

## TECHNICAL DIVISION



Head  
 KAJIURA-KOBAYASHI, Hiroko

### Common Facility Group

Chief: MIWA, Tomoki

#### ● NIBB Core Research Facilities

Unit Chief: KONDO, Maki  
 Subunit Chief: MAKINO, Yumiko  
 YAMAGUCHI, Katsushi  
 Technical Staff: NISHIDE, Hiroyo  
 NAKAMURA, Takanori  
 TANIGUCHI-SAIDA, Misako  
 UCHIKAWA, Tamaki  
 BINO, Takahiro  
 Technical Assistant: ICHIKAWA, Chiaki  
 NISHIMURA, Noriko  
 ICHIKAWA, Mariko  
 ISHIKAWA, Azusa  
 OKA, Naomi  
 SHIBATA, Emiko

#### ● NIBB Bioresource Center

Unit Chief: OHSAWA, Sonoko  
 Subunit Chief: HAYASHI, Kohji  
 MOROOKA, Naoki  
 Technical Staff: NOGUCHI, Yuji  
 Technical Assistant: TAKAGI, Yukari  
 SUZUKI, Keiko  
 SUZUKI, Kohta  
 SUGINAGA, Tomomi  
 KOTANI, Keiko

#### ● Disposal of Waste Matter Facility

Unit Chief: MATSUDA, Yoshimi

#### ● Center for Radioisotope Facilities

Unit Chief: MATSUDA, Yoshimi  
 Subunit Chief: SAWADA, Kaoru  
 Technical Staff: IINUMA, Hideko  
 Technical Assistant: ITO, Takayo

### Research Support Group

Chief: MORI, Tomoko

#### ● Developmental Biology

Technical Staff: TAKAGI, Chiyo  
 UTSUMI, Hideko  
 OKA, Sanae  
 MIZUGUCHI, Hiroko

#### ● Neurobiology

Subunit Chief: TAKEUCHI, Yasushi

#### ● Evolutionary Biology and Biodiversity

Unit Chief: FUKADA-TANAKA, Sachiko  
 Unit Chief: MIZUTANI, Takeshi  
 Subunit Chief: KABEYA, Yukiko

#### ● Environmental Biology

Technical Staff: NODA, Chiyo

### Reception

Secretary: TSUZUKI, Shihoko  
 KATAOKA, Yukari  
 UNO, Satoko  
 MIYATA, Haruko

The Technical Division is a support organization for researchers and research organizations within NIBB. The Technical Division develops and promotes the institute's research activities and maintains the research functions of the institute.

The Technical Division is organized into two groups: the Common Facility Group, which supports and maintains the institute's common research facilities, and the Research Support Group, which assists research activities as described in the reports of individual research divisions.

Technical staff members continually participate, through the Division, in self-improvement and educational activities to increase their capabilities and expertise in technical areas. Generally, technical staff members are attached to specific divisions so that they may contribute their special biological and biophysical knowledge and techniques to various research activities.

The Technical Division hosts an annual meeting for technical engineers who work in various fields of biology at universities and research institutes throughout Japan. At this meeting, the participants present their own activities and discuss technical problems. The proceedings are published after each meeting.

# The 64th NIBB Conference “Evolution of Seasonal Timers”

Organizers: Andrew Loudon (Univ. Manchester, UK), David Burt (Roslin Inst., UK), David Hazlerigg (UiT –Arctic Univ. Norway, Norway), Takashi Yoshimura (NIBB, Japan)

April 22 (Fri) - 24 (Sun), 2016

Until now how animals recognize and adapt to seasonal changes in the environment has remained a mystery that has long fascinated human beings. In addition, the impact of sudden climate change caused by global warming etc. on the ecosystem is also a concern, and societal interest in this mystery is great.

With recent research understanding of the mechanisms by which plants and animals perceive seasons has progressed, and both the universality and diversity of the seasonal sensing mechanisms of living organisms has come to light. With this background, the 64th NIBB Conference entitled “Evolution of seasonal timers” was held with the aim of promoting in-depth understanding of the design principles and evolution of the seasonal sensing mechanisms of living things.

Although the keyword of the conference was “season”, topics ranged from “mathematical analysis of the flowering of wild plants in the field”, “mechanisms of migratory behavior and spawning activity of eels”, “hibernation of squirrels”, and “chromatin remodeling and chemical genetics”. Leading researchers in their respective fields came together from across the world. The approximately 100 participants made for an ideal size for the meeting, and facilitated deep discussions in face-to-face settings for every participant throughout the three day period. Members who would normally never have a chance to meet face to face at a usual academy gathered together for an opportunity to deeply consider seasonal sensation from an interdisciplinary point of

view, and we were able to obtain a lot of inspiration toward future research. We received kind acknowledgements such as “the most stimulating symposium I ever had” and “an unforgettable symposium”

I’d like to express my gratitude to the members of the Office of International Cooperation and the Division of Seasonal Biology for the efforts they made to the conference, and I very much appreciate the support from the National Institute for Basic Biology, the Daiko foundation, and the Human Frontier Science Program.

Takashi Yoshimura (On behalf of the organizers)



## Speakers

Barnes, Brian (UAF), Burt, David (The Roslin Institute/Univ. of Edinburgh), Foulkes, Nicholas (KIT), Hazlerigg, David (UiT The Arctic Univ. of Norway), Loudon, Andrew (The Univ. of Mancheste), McClung, C. Robertson (Dartmouth College), Menaker, Michael (Univ. of Virginia), Simonneaux, Valerie (INCI), Tessmar-Raible, Kristin (Univ. of Vienna)  
Izawa, Takeshi (The Univ. of Tokyo), Kitano, Jun (NIG), Kudoh, Hiroshi (Kyoto Univ.), Myung, Jihwan (RIKEN), Nakamichi, Norihito (Nagoya Univ.), Niwa, Ryusuke (Univ. of Tsukuba), Numata, Hideharu (Kyoto Univ.), Satake, Akiko (Kyushu Univ.), Takumi, Toru (RIKEN), Tsukamoto, Katsumi (Nihon Univ.), Yoshimura, Takashi (NIBB)