- P12 Makoto Takemoto\*, Wen-Jie Song: Layer-specific subcortical circuits of the mouse insular cortex (36)
- P13 Bo Zhou\*, Ryohei Tomioka, Kenji Sakimura, Yuchio Yanagawa, Nobuaki Tamamaki, Wen-Jie Song: Multilevel innervations to the auditory pathway by GABAergic neurons in the mouse basal ganglia (38)
- P14 Shiro Nakata\*, Makoto Takemoto, Wen-Jie Song: Anatomical study of cortical and subcortical projections from the primary auditory area and the anterior auditory field in mice (40)
- P15 Masataka Nishimura\*, Chi Wang, Yuta Shiromi, Wen-Jie Song: A newly-developed timing production task for guinea pigs to mimic decodable quick actions of human (42)

(The presenting author is marked by asterisk.)

**17:00 - 18:00      Oral Session 2: Echolocation (Chair: Motoi Kudo)**

**17:00 - 18:00      *Special Lecture***

Hiroshi Riquimaroux: Echolocation of bats, revised concepts (44)

**18:00 - 20:00      Banquet**

## 11.2 Sunday, 9 December 2018

9:15 - 10:15	<b>Oral Session 3: Measurement of Acoustically-evoked Neural and Muscular Responses (Chair: Takuma Takanashi)</b>
9:15 - 9:45	Takuma Sugi: Bandpass filter circuit elicits discrete behavioral patterns in <i>C. elegans</i> (46)
9:45 - 10:15	Tatsuhiko Harada: Time course measurement of wideband reflectance of the ear -Toward simultaneous recording of middle ear muscle and olivocochlear reflexes- (48)
10:15 - 10:30	<b>Break</b>
10:30 - 12:00	<b>Oral Session 4: Bird Vocalizations and Auditory System (Chair Wen-Jie Song)</b>
10:30 - 11:00	Yoshimasa Seki: Imitation of human music and synchronized singing by cockatiels (50)
11:00 - 12:00	<b><i>Special Lecture</i></b> Yoko Yazaki-Sugiyama: Innate and acquired auditory neuronal pathways for zebra finch song learning (52)
12:00 - 12:10	<b>Award Ceremony</b>
12:10 - 12:15	<b>Announcement of the Next Meeting</b>
12:15 - 12:45	<b>General Discussion and Closing Remarks (Hiroshi Riquimaroux)</b>

## 12 Abstracts

From the next page, abstracts are placed in the order of presentation.